

PHOTOMETRICS REPORT

# LΩGIC Graze L



ILUMINARC®

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## Testing Process

### Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

### Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

**LΩGIC** Graze L

# Photometrics & Chromaticity Reports

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# Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 3267 lm  
Fixture Peak: 977 cd  
Fixture Efficacy: 66 lm/W  
Intensity @ 5m: 39 lux  
Color Temperature: 5543 K  
CRI: 70.2 CRI R9 Value: 32.4  
CQS: 82.3

TLCI: 80

TM-30 Rf: 73.6

TM-30 Rg: 93.1

Beam Angle (50%): 125.4°

Field Angle (10%): 157.3°

Cutoff Angle (2%): 261.2°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 51.98 W

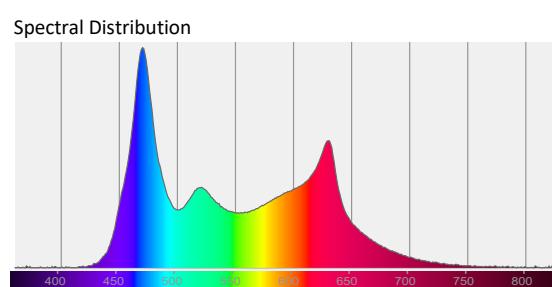
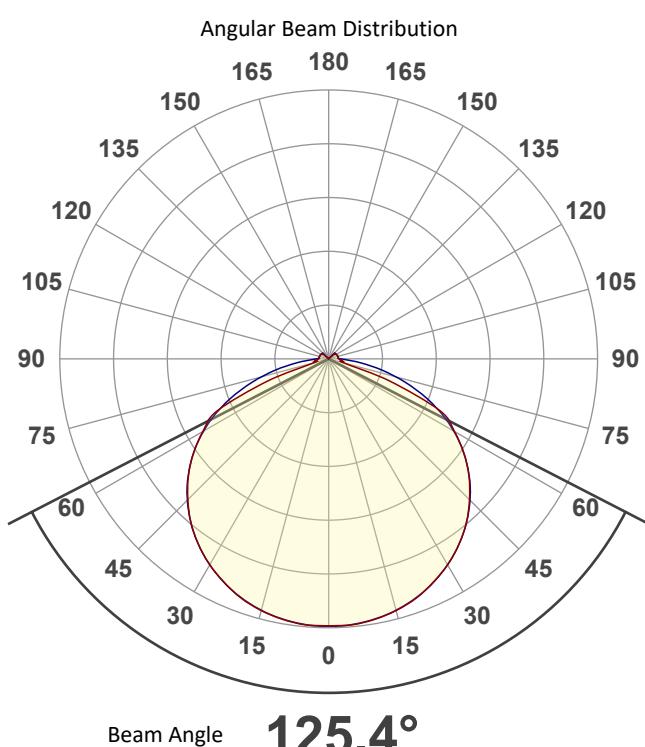
Current: 0.434 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.332  
Y: 0.319

### Light Quality

CRI: 70.2

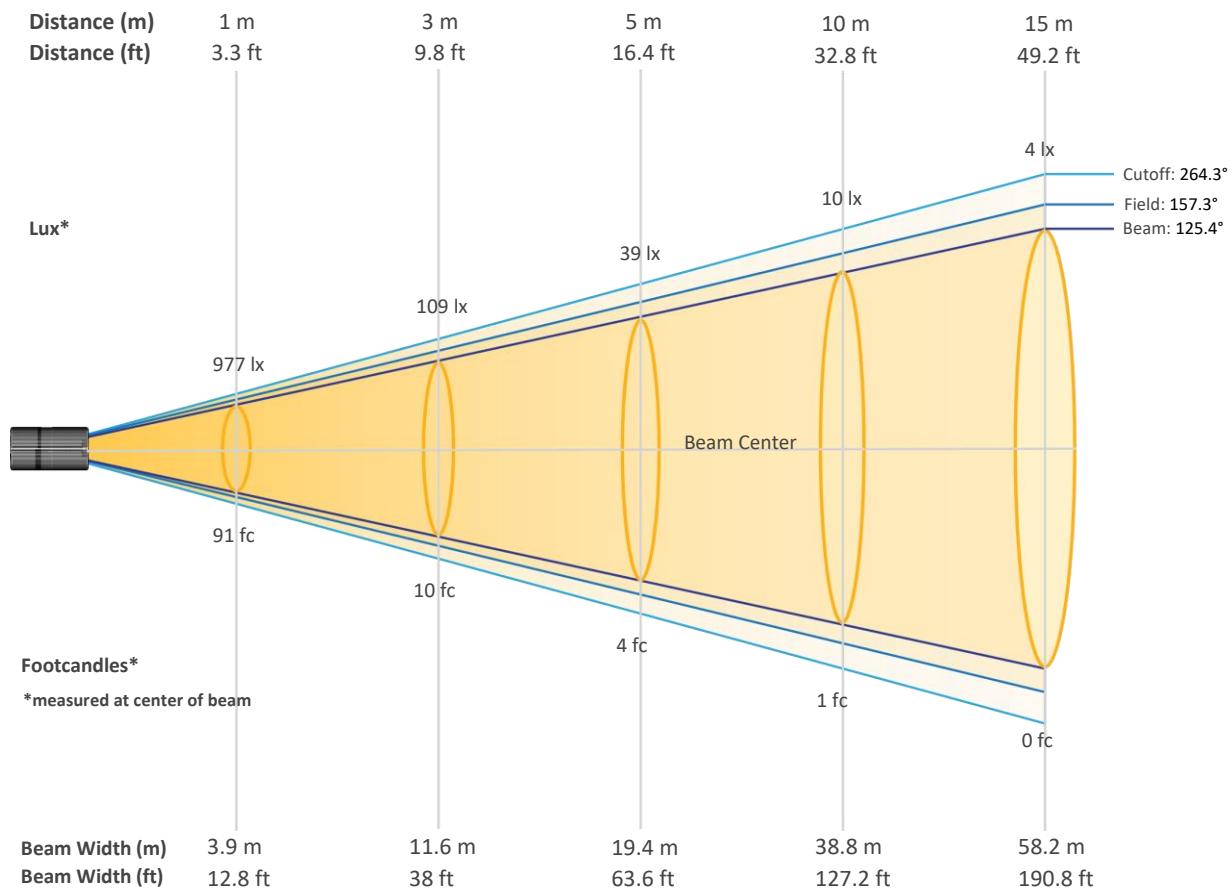
### Color Temperature

5543 K

# Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

## Beam Details

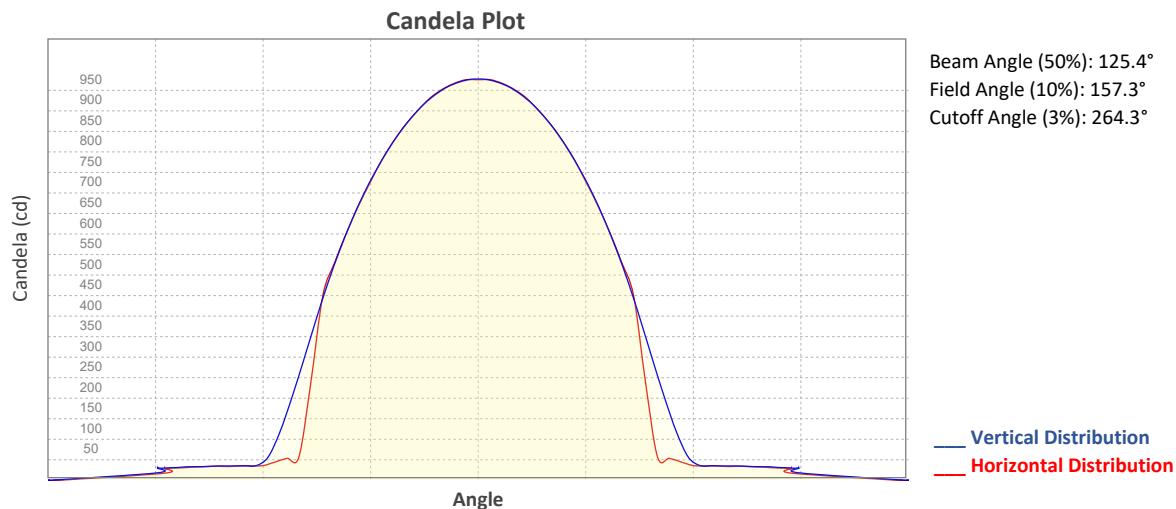


Beam Intensities from 1-20m (3.3-65.6ft)

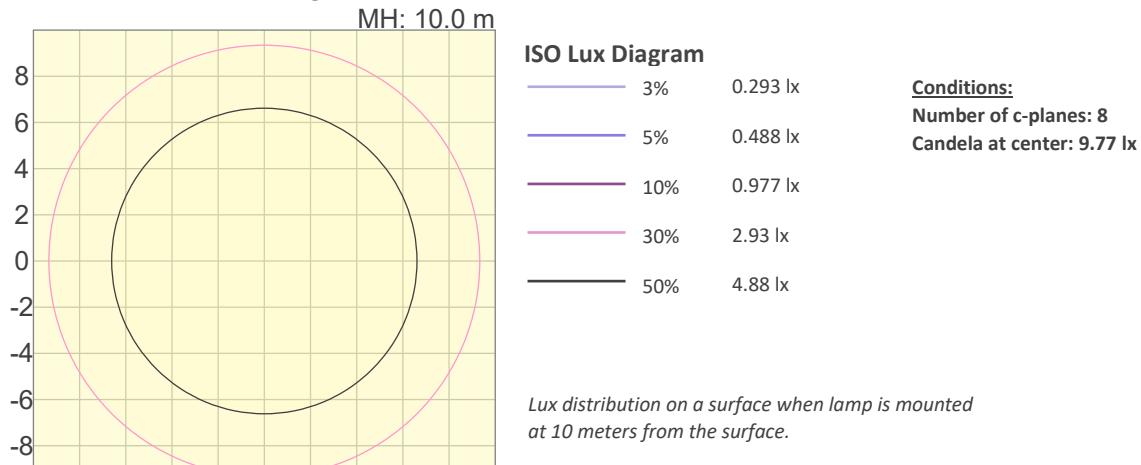
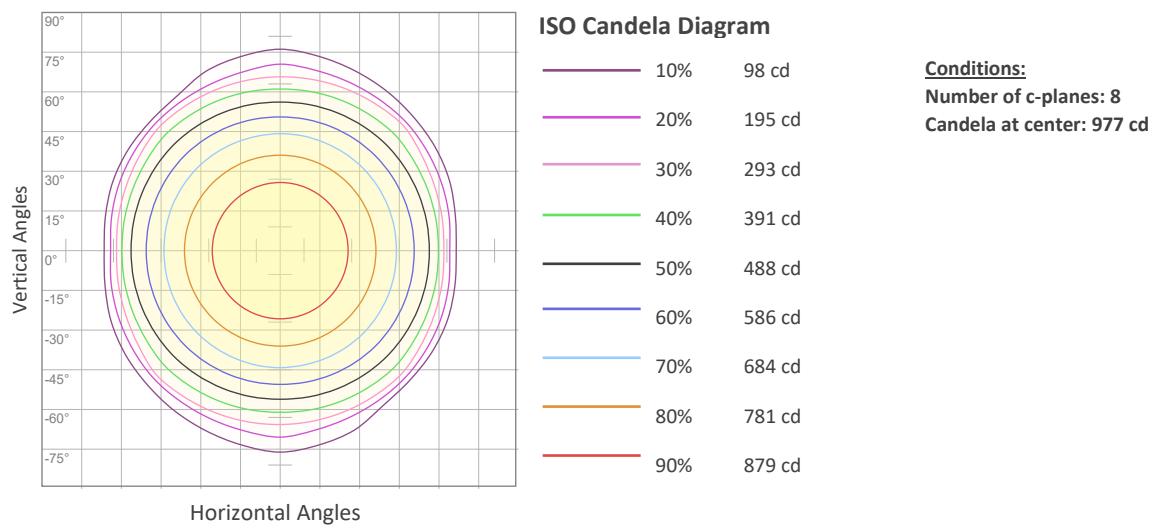
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	977	244	109	61	39	27	20	15	12	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	91	23	10	6	4	3	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power



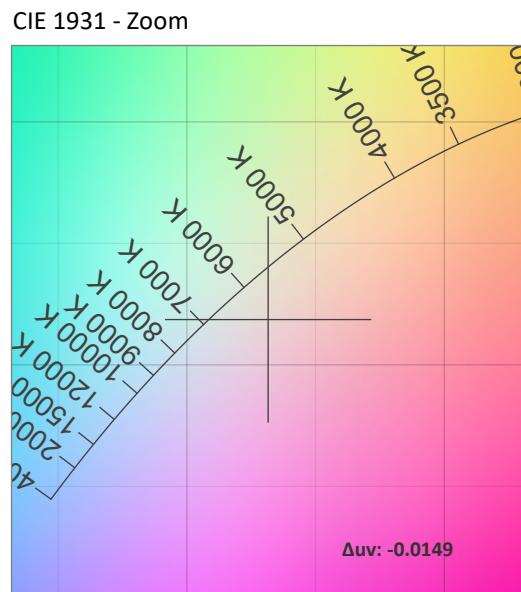
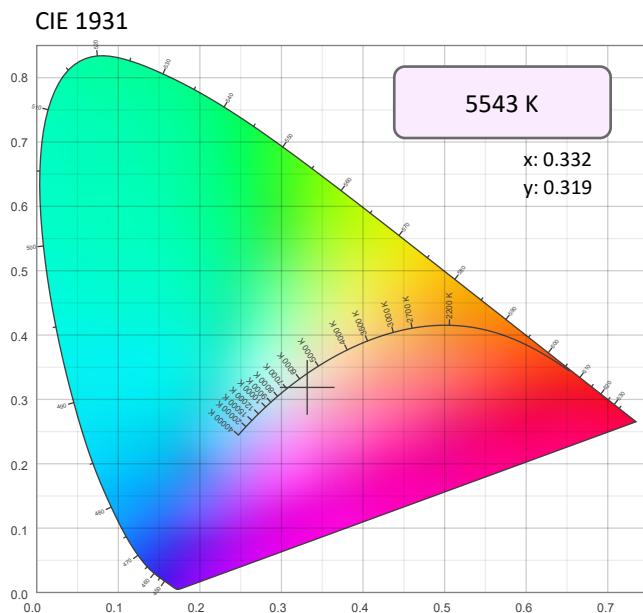
## ISO Diagrams



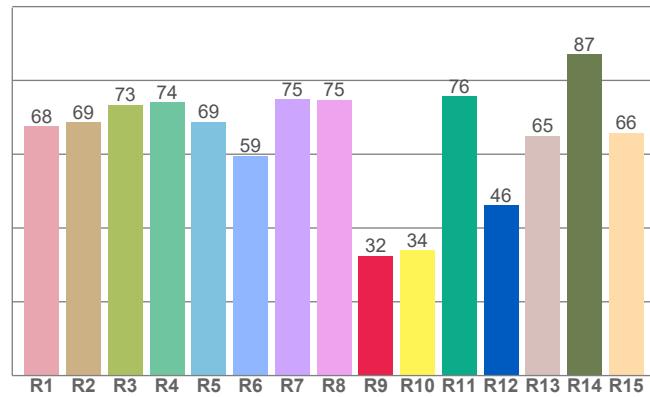
# Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

## Chromaticity



CRI: 70.2 (R1-R8)

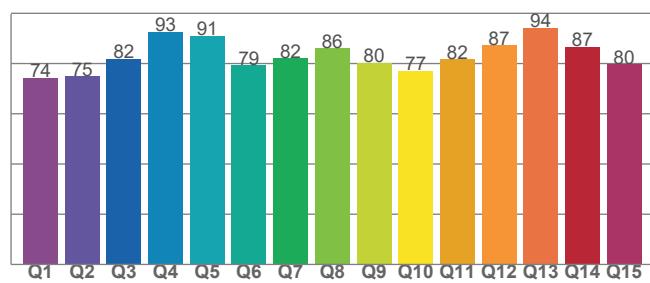


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5543 K	0.332	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0149	0.319	0.215

CQS: 82.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.2	32.4	82.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
80	73.6	93.1

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# Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

## TM-30 Details

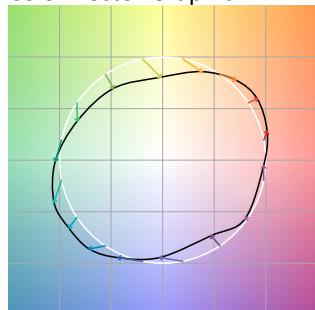
**Rf 73.6**

Fidelity Index  
(Rg)

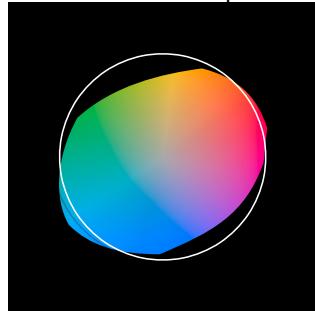
**Rg 93.1**

Gammut Index (Rg)

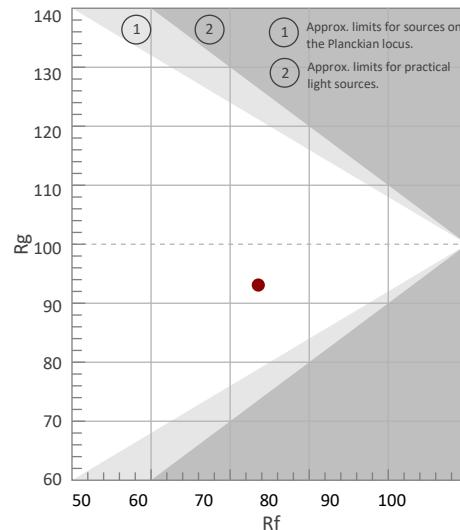
Color Vector Graphic



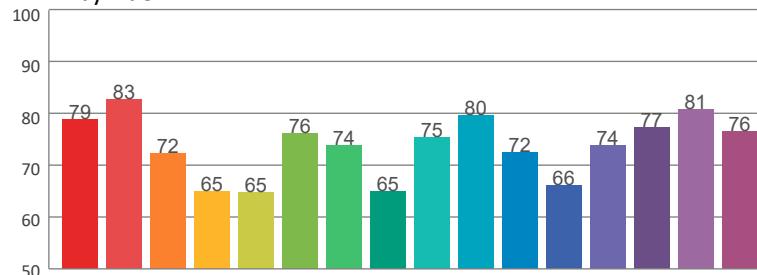
Color Distortion Graphic



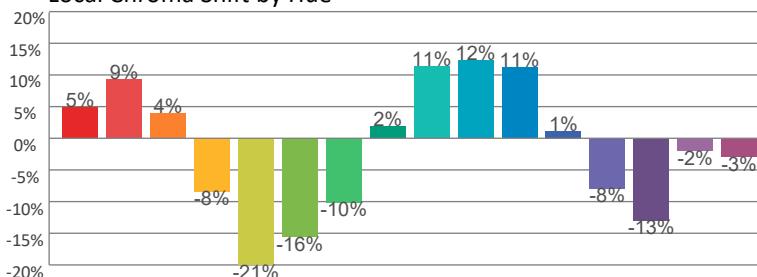
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	79	5%	8%
2	83	9%	-1%
3	72	4%	-16%
4	65	-8%	-20%
5	65	-21%	-14%
6	76	-16%	1%
7	74	-10%	14%
8	65	2%	21%
9	75	11%	20%
10	80	12%	4%
11	72	11%	-11%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-2%
15	81	-2%	-3%
16	76	-3%	14%



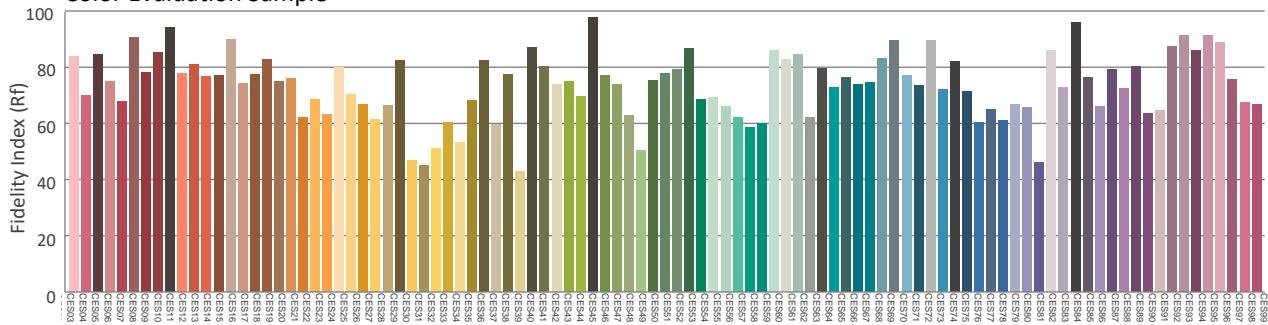
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 2692 lm  
Fixture Peak: 4283 cd  
Fixture Efficacy: 54 lm/W  
Intensity @ 5m: 171 lux  
Color Temperature: 5567 K  
CRI: 69.4      CRI R9 Value: 26.6  
CQS: 81.6

TLCI: 79

TM-30 Rf: 73.0

TM-30 Rg: 93.1

Beam Angle (50%): 34.3°

Field Angle (10%): 70.2°

Cutoff Angle (2%): 127.8°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 52.1 W

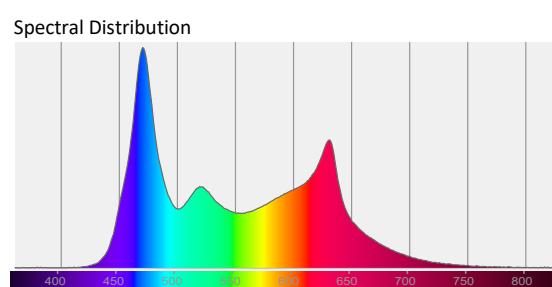
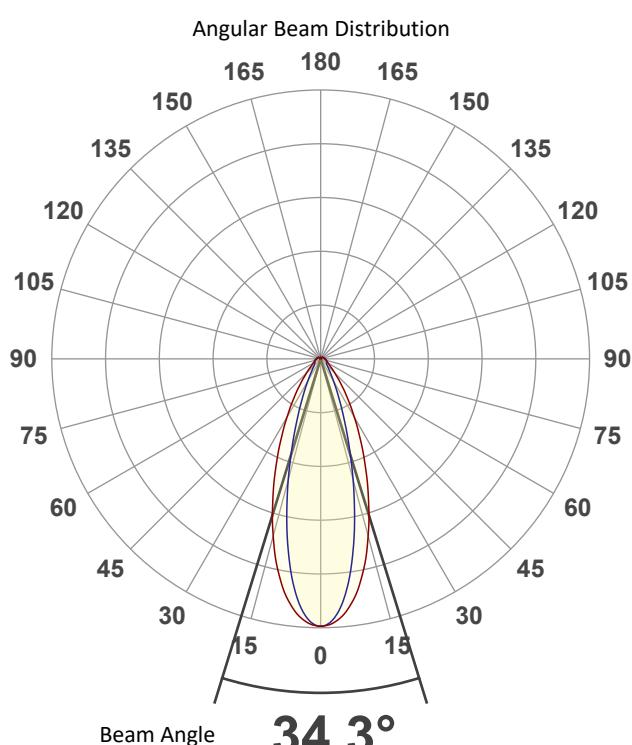
Current: 0.438 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.331  
Y: 0.319

### Light Quality



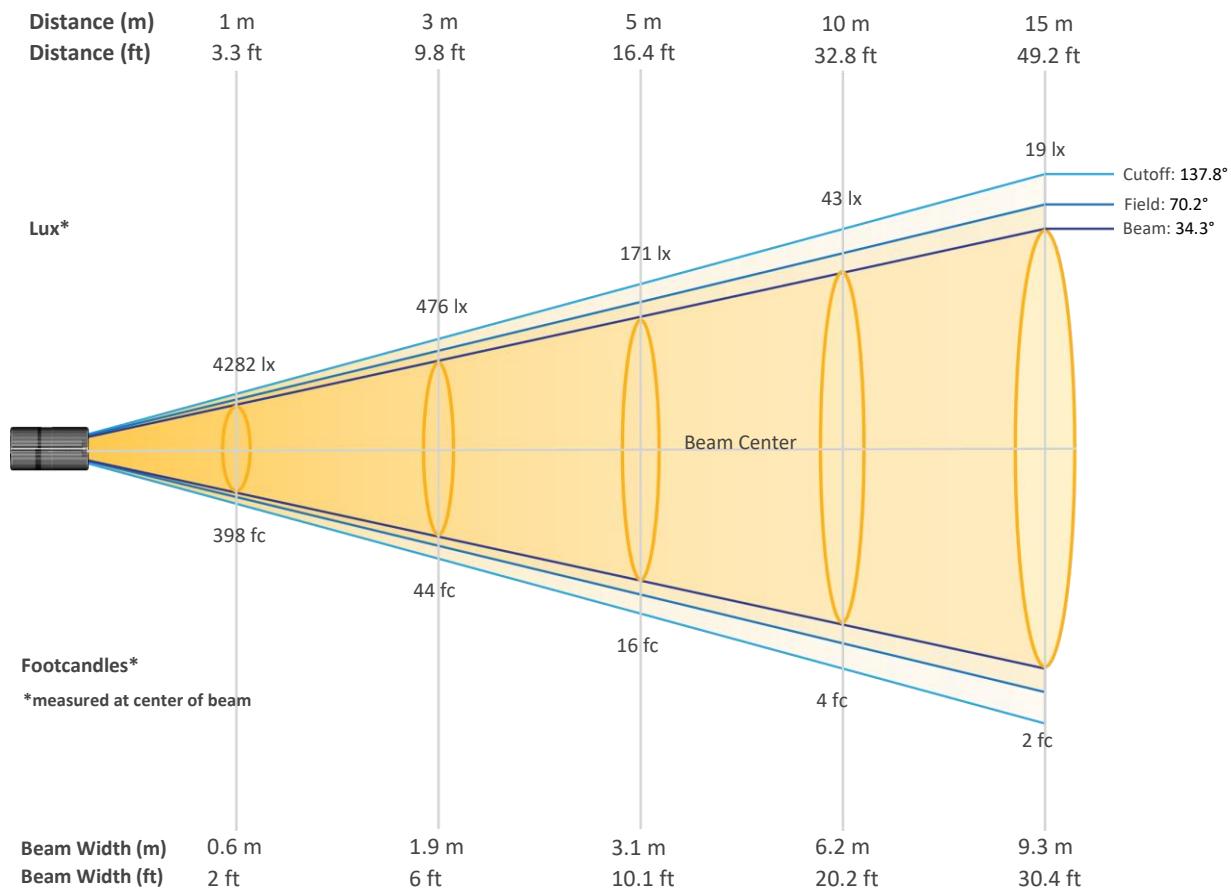
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

## Beam Details

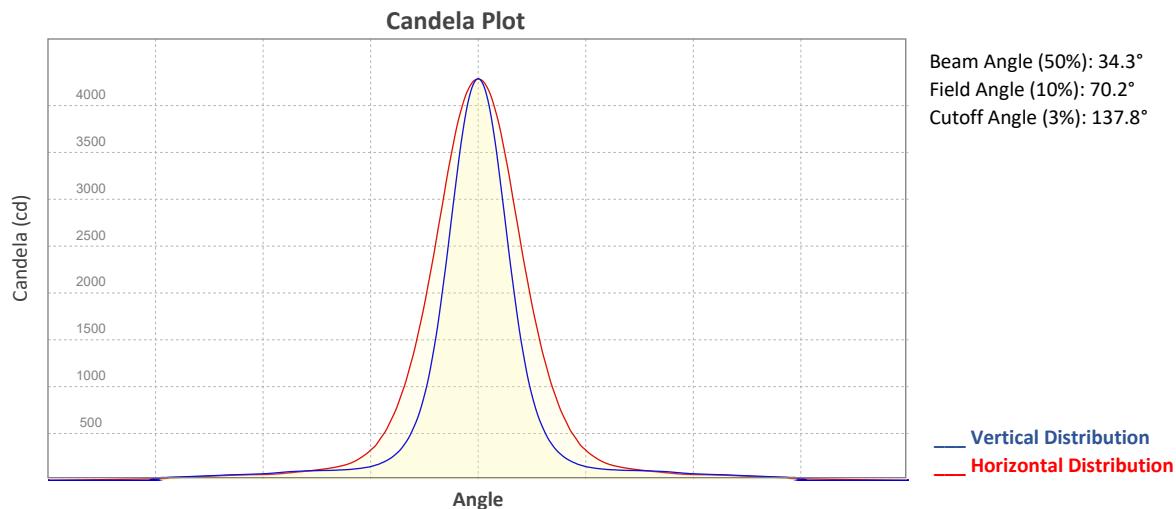


Beam Intensities from 1-20m (3.3-65.6ft)

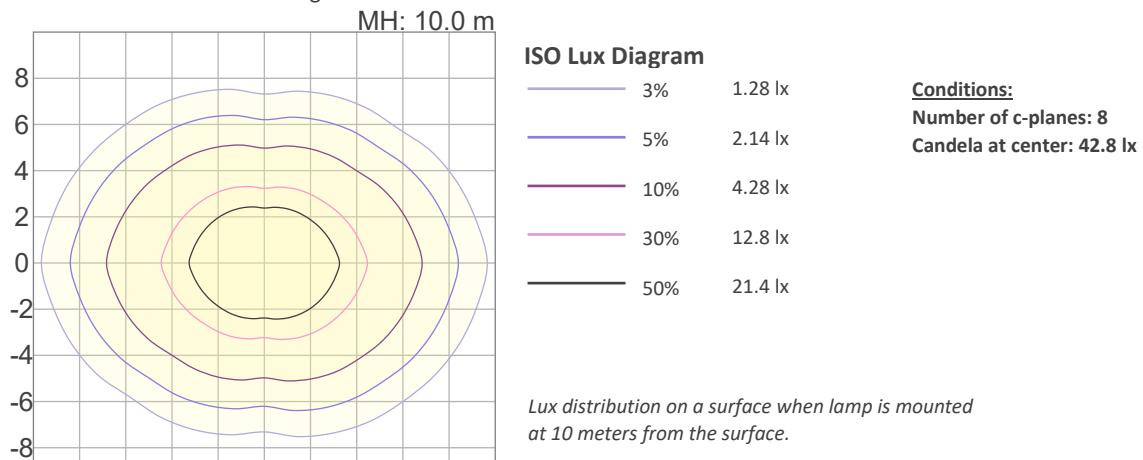
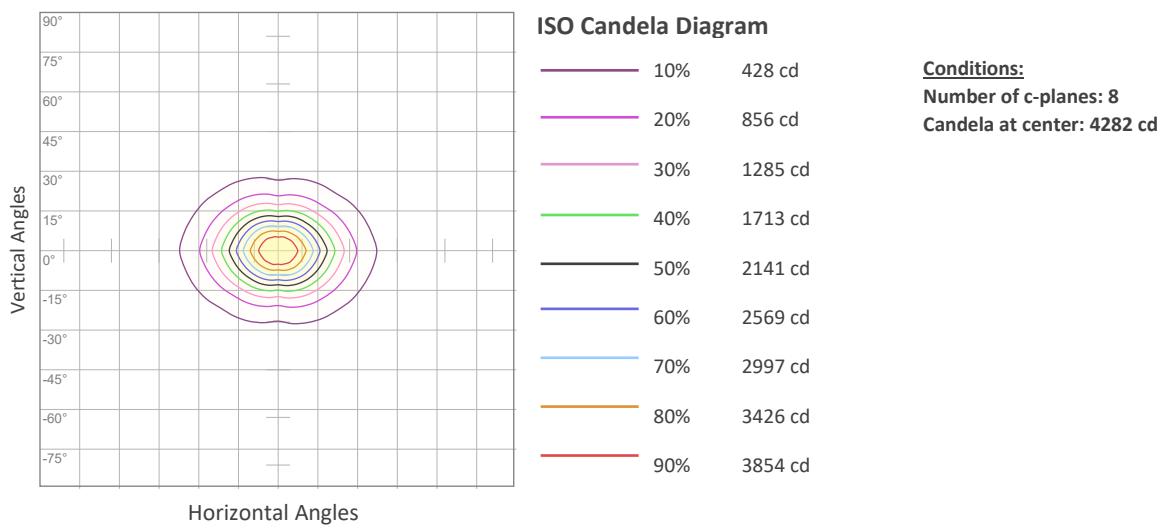
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4282	1070	476	268	171	119	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	398	99	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power



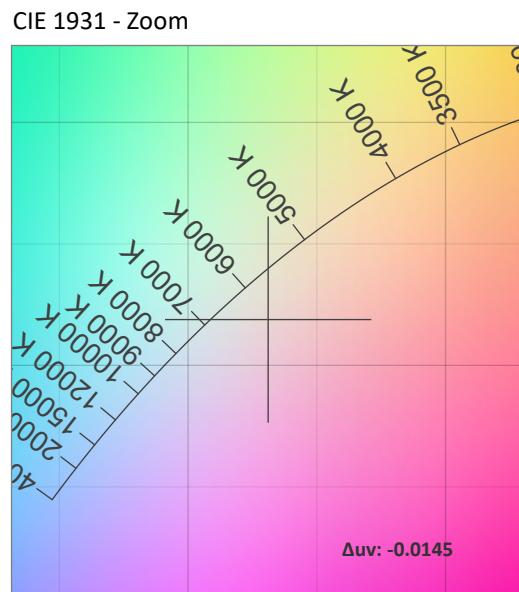
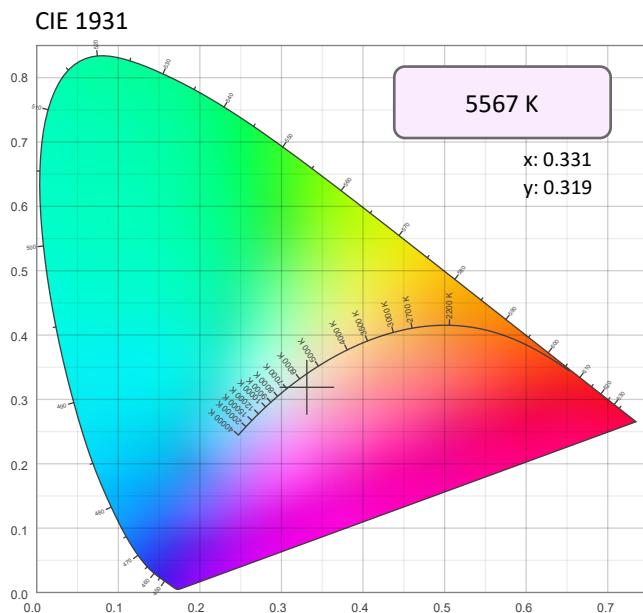
## ISO Diagrams



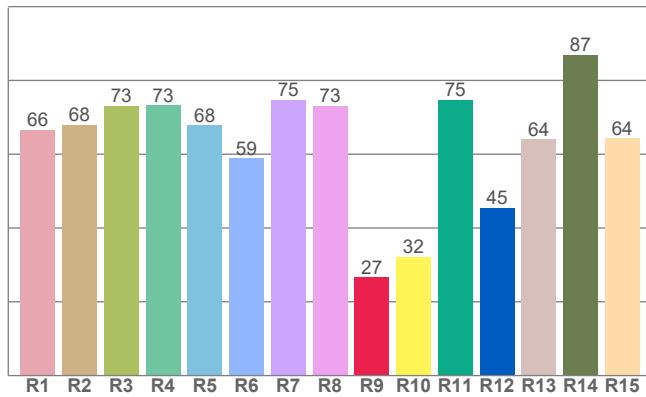
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

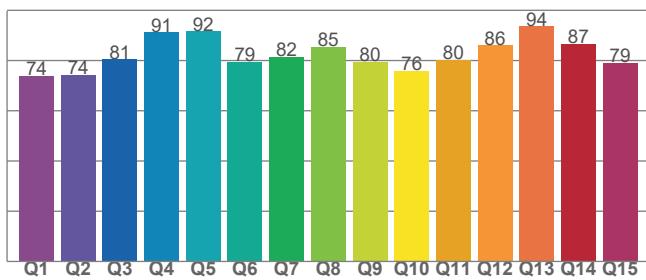
## Chromaticity



CRI: 69.4 (R1-R8)



CQS: 81.6



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5567 K	0.331	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0145	0.319	0.215

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.4	26.6	81.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.0	93.1

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

## TM-30 Details

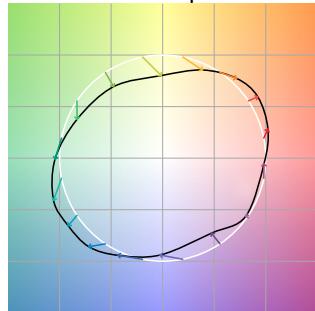
**Rf 73.0**

Fidelity Index  
(Rg)

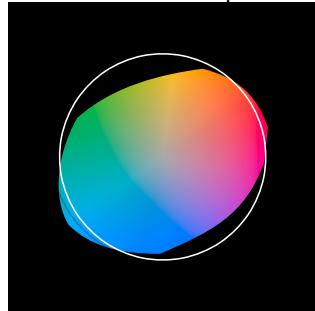
**Rg 93.1**

Gammut Index (Rg)

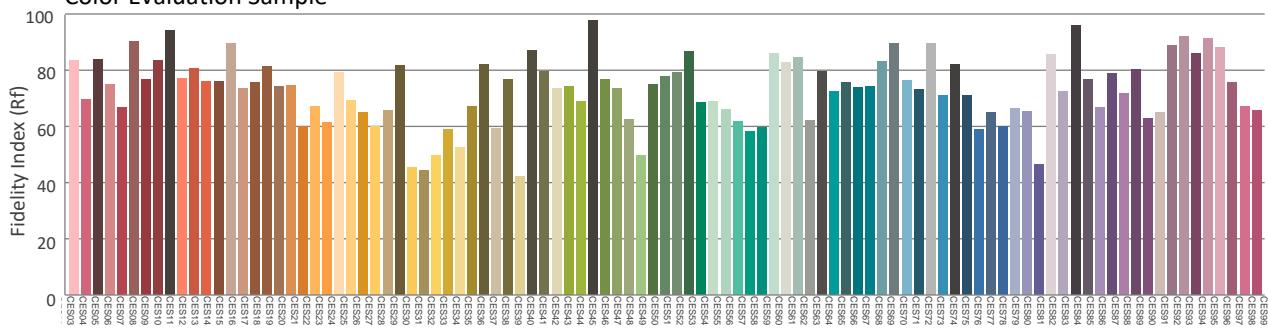
Color Vector Graphic



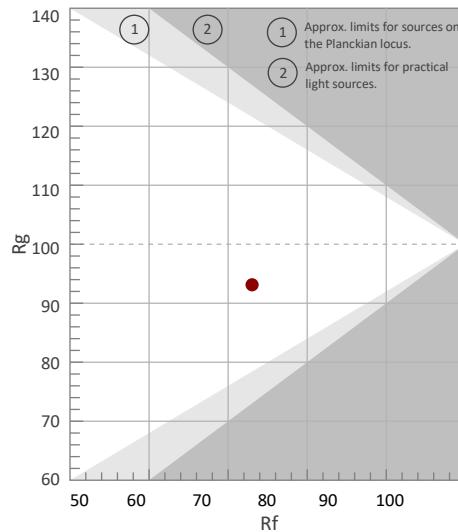
Color Distortion Graphic



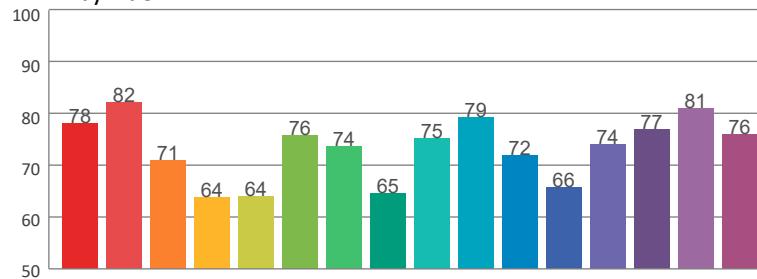
Color Evaluation Sample



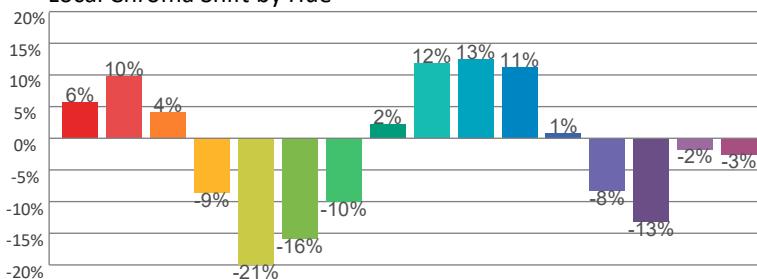
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	4%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-3%	14%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only

## Report Summary

### Measurements

Fixture Output: 714 lm

Fixture Peak: 1311 cd

Fixture Efficacy: 23 lm/W

Intensity @ 5m: 52 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 30.1°

Field Angle (10%): 65.2°

Cutoff Angle (20%): 115.5°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 33.24 W

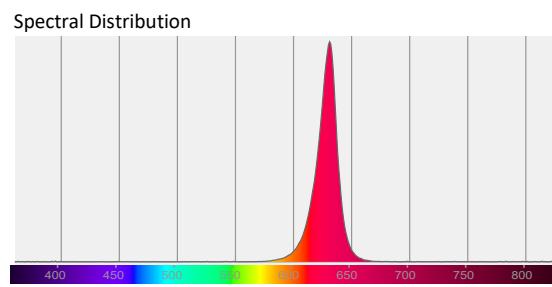
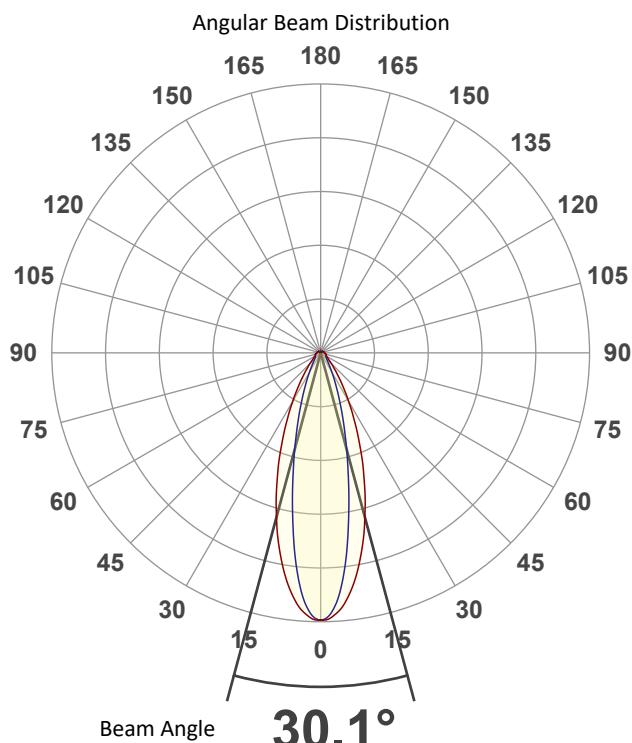
Current: 0.279 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.693  
Y: 0.306

### Light Quality

CRI: 0.0

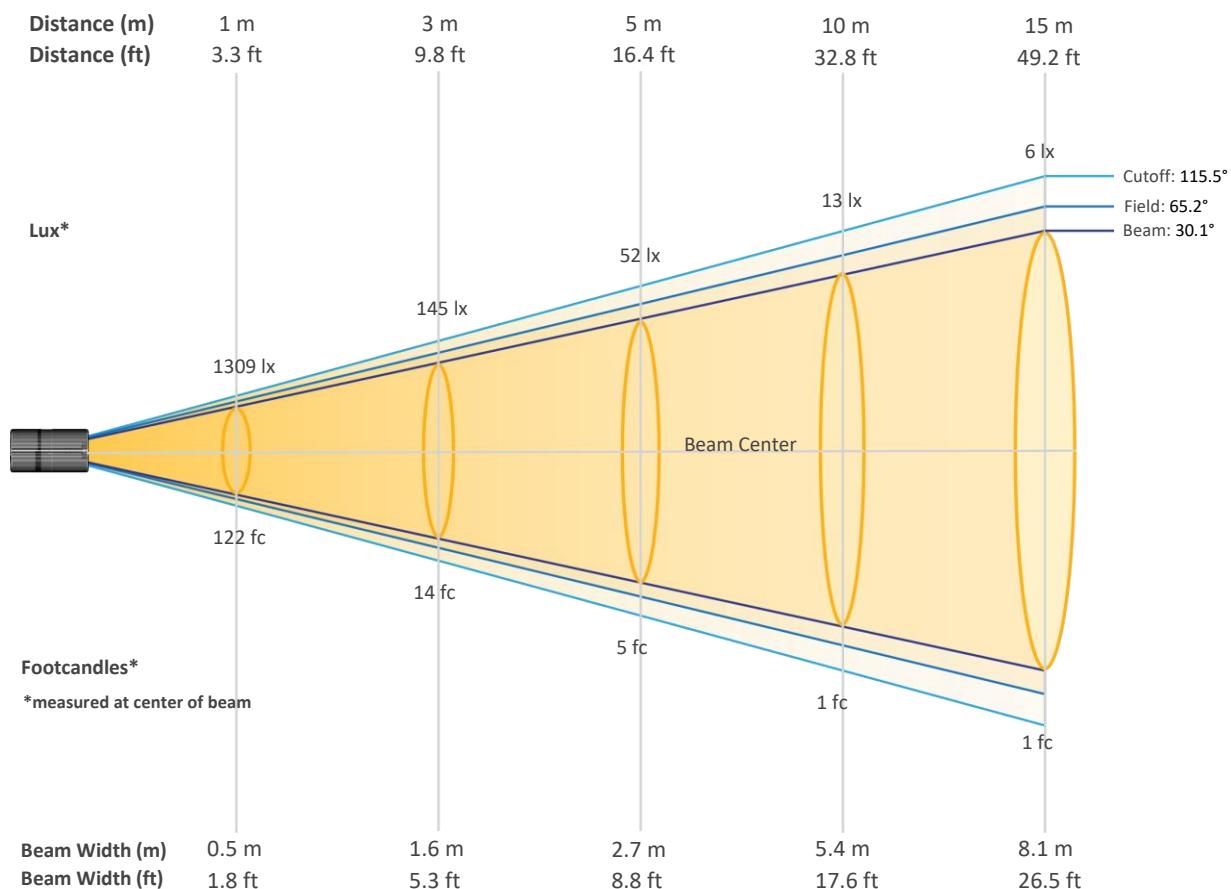
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only

## Beam Details

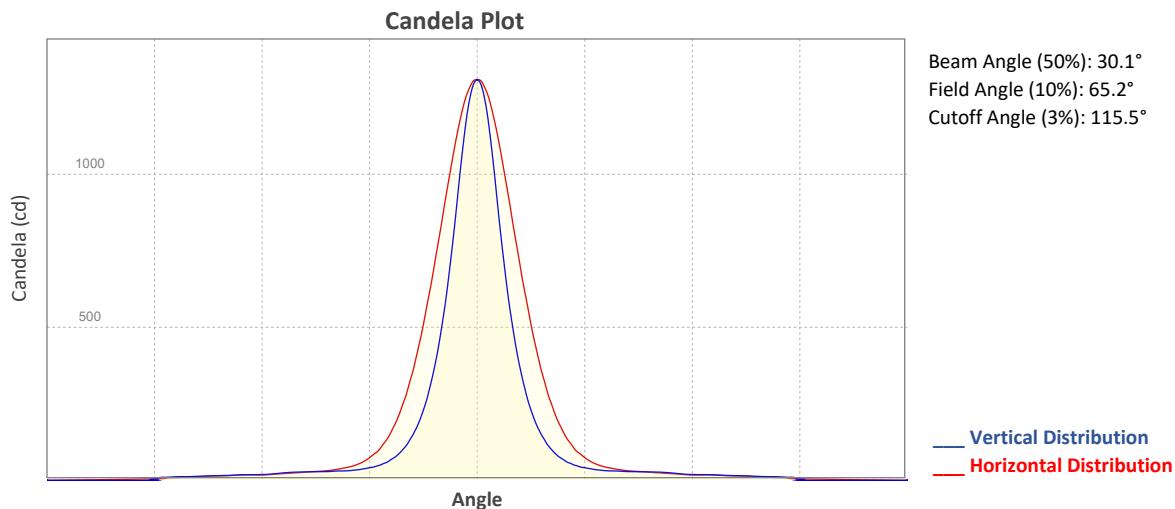


Beam Intensities from 1-20m (3.3-65.6ft)

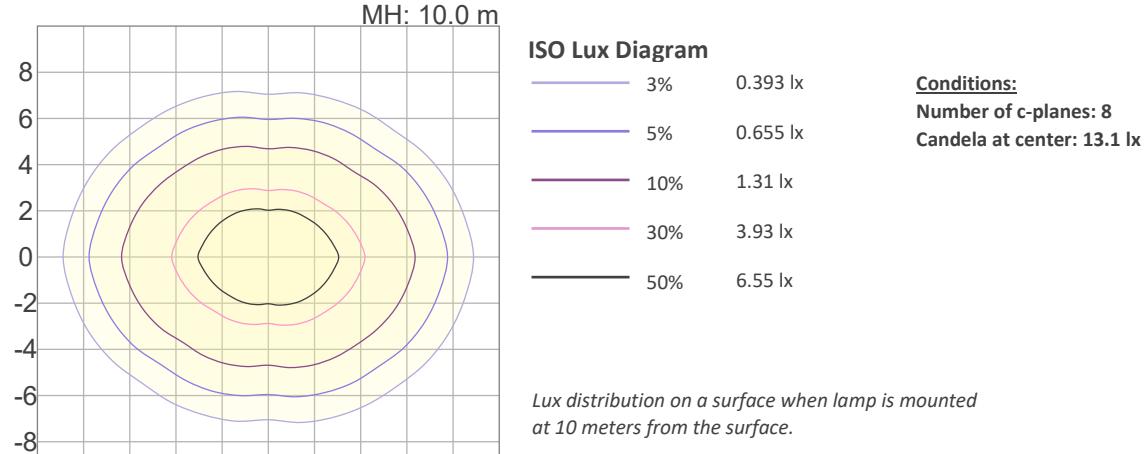
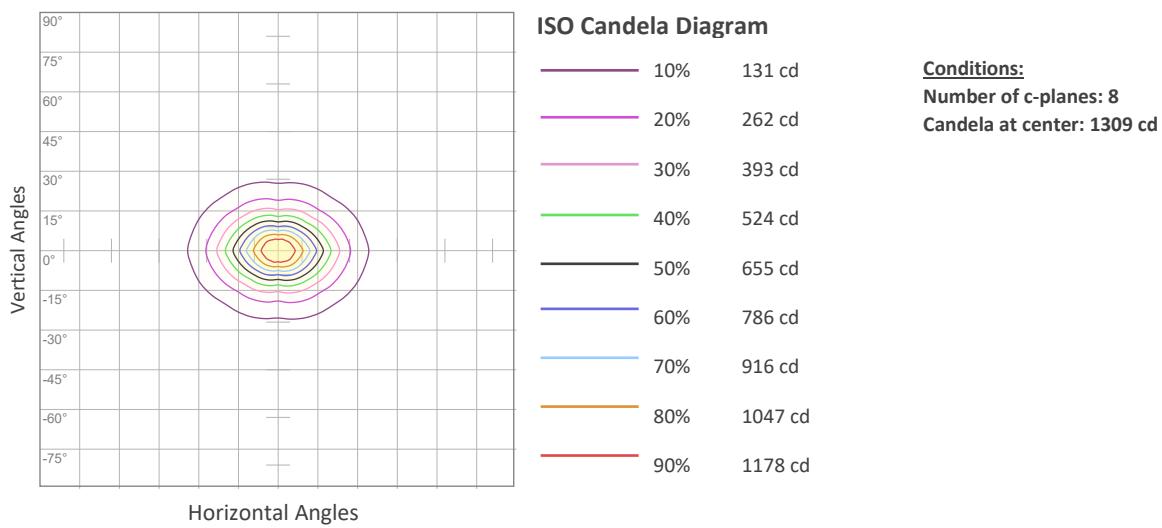
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1309	327	145	82	52	36	27	20	16	13
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	11	9	8	7	6	5	5	4	4	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	122	30	14	8	5	3	2	2	2	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only



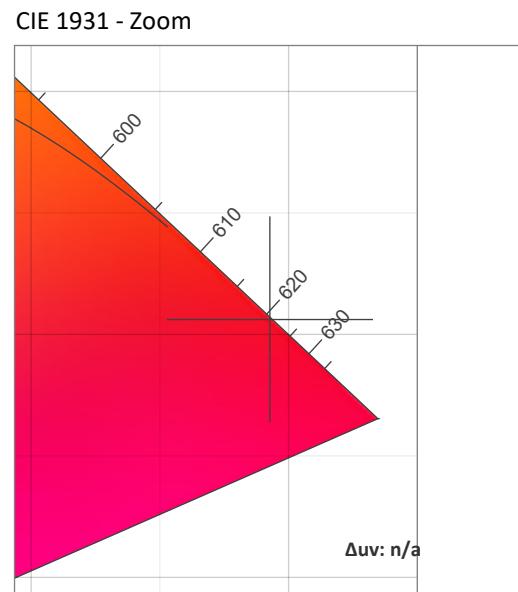
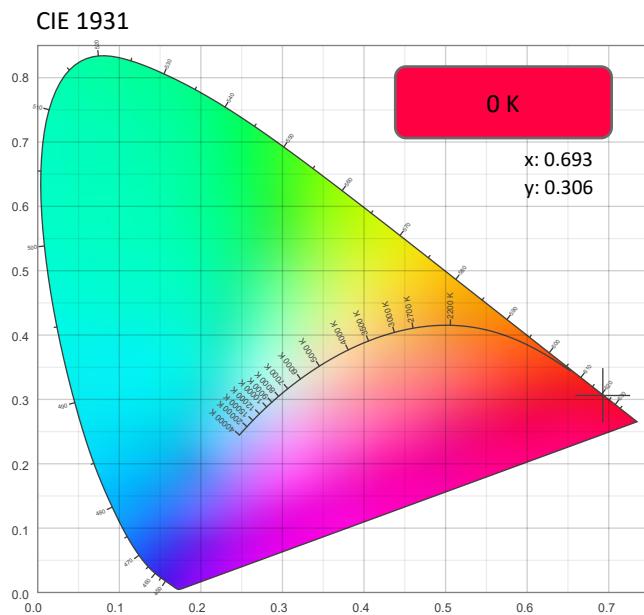
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.693	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.524

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only

## TM-30 Details

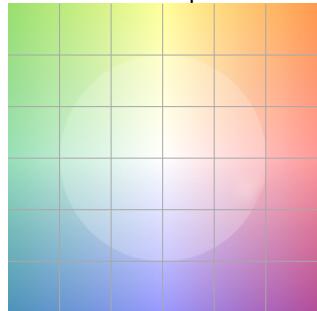
**Rf 0.0**

Fidelity Index  
(R<sub>f</sub>)

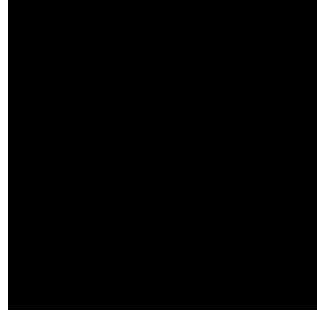
**Rg 0.0**

Gammut Index (R<sub>g</sub>)

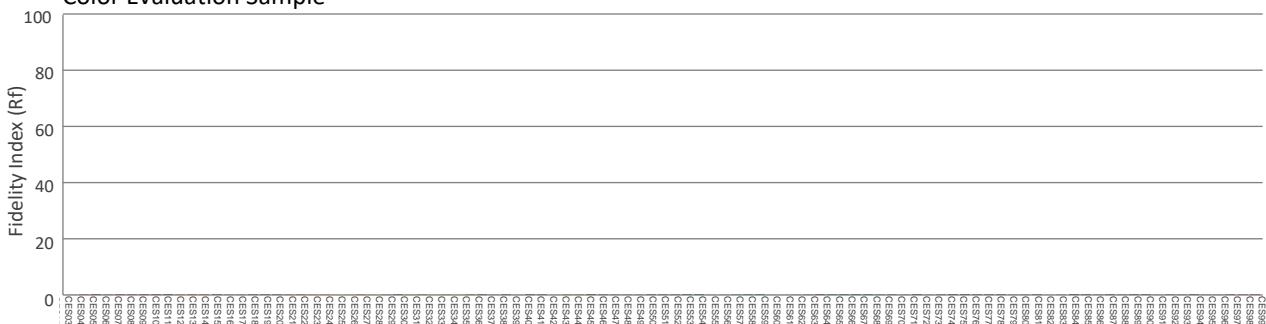
Color Vector Graphic



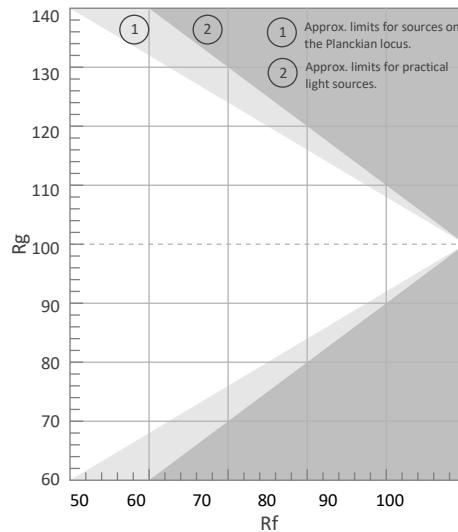
Color Distortion Graphic



Color Evaluation Sample



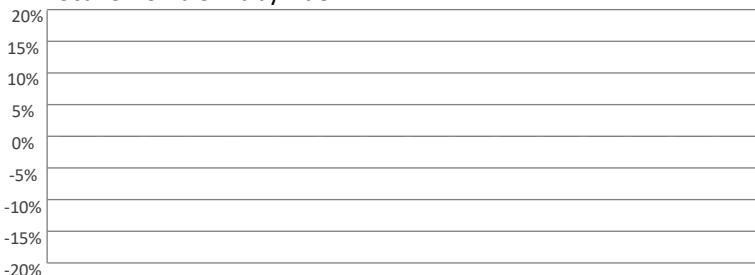
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only

## Report Summary

### Measurements

Fixture Output: 1413 lm

Fixture Peak: 2535 cd

Fixture Efficacy: 44 lm/W

Intensity @ 5m: 101 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 30.9°

Field Angle (10%): 66.5°

Cutoff Angle (20%): 117°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 34.14 W

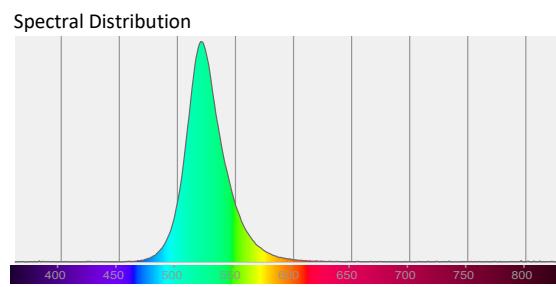
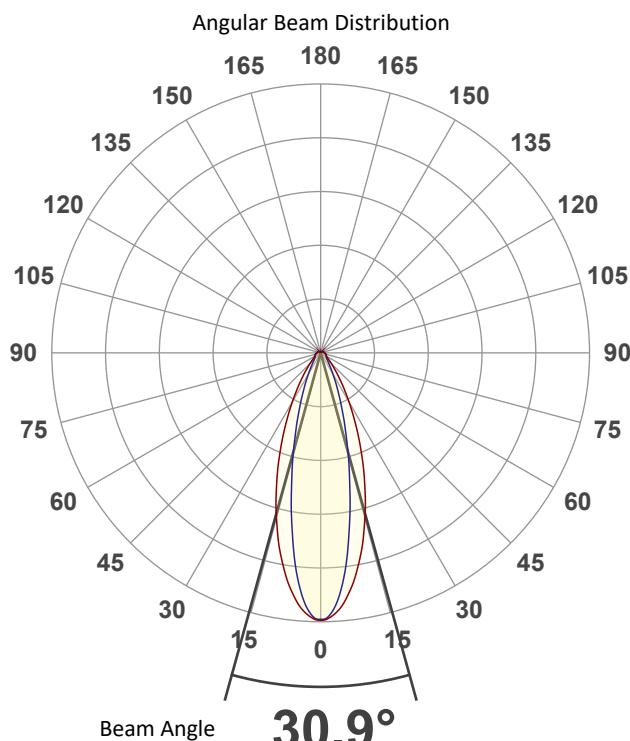
Current: 0.288 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



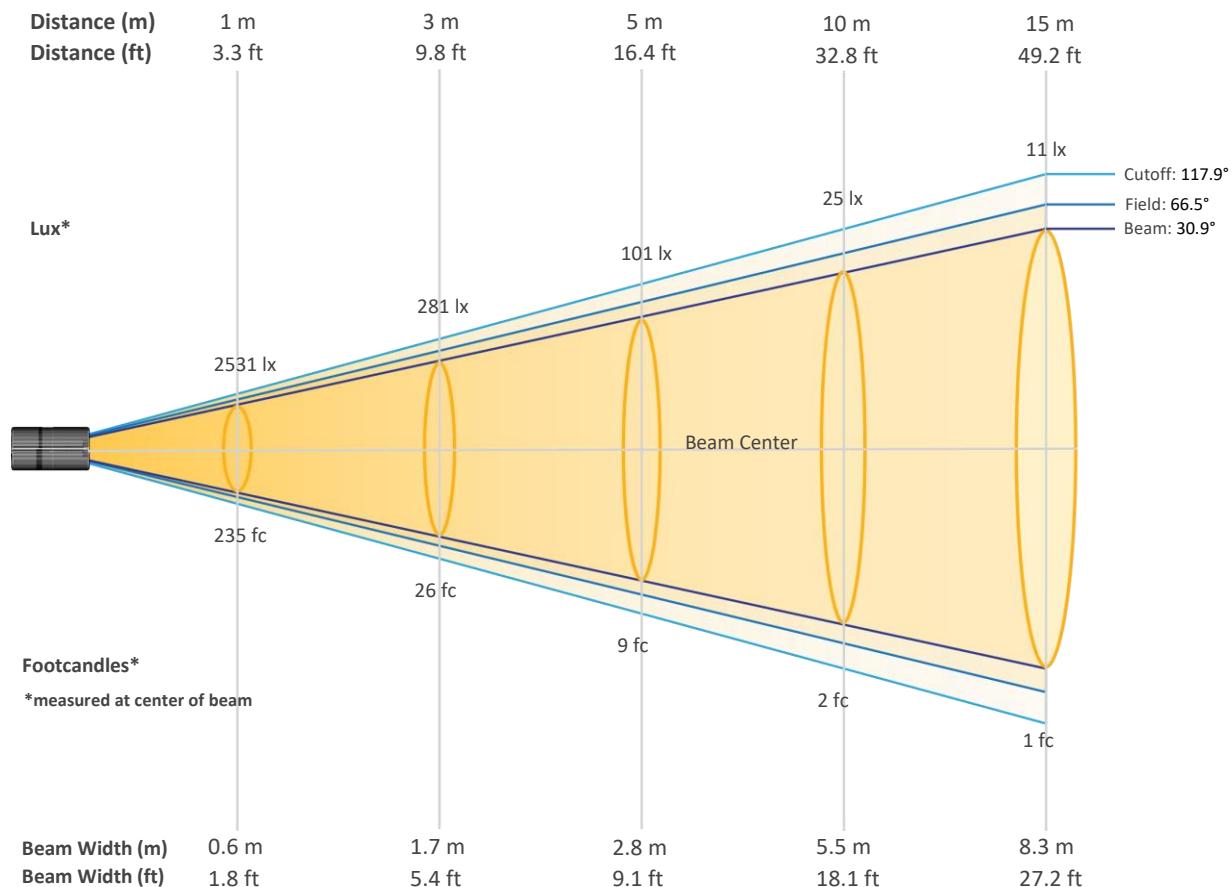
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only

## Beam Details

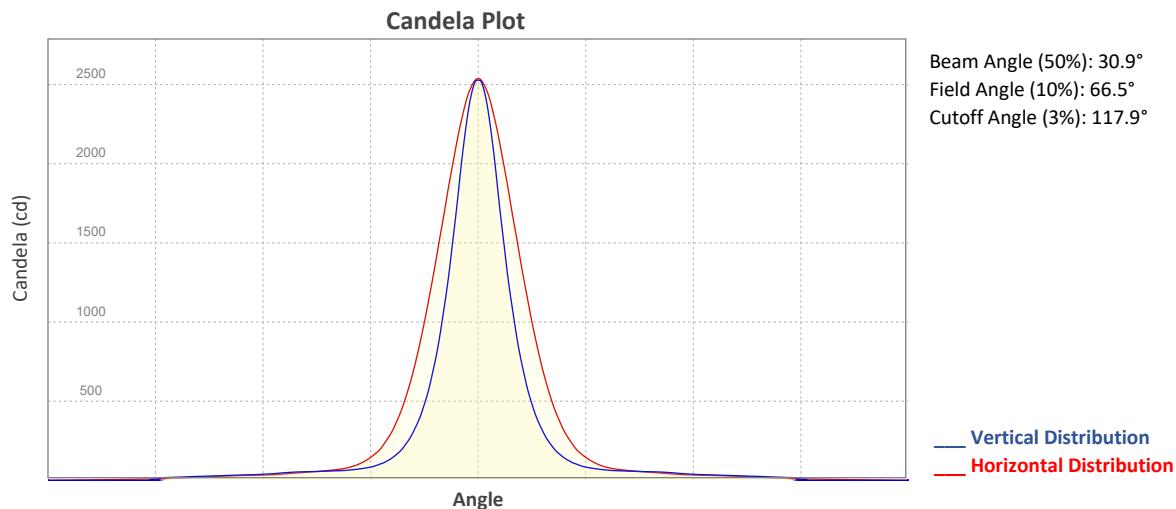


## Beam Intensities from 1-20m (3.3-65.6ft)

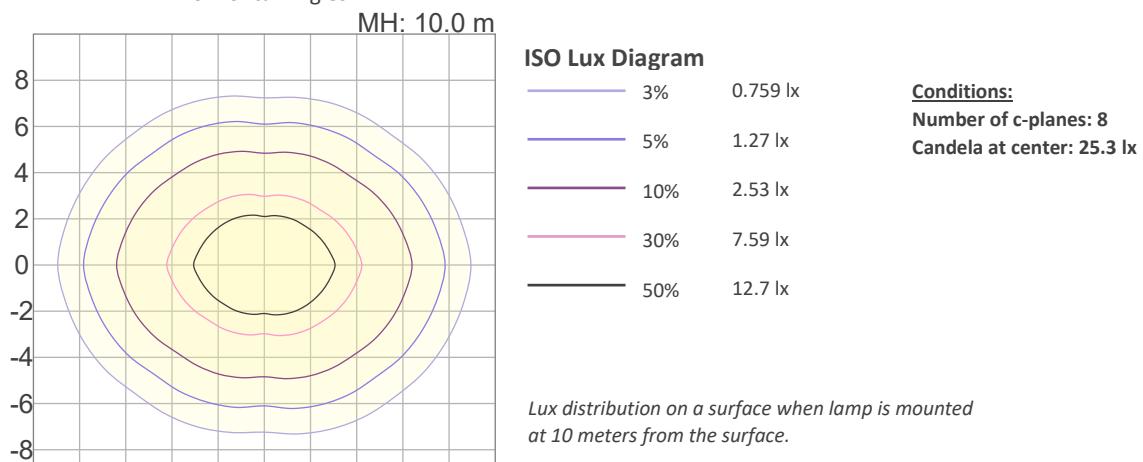
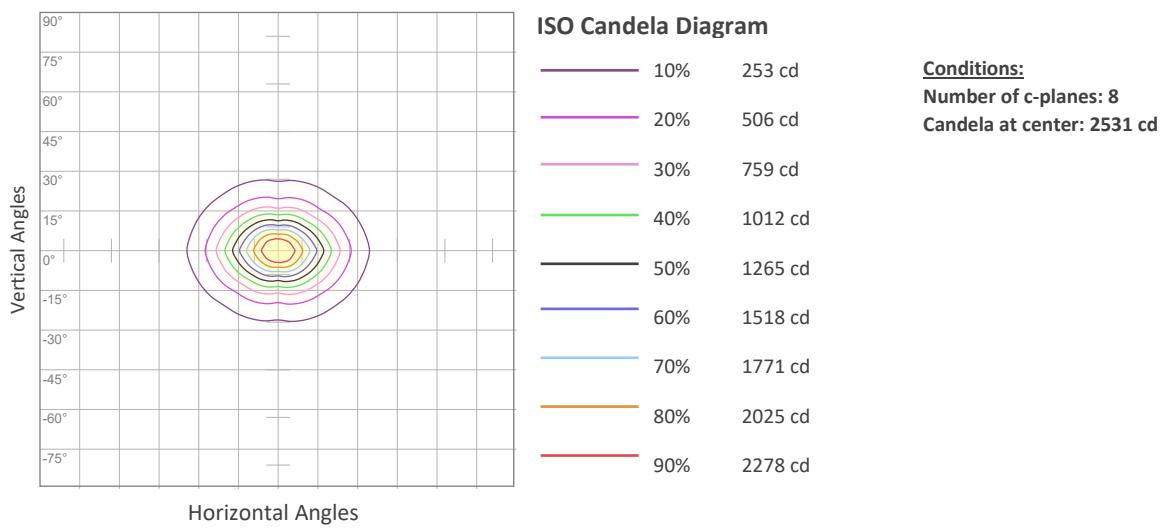
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2531	633	281	158	101	70	52	40	31	25
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	21	18	15	13	11	10	9	8	7	6
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	235	59	26	15	9	7	5	4	3	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only



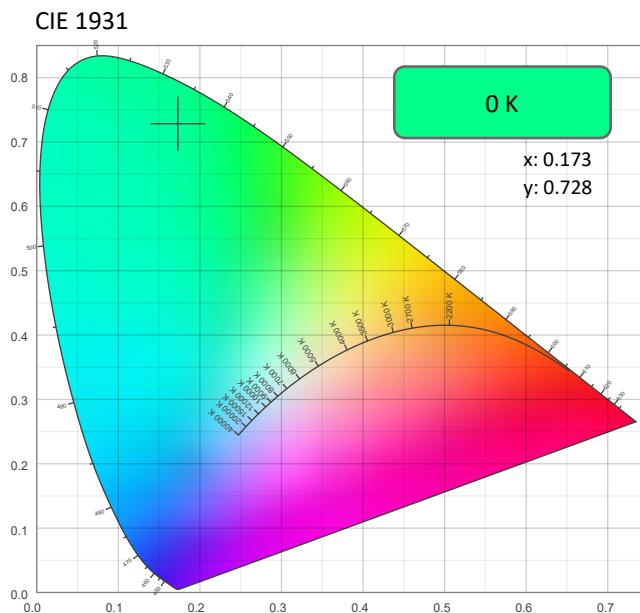
## ISO Diagrams



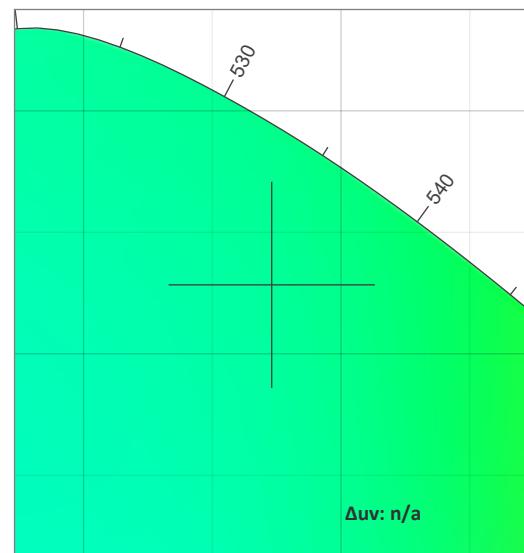
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only

## Chromaticity



CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.173	0.728

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.728	0.061

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only

## TM-30 Details

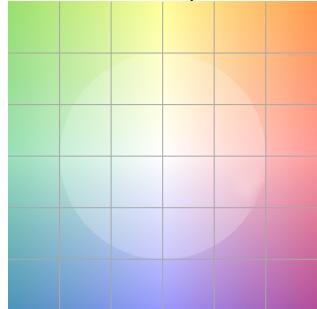
**Rf 0.0**

Fidelity Index  
(R<sub>f</sub>)

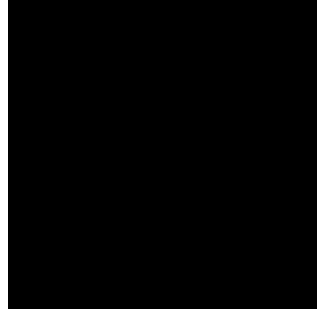
**Rg 0.0**

Gammut Index (R<sub>g</sub>)

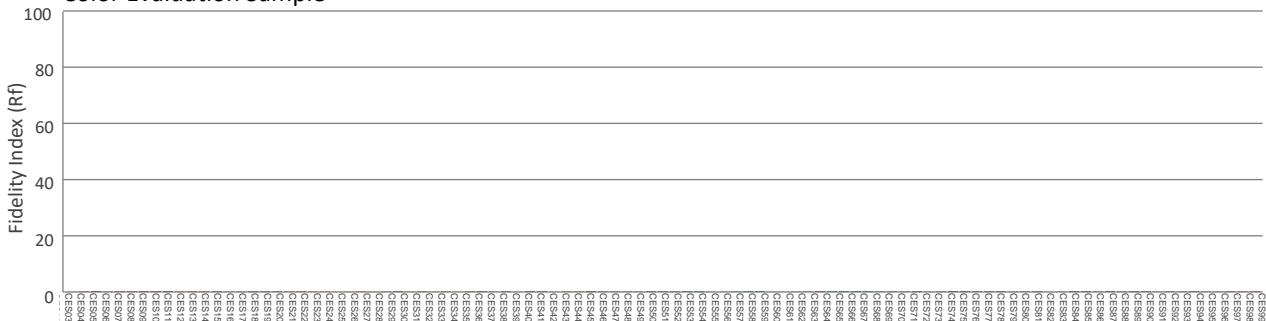
Color Vector Graphic



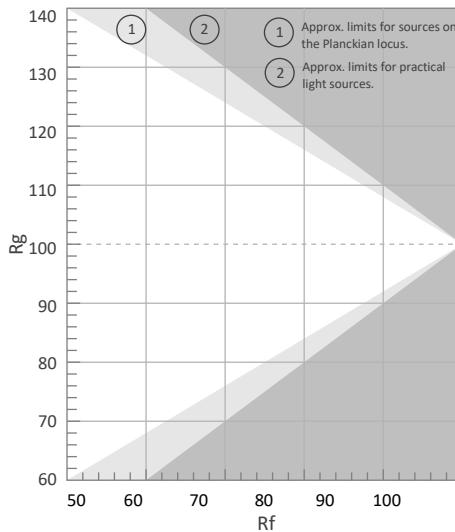
Color Distortion Graphic



Color Evaluation Sample



Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

## Report Summary

### Measurements

Fixture Output: 521 lm

Fixture Peak: 767 cd

Fixture Efficacy: 16 lm/W

Intensity @ 5m: 31 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 35.7°

Field Angle (10%): 72.9°

Cutoff Angle (2%): 156.1°

### Conditions

AC Supply: 119 V, 60.1 Hz

Power: 35.47 W

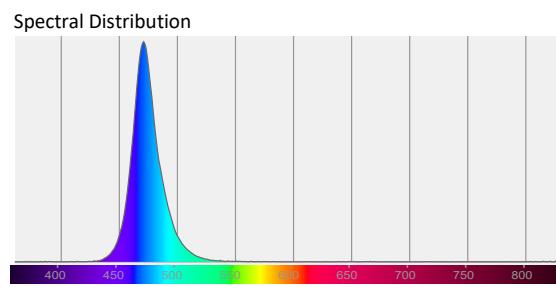
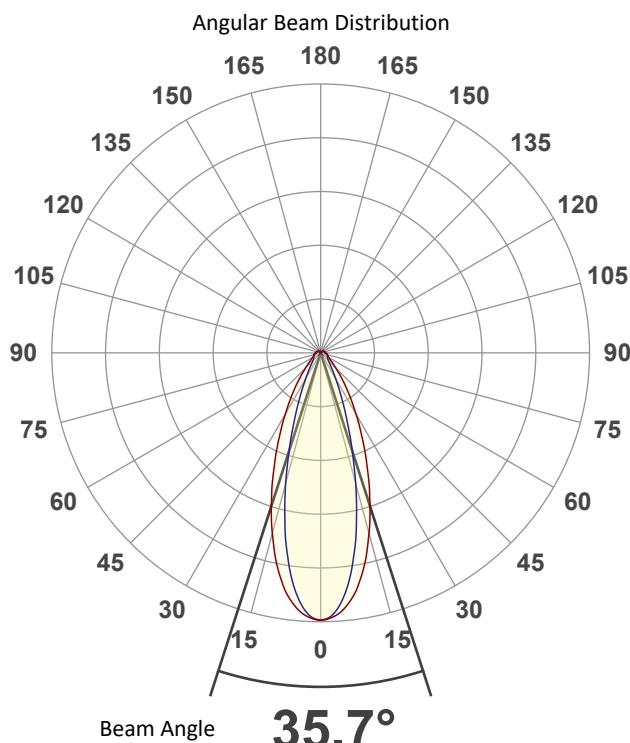
Current: 0.298 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.119  
Y: 0.095

### Light Quality

CRI: 0.0

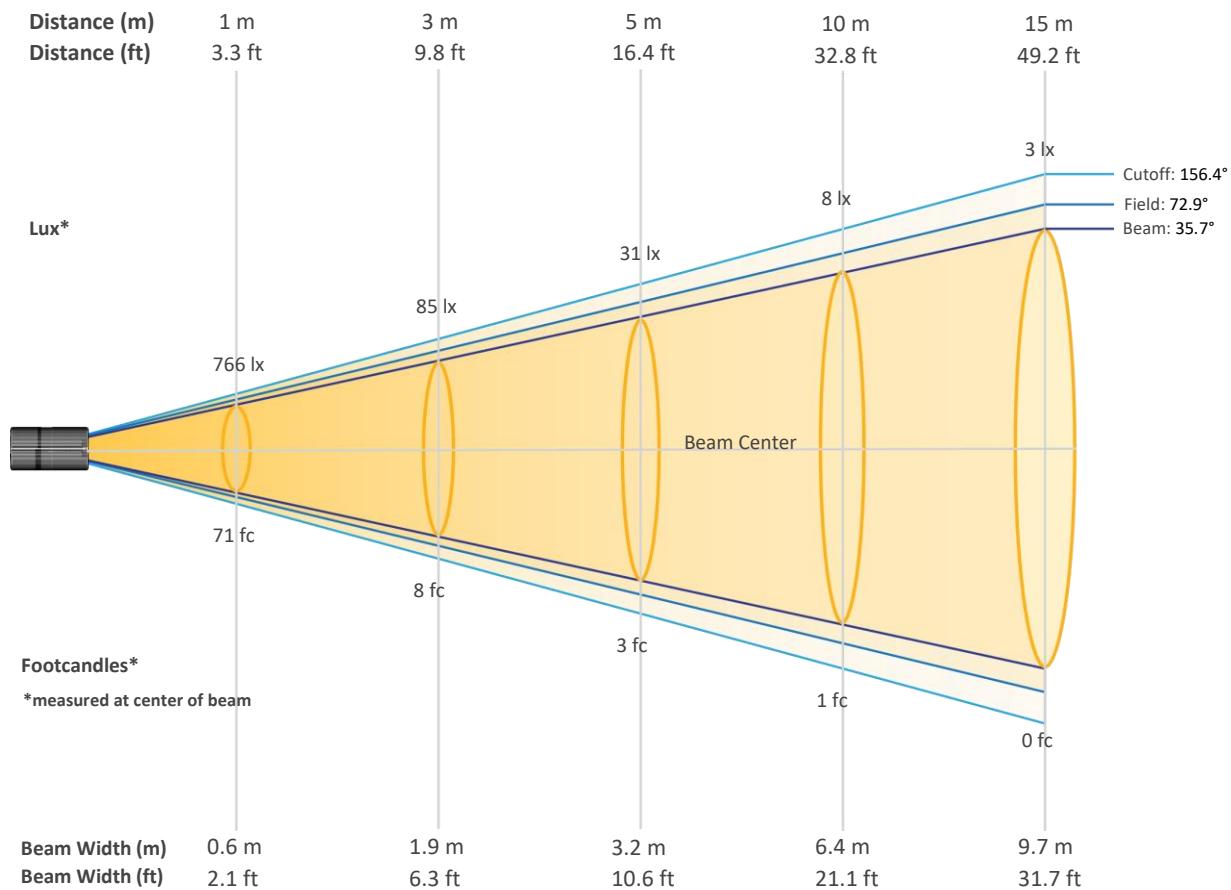
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

## Beam Details



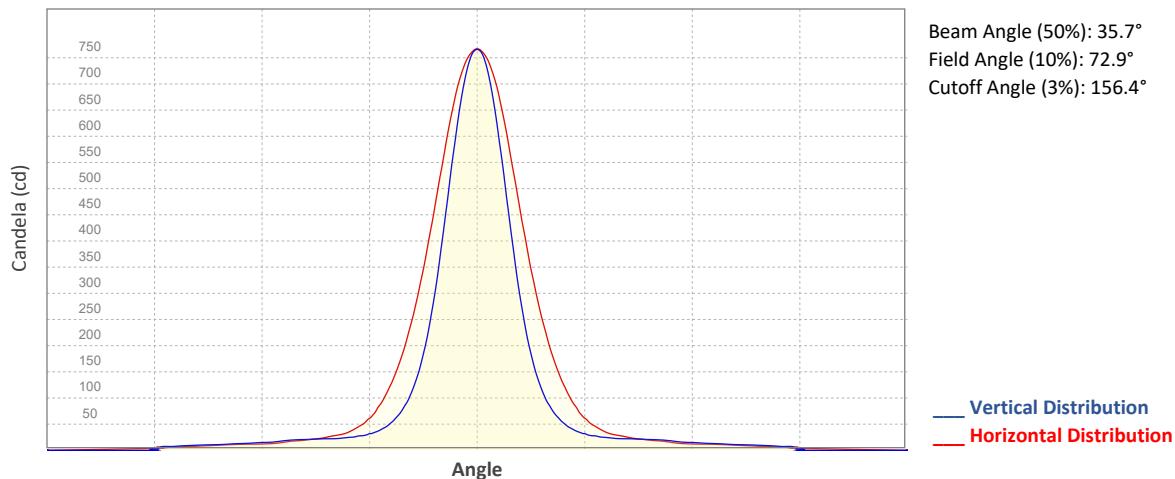
## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	766	192	85	48	31	21	16	12	9	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	6	5	5	4	3	3	3	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	71	18	8	4	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

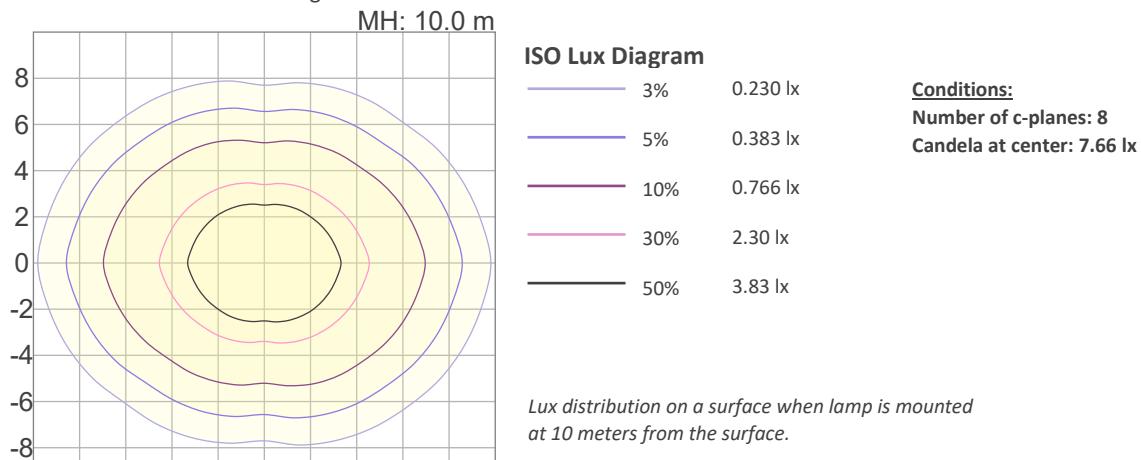
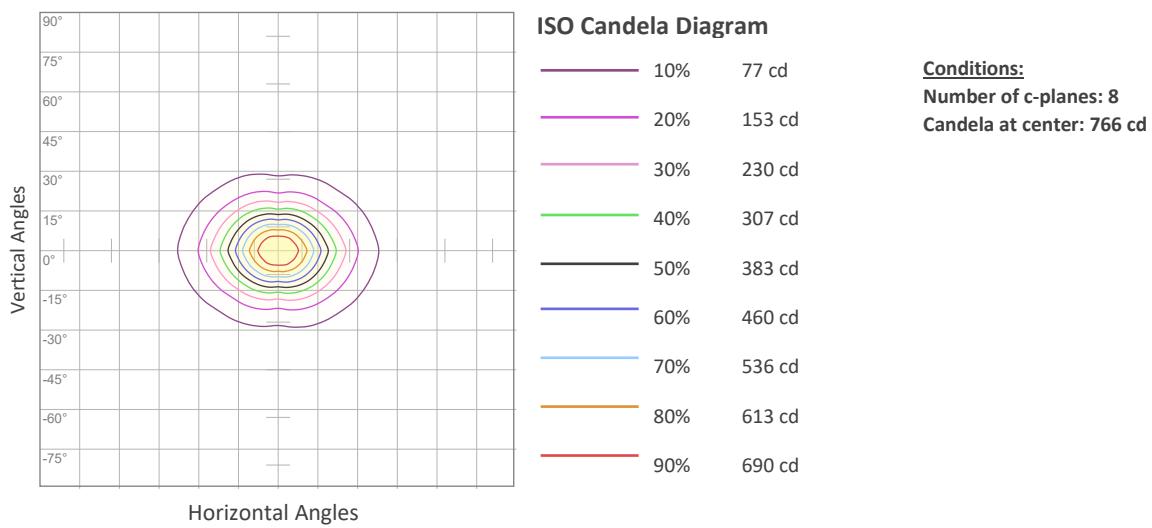
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

Candela Plot



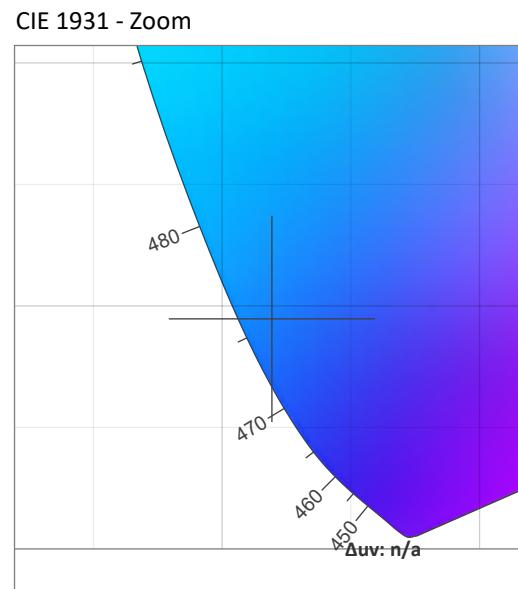
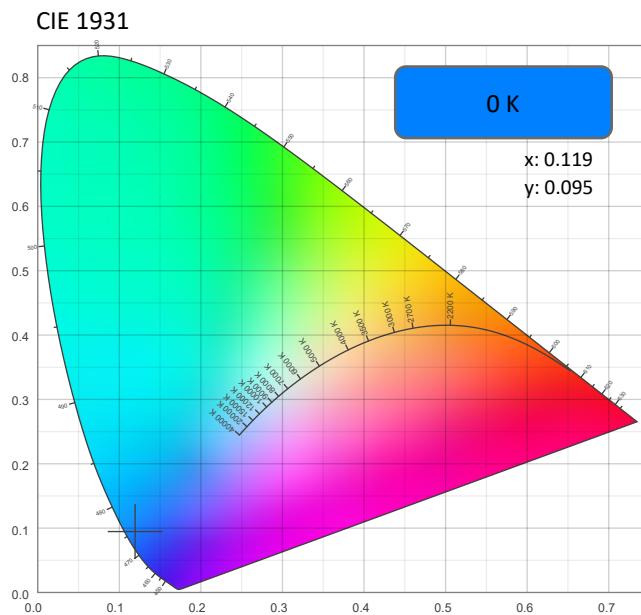
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.119	0.095

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.095	0.122

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

## TM-30 Details

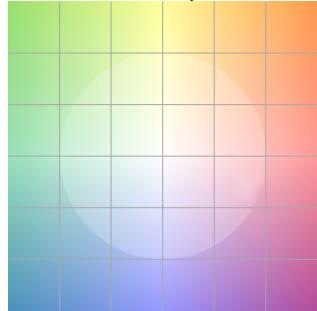
**Rf 0.0**

Fidelity Index  
(R<sub>f</sub>)

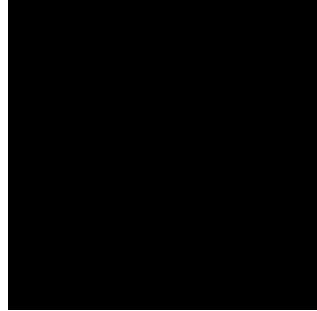
**Rg 0.0**

Gammut Index (R<sub>g</sub>)

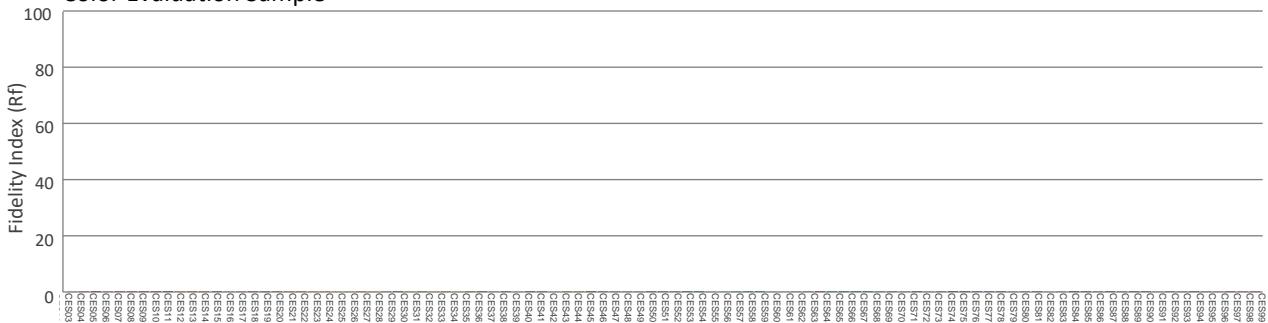
Color Vector Graphic



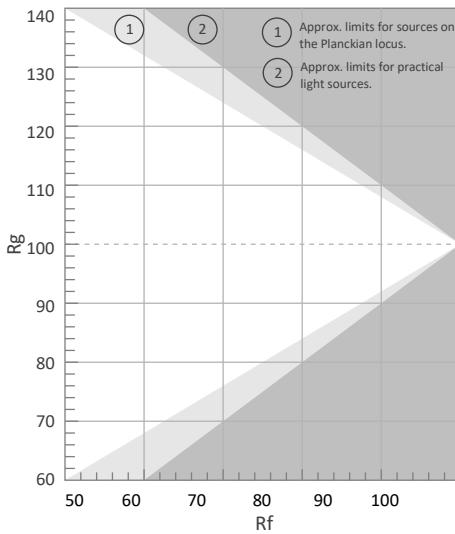
Color Distortion Graphic



Color Evaluation Sample



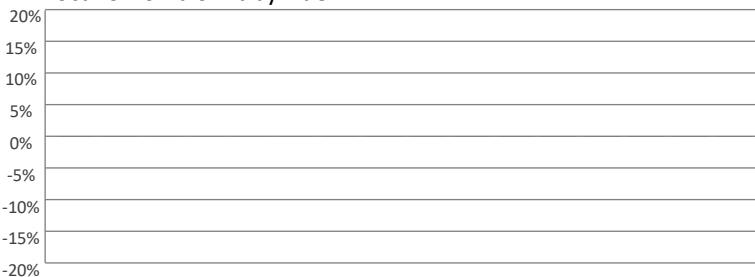
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

## Report Summary

### Measurements

Fixture Output: 2231 lm  
Fixture Peak: 3420 cd  
Fixture Efficacy: 67 lm/W  
Intensity @ 5m: 137 lux  
Color Temperature: 3051 K  
CRI: 84.4 CRI R9 Value: 13.8  
CQS: 83.5

TLCI: 73  
TM-30 Rf: 85.7  
TM-30 Rg: 95.1  
Beam Angle (50%): 35.4°  
Field Angle (10%): 71.2°  
Cutoff Angle (2%): 115.6°

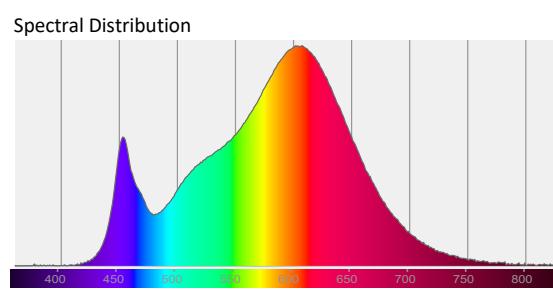
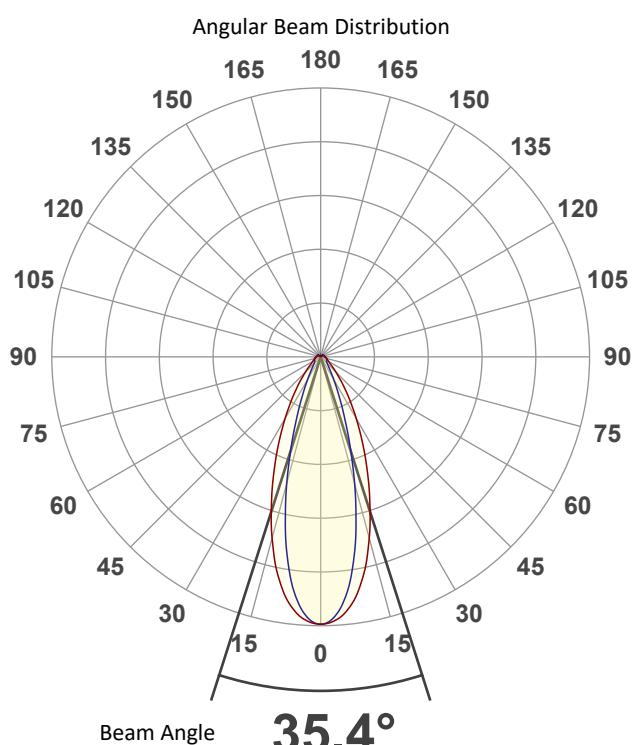
### Conditions

AC Supply: 118 V, 60 Hz  
Power: 35.16 W  
Current: 0.298 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.432  
Y: 0.400

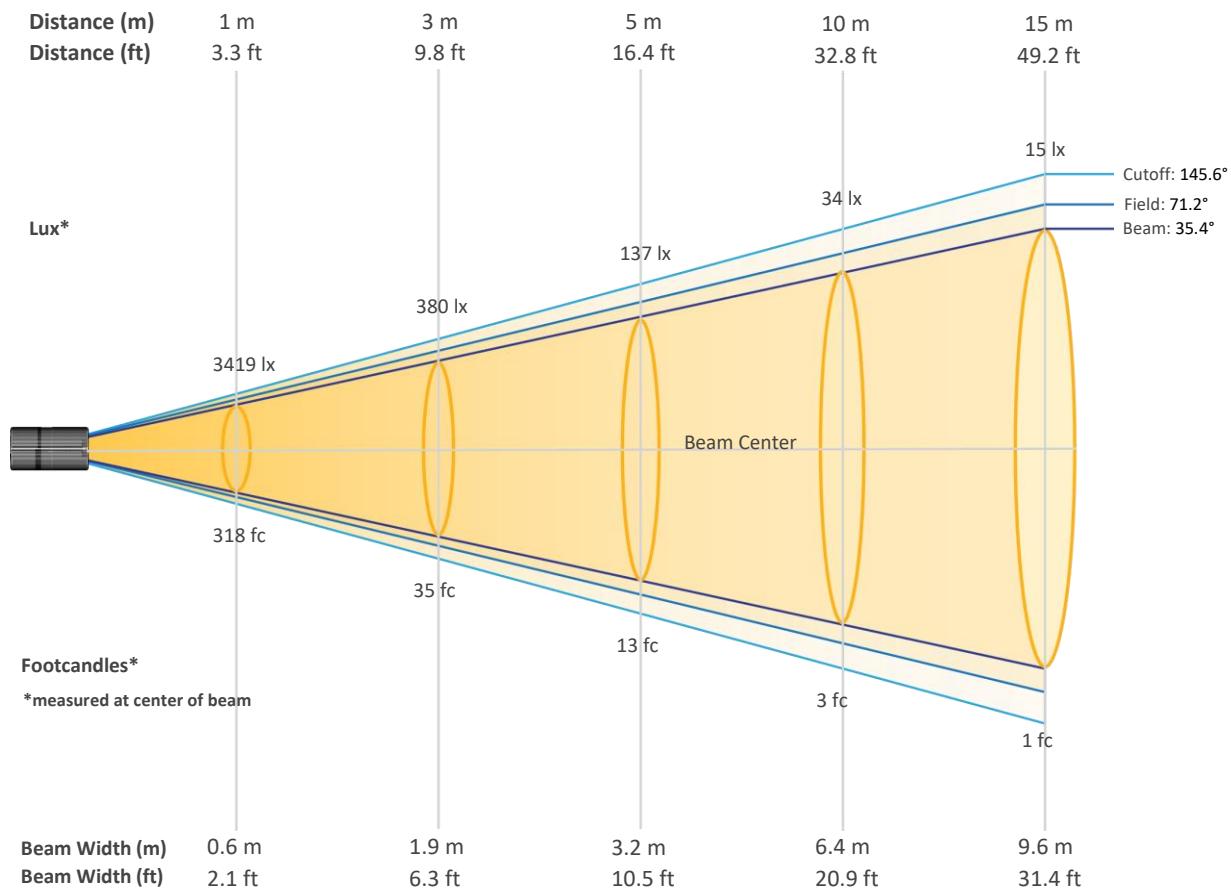
Light Quality  
CRI: 84.4

Color Temperature  
3051 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

## Beam Details

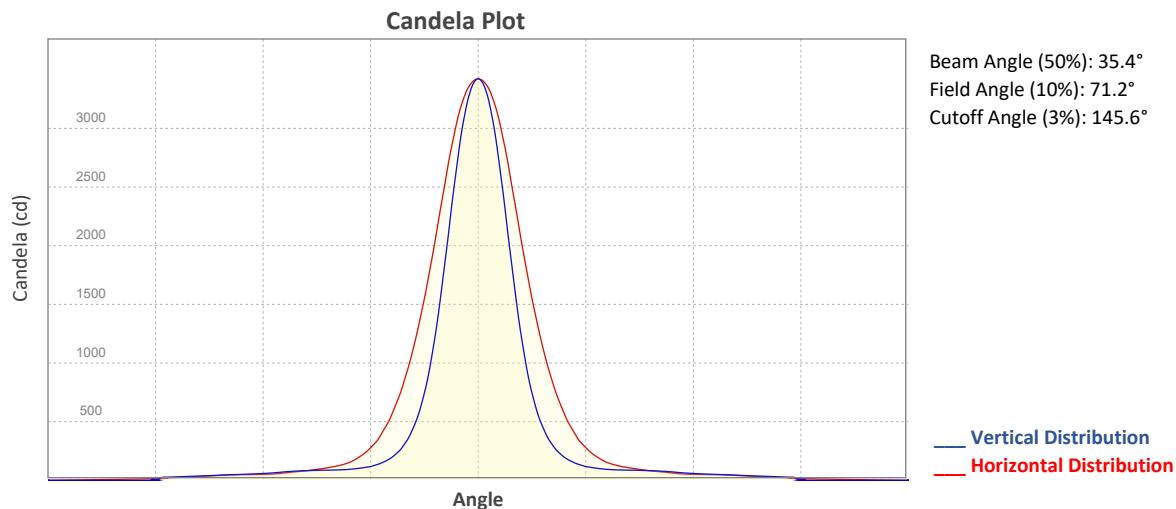


## Beam Intensities from 1-20m (3.3-65.6ft)

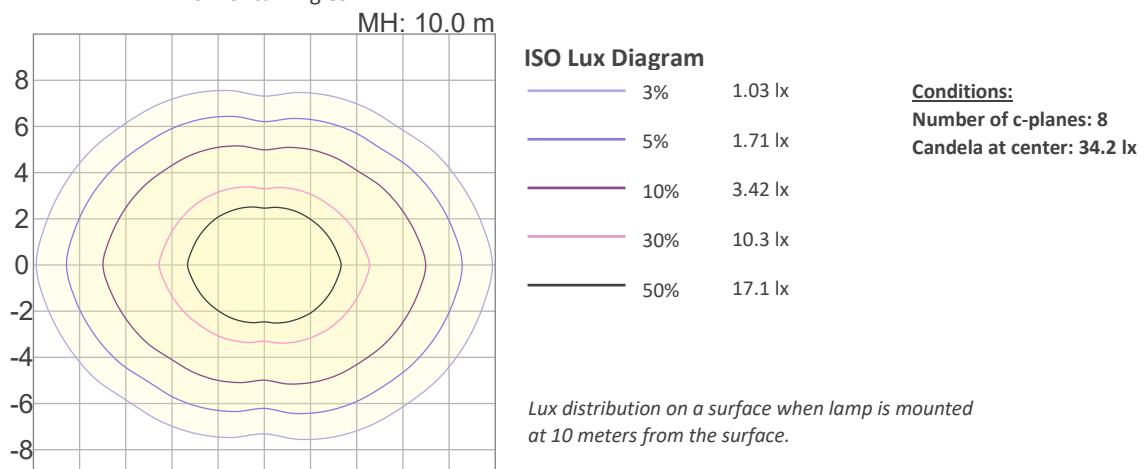
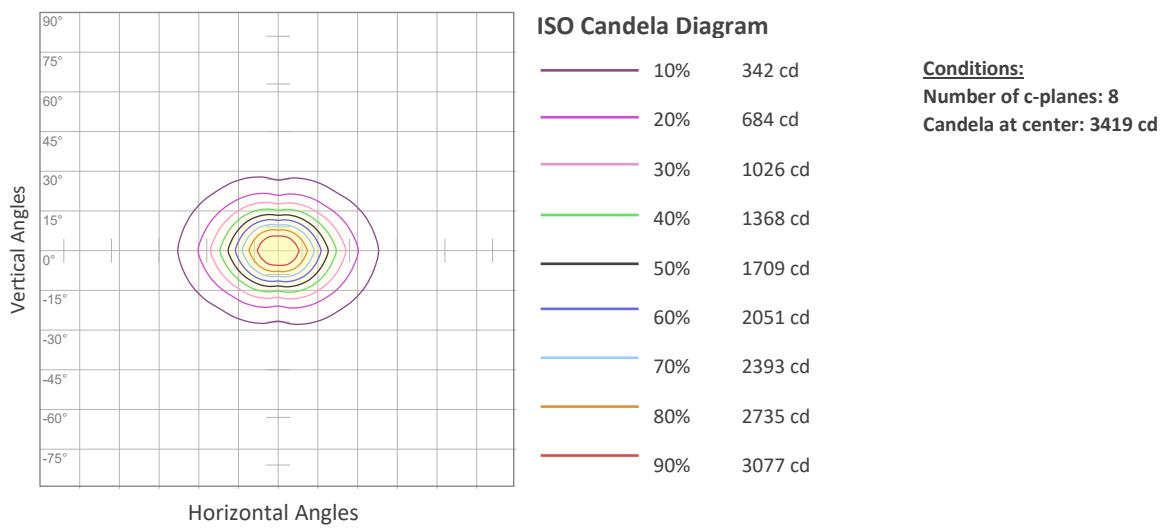
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3419	855	380	214	137	95	70	53	42	34
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	28	24	20	17	15	13	12	11	9	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	318	79	35	20	13	9	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only



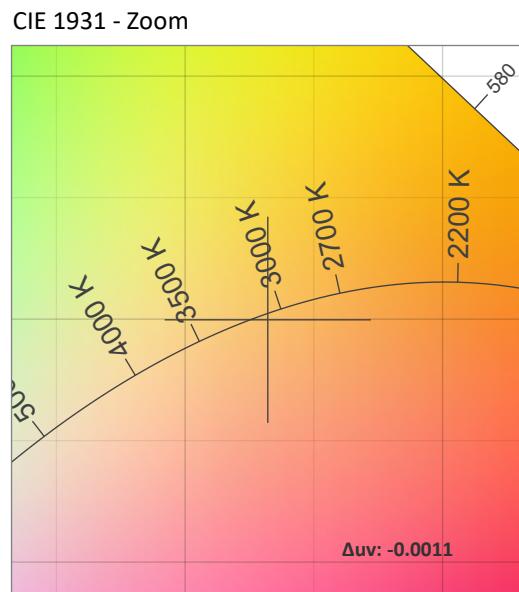
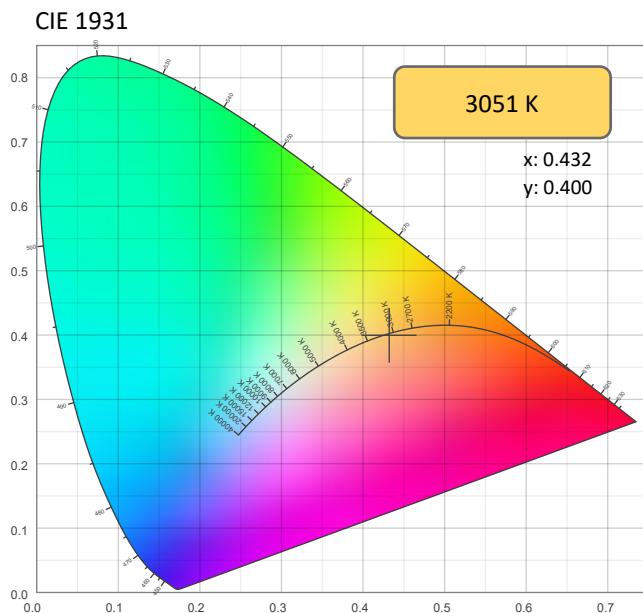
## ISO Diagrams



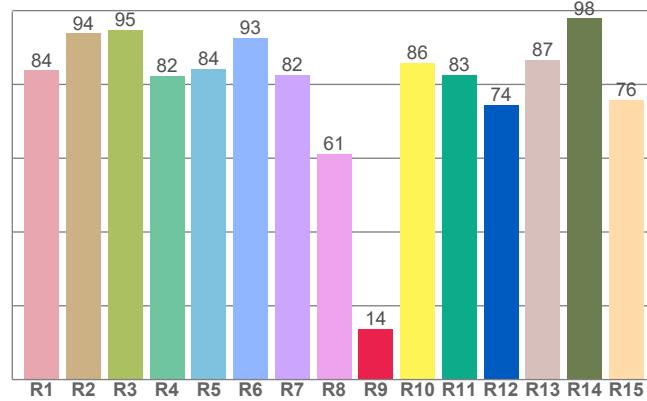
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

## Chromaticity



CRI: 84.4 (R1-R8)

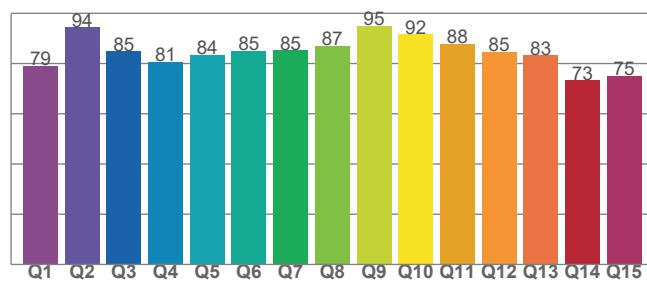


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3051 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0011	0.400	0.249

CQS: 83.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	13.8	83.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.7	95.1

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

## TM-30 Details

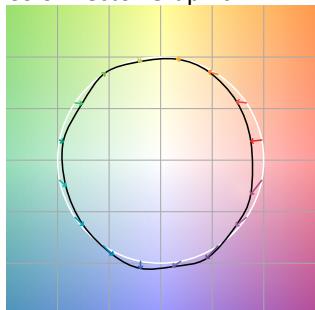
**Rf 85.7**

Fidelity Index  
(Rg)

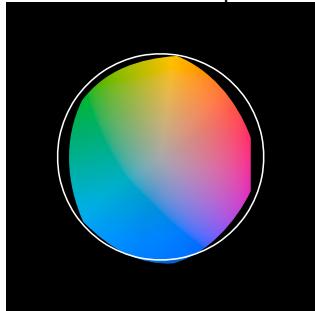
**Rg 95.1**

Gammut Index (Rg)

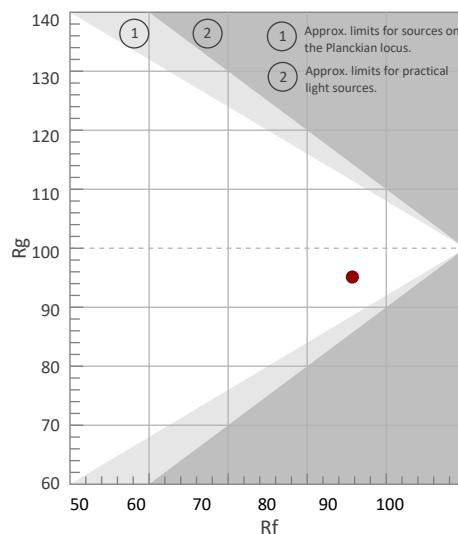
Color Vector Graphic



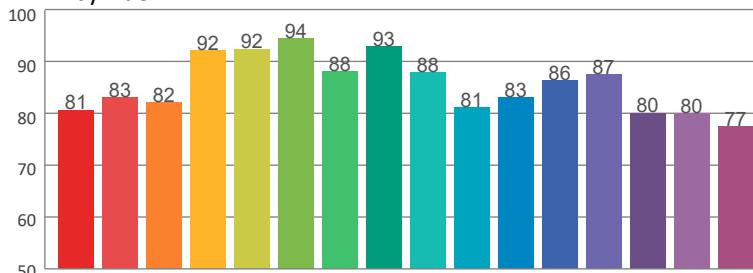
Color Distortion Graphic



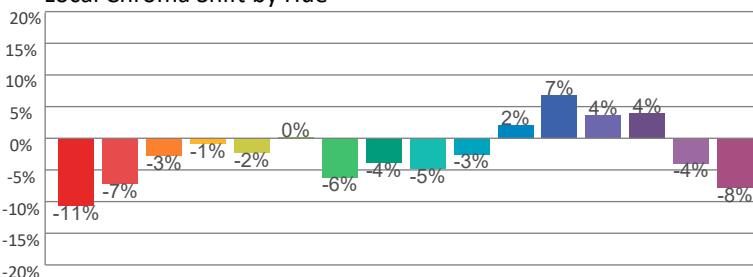
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	4%
5	92	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-3%	11%
11	83	2%	12%
12	86	7%	1%
13	87	4%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	77	-8%	-15%



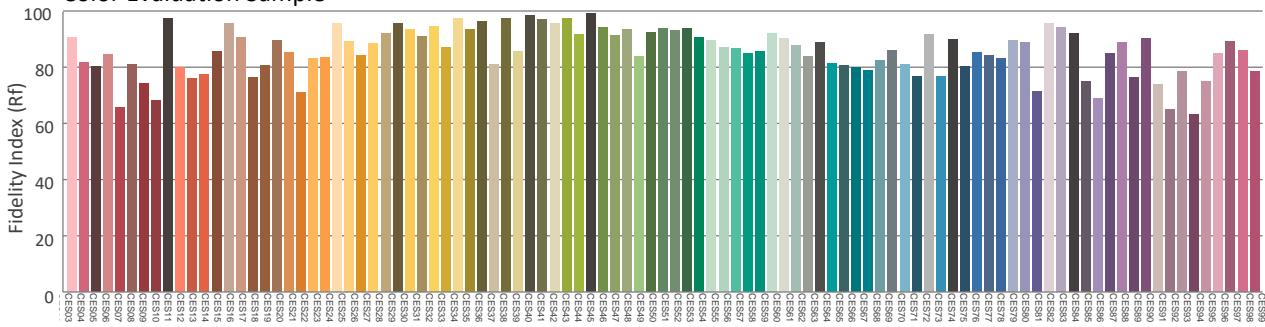
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

## Report Summary

### Measurements

Fixture Output: 2295 lm  
Fixture Peak: 3789 cd  
Fixture Efficacy: 49 lm/W  
Intensity @ 5m: 151 lux  
Color Temperature: 1860 K  
CRI: 74.6      CRI R9 Value: 75.8  
CQS: 67.0

TLCI: 46

TM-30 Rf: 76.0

TM-30 Rg: 119.1

Beam Angle (50%): 33.2°

Field Angle (10%): 68.8°

Cutoff Angle (2%): 121.1°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 49.07 W

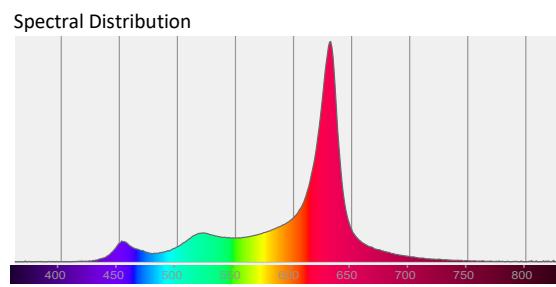
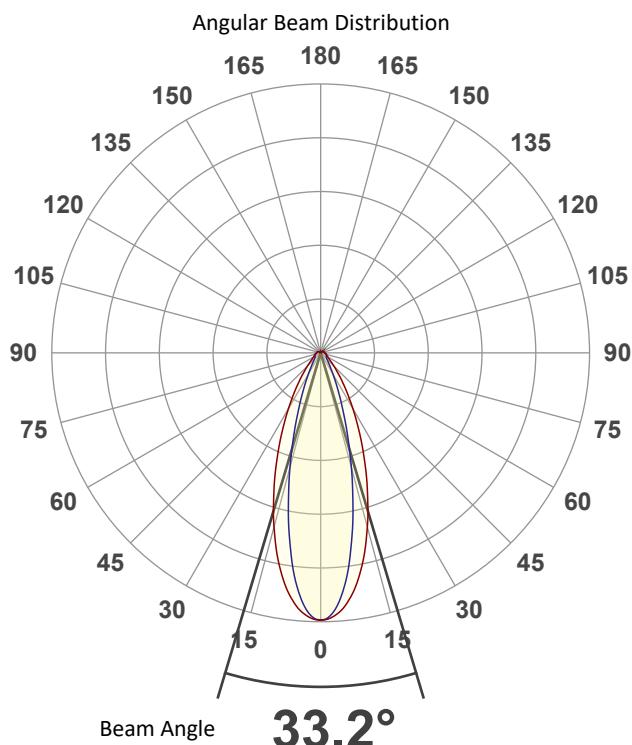
Current: 0.414 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.518  
Y: 0.379

### Light Quality

CRI: 74.6

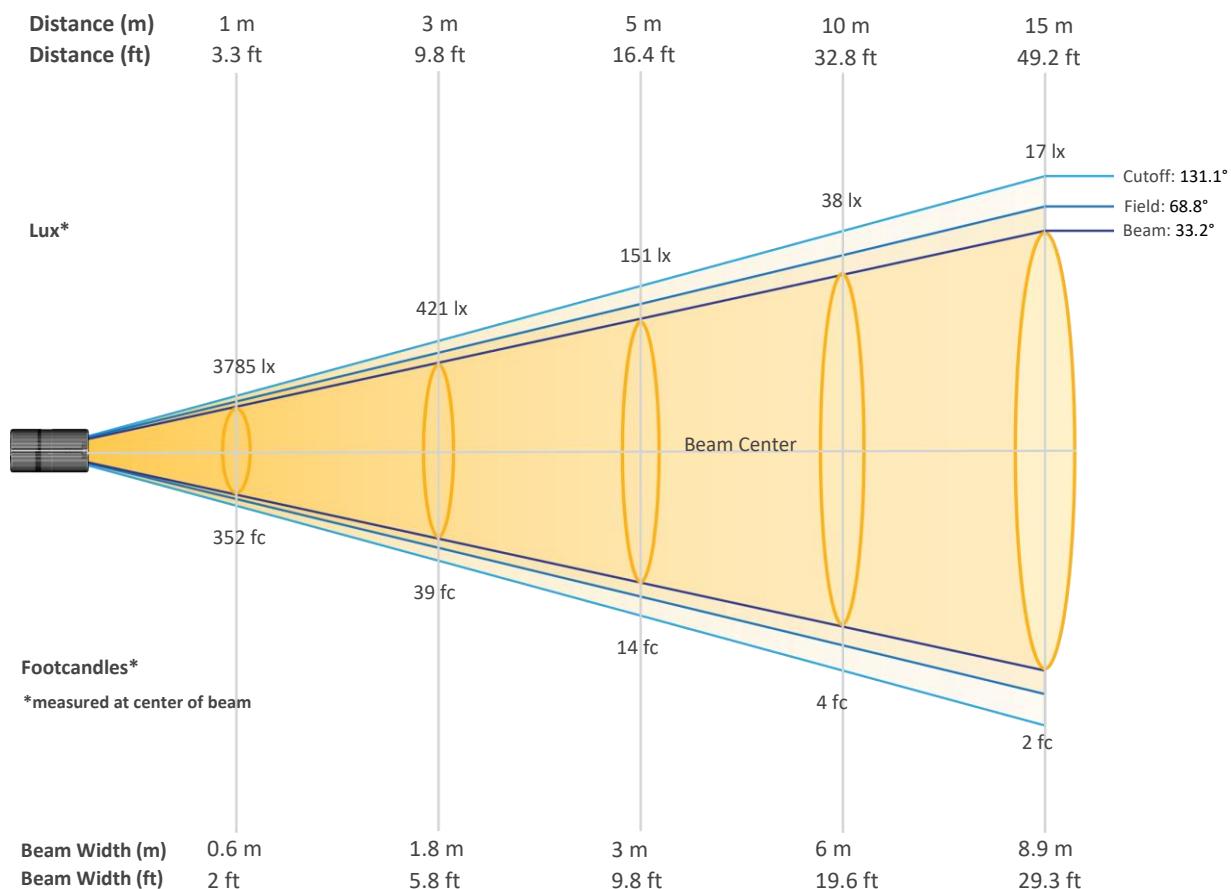
### Color Temperature

1860 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

## Beam Details

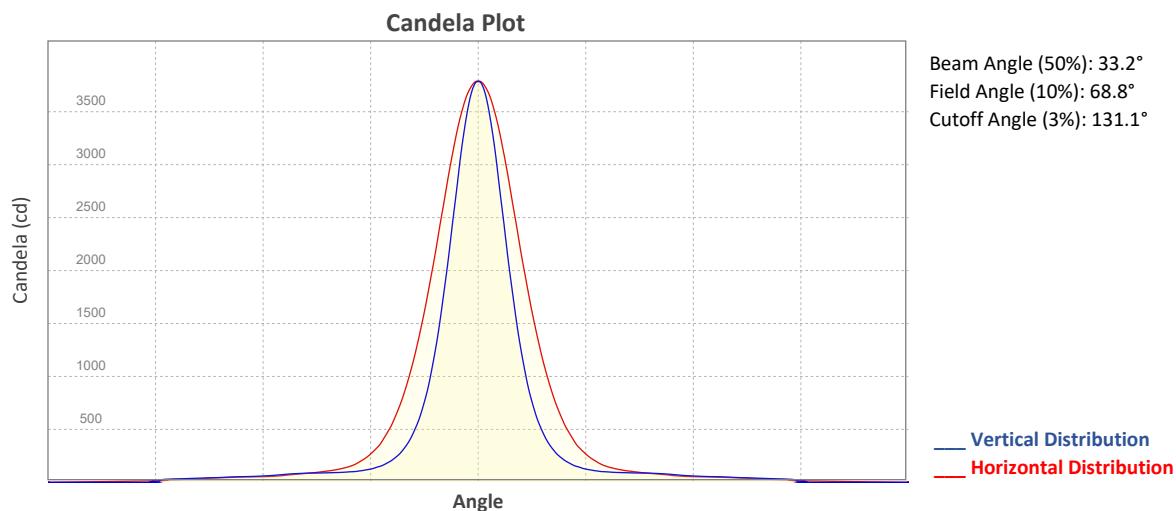


## Beam Intensities from 1-20m (3.3-65.6ft)

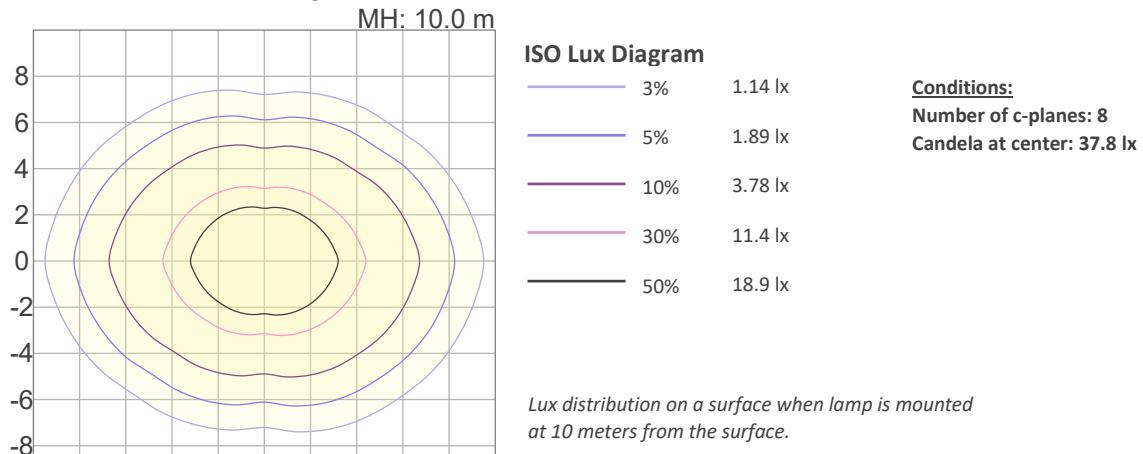
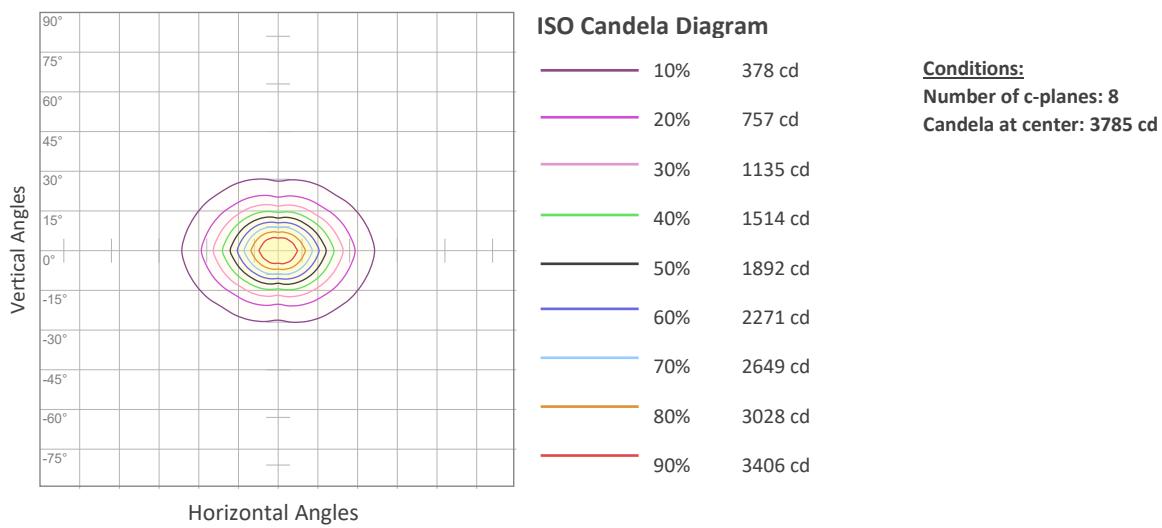
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3785	946	421	237	151	105	77	59	47	38
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	31	26	22	19	17	15	13	12	10	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	352	88	39	22	14	10	7	5	4	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	2	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K



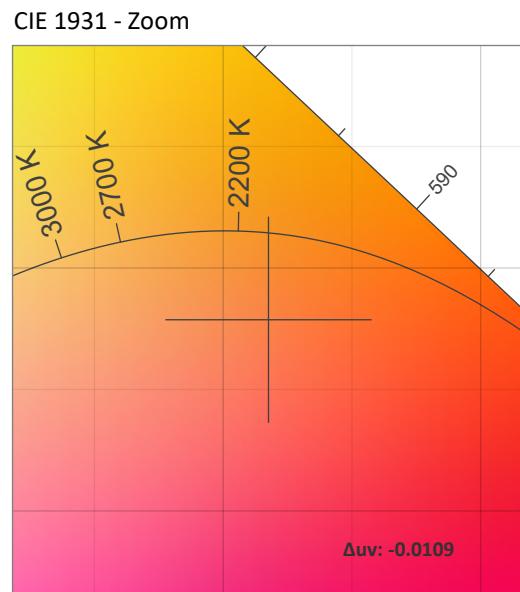
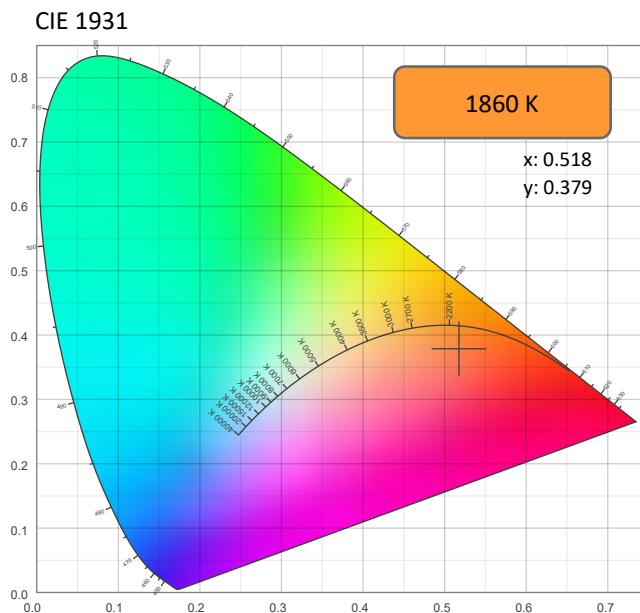
## ISO Diagrams



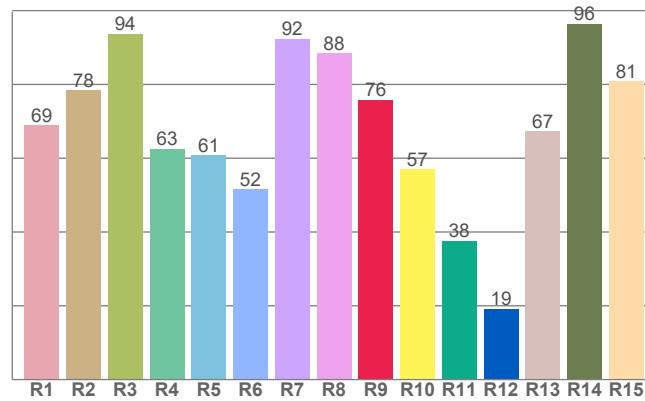
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

## Chromaticity



CRI: 74.6 (R1-R8)

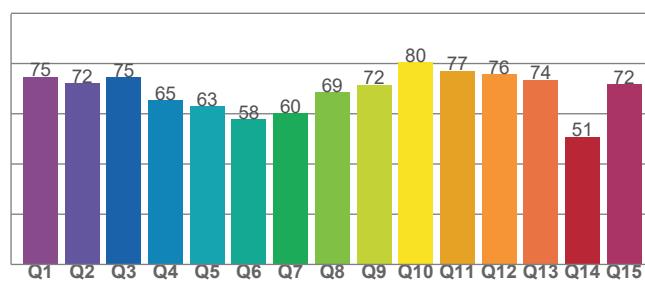


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1860 K	0.518	0.379

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0109	0.379	0.318

CQS: 67.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.6	75.8	67.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
46	76.0	119.1

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

## TM-30 Details

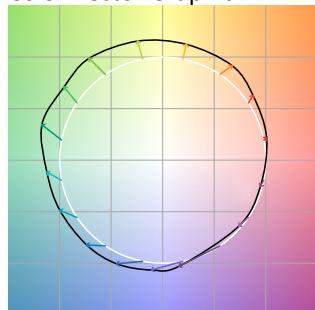
**Rf 76.0**

Fidelity Index  
(Rg)

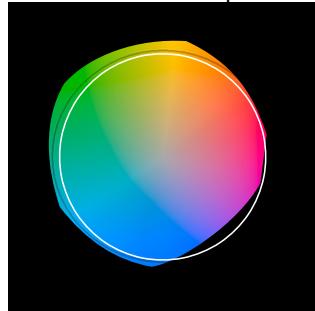
**Rg 119.1**

Gammut Index (Rg)

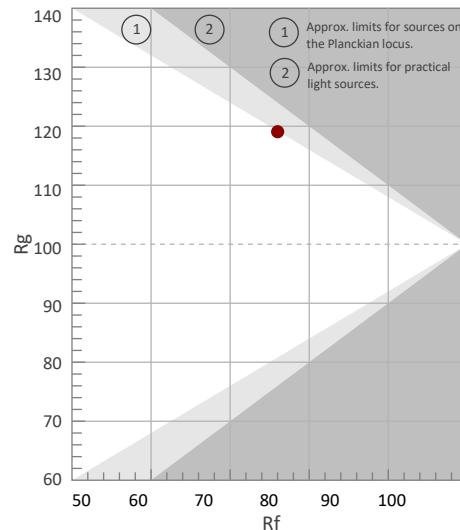
Color Vector Graphic



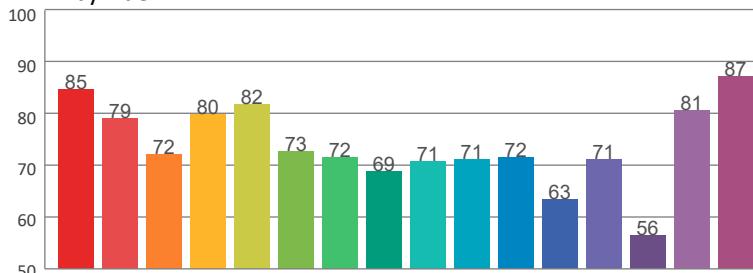
Color Distortion Graphic



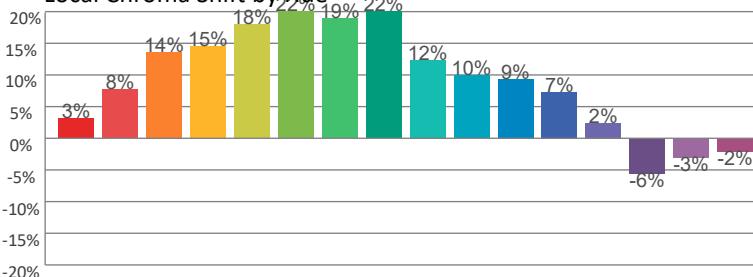
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	85	3%	2%
2	79	8%	3%
3	72	14%	-5%
4	80	15%	-1%
5	82	18%	1%
6	73	22%	5%
7	72	19%	-6%
8	69	22%	-11%
9	71	12%	-10%
10	71	10%	-15%
11	72	9%	-15%
12	63	7%	-24%
13	71	2%	-31%
14	56	-6%	-44%
15	81	-3%	-12%
16	87	-2%	-7%



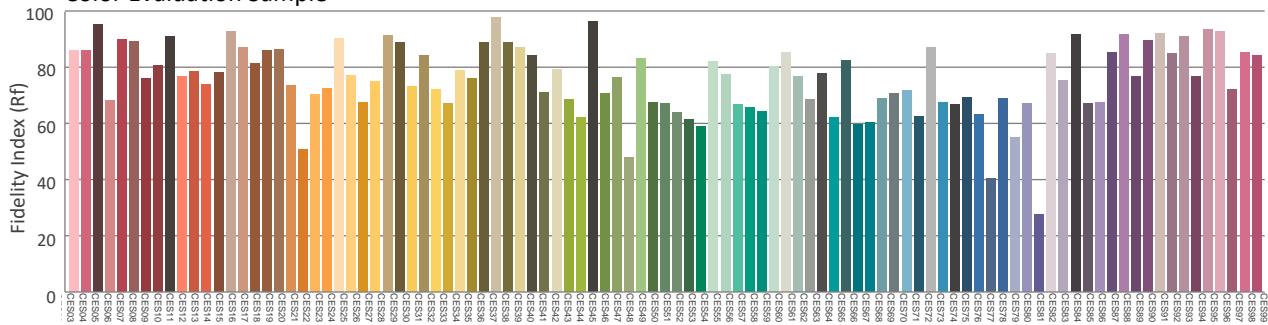
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

## Report Summary

### Measurements

Fixture Output: 2901 lm  
Fixture Peak: 4665 cd  
Fixture Efficacy: 58 lm/W  
Intensity @ 5m: 187 lux  
Color Temperature: 2244 K  
CRI: 85.5 CRI R9 Value: 88.6  
CQS: 84.5

TLCI: 71

TM-30 Rf: 86.7

TM-30 Rg: 111.1

Beam Angle (50%): 33.9°

Field Angle (10%): 69.7°

Cutoff Angle (2%): 126.2°

### Conditions

AC Supply: 119 V, 60.1 Hz

Power: 52.32 W

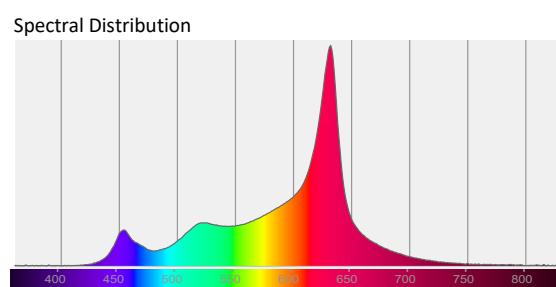
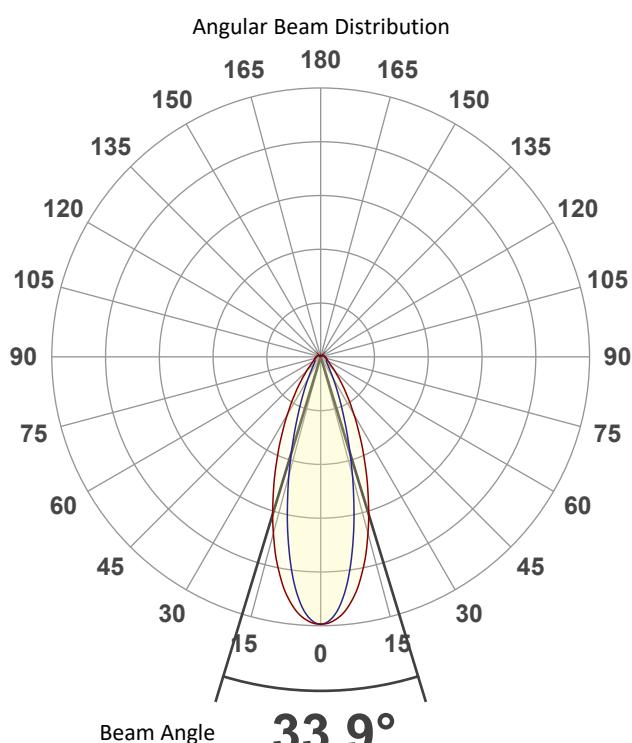
Current: 0.439 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.483  
Y: 0.389

### Light Quality



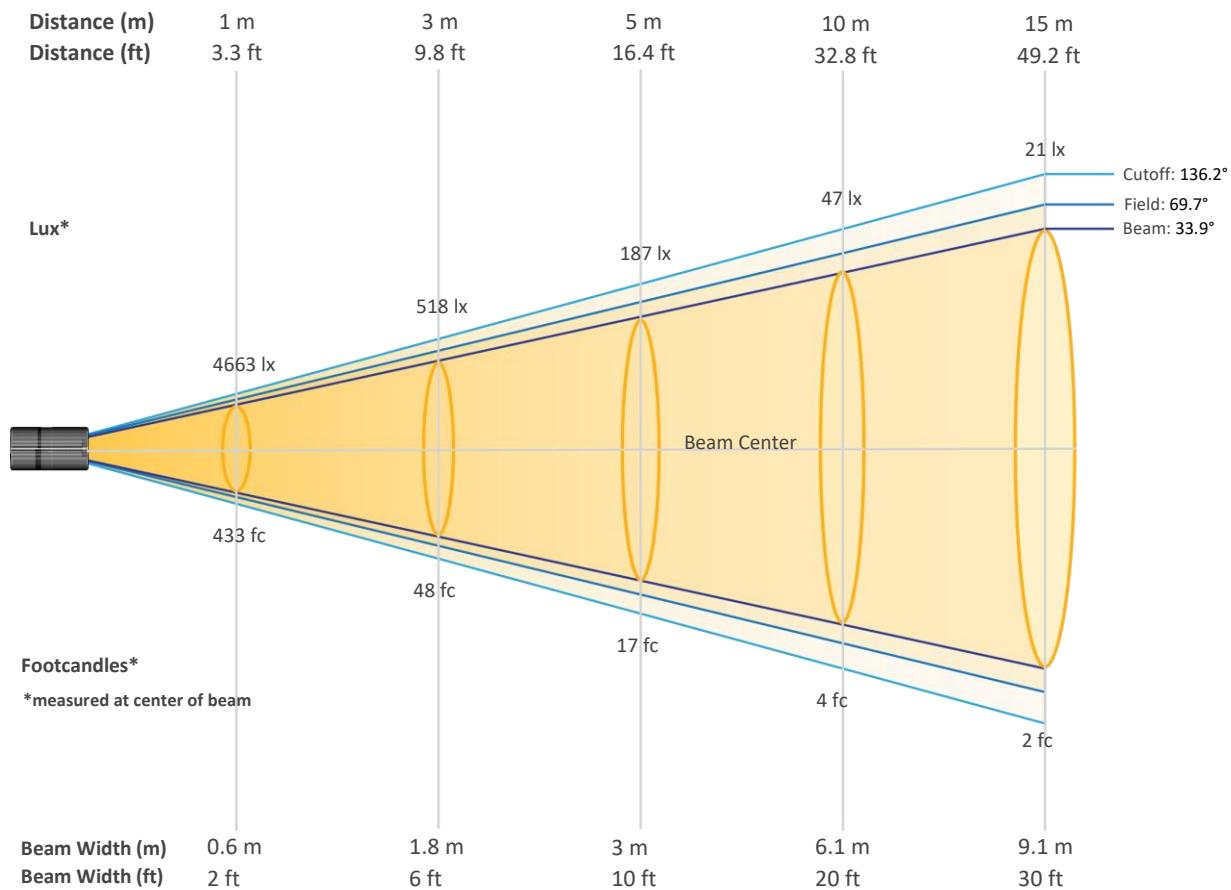
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

## Beam Details

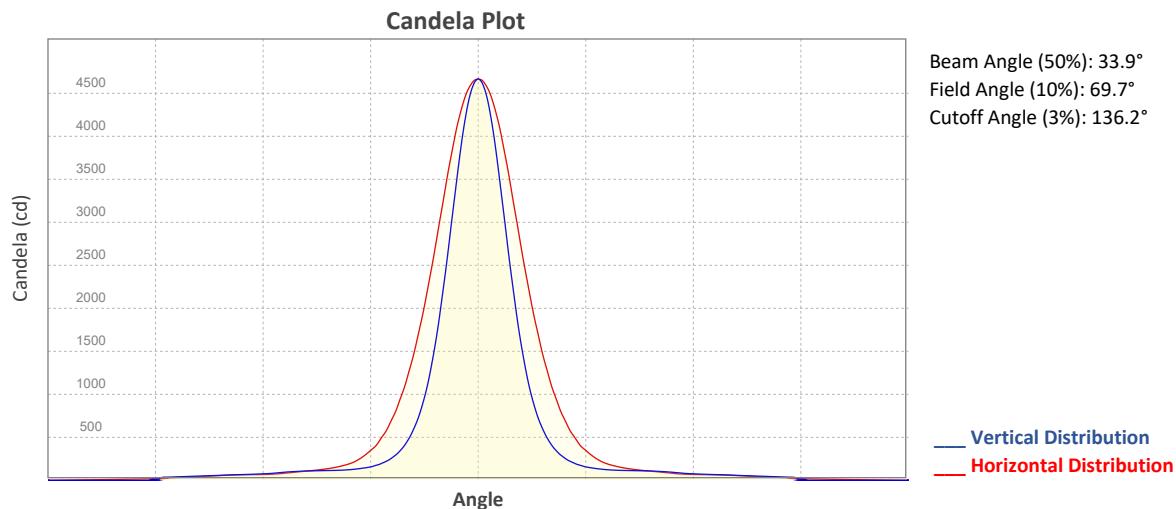


Beam Intensities from 1-20m (3.3-65.6ft)

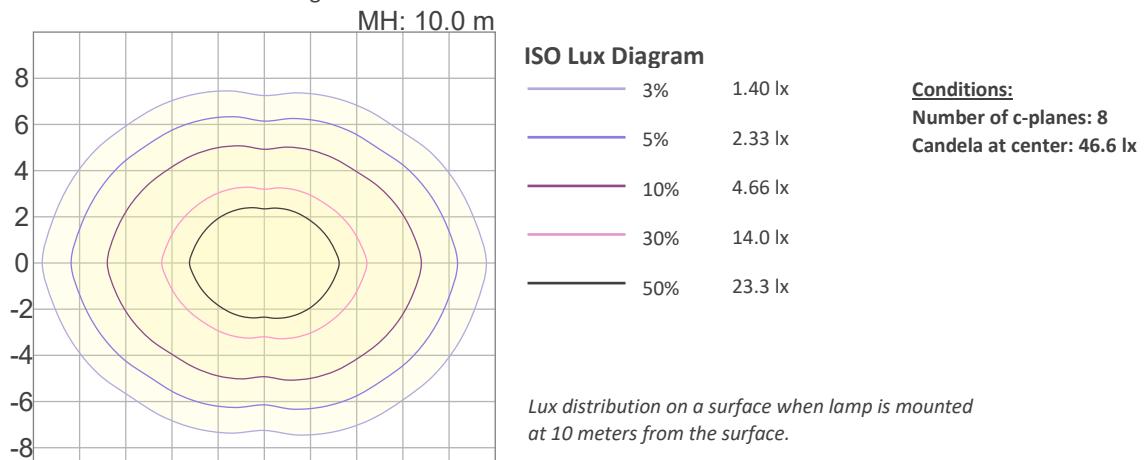
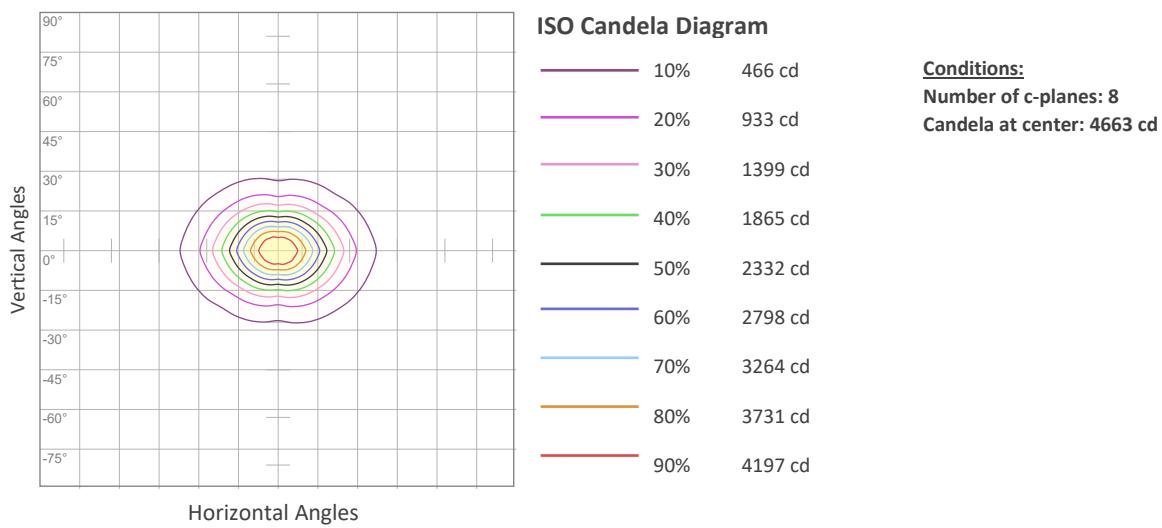
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4663	1166	518	291	187	130	95	73	58	47
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	39	32	28	24	21	18	16	14	13	12
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	433	108	48	27	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	4	3	3	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K



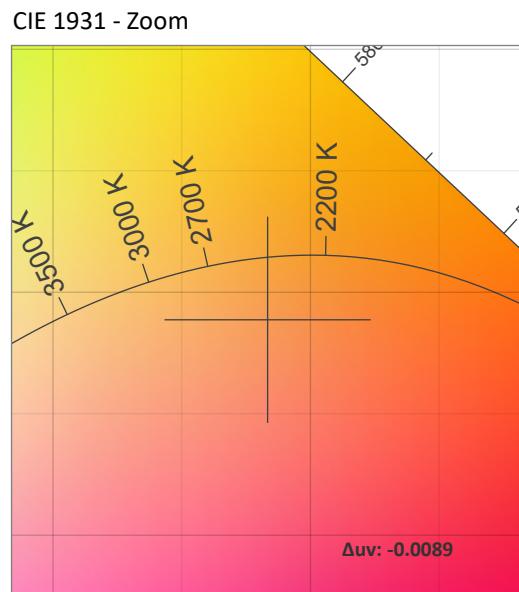
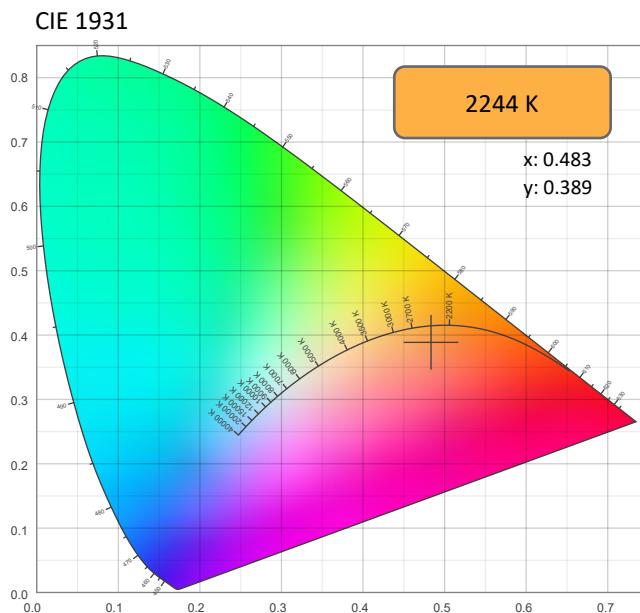
## ISO Diagrams



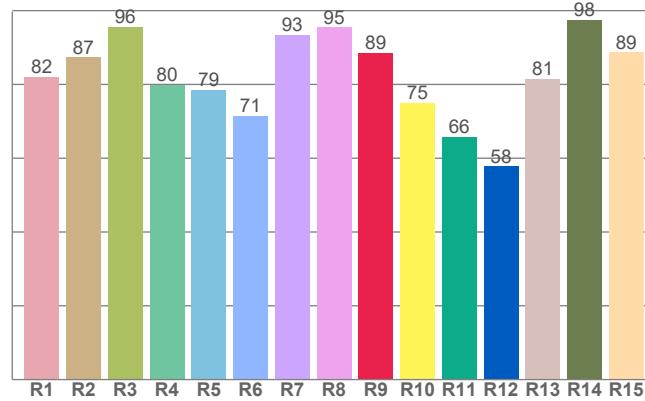
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

## Chromaticity



CRI: 85.5 (R1-R8)

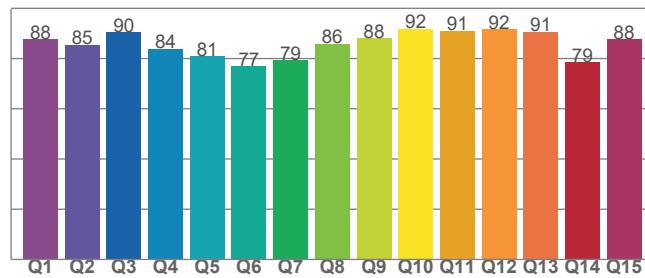


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2244 K	0.483	0.389

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta u v$	y	u
-0.0089	0.389	0.289

CQS: 84.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.5	88.6	84.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
71	86.7	111.1

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

## TM-30 Details

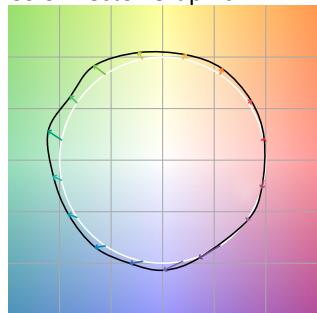
**Rf 86.7**

Fidelity Index  
(Rg)

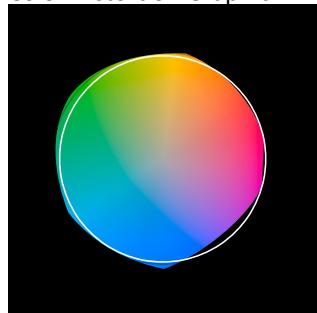
**Rg 111.1**

Gammut Index (Rg)

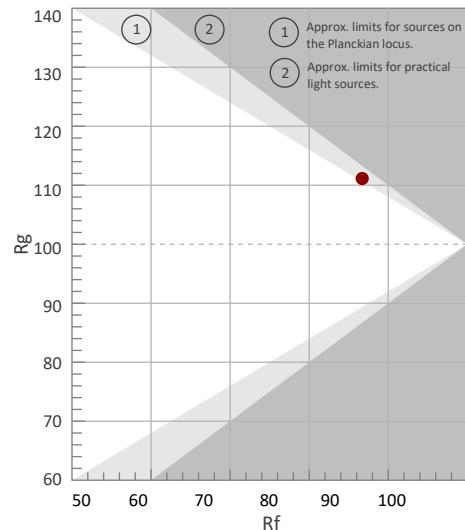
Color Vector Graphic



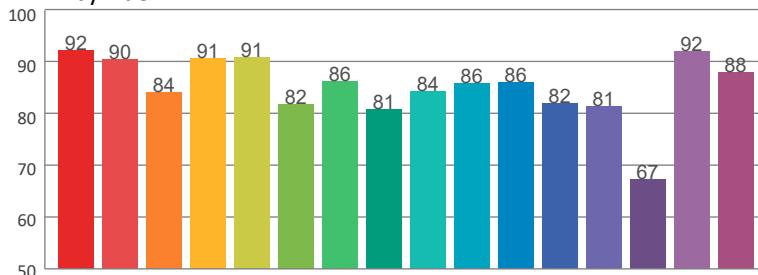
Color Distortion Graphic



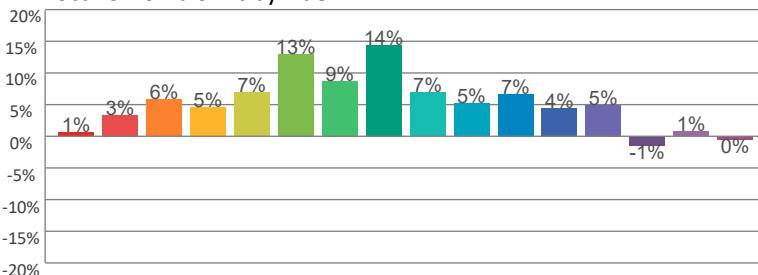
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	1%	1%
2	90	3%	0%
3	84	6%	1%
4	91	5%	-2%
5	91	7%	2%
6	82	13%	4%
7	86	9%	-2%
8	81	14%	-6%
9	84	7%	-5%
10	86	5%	-7%
11	86	7%	-7%
12	82	4%	-11%
13	81	5%	-20%
14	67	-1%	-23%
15	92	1%	-3%
16	88	0%	-8%



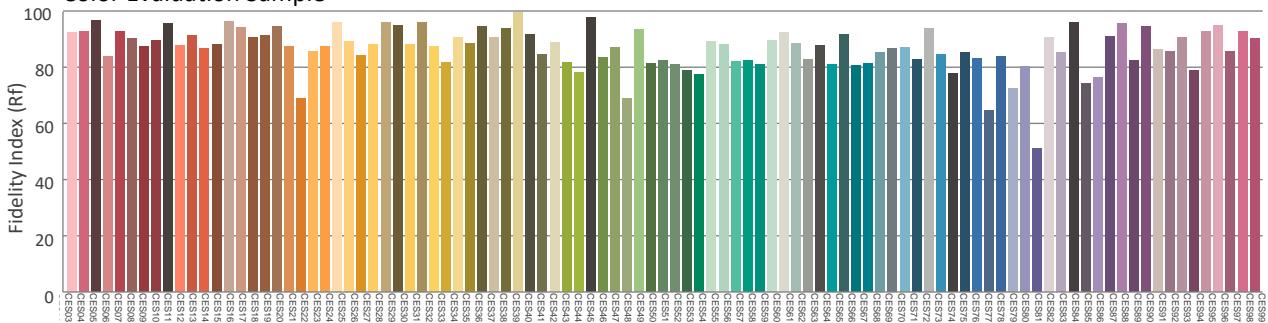
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

## Report Summary

### Measurements

Fixture Output: 1821 lm  
Fixture Peak: 2939 cd  
Fixture Efficacy: 53 lm/W  
Intensity @ 5m: 117 lux  
Color Temperature: 2675 K  
CRI: 89.0      CRI R9 Value: 89.0  
CQS: 90.0

TLCI: 78

TM-30 Rf: 89.7

TM-30 Rg: 104.6

Beam Angle (50%): 33.9°

Field Angle (10%): 69.8°

Cutoff Angle (20%): 122.9°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 36.63 W

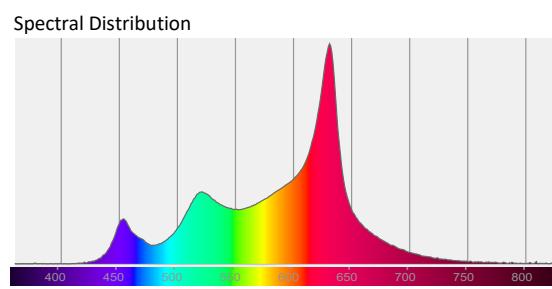
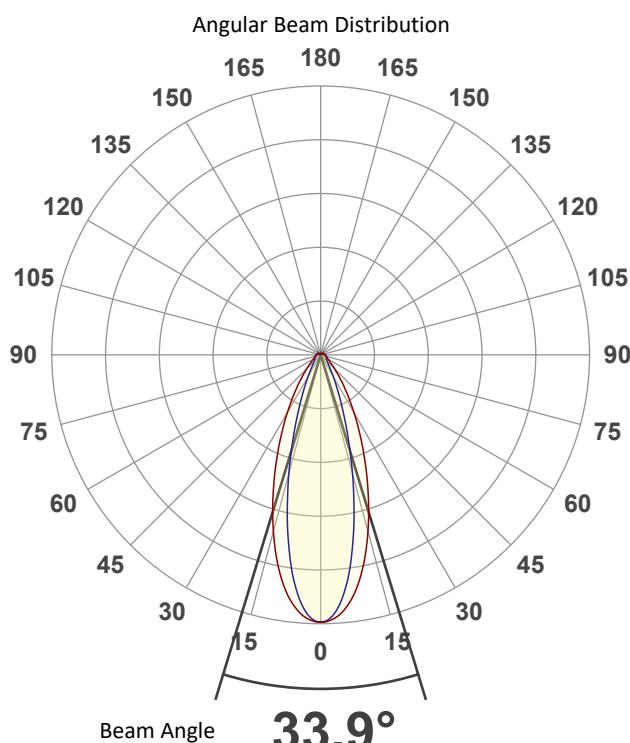
Current: 0.307 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.460  
Y: 0.407

### Light Quality



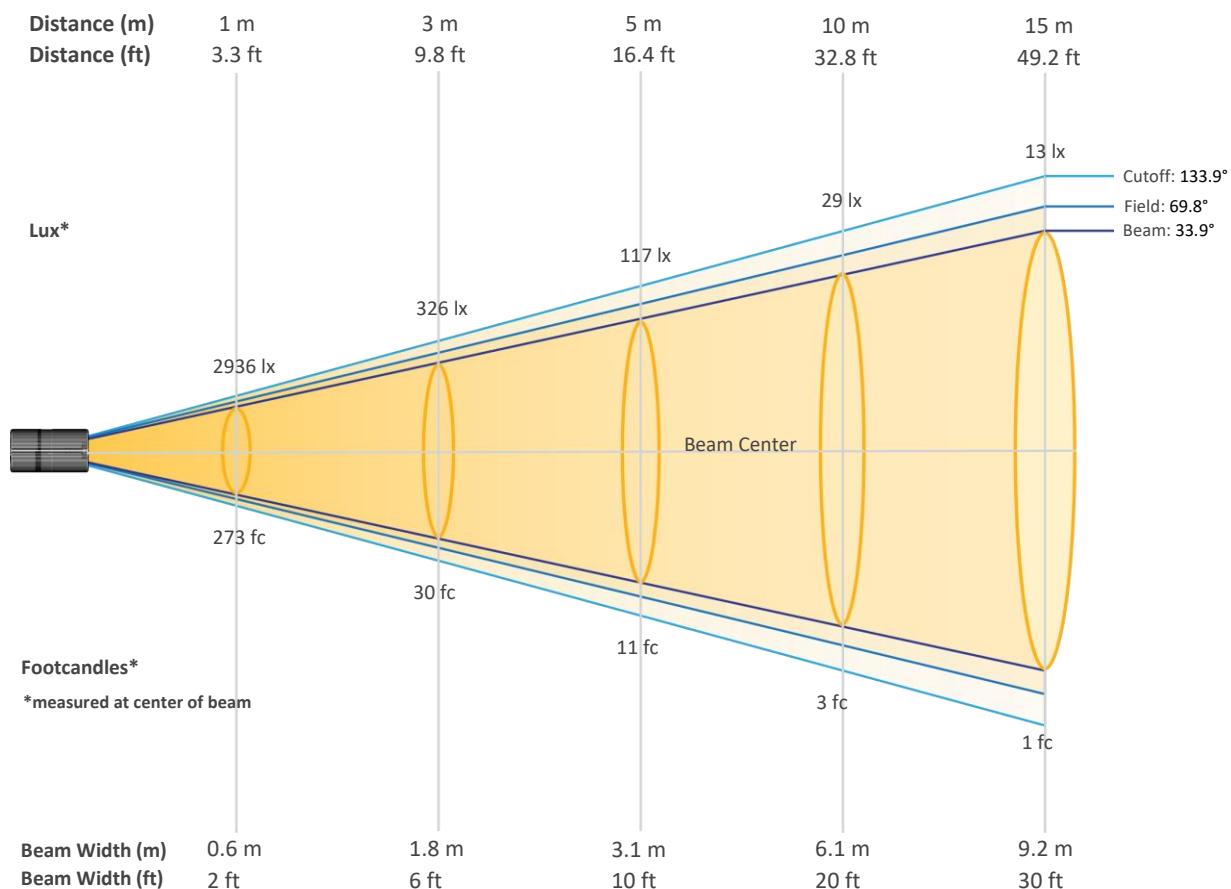
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

## Beam Details

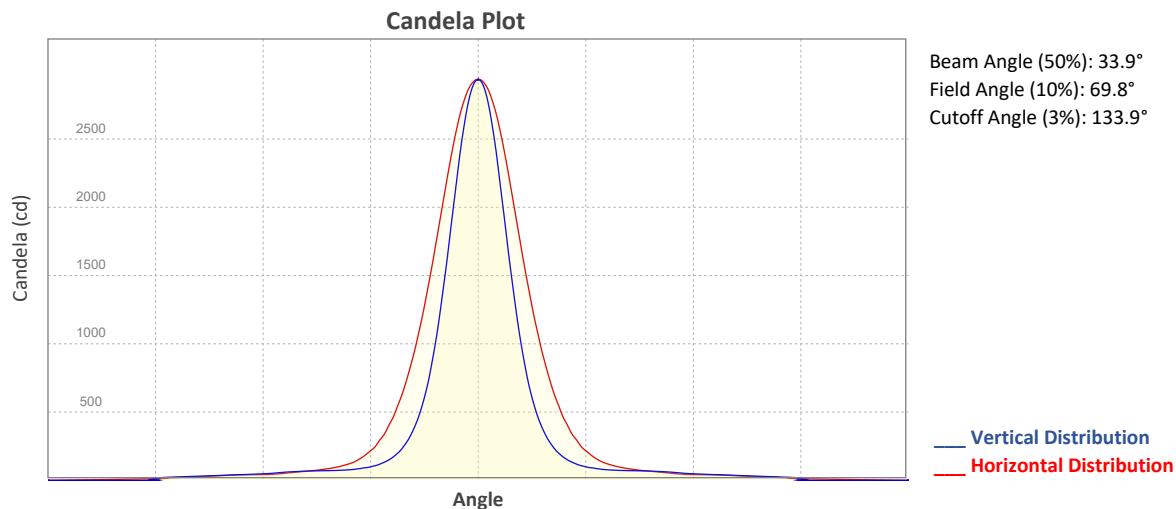


Beam Intensities from 1-20m (3.3-65.6ft)

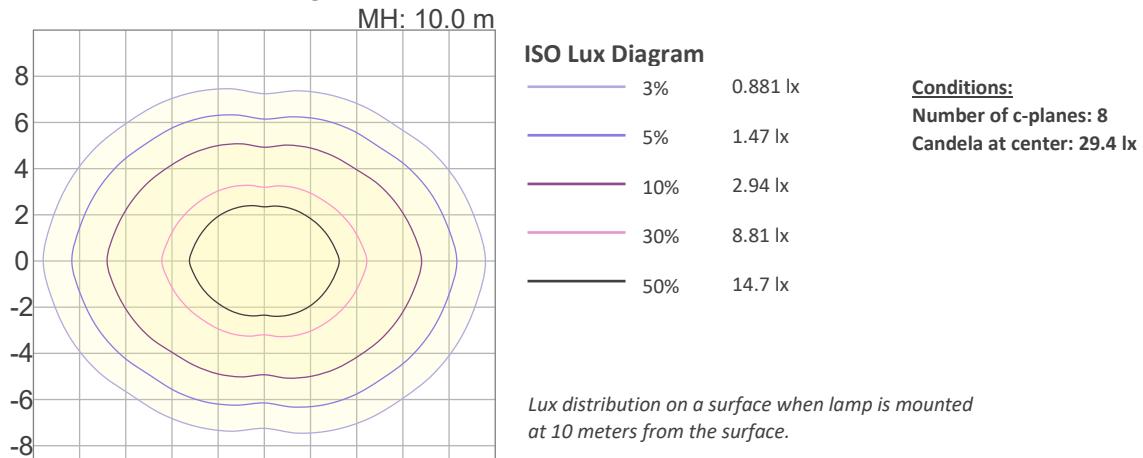
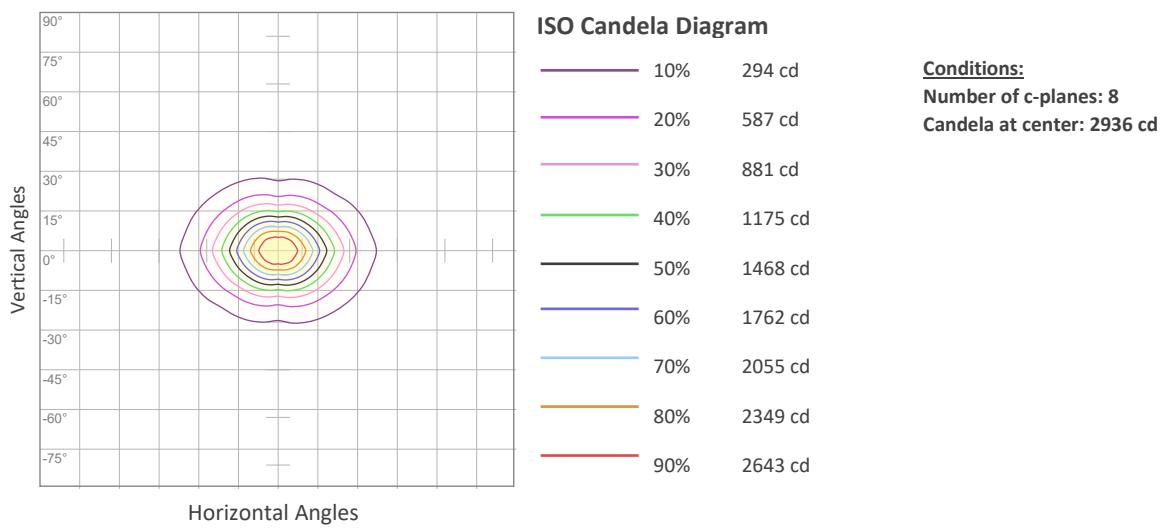
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2936	734	326	184	117	82	60	46	36	29
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	24	20	17	15	13	11	10	9	8	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	273	68	30	17	11	8	6	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	2	1	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K



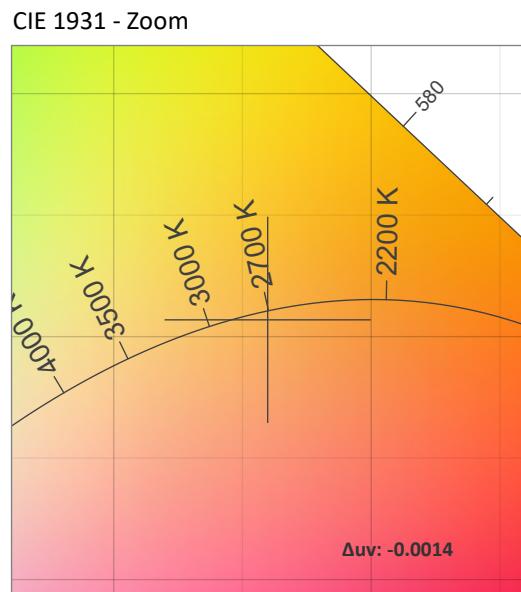
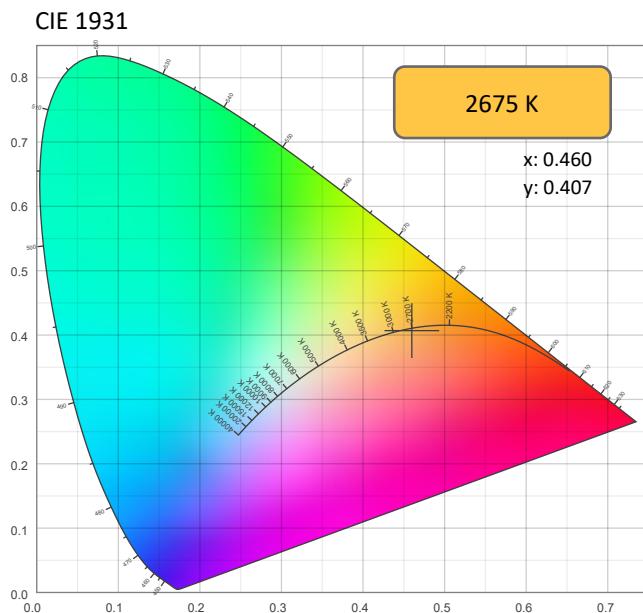
## ISO Diagrams



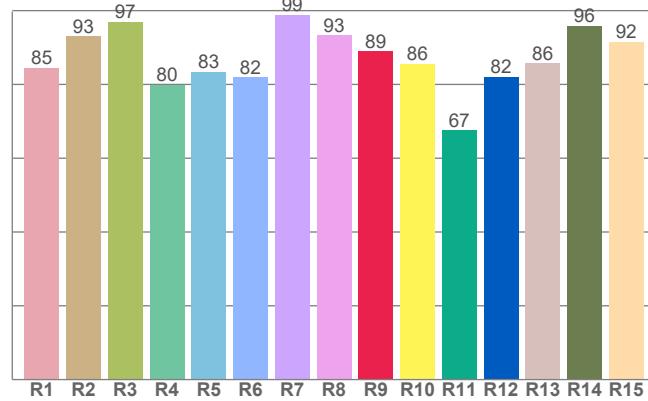
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

## Chromaticity



**CRI: 89.0 (R1-R8)**

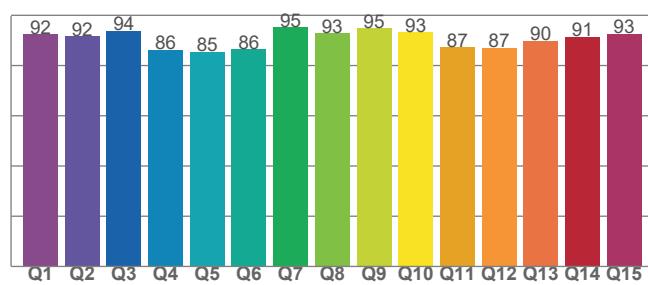


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2675 K	0.460	0.407

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0014	0.407	0.264

**CQS: 90.0**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.0	89.0	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
78	89.7	104.6

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

## TM-30 Details

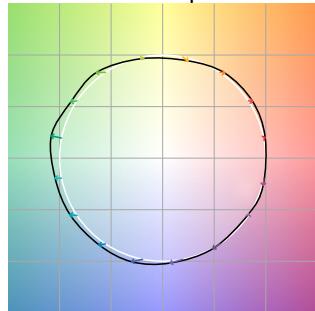
**Rf 89.7**

Fidelity Index  
(Rg)

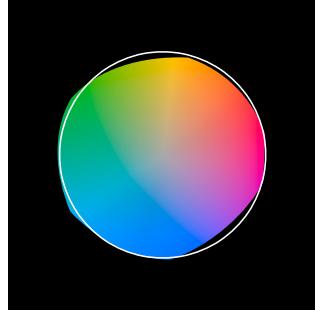
**Rg 104.6**

Gammut Index (Rg)

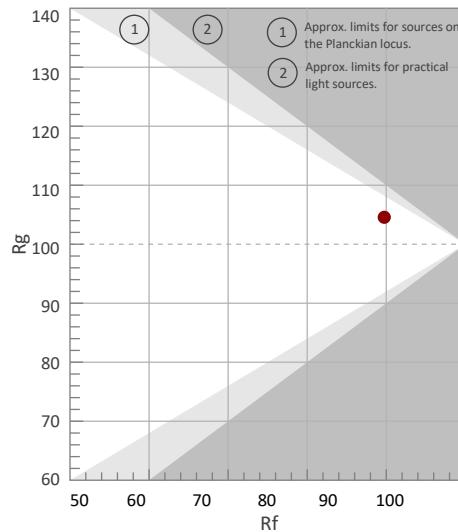
Color Vector Graphic



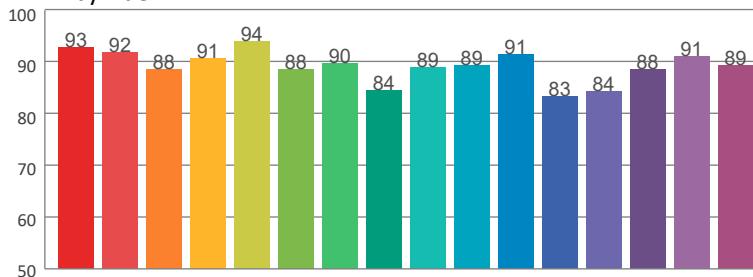
Color Distortion Graphic



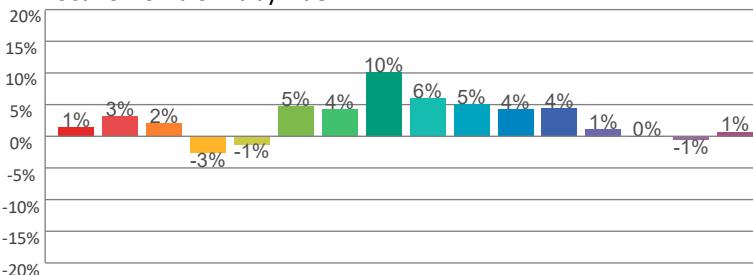
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	0%
2	92	3%	-3%
3	88	2%	-4%
4	91	-3%	-6%
5	94	-1%	2%
6	88	5%	7%
7	90	4%	4%
8	84	10%	0%
9	89	6%	-1%
10	89	5%	-4%
11	91	4%	-4%
12	83	4%	-10%
13	84	1%	-13%
14	88	0%	-8%
15	91	-1%	1%
16	89	1%	-7%



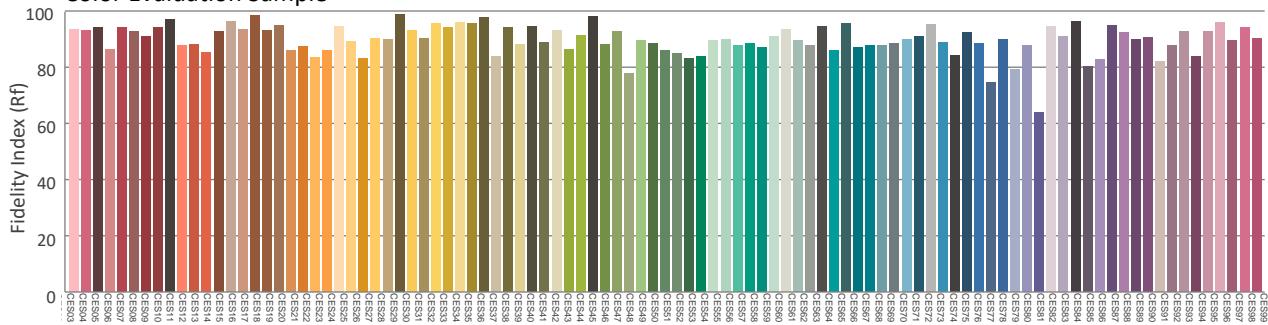
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

## Report Summary

### Measurements

Fixture Output: 2848 lm  
Fixture Peak: 4548 cd  
Fixture Efficacy: 63 lm/W  
Intensity @ 5m: 182 lux  
Color Temperature: 2908 K  
CRI: 93.0 CRI R9 Value: 95.6  
CQS: 92.8

TLCI: 86

TM-30 Rf: 91.4

TM-30 Rg: 101.6

Beam Angle (50%): 34.2°

Field Angle (10%): 69.9°

Cutoff Angle (2%): 127.5°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 48.11 W

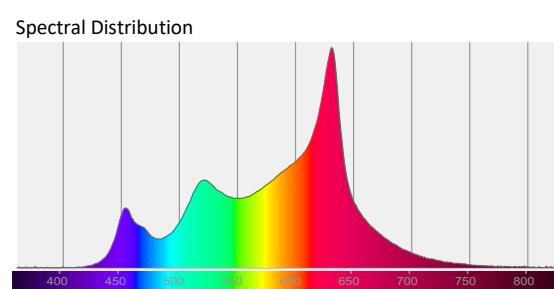
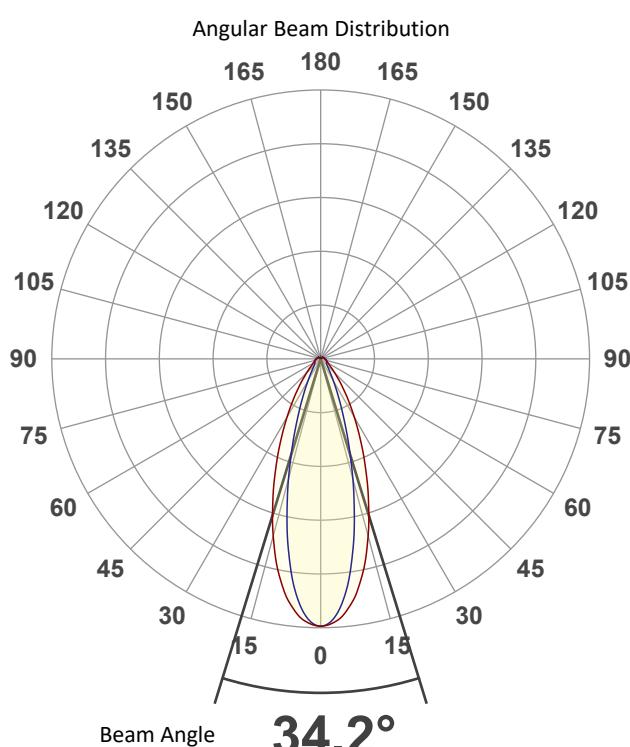
Current: 0.404 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.444  
Y: 0.406

### Light Quality



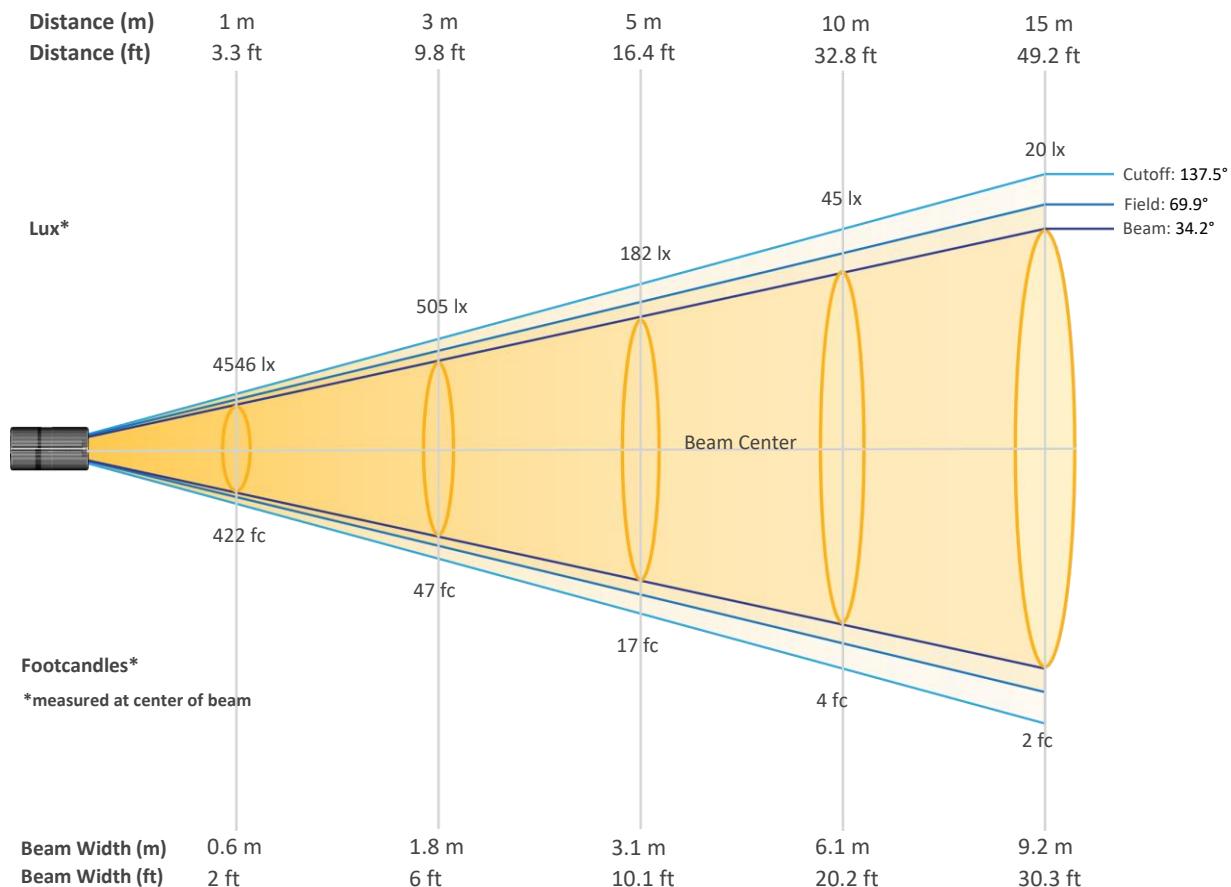
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

## Beam Details

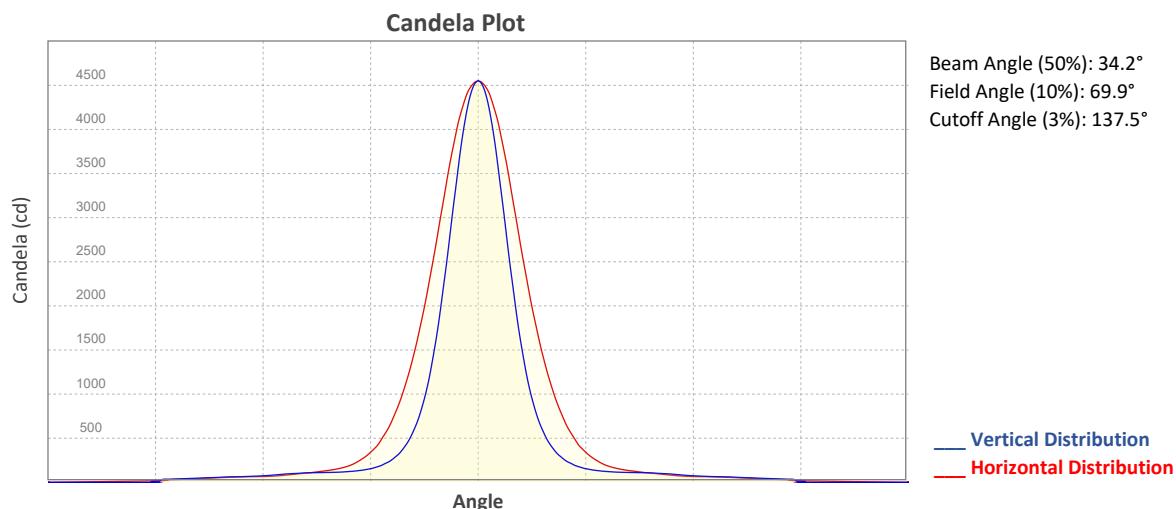


Beam Intensities from 1-20m (3.3-65.6ft)

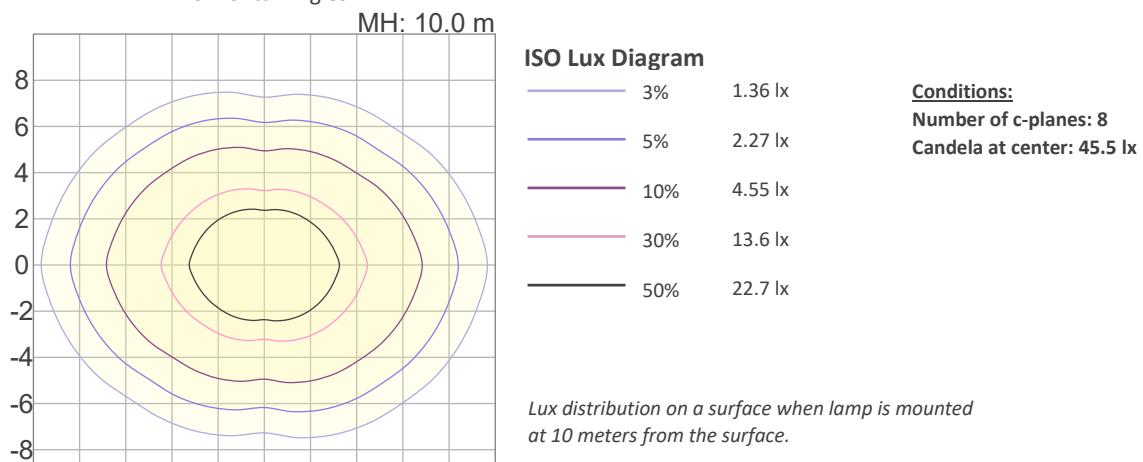
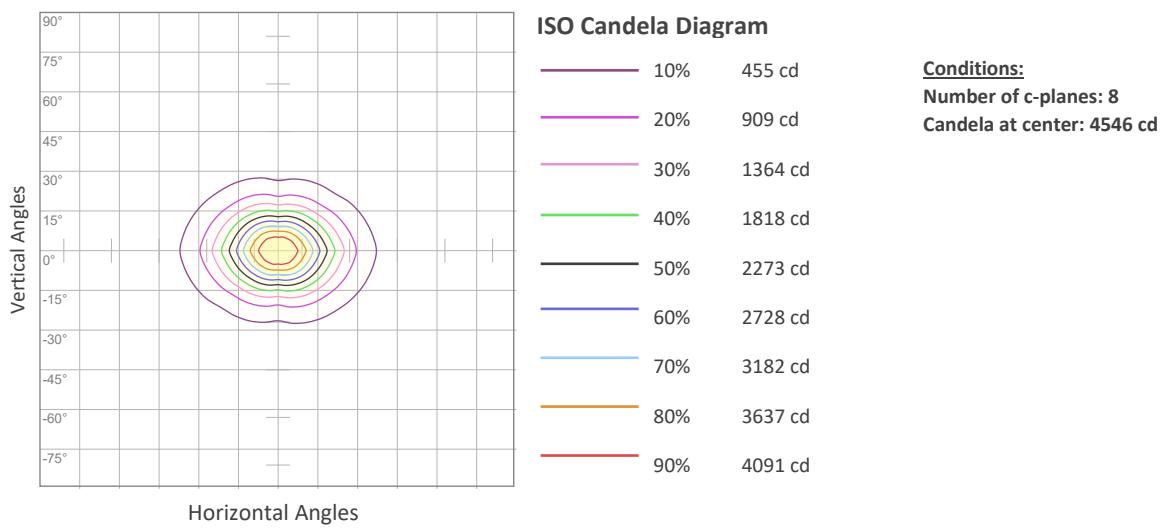
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4546	1136	505	284	182	126	93	71	56	45
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	38	32	27	23	20	18	16	14	13	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	422	106	47	26	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K



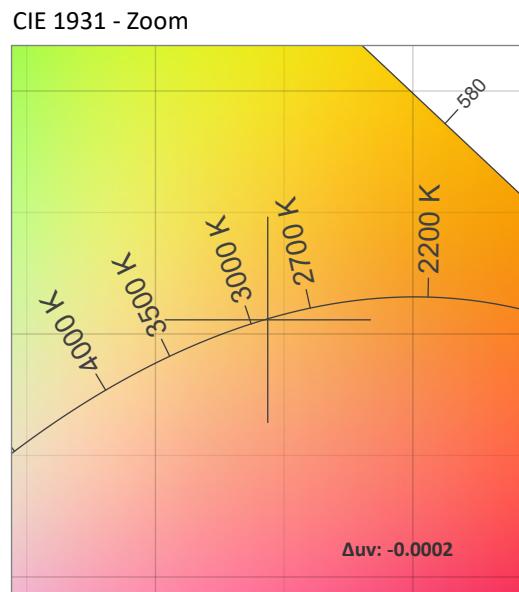
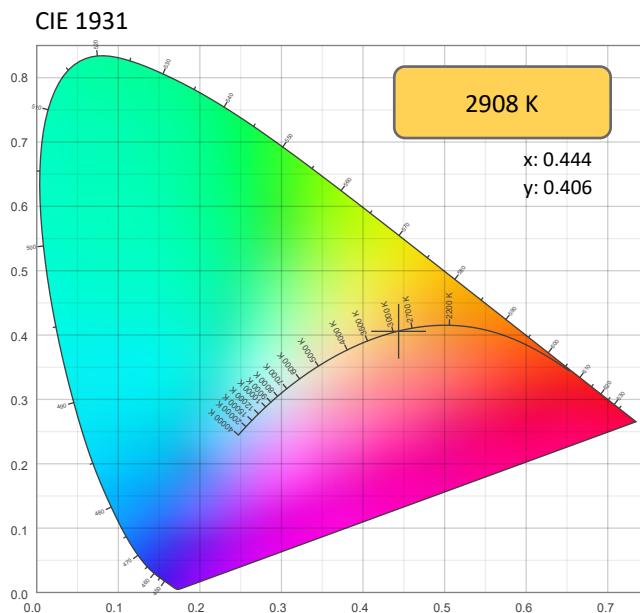
## ISO Diagrams



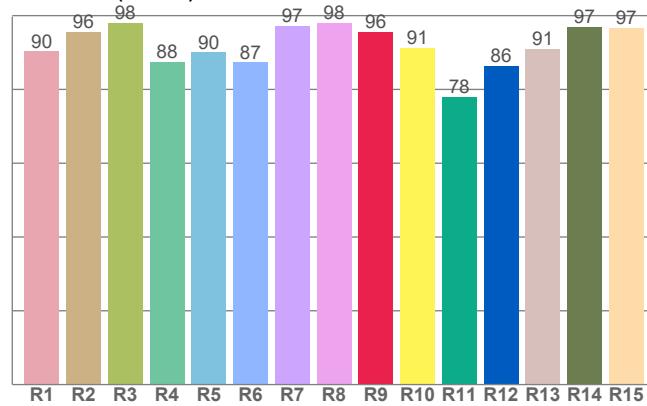
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

## Chromaticity



CRI: 93.0 (R1-R8)

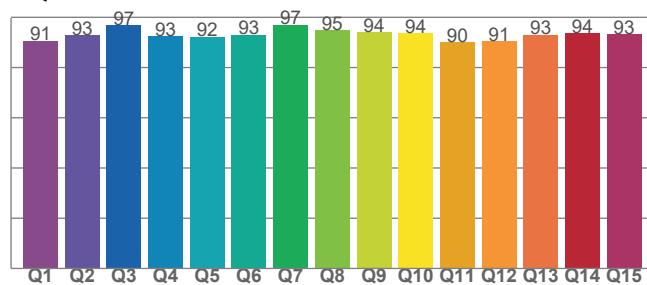


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2908 K	0.444	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0002	0.406	0.254

CQS: 92.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.0	95.6	92.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
86	91.4	101.6

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

## TM-30 Details

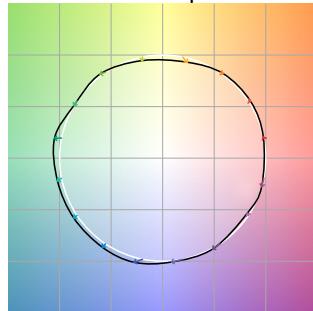
**Rf 91.4**

Fidelity Index  
(Rg)

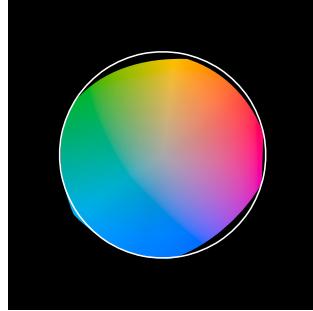
**Rg 101.6**

Gammut Index (Rg)

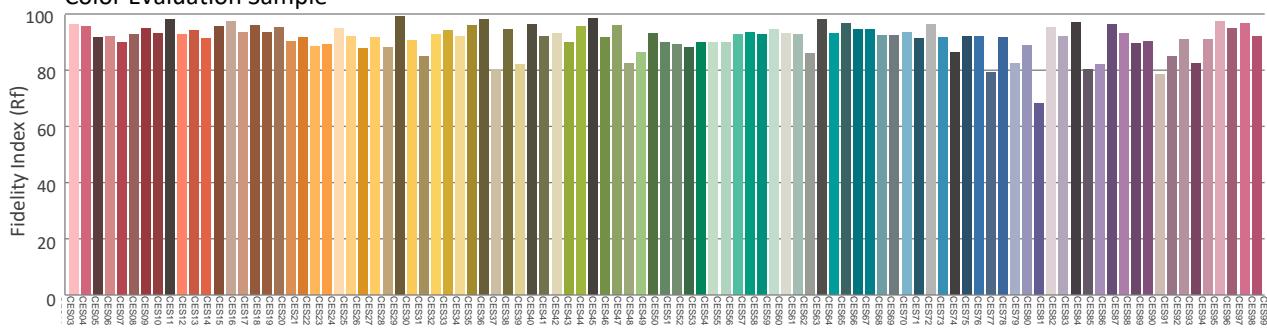
Color Vector Graphic



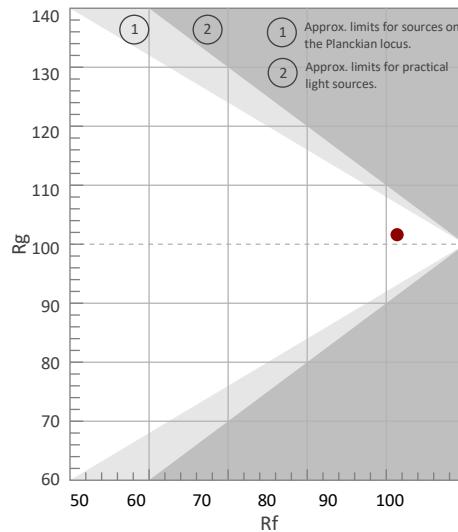
Color Distortion Graphic



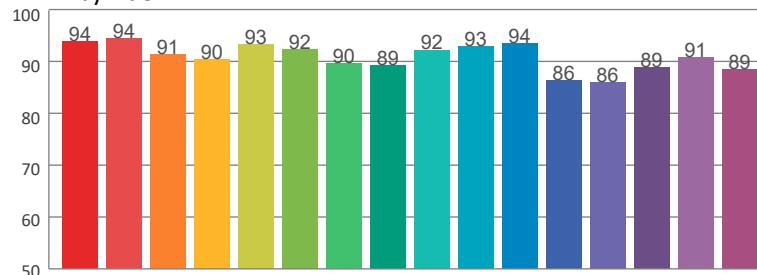
Color Evaluation Sample



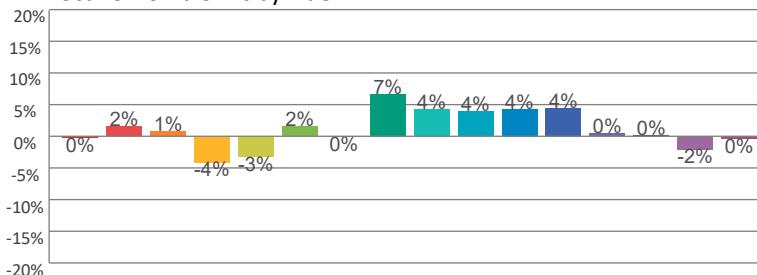
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	1%
2	94	2%	-2%
3	91	1%	-3%
4	90	-4%	-5%
5	93	-3%	1%
6	92	2%	5%
7	90	0%	5%
8	89	7%	2%
9	92	4%	2%
10	93	4%	0%
11	94	4%	0%
12	86	4%	-7%
13	86	0%	-11%
14	89	0%	-8%
15	91	-2%	1%
16	89	0%	-8%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

## Report Summary

### Measurements

Fixture Output: 2834 lm  
Fixture Peak: 4496 cd  
Fixture Efficacy: 63 lm/W  
Intensity @ 5m: 180 lux  
Color Temperature: 3085 K  
CRI: 92.7 CRI R9 Value: 95.0  
CQS: 93.4

TLCI: 88

TM-30 Rf: 90.5

TM-30 Rg: 100.2

Beam Angle (50%): 34.3°

Field Angle (10%): 70.1°

Cutoff Angle (2%): 110.1°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 47.73 W

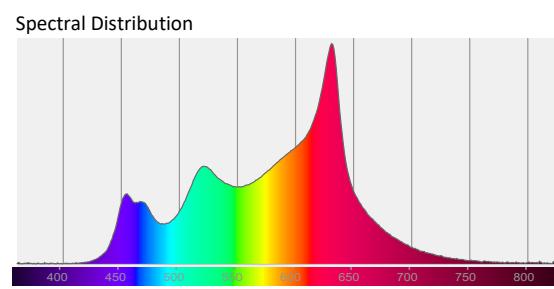
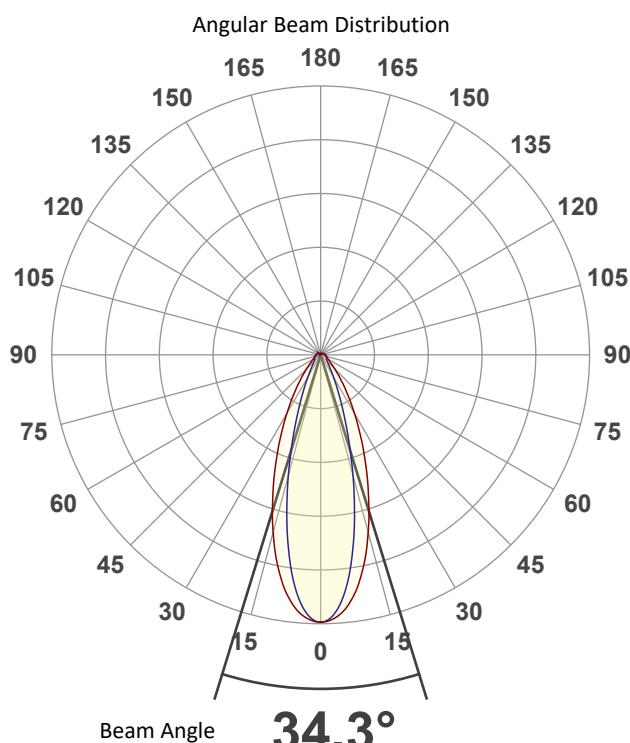
Current: 0.402 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.430  
Y: 0.399

### Light Quality



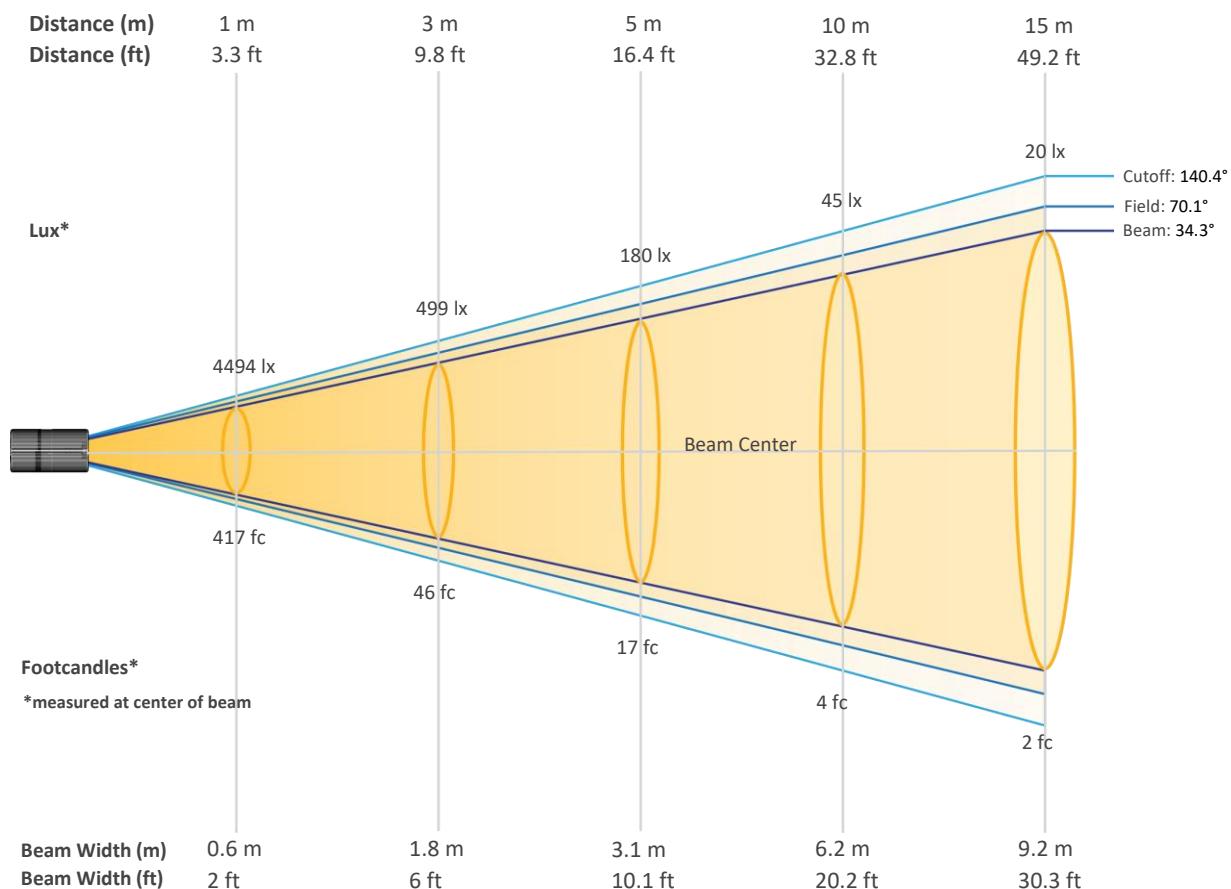
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

## Beam Details

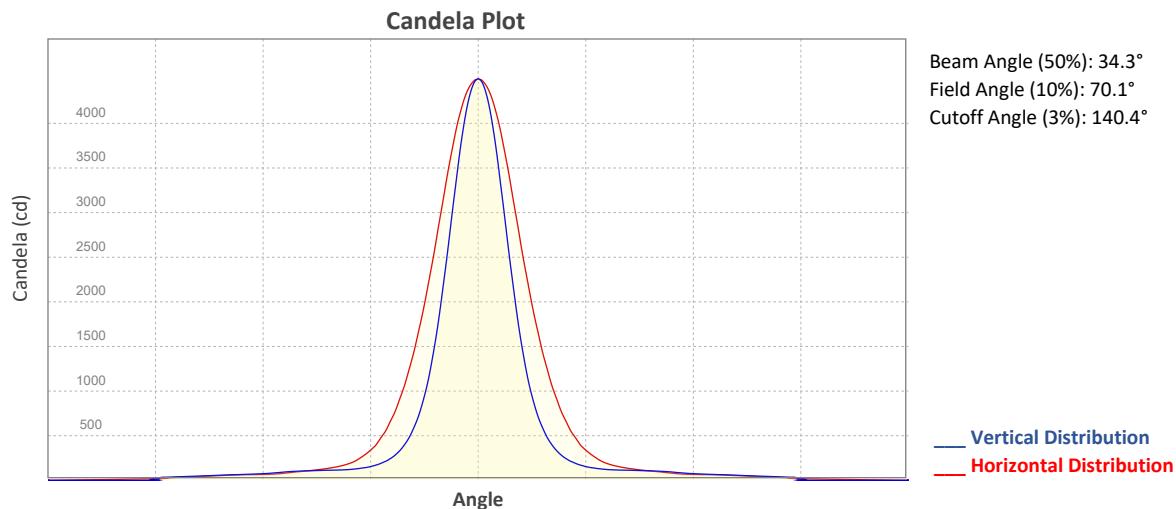


Beam Intensities from 1-20m (3.3-65.6ft)

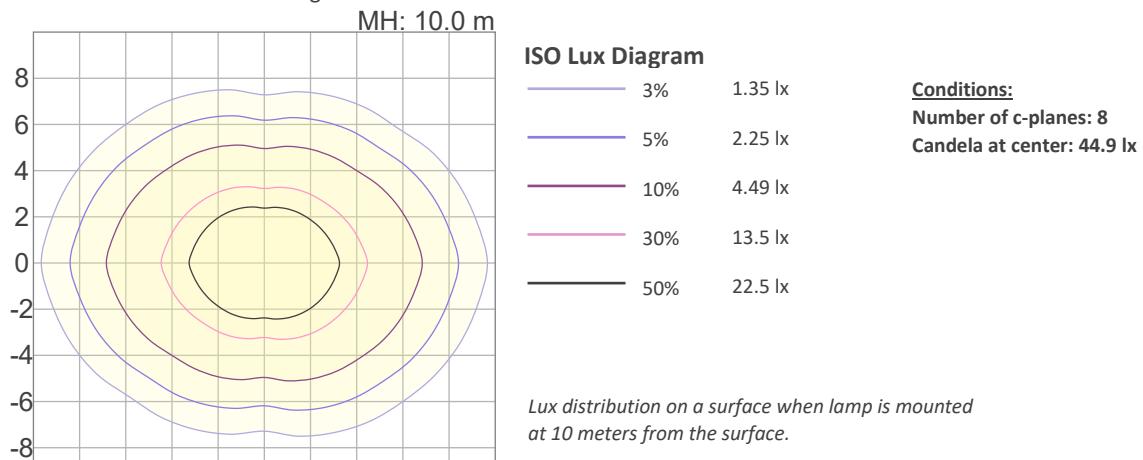
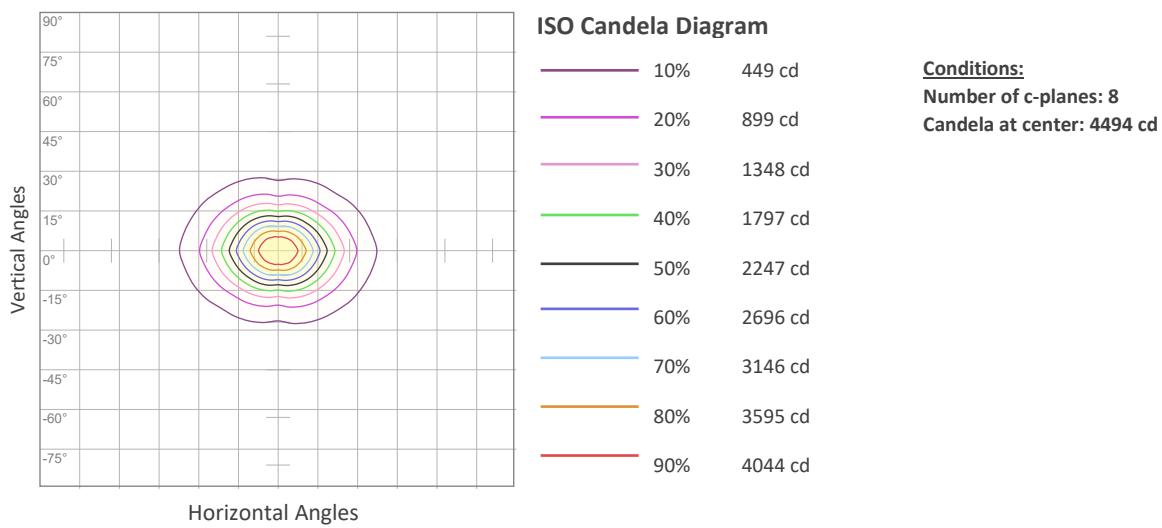
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4494	1123	499	281	180	125	92	70	55	45
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	37	31	27	23	20	18	16	14	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	417	104	46	26	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K



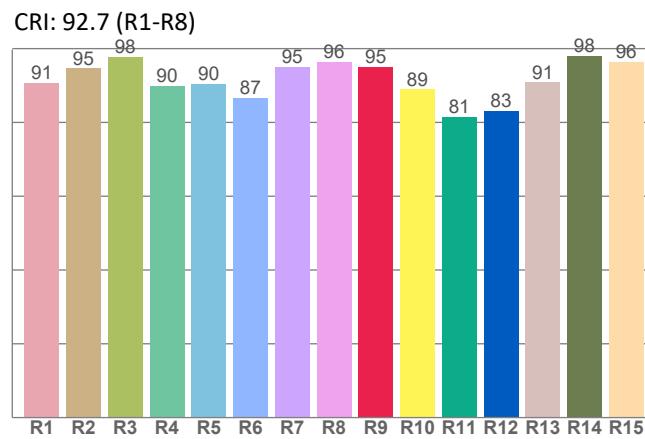
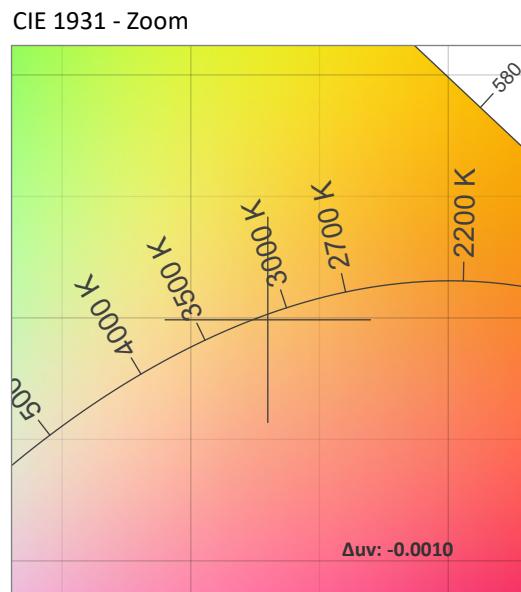
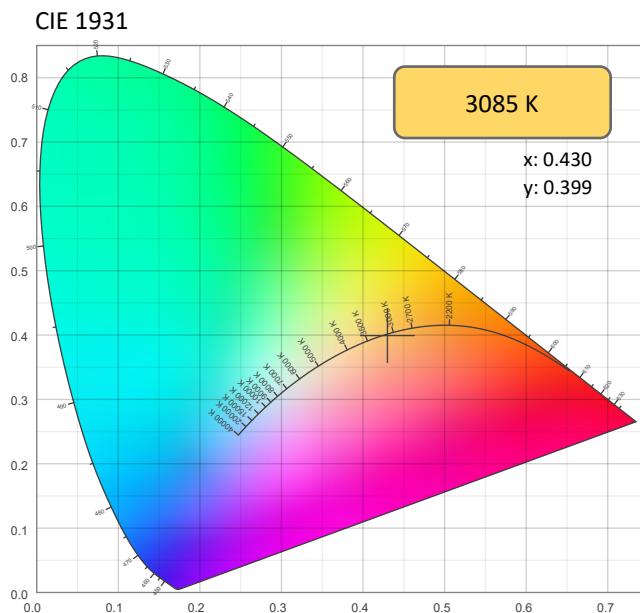
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

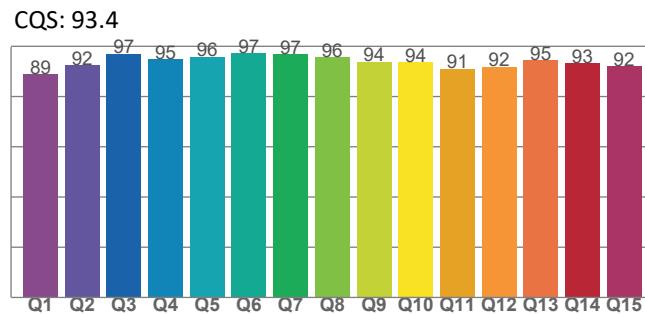
## Chromaticity



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3085 K	0.430	0.399

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0010	0.399	0.248



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.7	95.0	93.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
88	90.5	100.2

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

## TM-30 Details

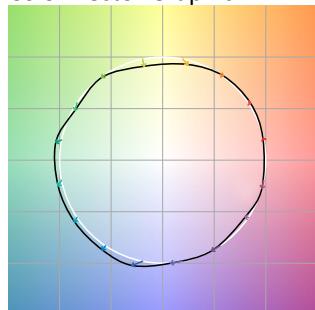
**Rf 90.5**

Fidelity Index  
(Rg)

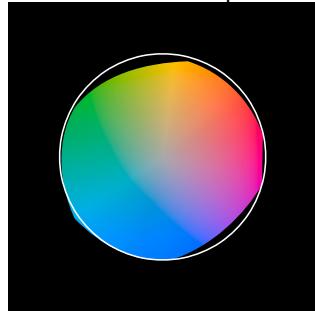
**Rg 100.2**

Gammut Index (Rg)

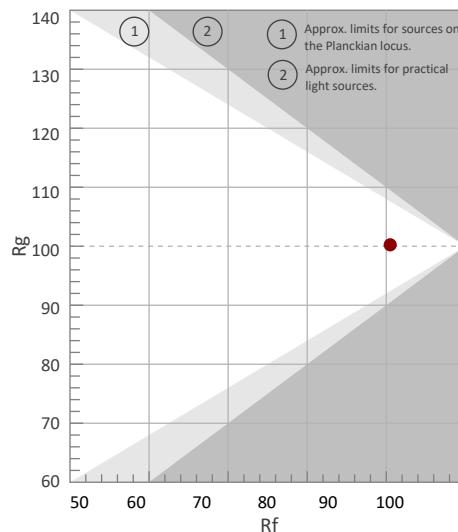
Color Vector Graphic



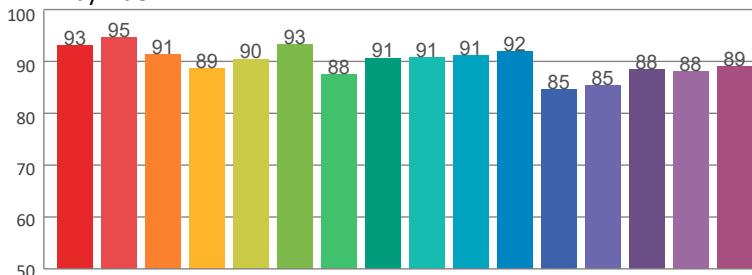
Color Distortion Graphic



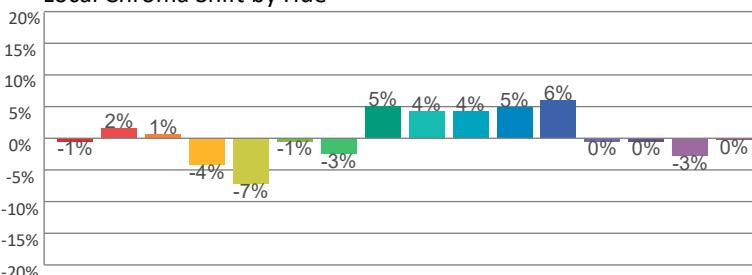
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	2%
2	95	2%	-1%
3	91	1%	-4%
4	89	-4%	-6%
5	90	-7%	0%
6	93	-1%	5%
7	88	-3%	7%
8	91	5%	3%
9	91	4%	5%
10	91	4%	2%
11	92	5%	0%
12	85	6%	-9%
13	85	0%	-12%
14	88	0%	-9%
15	88	-3%	-1%
16	89	0%	-8%



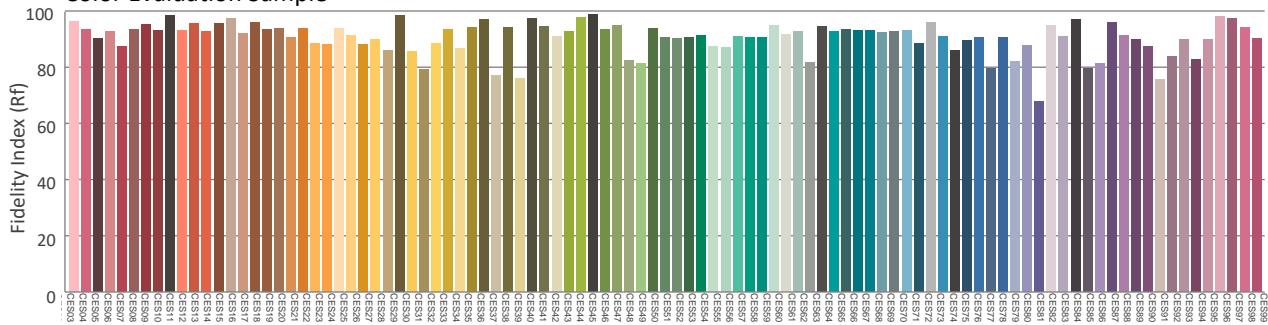
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

## Report Summary

### Measurements

Fixture Output: 2616 lm  
Fixture Peak: 4074 cd  
Fixture Efficacy: 63 lm/W  
Intensity @ 5m: 163 lux  
Color Temperature: 3883 K  
CRI: 88.2 CRI R9 Value: 74.6  
CQS: 90.4

TLCI: 87

TM-30 Rf: 84.2

TM-30 Rg: 93.5

Beam Angle (50%): 34.8°

Field Angle (10%): 70.7°

Cutoff Angle (2%): 111.7°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 44.29 W

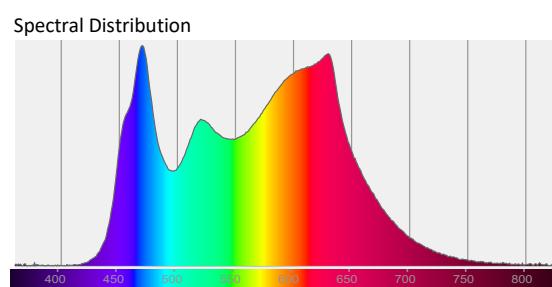
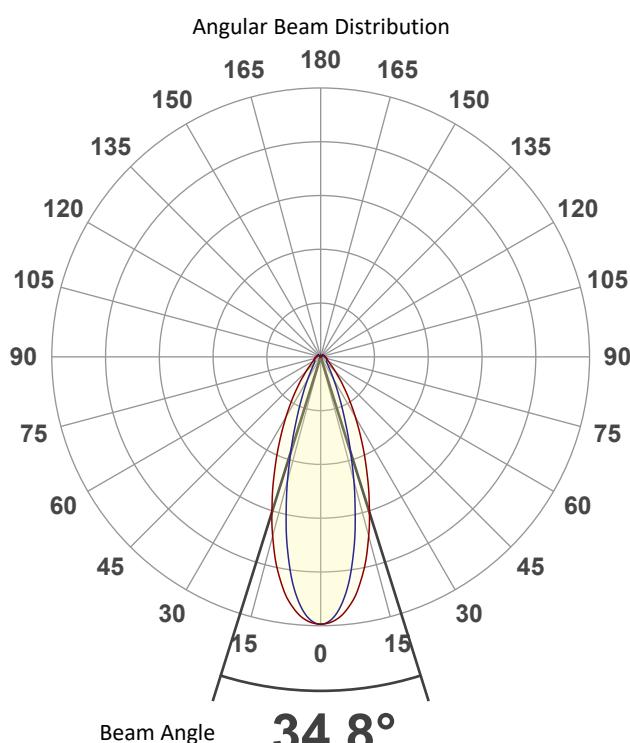
Current: 0.374 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.383  
Y: 0.369

### Light Quality



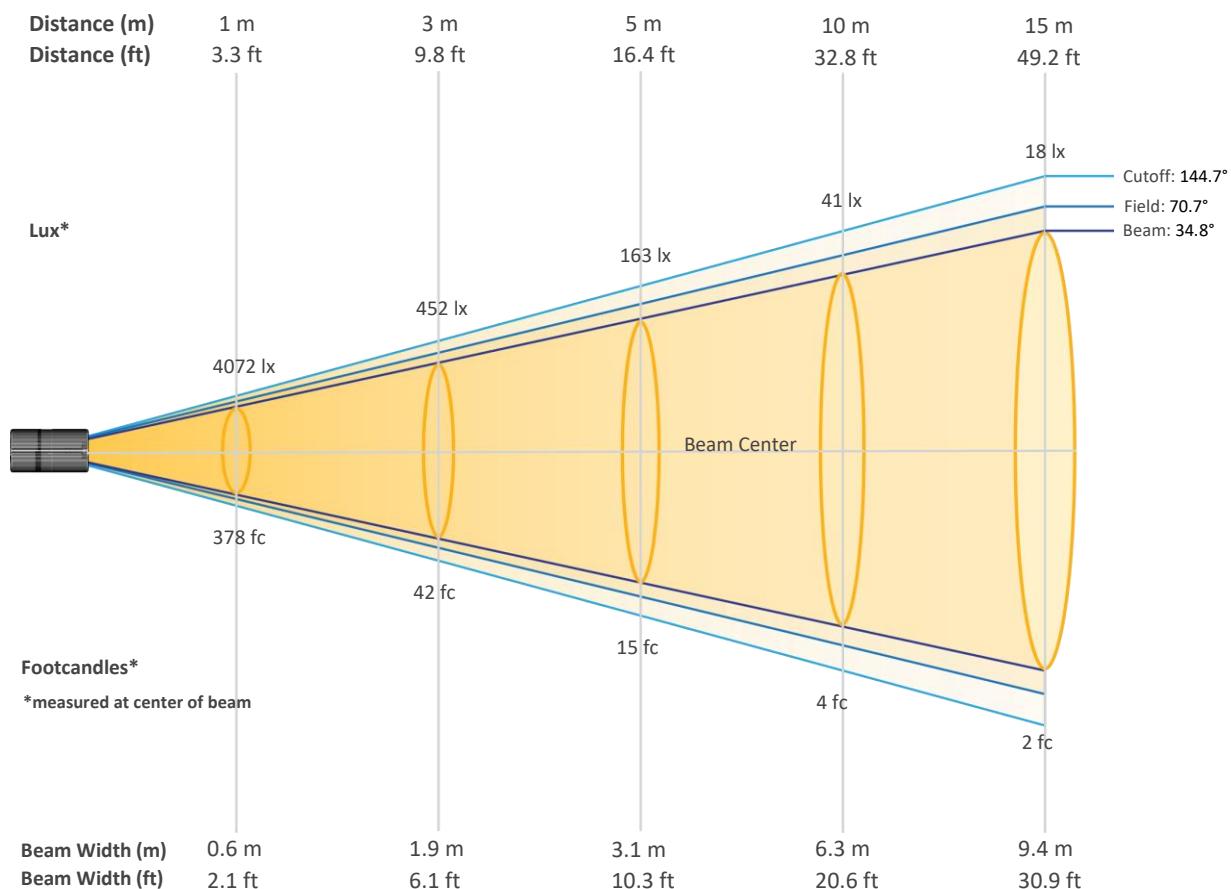
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

## Beam Details

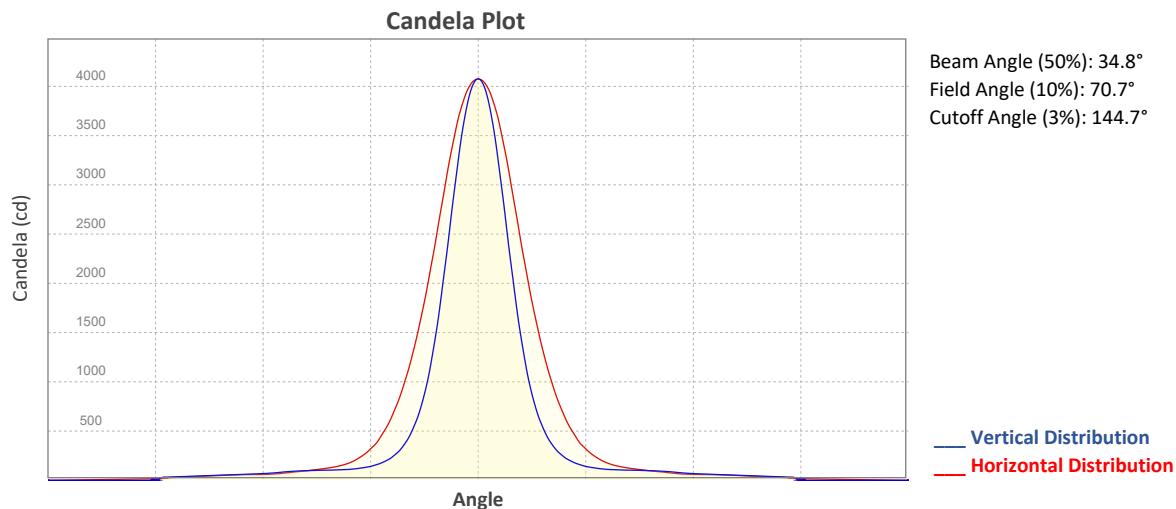


## Beam Intensities from 1-20m (3.3-65.6ft)

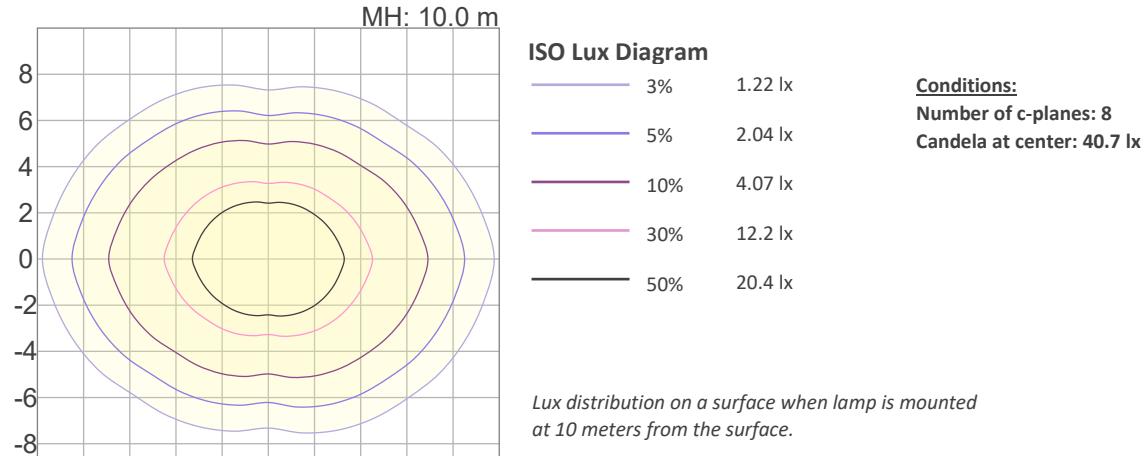
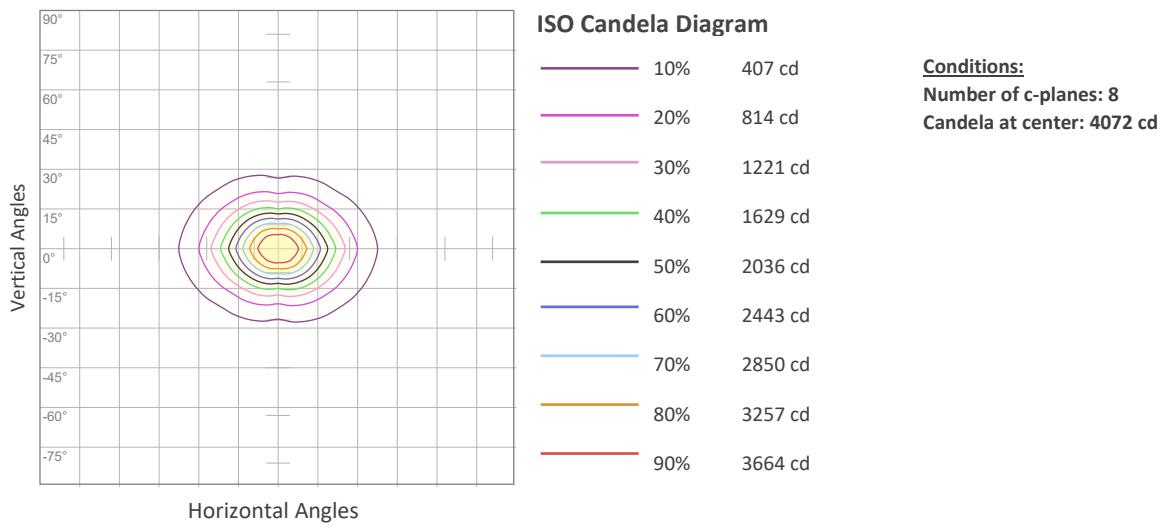
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4072	1018	452	254	163	113	83	64	50	41
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	34	28	24	21	18	16	14	13	11	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	378	95	42	24	15	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K



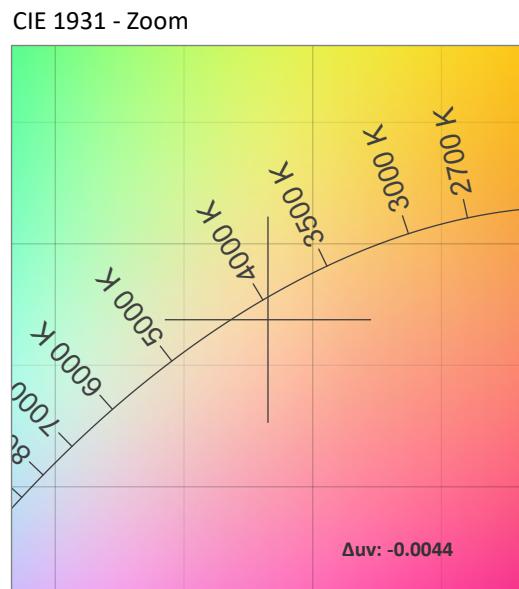
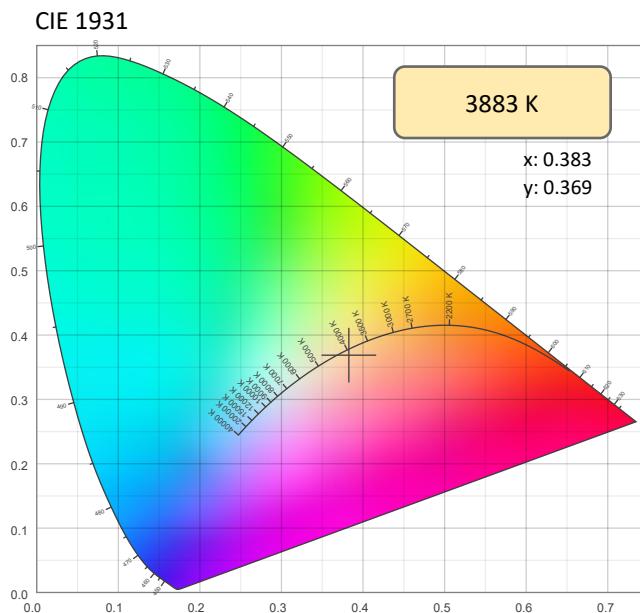
## ISO Diagrams



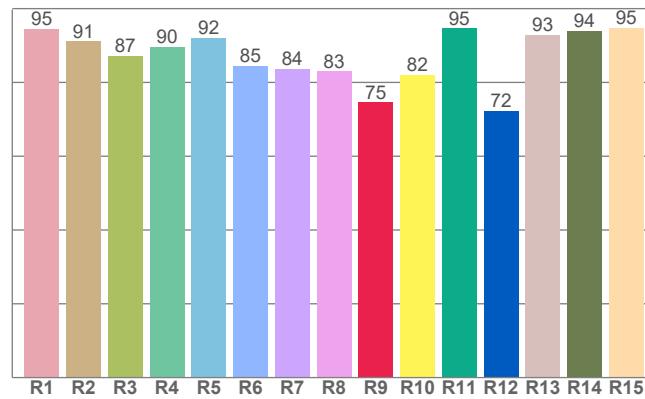
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

## Chromaticity



CRI: 88.2 (R1-R8)

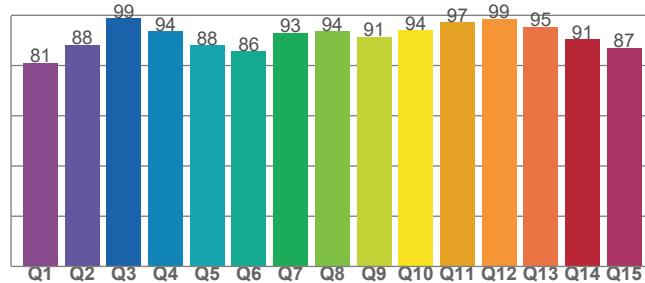


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3883 K	0.383	0.369

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0044	0.369	0.230

CQS: 90.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.2	74.6	90.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	84.2	93.5

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

## TM-30 Details

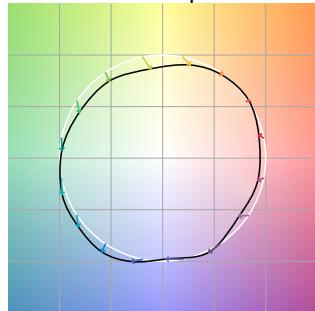
**Rf 84.2**

Fidelity Index  
(Rg)

**Rg 93.5**

Gammut Index (Rg)

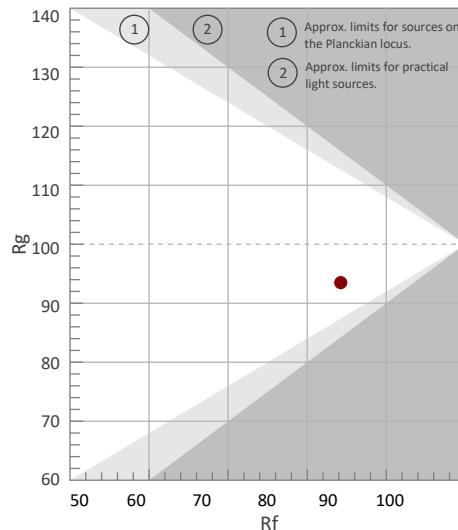
Color Vector Graphic



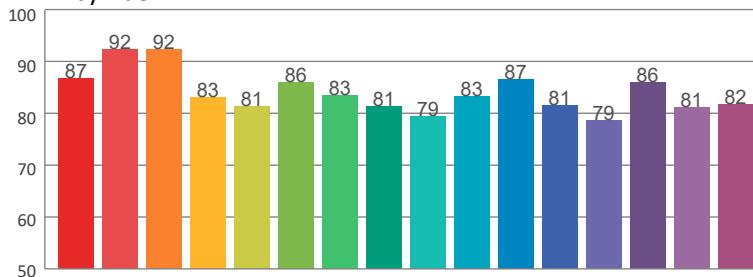
Color Distortion Graphic



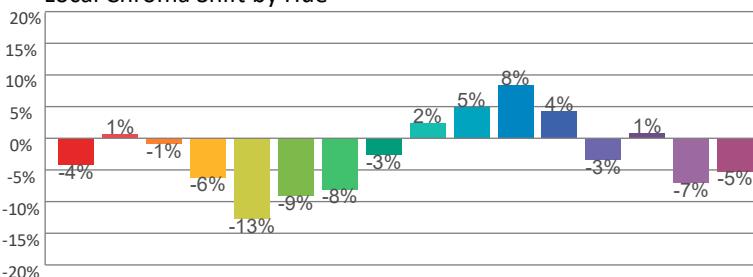
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	87	-4%	4%
2	92	1%	1%
3	92	-1%	-3%
4	83	-6%	-9%
5	81	-13%	-6%
6	86	-9%	1%
7	83	-8%	8%
8	81	-3%	12%
9	79	2%	15%
10	83	5%	9%
11	87	8%	2%
12	81	4%	-10%
13	79	-3%	-16%
14	86	1%	-13%
15	81	-7%	-6%
16	82	-5%	-3%



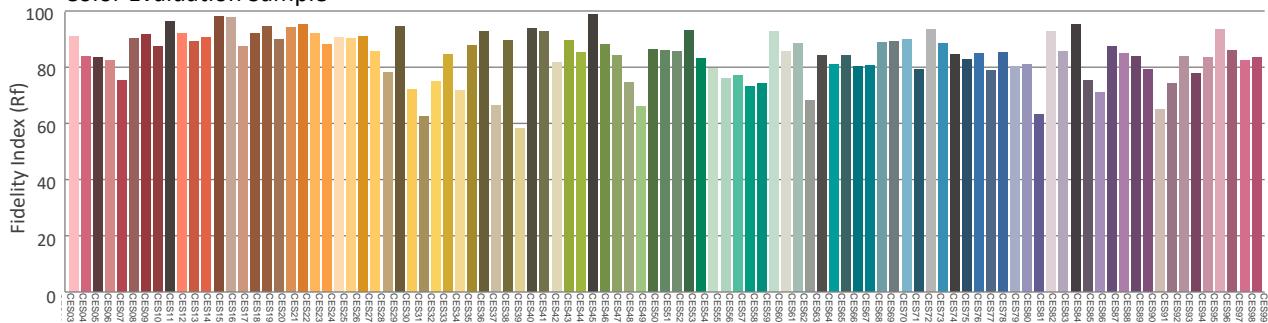
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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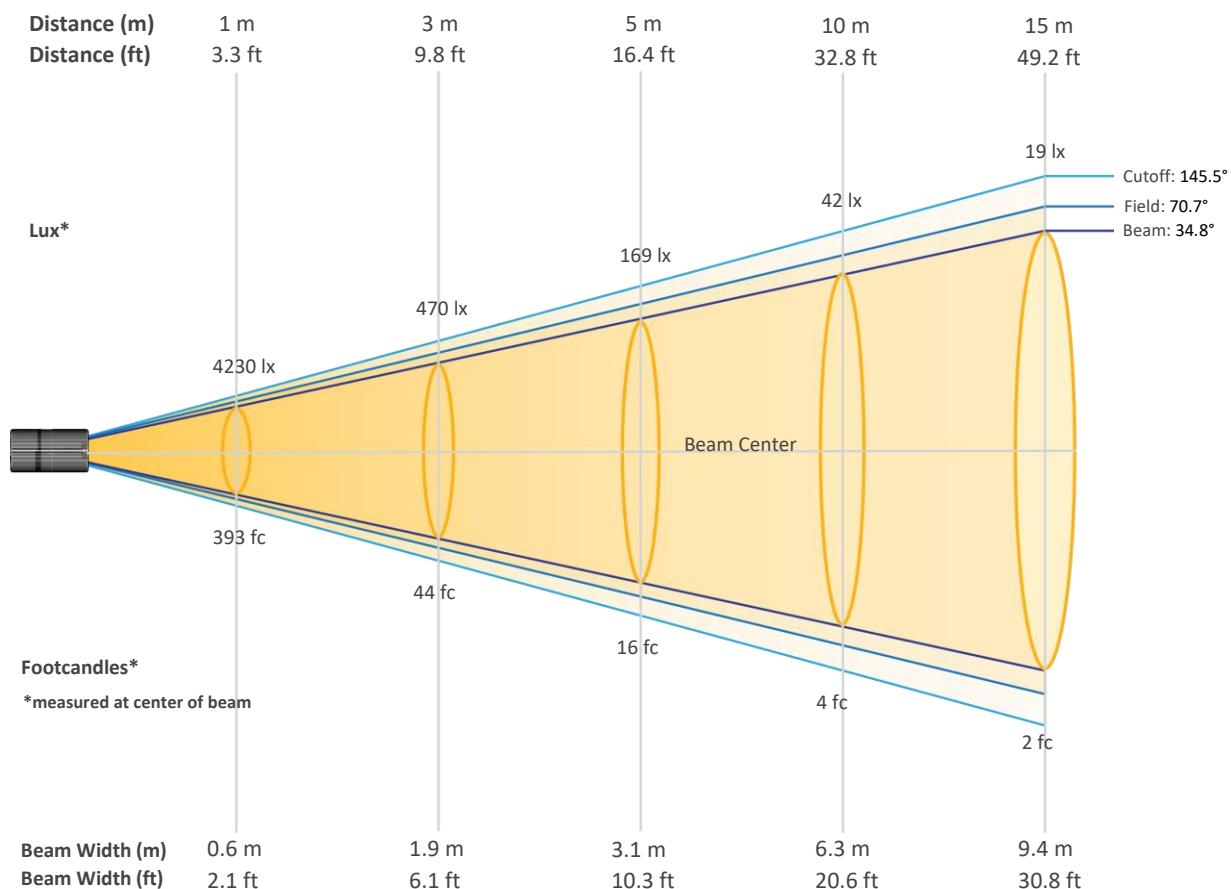
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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K

## Beam Details

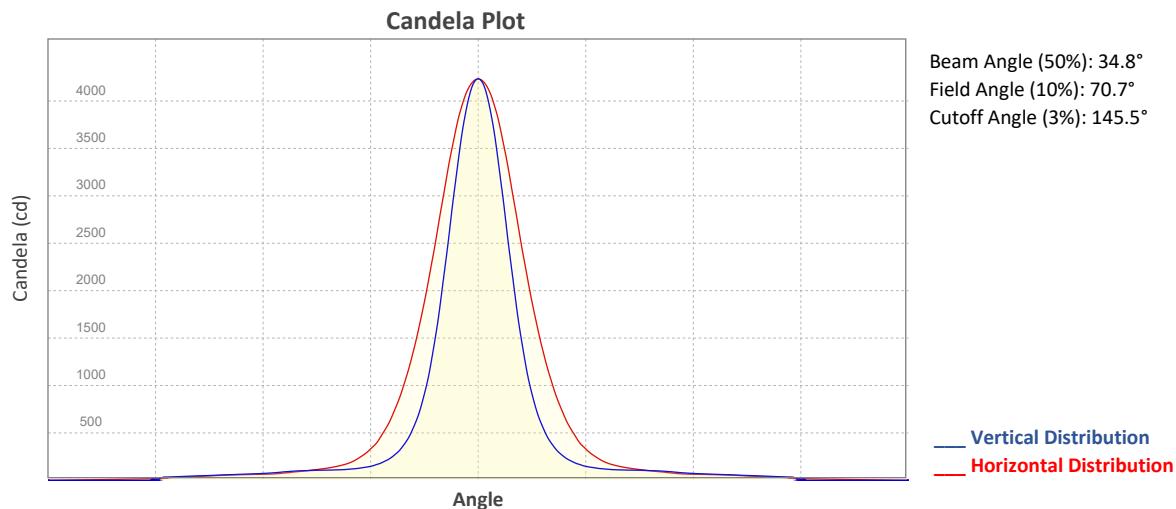


Beam Intensities from 1-20m (3.3-65.6ft)

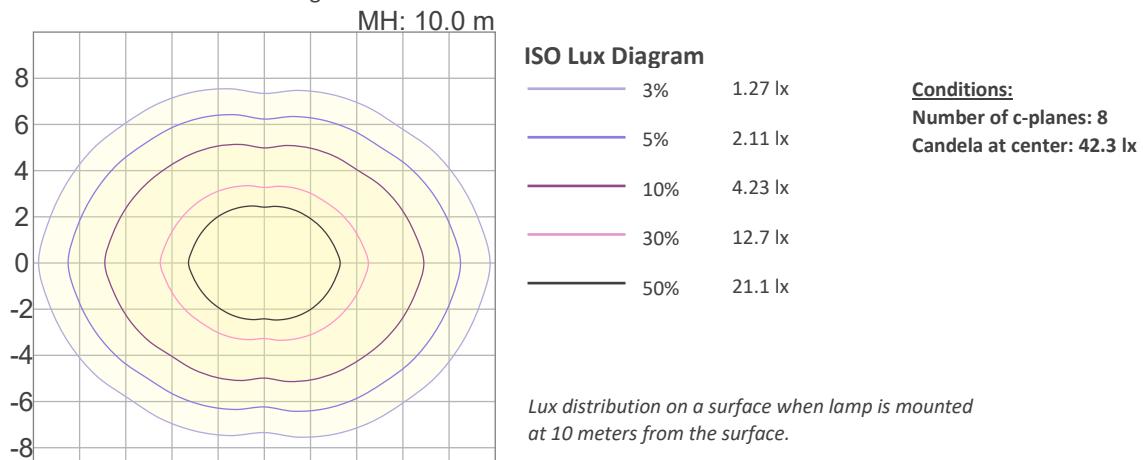
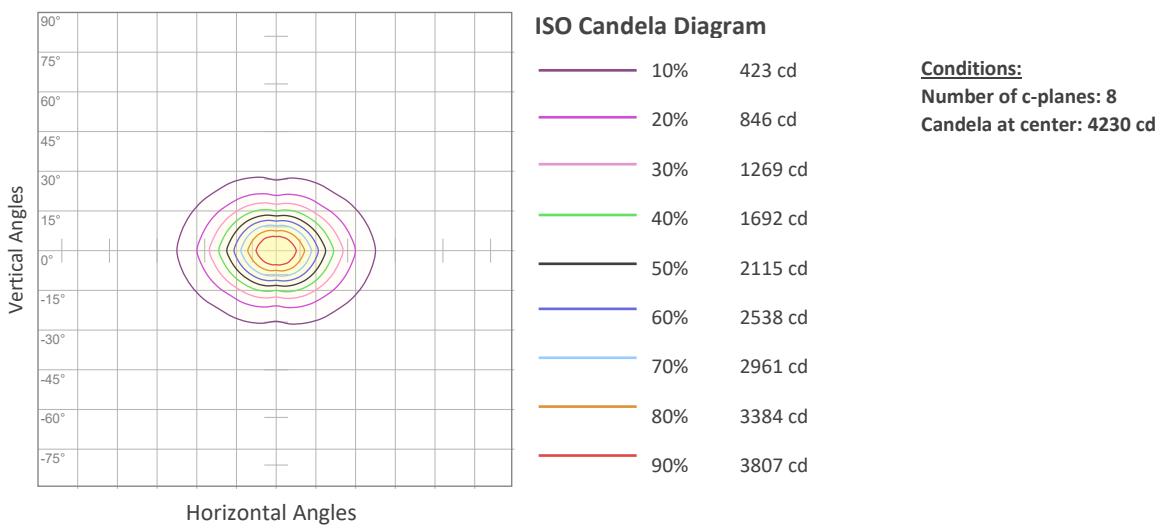
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4230	1057	470	264	169	117	86	66	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	393	98	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K



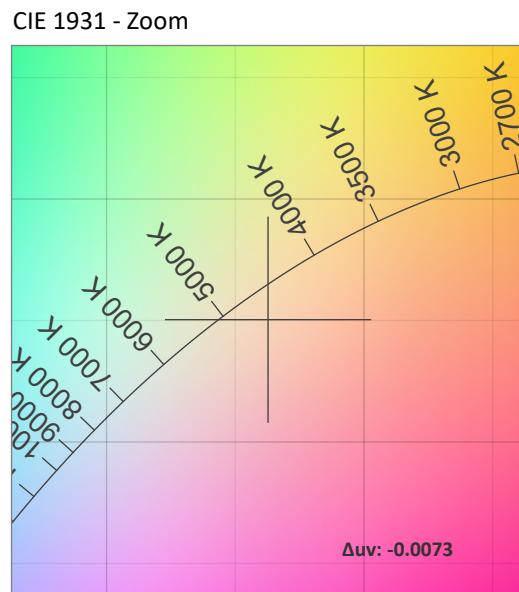
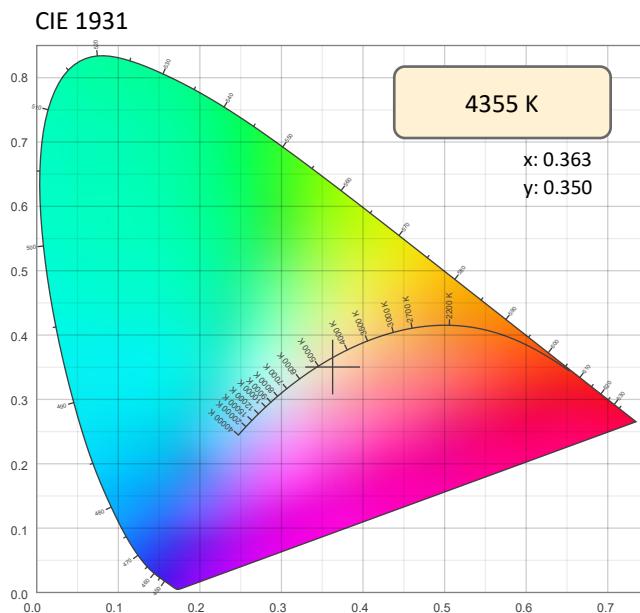
## ISO Diagrams



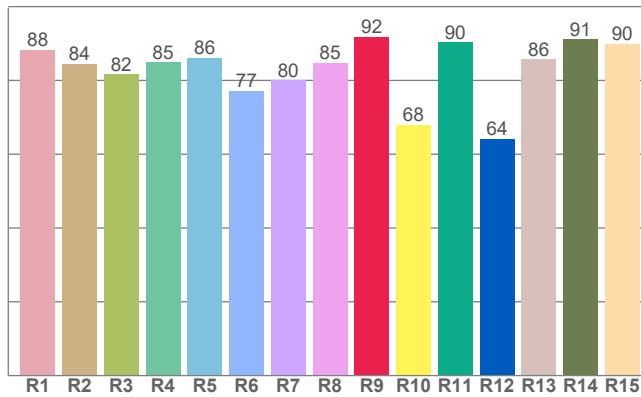
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K

## Chromaticity



CRI: 83.4 (R1-R8)

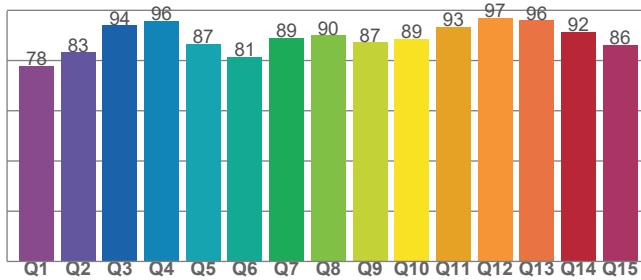


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4355 K	0.363	0.350

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0073	0.350	0.224

CQS: 88.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.4	91.7	88.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	81.2	92.8

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K

## TM-30 Details

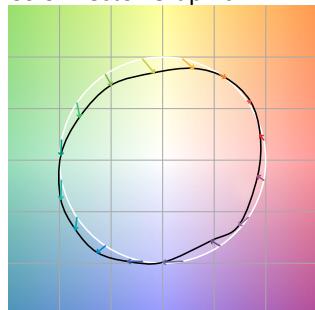
**Rf 81.2**

Fidelity Index  
(Rg)

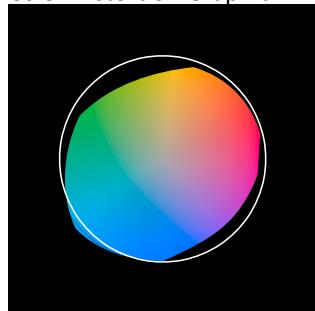
**Rg 92.8**

Gammut Index (Rg)

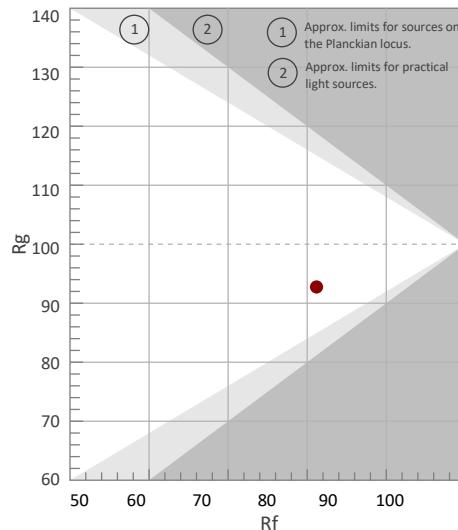
Color Vector Graphic



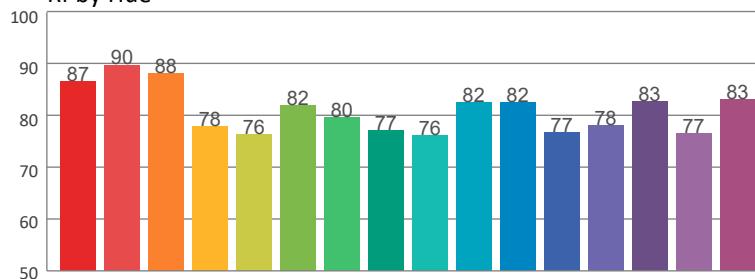
Color Distortion Graphic



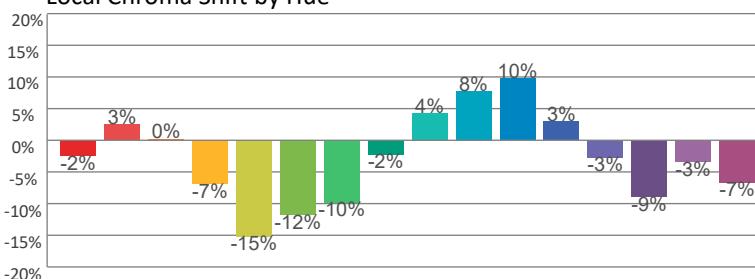
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	87	-2%	5%
2	90	3%	1%
3	88	0%	-6%
4	78	-7%	-12%
5	76	-15%	-8%
6	82	-12%	1%
7	80	-10%	10%
8	77	-2%	14%
9	76	4%	18%
10	82	8%	9%
11	82	10%	-3%
12	77	3%	-14%
13	78	-3%	-19%
14	83	-9%	-4%
15	77	-3%	-11%
16	83	-7%	3%



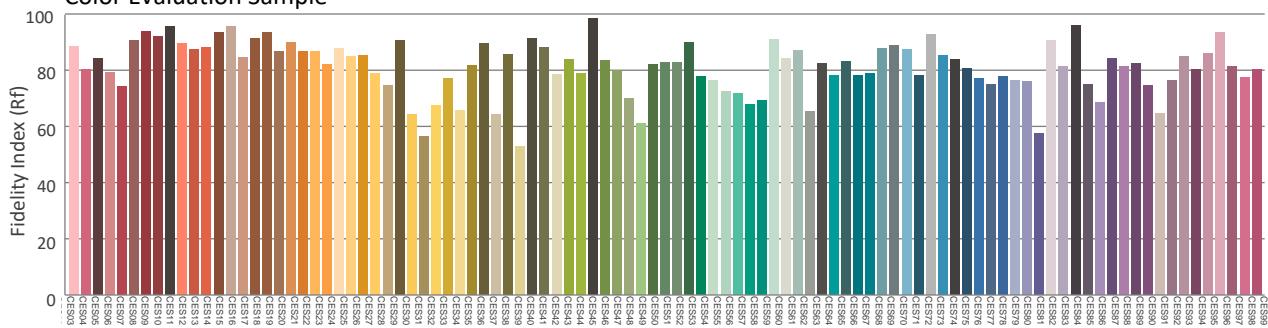
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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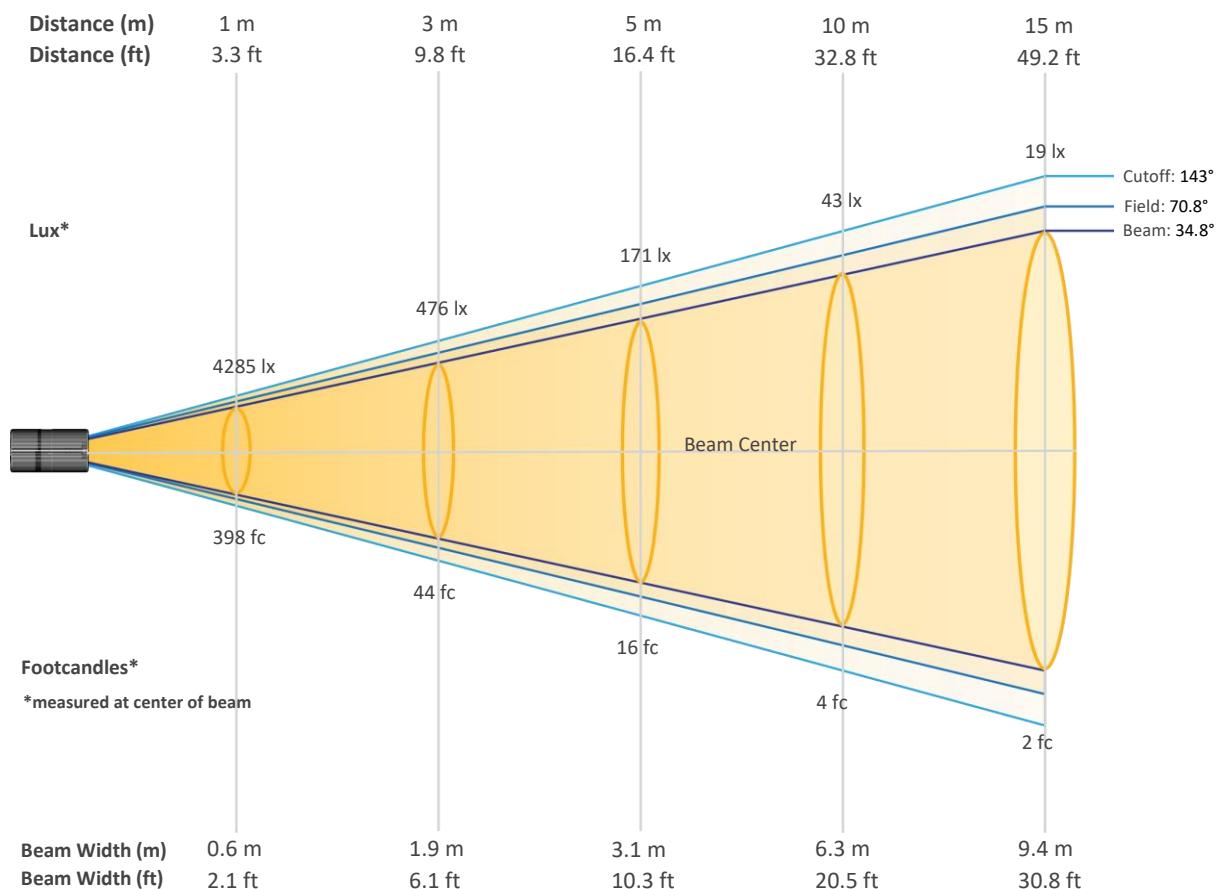
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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K

## Beam Details

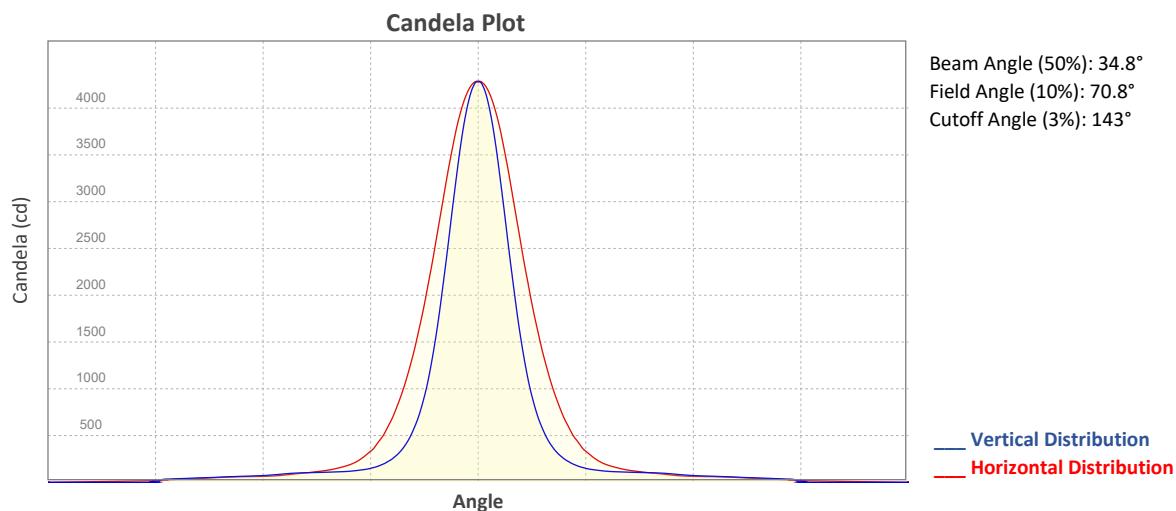


Beam Intensities from 1-20m (3.3-65.6ft)

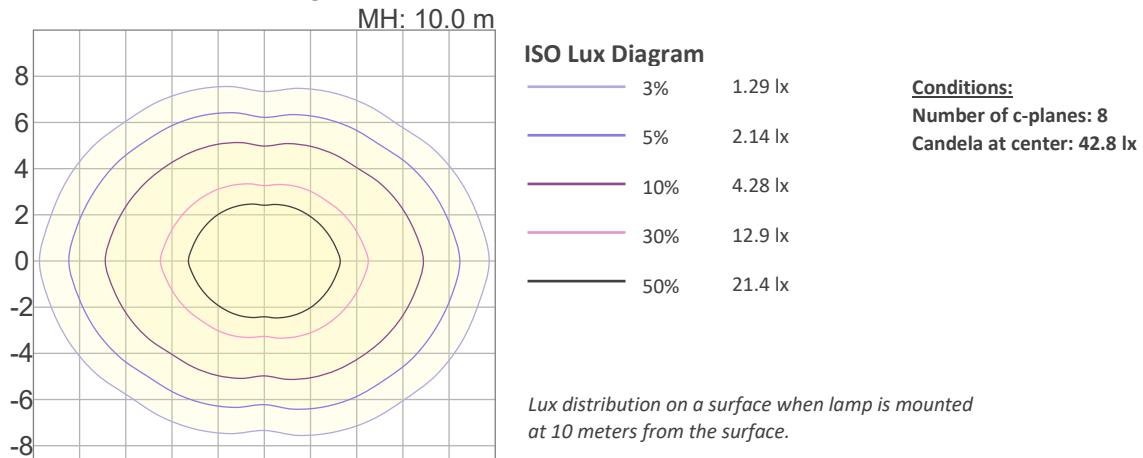
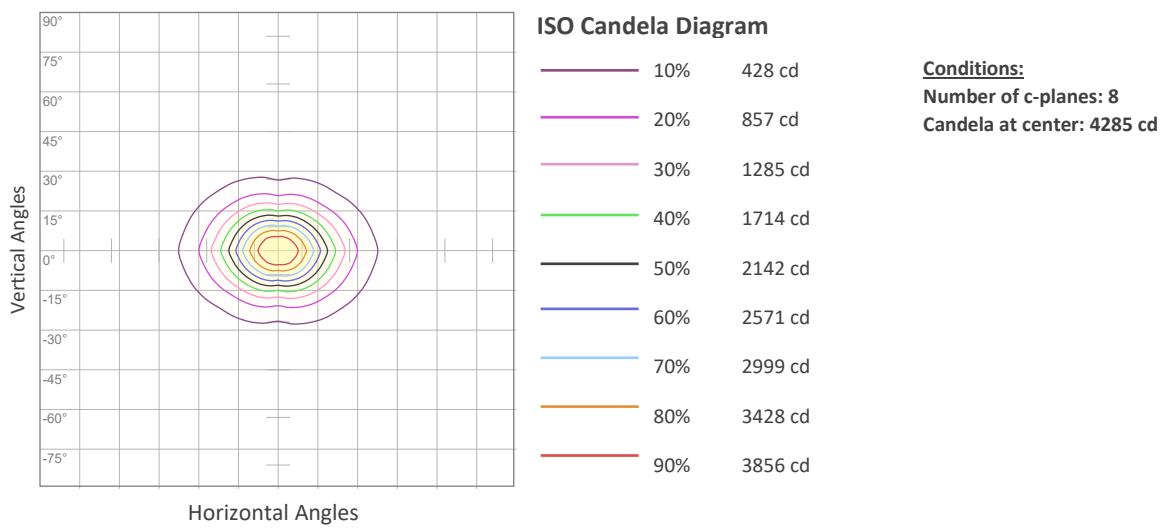
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4285	1071	476	268	171	119	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	398	100	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K



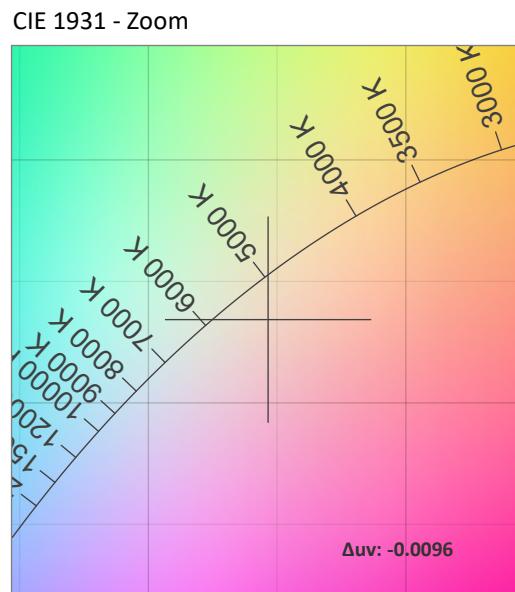
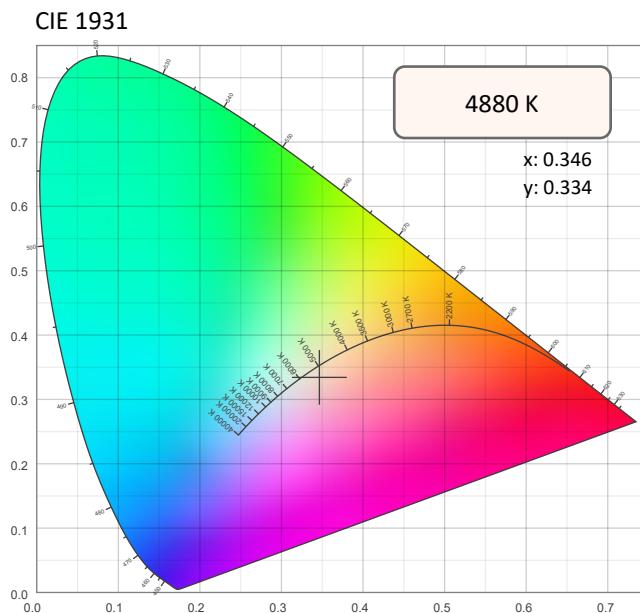
## ISO Diagrams



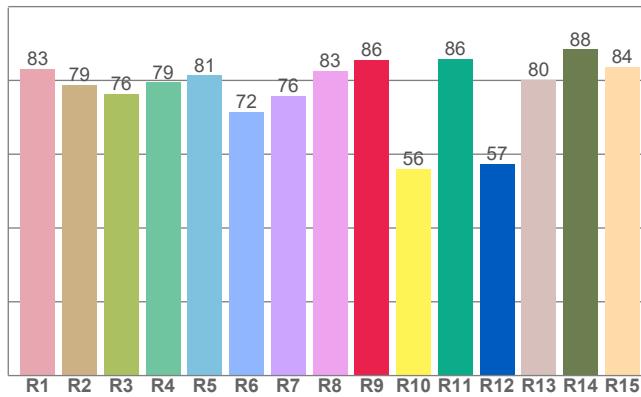
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K

## Chromaticity



CRI: 78.6 (R1-R8)

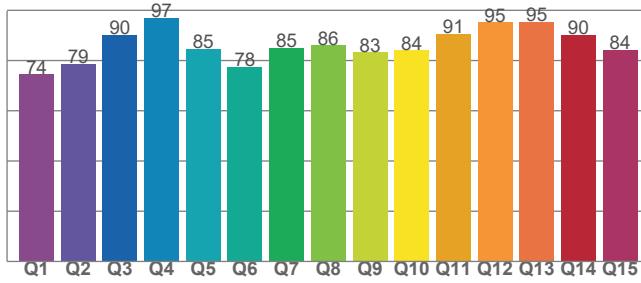


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4880 K	0.346	0.334

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0096	0.334	0.219

CQS: 85.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
78.6	85.6	85.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
85	78.7	92.1

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K

## TM-30 Details

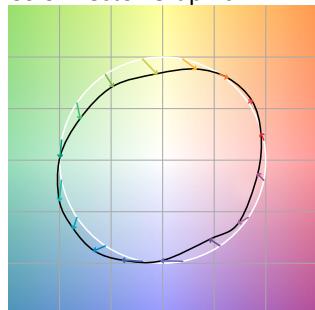
**Rf 78.7**

Fidelity Index  
(Rg)

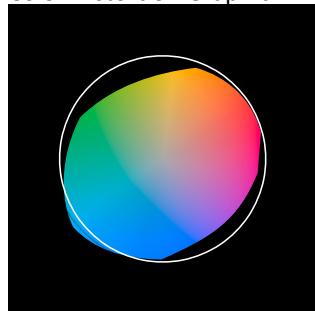
**Rg 92.1**

Gammut Index (Rg)

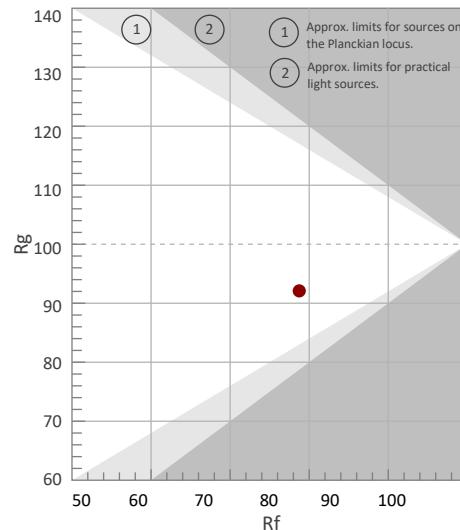
Color Vector Graphic



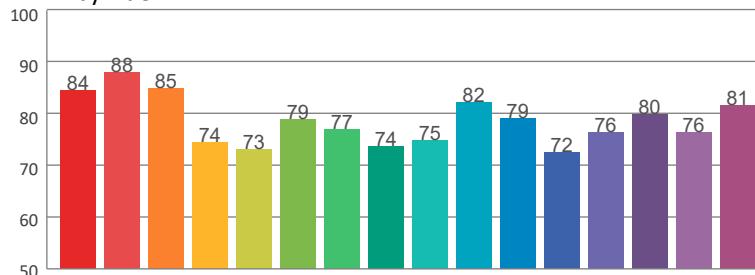
Color Distortion Graphic



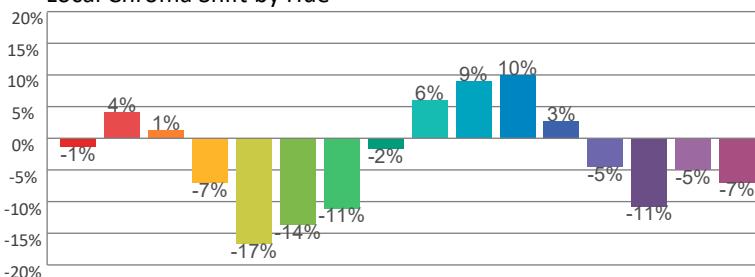
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	84	-1%	7%
2	88	4%	0%
3	85	1%	-8%
4	74	-7%	-14%
5	73	-17%	-11%
6	79	-14%	0%
7	77	-11%	11%
8	74	-2%	17%
9	75	6%	19%
10	82	9%	7%
11	79	10%	-6%
12	72	3%	-19%
13	76	-5%	-20%
14	80	-11%	-5%
15	76	-5%	-10%
16	81	-7%	5%



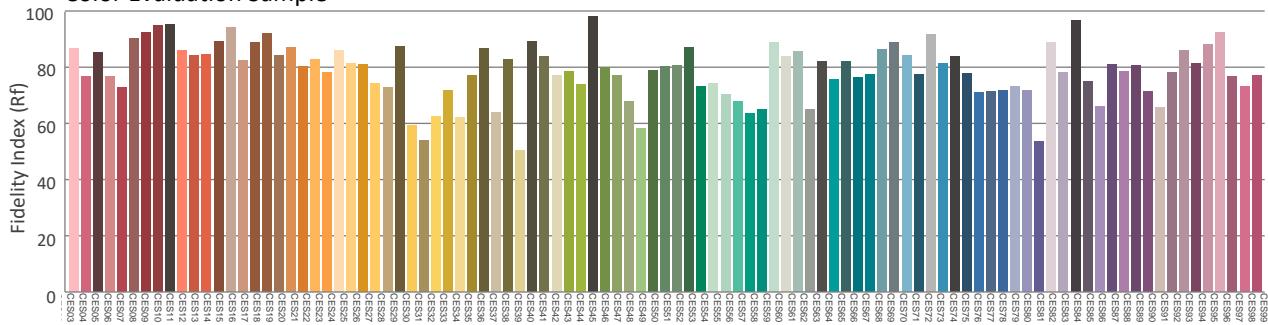
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample

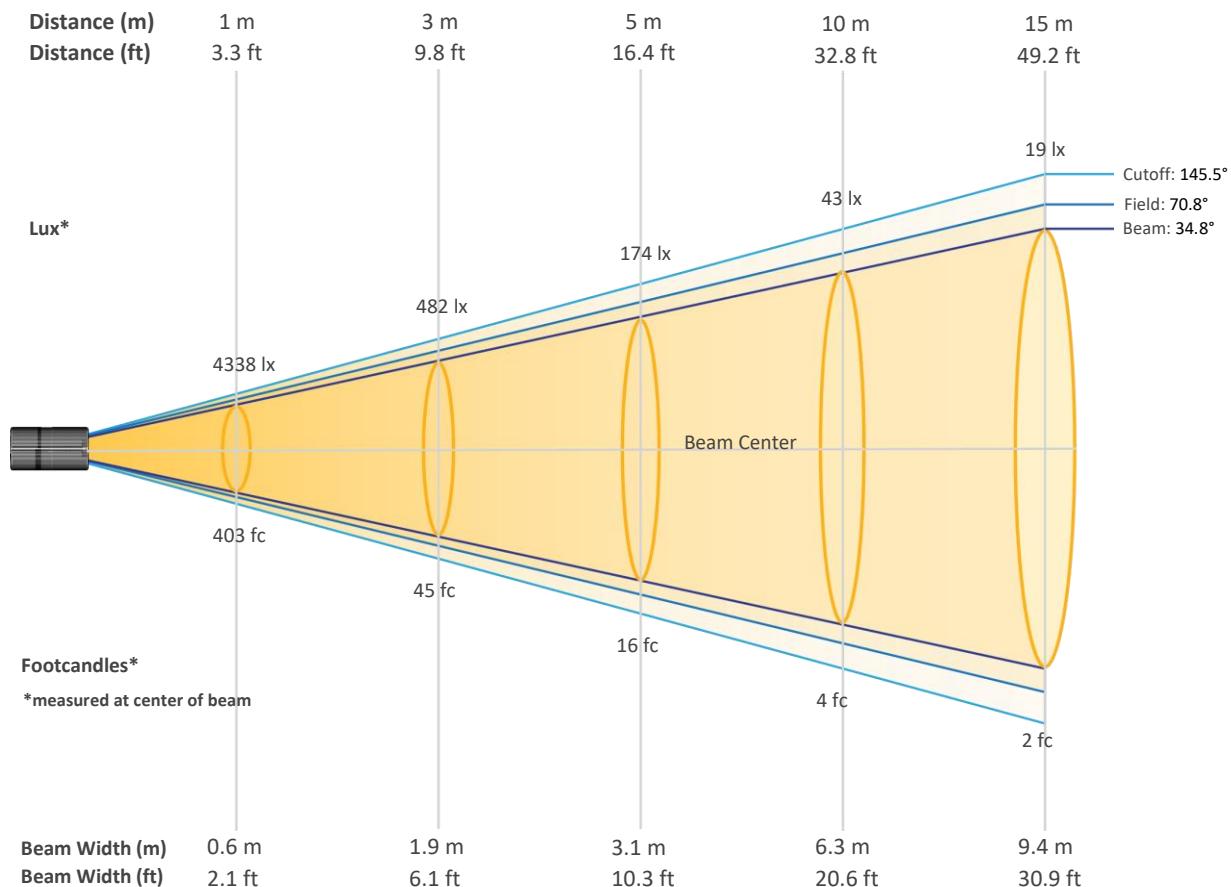




# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K

## Beam Details

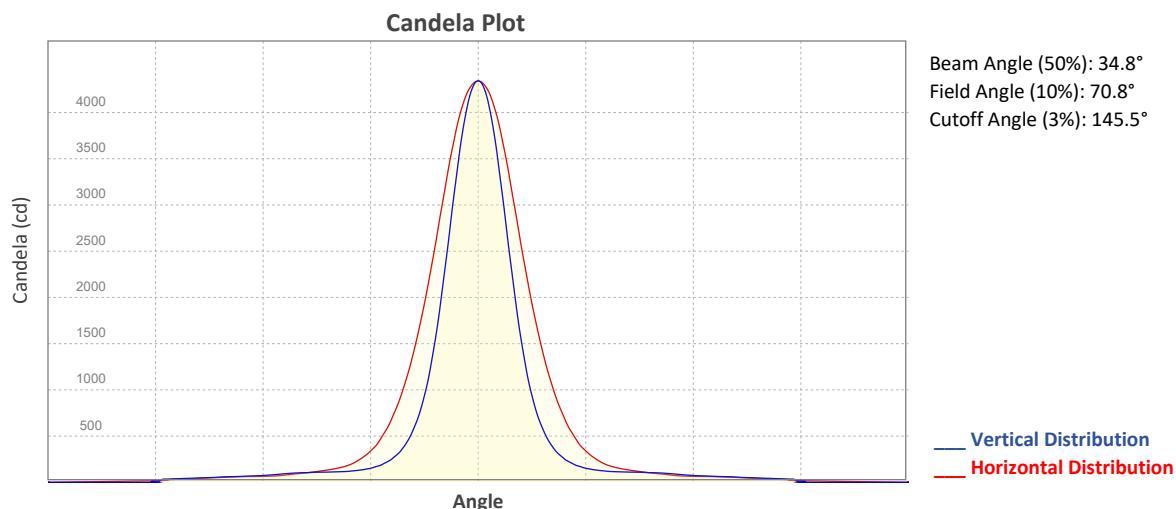


## Beam Intensities from 1-20m (3.3-65.6ft)

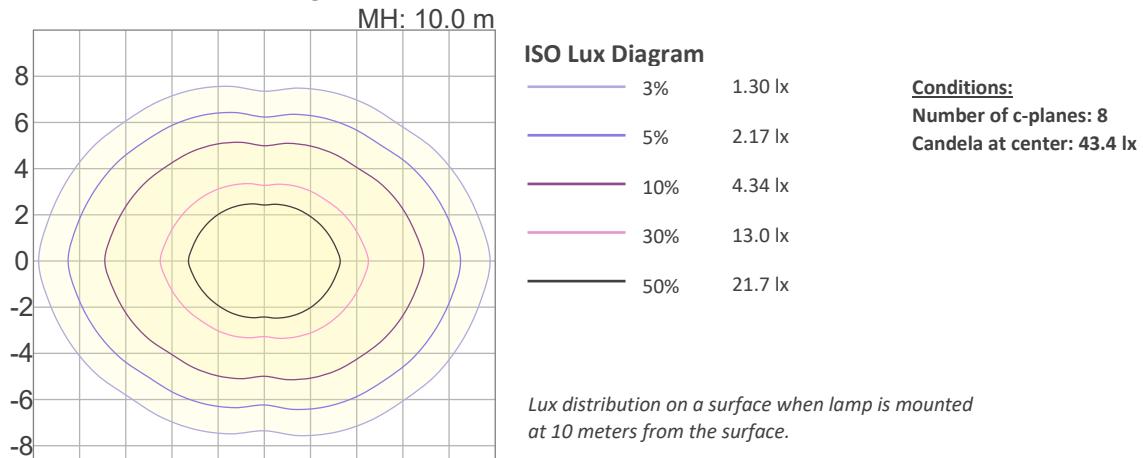
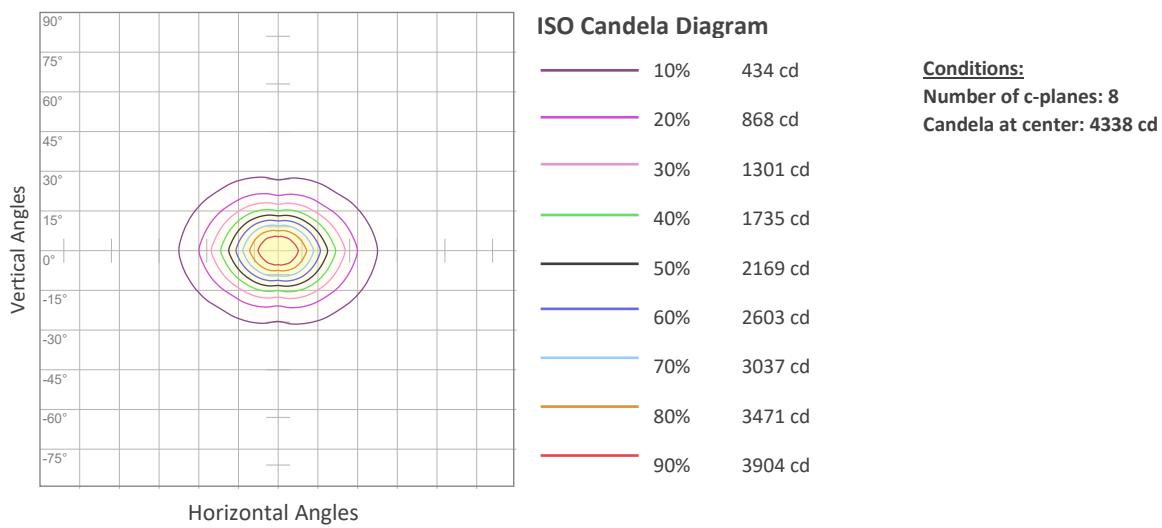
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4338	1085	482	271	174	121	89	68	54	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	36	30	26	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	403	101	45	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K



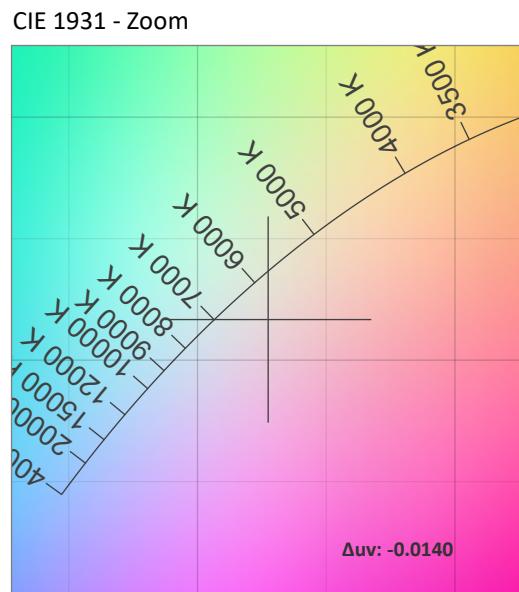
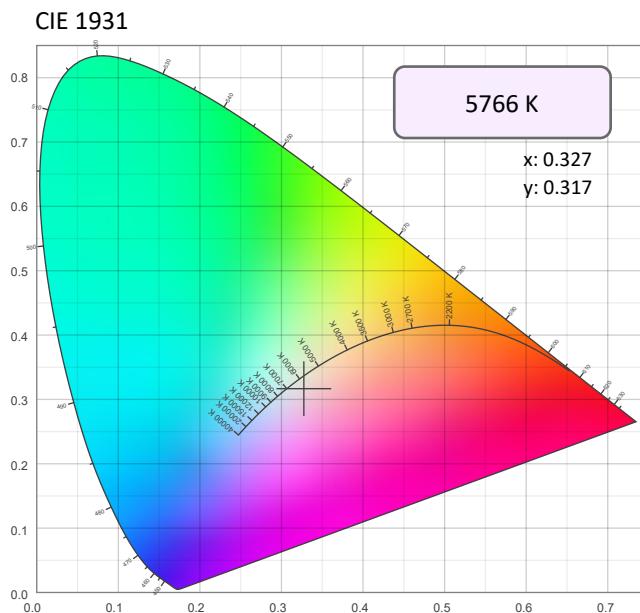
## ISO Diagrams



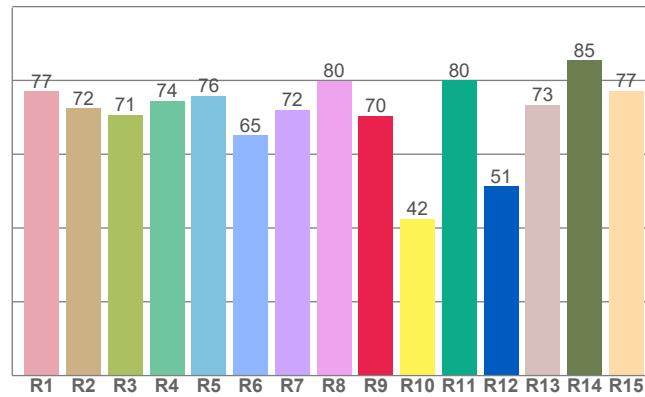
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K

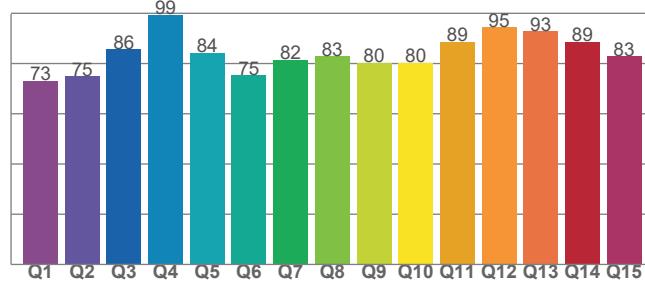
## Chromaticity



CRI: 73.4 (R1-R8)



CQS: 82.8



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5766 K	0.327	0.317

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0140	0.317	0.213

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.4	70.4	82.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
80	74.2	89.9

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K

## TM-30 Details

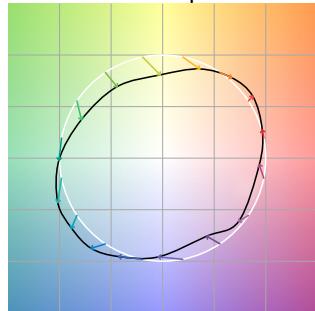
**Rf 74.2**

Fidelity Index  
(Rg)

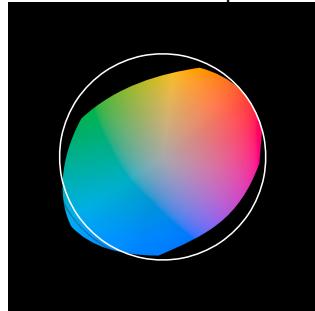
**Rg 89.9**

Gammut Index (Rg)

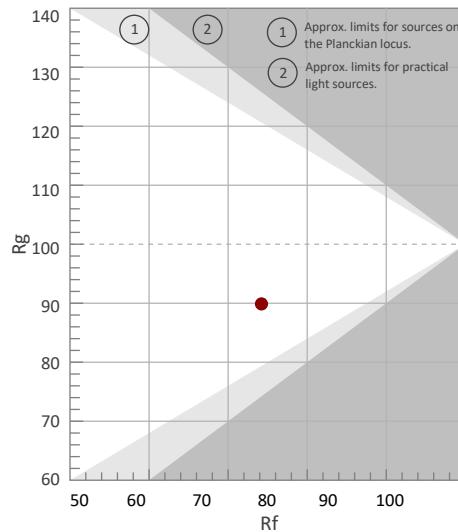
Color Vector Graphic



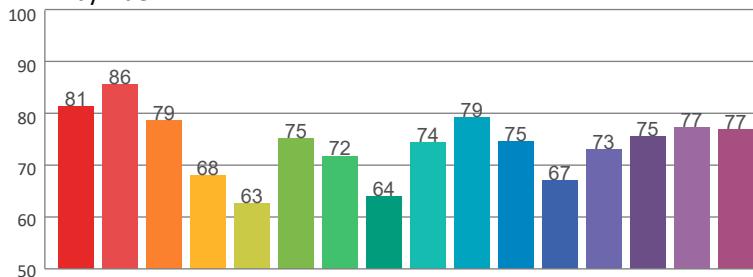
Color Distortion Graphic



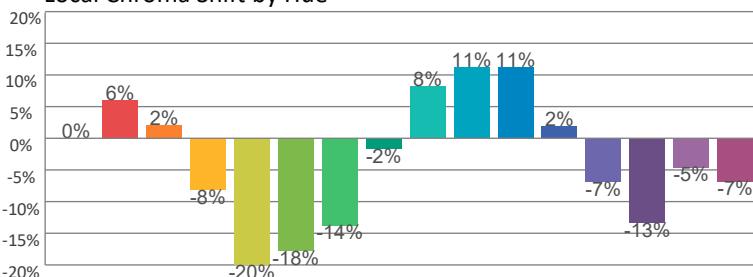
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	0%	8%
2	86	6%	1%
3	79	2%	-12%
4	68	-8%	-18%
5	63	-20%	-13%
6	75	-18%	-2%
7	72	-14%	13%
8	64	-2%	22%
9	74	8%	22%
10	79	11%	7%
11	75	11%	-9%
12	67	2%	-23%
13	73	-7%	-23%
14	75	-13%	-7%
15	77	-5%	-10%
16	77	-7%	12%



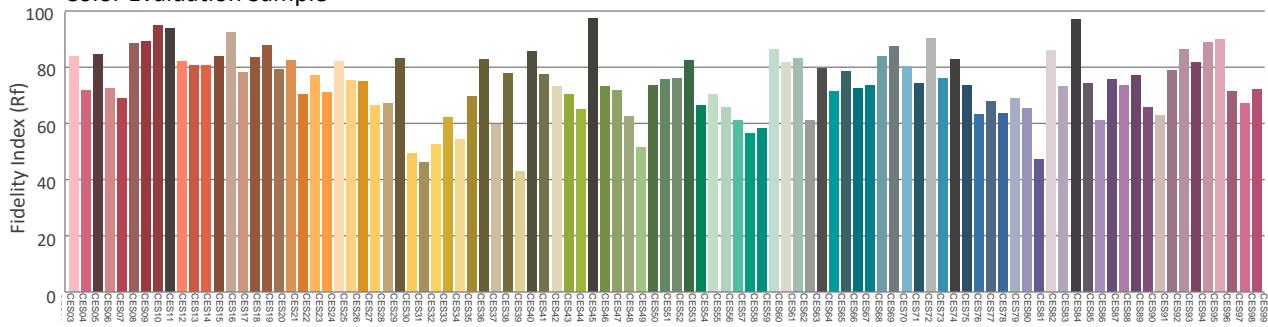
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

## Report Summary

### Measurements

Fixture Output: 2729 lm  
Fixture Peak: 4236 cd  
Fixture Efficacy: 57 lm/W  
Intensity @ 5m: 169 lux  
Color Temperature: 6112 K  
CRI: 70.7 CRI R9 Value: 66.1  
CQS: 81.1

TLCI: 77  
TM-30 Rf: 72.2  
TM-30 Rg: 89.0  
Beam Angle (50%): 35°  
Field Angle (10%): 71°  
Cutoff Angle (20%): 112.5°

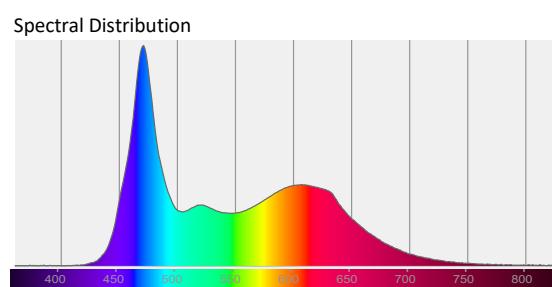
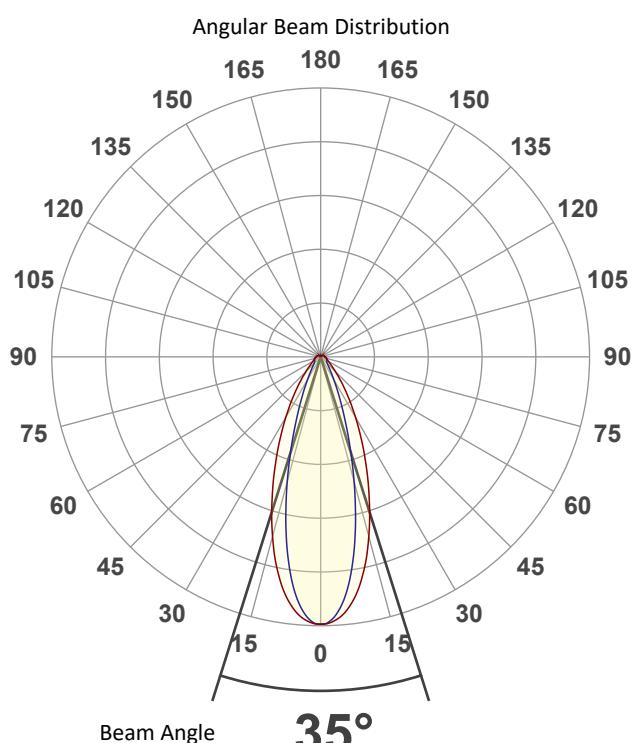
### Conditions

AC Supply: 118 V, 60 Hz  
Power: 50.47 W  
Current: 0.428 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.322  
Y: 0.308

### Light Quality

CRI: 70.7

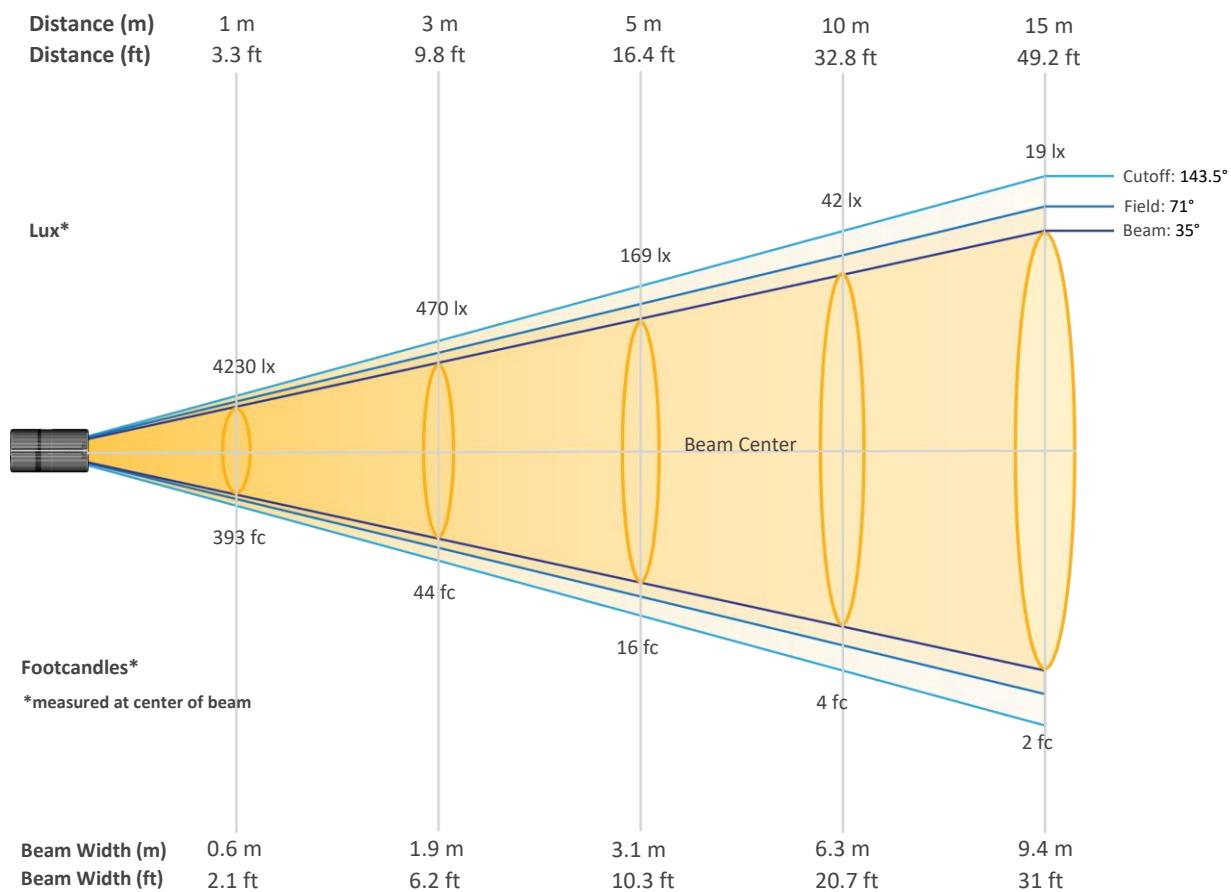
### Color Temperature

6112 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

## Beam Details

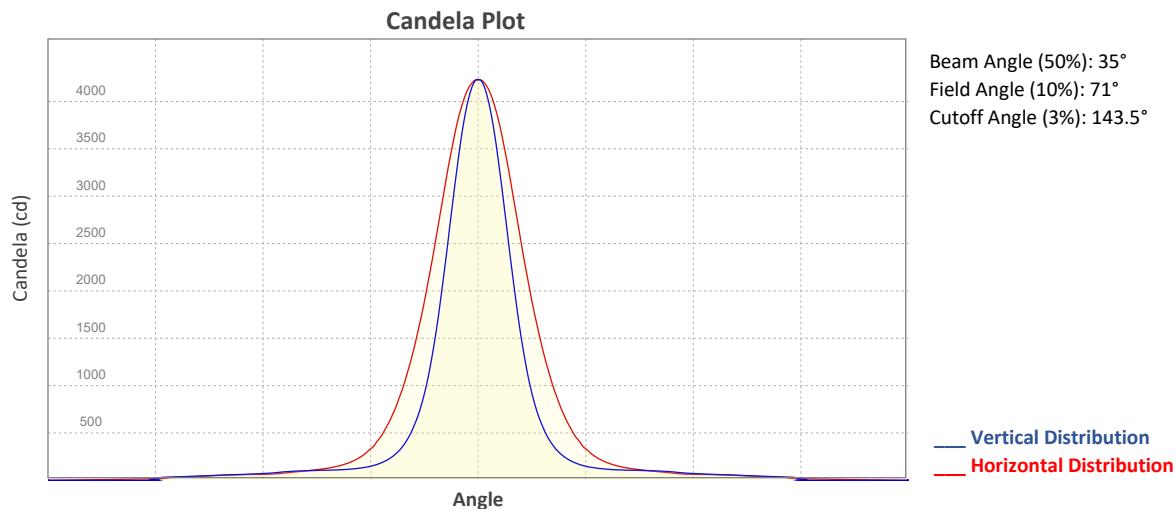


Beam Intensities from 1-20m (3.3-65.6ft)

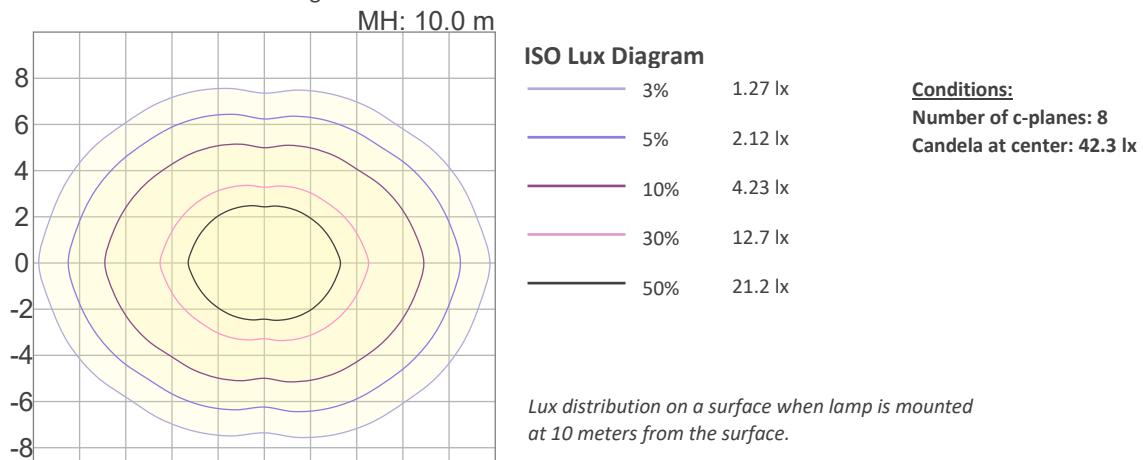
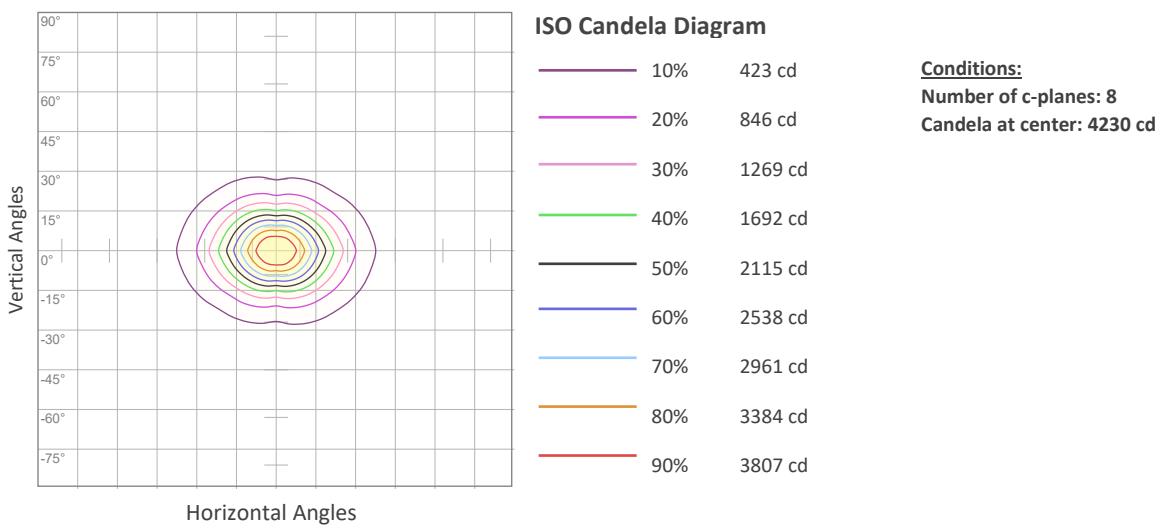
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4230	1058	470	264	169	118	86	66	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	393	98	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K



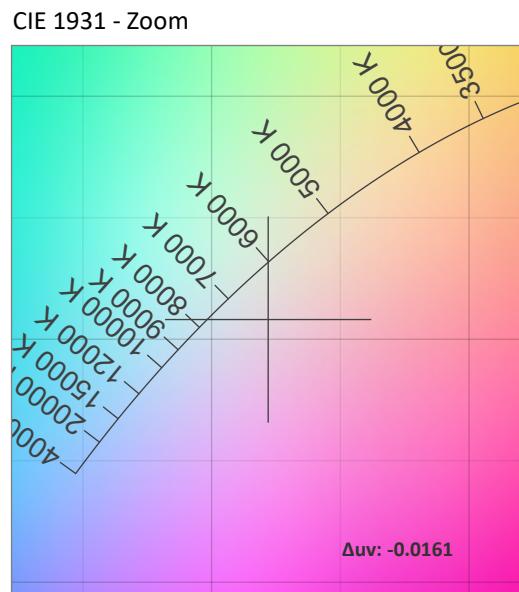
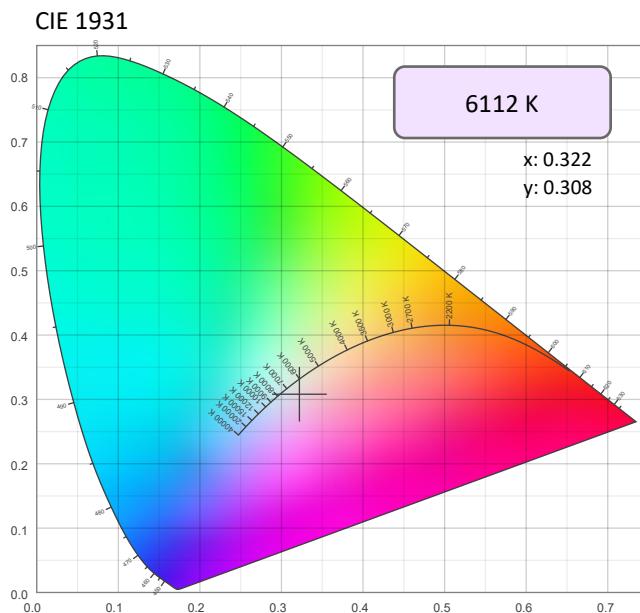
## ISO Diagrams



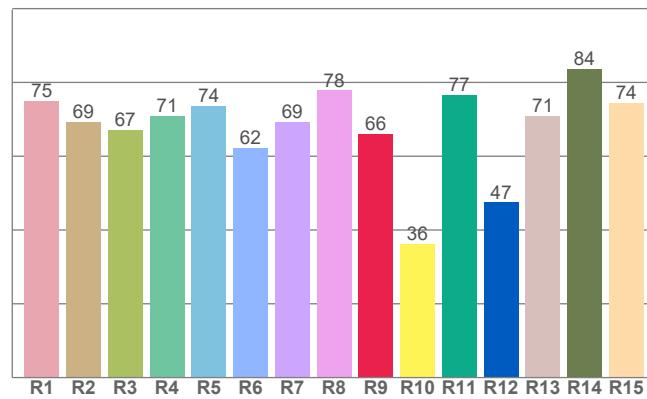
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

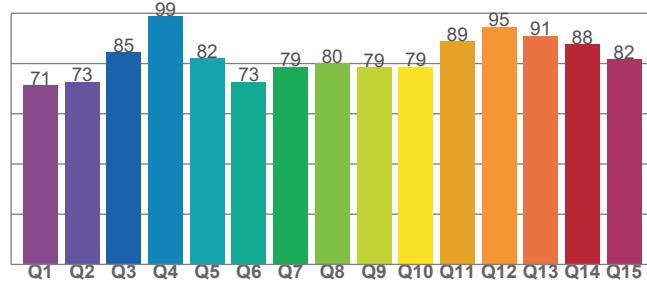
## Chromaticity



CRI: 70.7 (R1-R8)



CQS: 81.1



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6112 K	0.322	0.308

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0161	0.308	0.213

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.7	66.1	81.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	72.2	89.0

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

## TM-30 Details

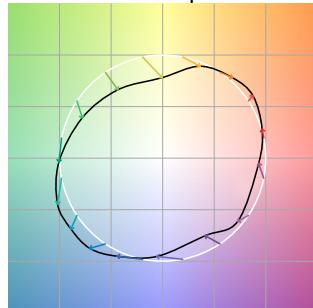
**Rf 72.2**

Fidelity Index  
(Rg)

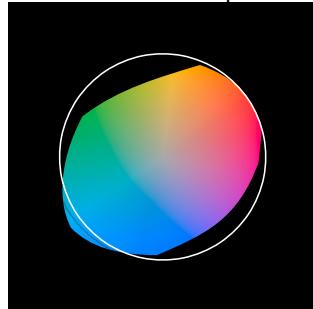
**Rg 89.0**

Gammut Index (Rg)

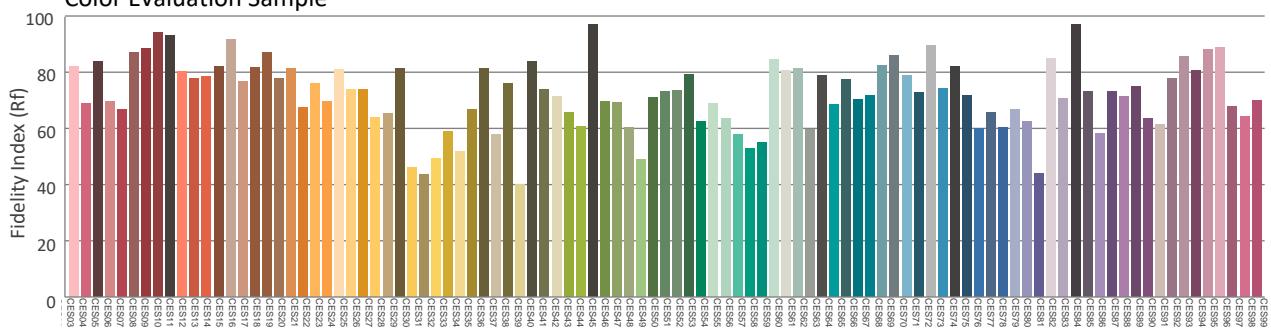
Color Vector Graphic



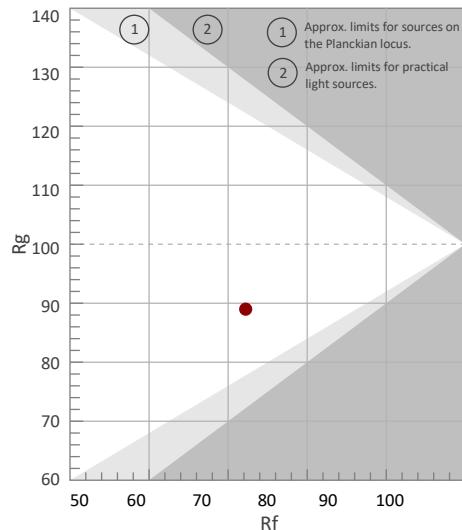
Color Distortion Graphic



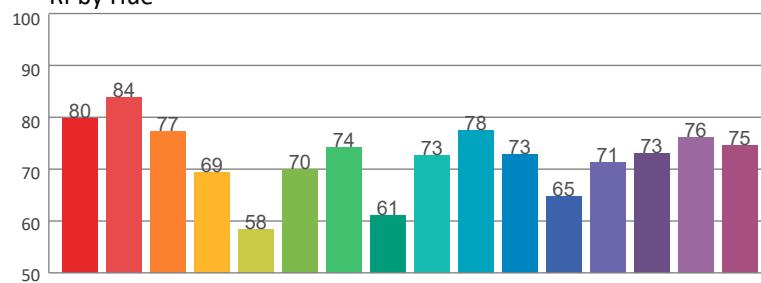
Color Evaluation Sample



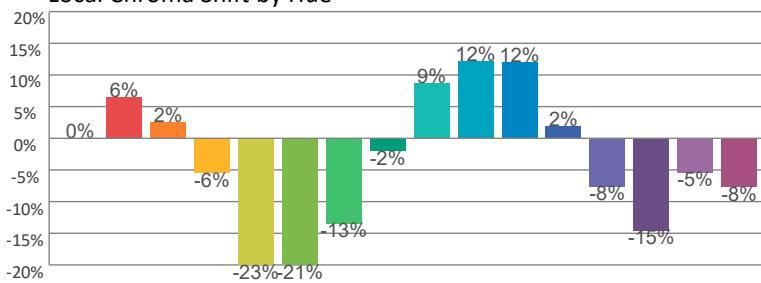
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	80	0%	9%
2	84	6%	2%
3	77	2%	-13%
4	69	-6%	-18%
5	58	-23%	-15%
6	70	-21%	-1%
7	74	-13%	11%
8	61	-2%	23%
9	73	9%	24%
10	78	12%	8%
11	73	12%	-10%
12	65	2%	-25%
13	71	-8%	-24%
14	73	-15%	-7%
15	76	-5%	-11%
16	75	-8%	13%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

## Report Summary

### Measurements

Fixture Output: 2745 lm  
Fixture Peak: 4262 cd  
Fixture Efficacy: 56 lm/W  
Intensity @ 5m: 170 lux  
Color Temperature: 6797 K  
CRI: 66.3 CRI R9 Value: 50.8  
CQS: 78.4

TLCI: 72  
TM-30 Rf: 69.0  
TM-30 Rg: 88.2  
Beam Angle (50%): 35°  
Field Angle (10%): 71°  
Cutoff Angle (20%): 117.8°

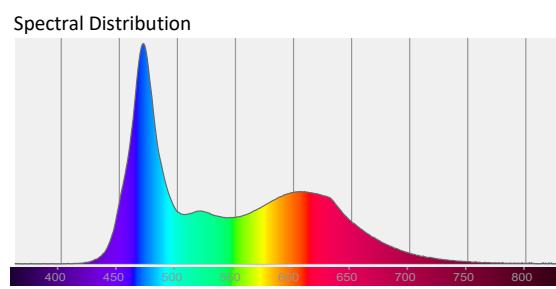
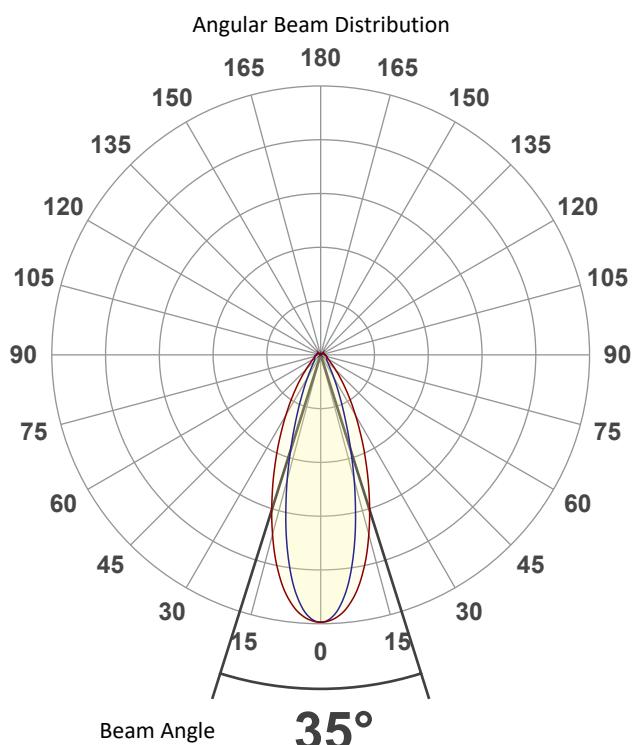
### Conditions

AC Supply: 119 V, 60 Hz  
Power: 51.92 W  
Current: 0.437 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.313  
Y: 0.297

### Light Quality

CRI: 66.3

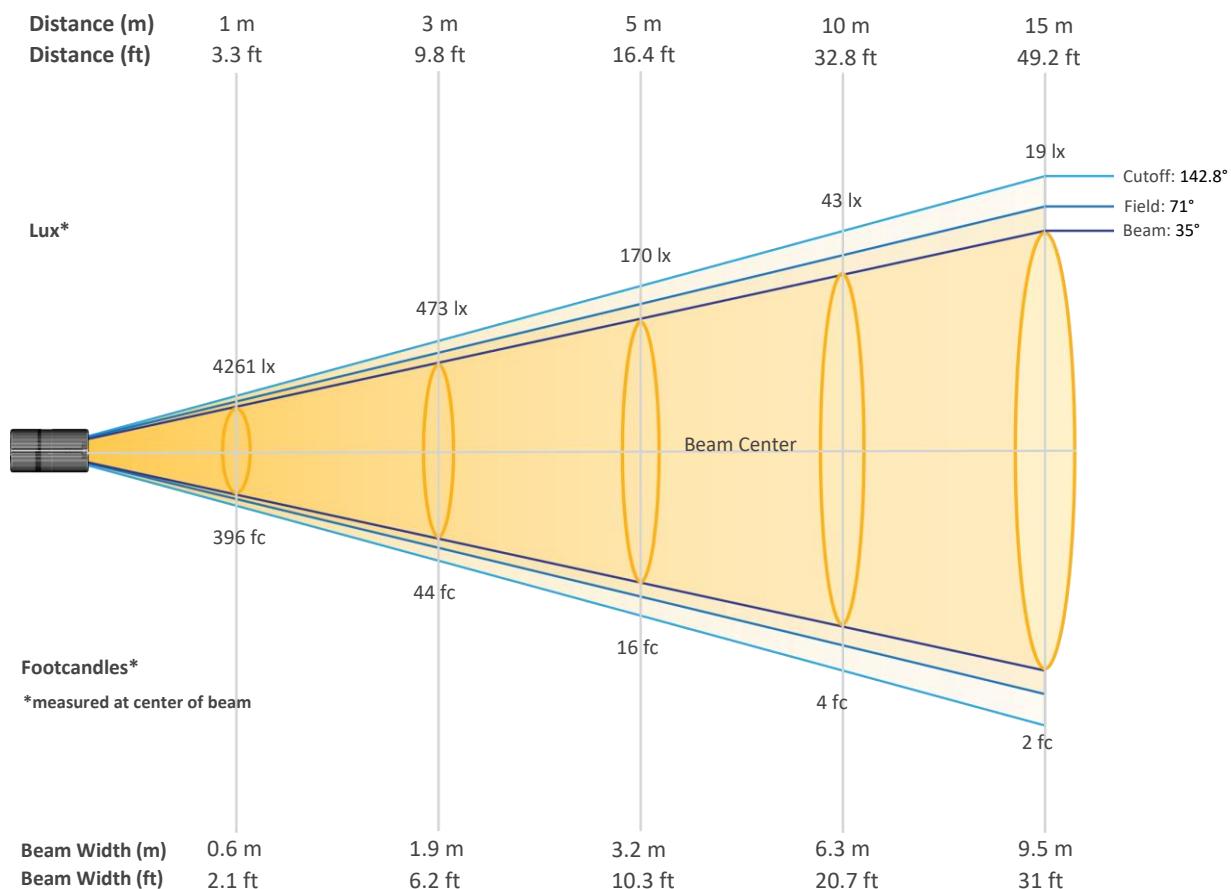
### Color Temperature

6797 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

## Beam Details

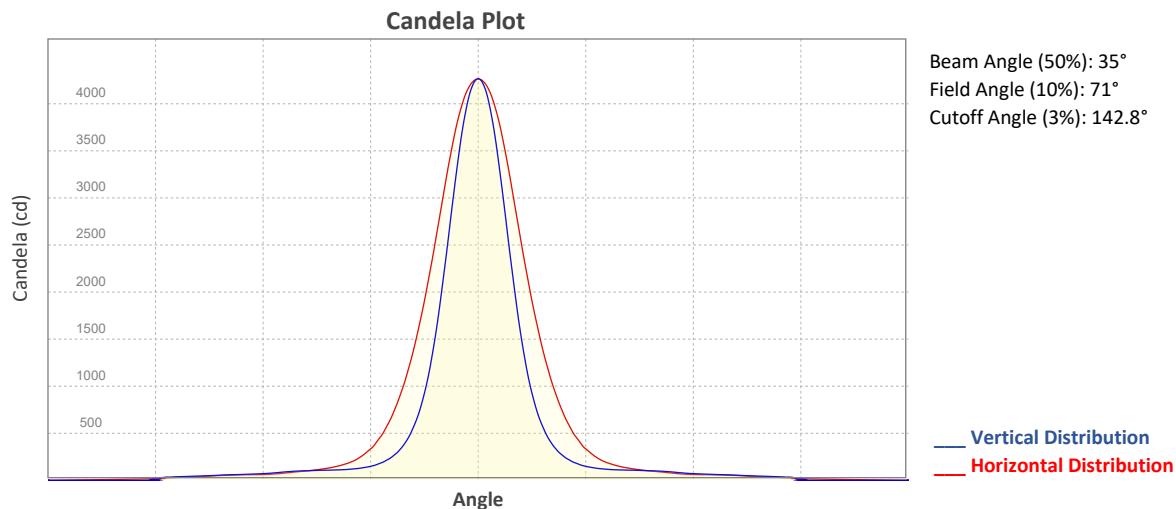


Beam Intensities from 1-20m (3.3-65.6ft)

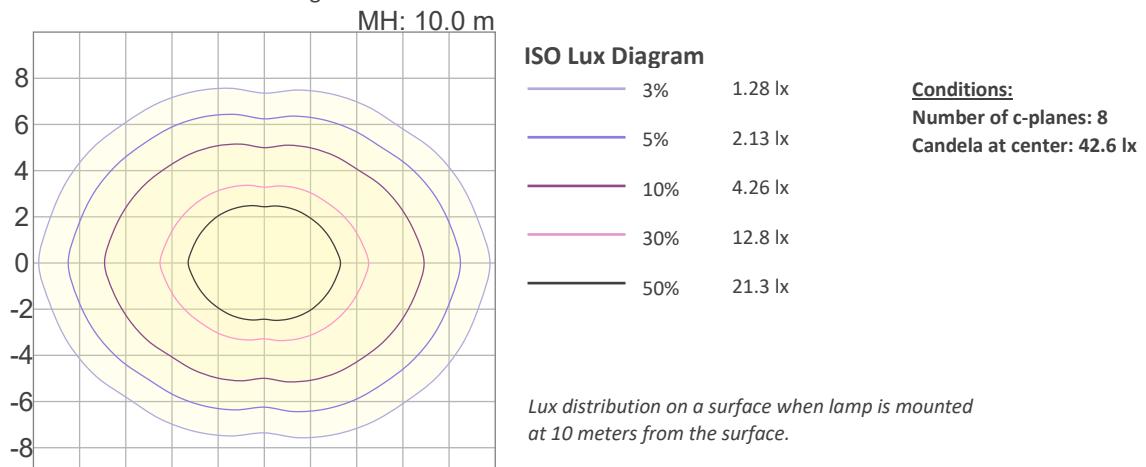
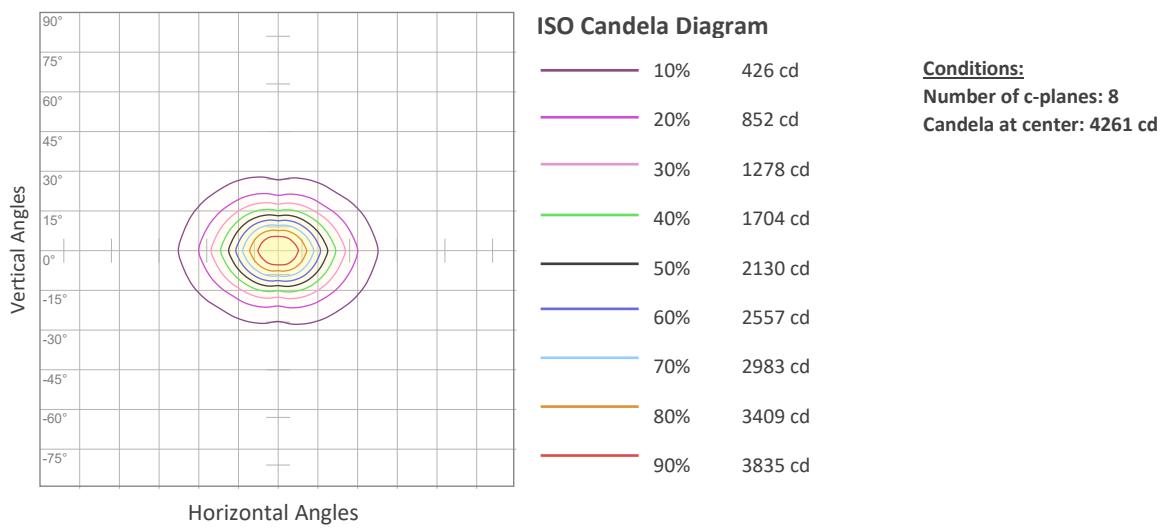
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4261	1065	473	266	170	118	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	396	99	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K



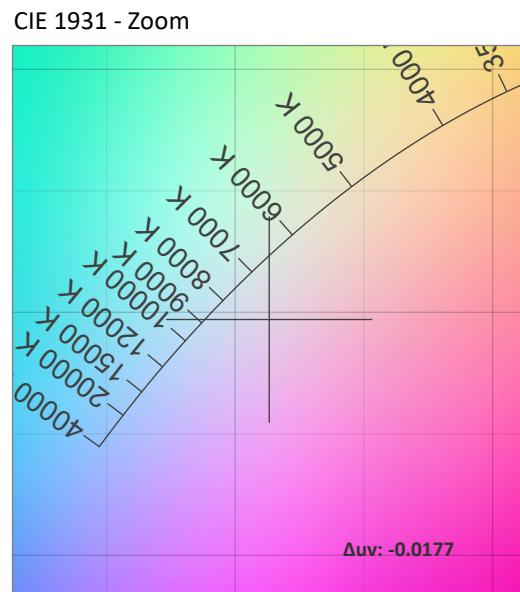
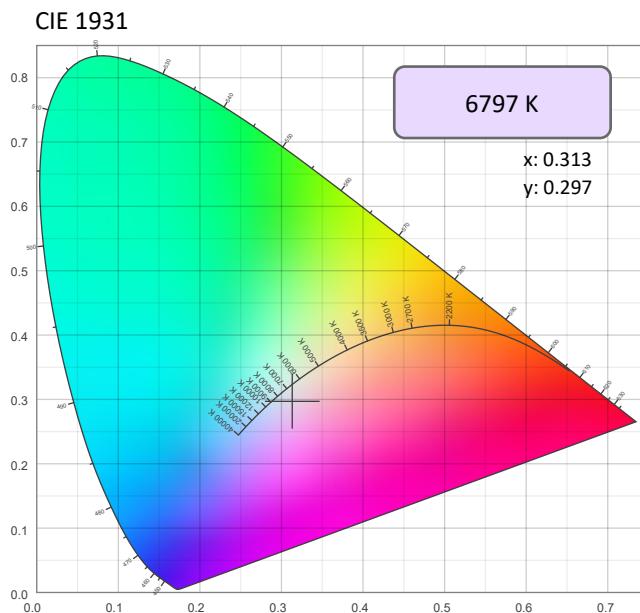
## ISO Diagrams



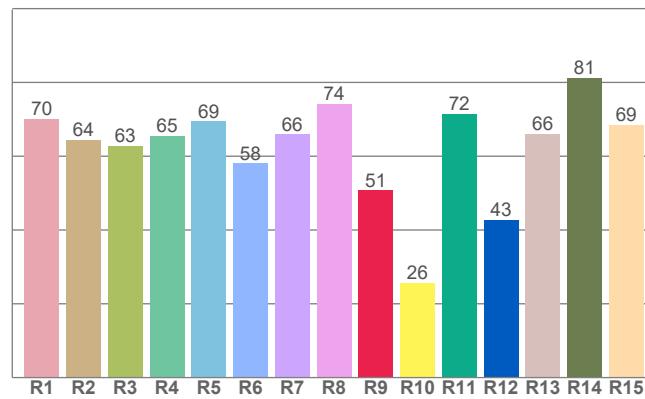
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

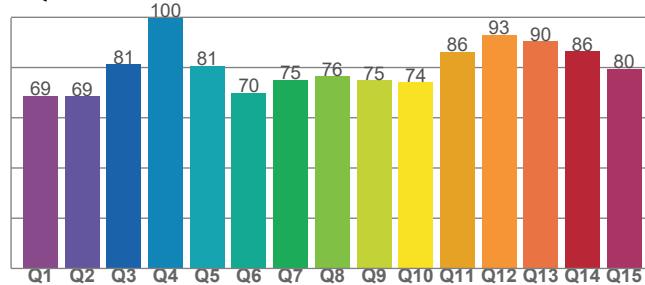
## Chromaticity



CRI: 66.3 (R1-R8)



CQS: 78.4



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6797 K	0.313	0.297

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0177	0.297	0.211

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
66.3	50.8	78.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	69.0	88.2

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

## TM-30 Details

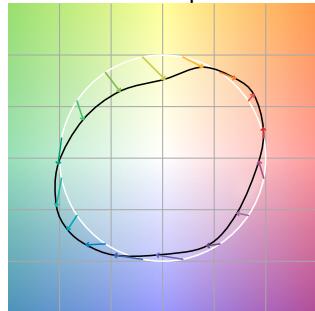
**Rf 69.0**

Fidelity Index  
(Rg)

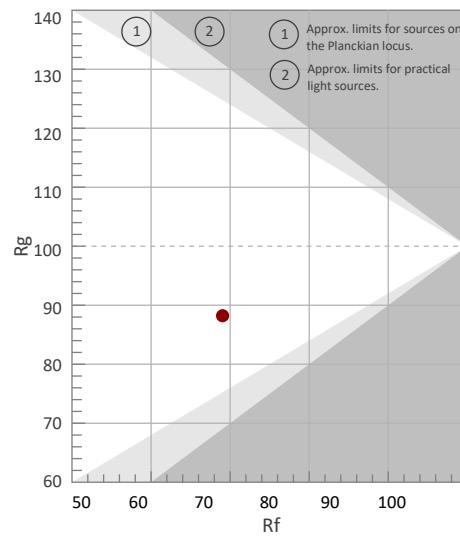
**Rg 88.2**

Gammut Index (Rg)

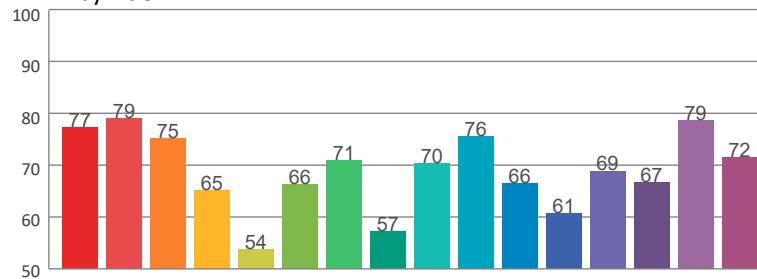
Color Vector Graphic



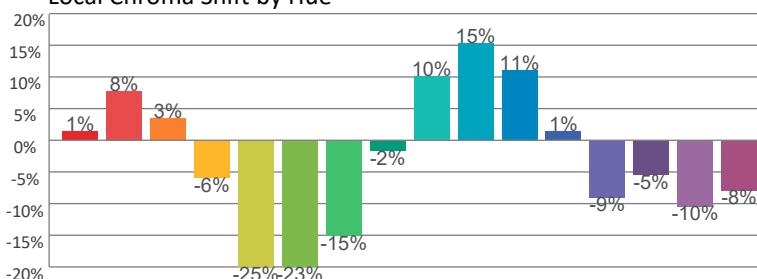
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	77	1%	10%
2	79	8%	2%
3	75	3%	-16%
4	65	-6%	-21%
5	54	-25%	-17%
6	66	-23%	-1%
7	71	-15%	12%
8	57	-2%	26%
9	70	10%	25%
10	76	15%	6%
11	66	11%	-15%
12	61	1%	-27%
13	69	-9%	-24%
14	67	-5%	-12%
15	79	-10%	-4%
16	72	-8%	15%



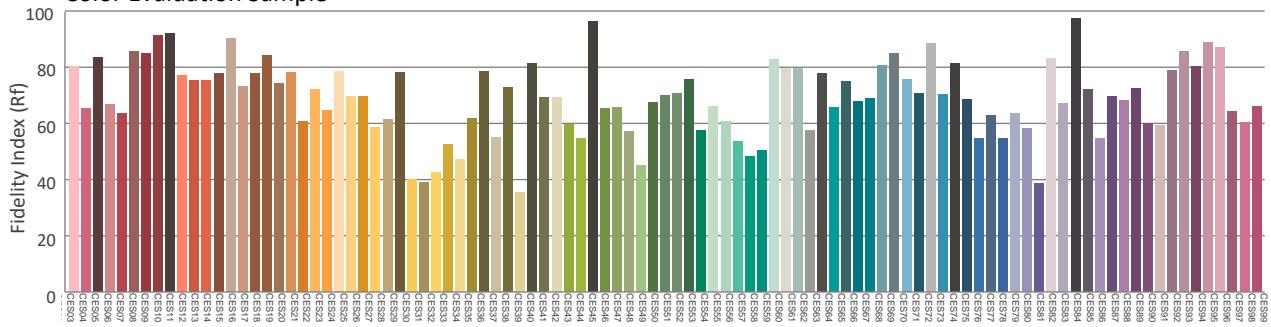
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

## Report Summary

### Measurements

Fixture Output: 2704 lm  
Fixture Peak: 4186 cd  
Fixture Efficacy: 55 lm/W  
Intensity @ 5m: 167 lux  
Color Temperature: 7484 K  
CRI: 63.5 CRI R9 Value: 40.9  
CQS: 76.4

TLCI: 70  
TM-30 Rf: 66.8  
TM-30 Rg: 86.8  
Beam Angle (50%): 35°  
Field Angle (10%): 70.9°  
Cutoff Angle (2%): 115.6°

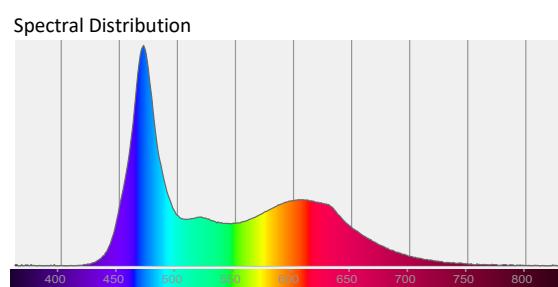
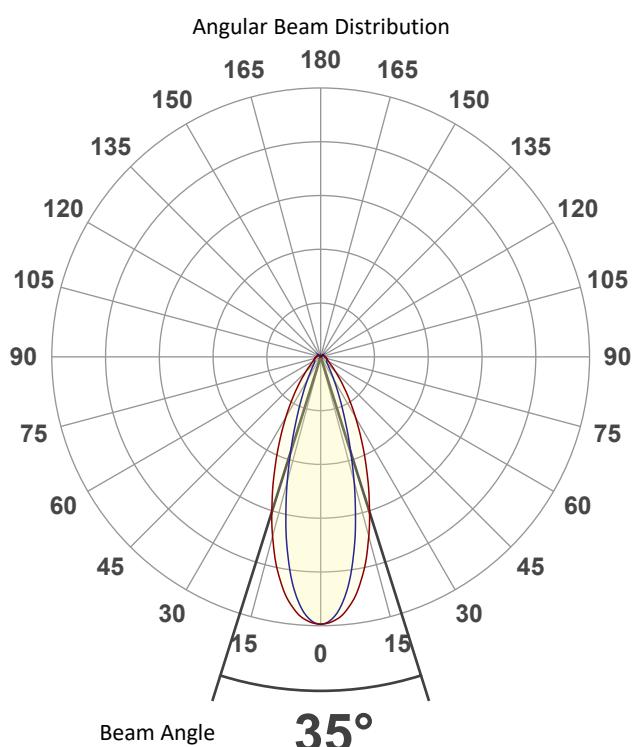
### Conditions

AC Supply: 118 V, 60 Hz  
Power: 52.07 W  
Current: 0.441 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.306  
Y: 0.290

### Light Quality

CRI: 63.5

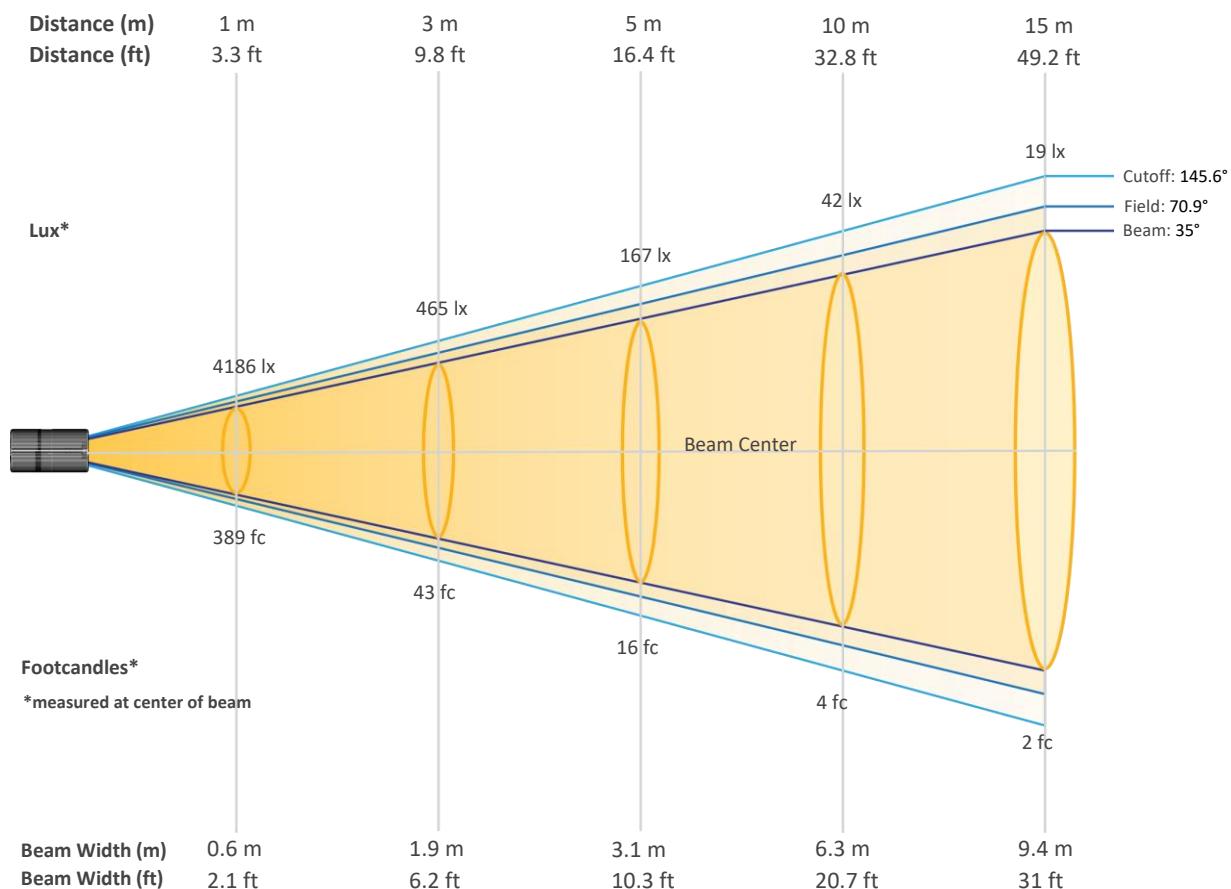
### Color Temperature

7484 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

## Beam Details

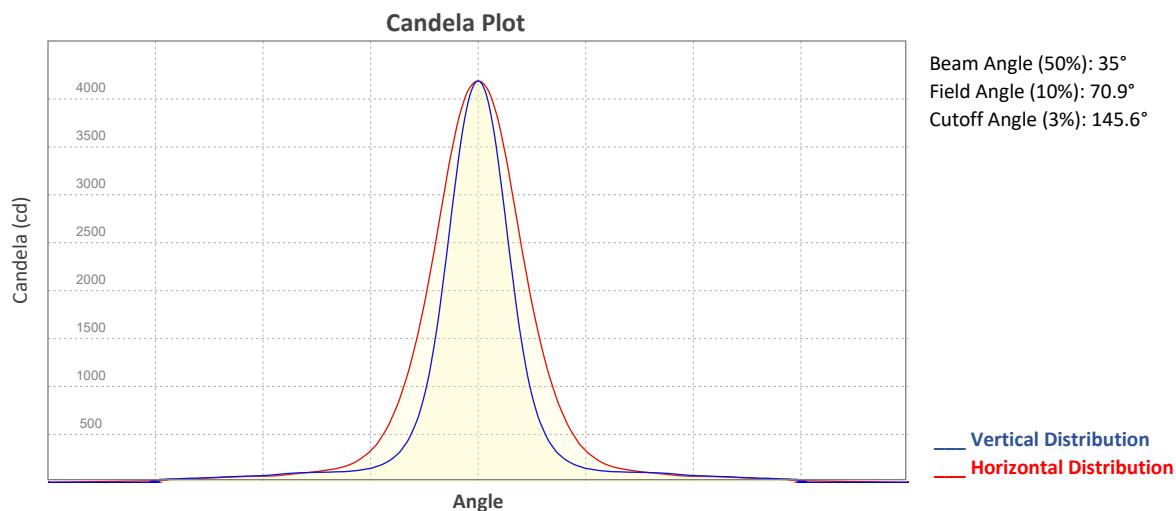


Beam Intensities from 1-20m (3.3-65.6ft)

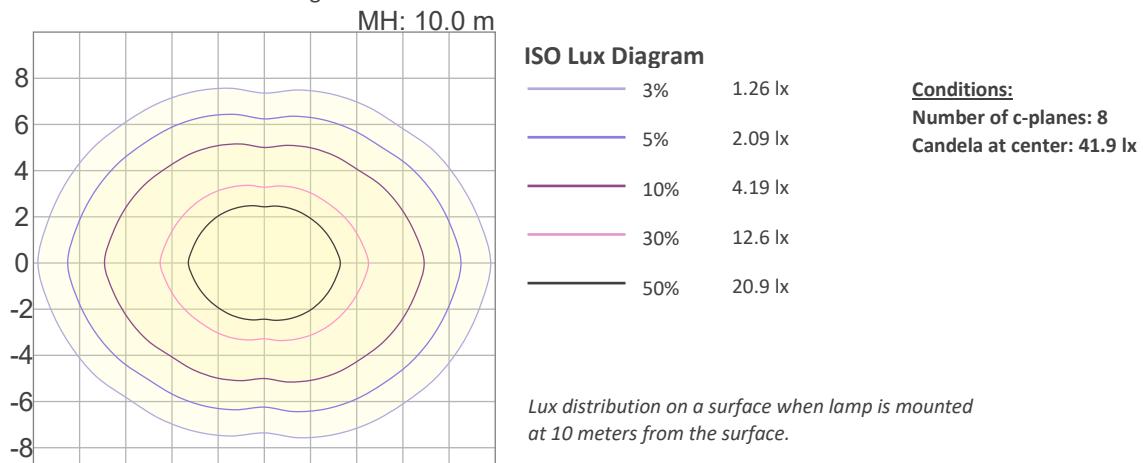
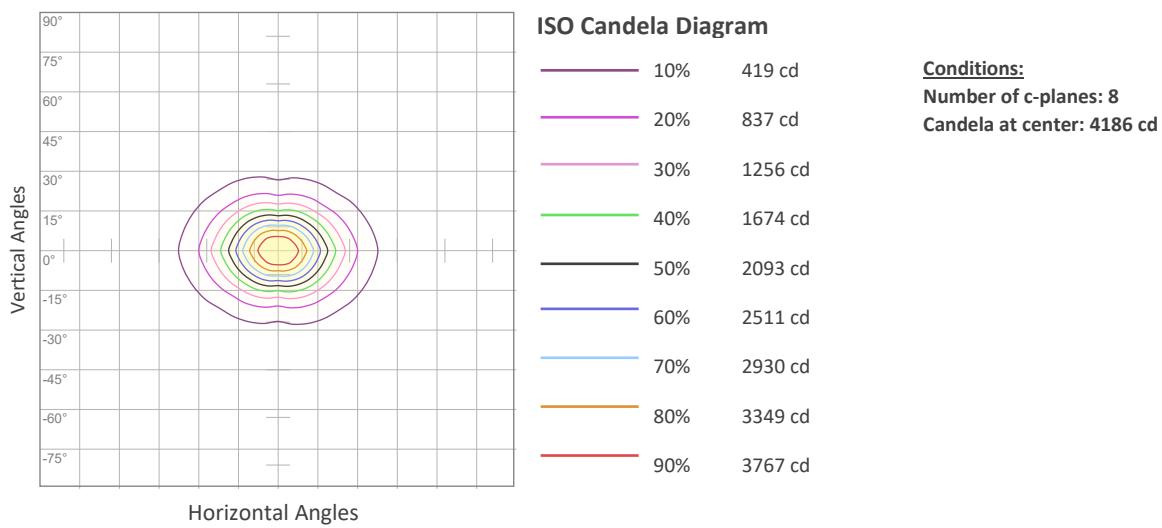
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4186	1046	465	262	167	116	85	65	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	21	19	16	14	13	12	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	389	97	43	24	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K



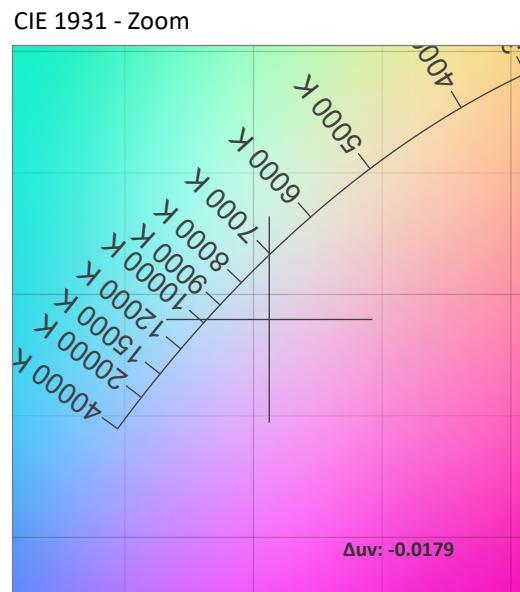
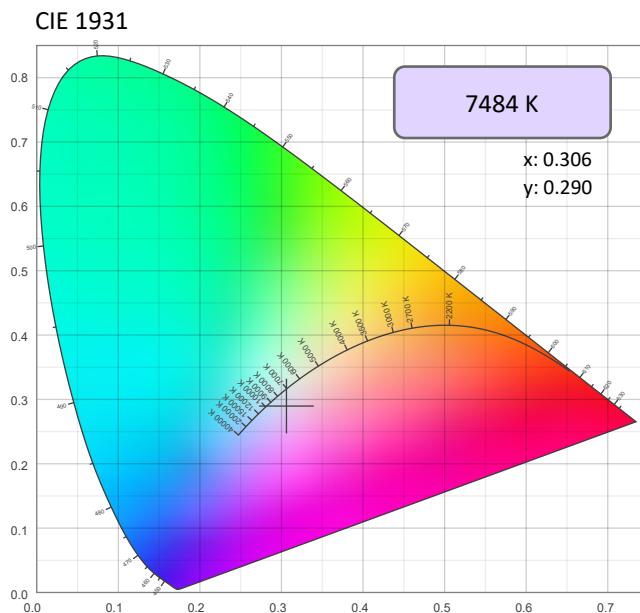
## ISO Diagrams



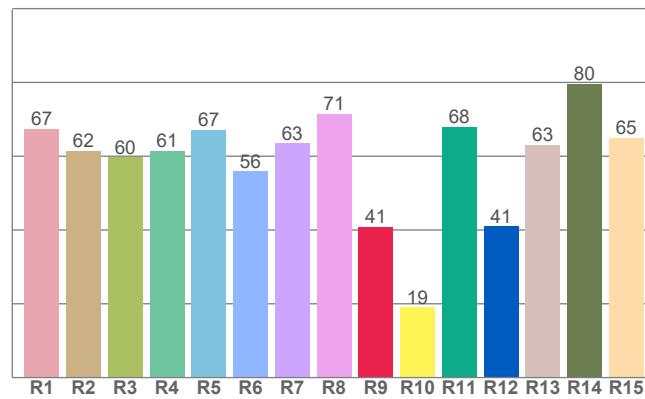
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

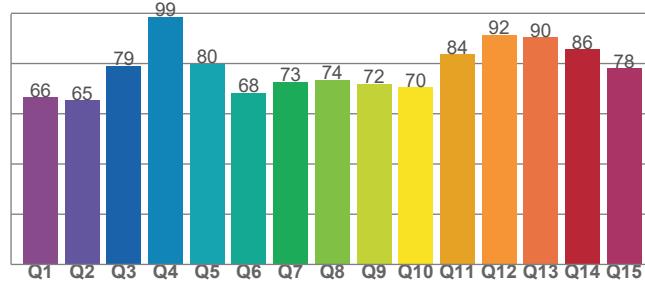
## Chromaticity



CRI: 63.5 (R1-R8)



CQS: 76.4



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7484 K	0.306	0.290

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0179	0.290	0.209

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
63.5	40.9	76.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
70	66.8	86.8

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

## TM-30 Details

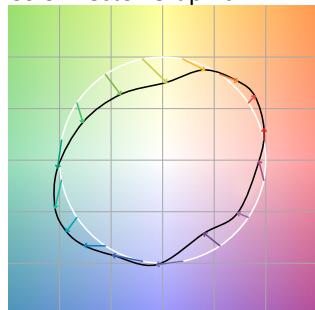
**Rf 66.8**

Fidelity Index  
(Rg)

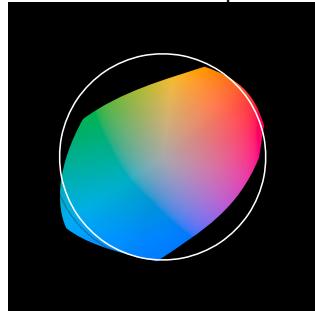
**Rg 86.8**

Gammut Index (Rg)

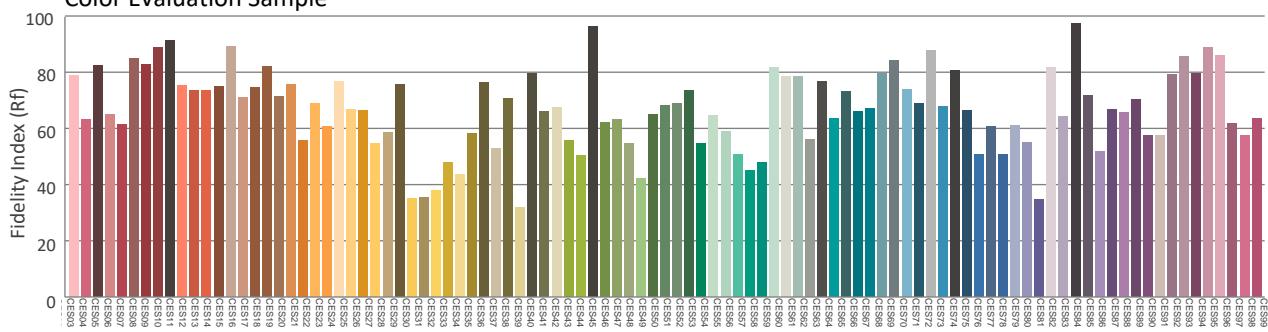
Color Vector Graphic



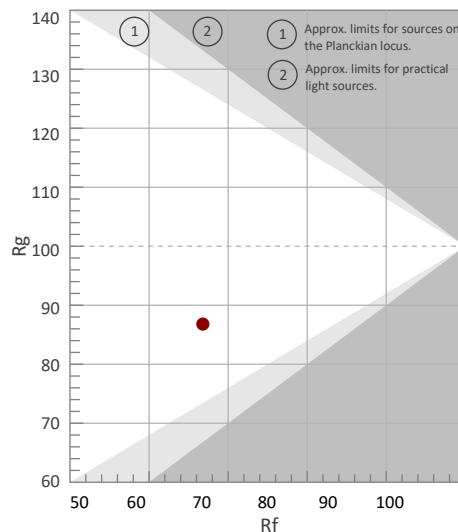
Color Distortion Graphic



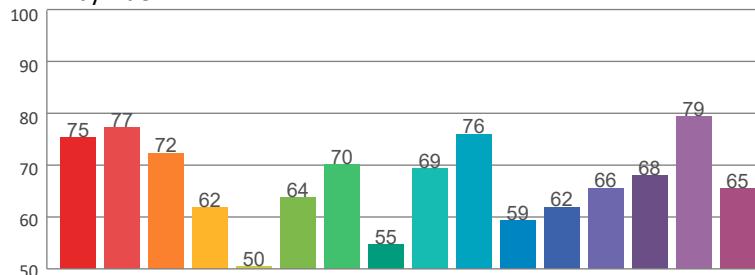
Color Evaluation Sample



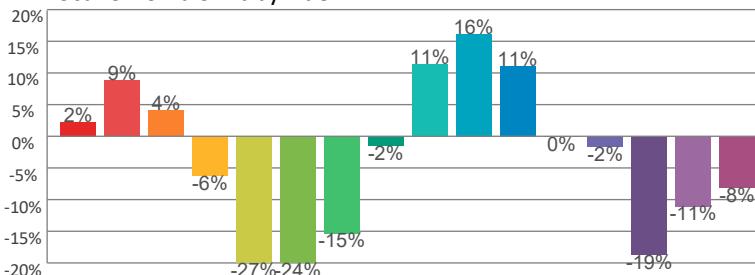
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	75	2%	10%
2	77	9%	2%
3	72	4%	-18%
4	62	-6%	-23%
5	50	-27%	-18%
6	64	-24%	-1%
7	70	-15%	13%
8	55	-2%	27%
9	69	11%	25%
10	76	16%	6%
11	59	11%	-17%
12	62	0%	-29%
13	66	-2%	-25%
14	68	-19%	-6%
15	79	-11%	-2%
16	65	-8%	17%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

## Report Summary

### Measurements

Fixture Output: 2609 lm  
Fixture Peak: 4020 cd  
Fixture Efficacy: 53 lm/W  
Intensity @ 5m: 161 lux  
Color Temperature: 8995 K  
CRI: 58.8      CRI R9 Value: 25.0  
CQS: 72.7

TLCI: 65

TM-30 Rf: 63.0

TM-30 Rg: 84.6

Beam Angle (50%): 35°

Field Angle (10%): 71.1°

Cutoff Angle (2%): 116.9°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 52.07 W

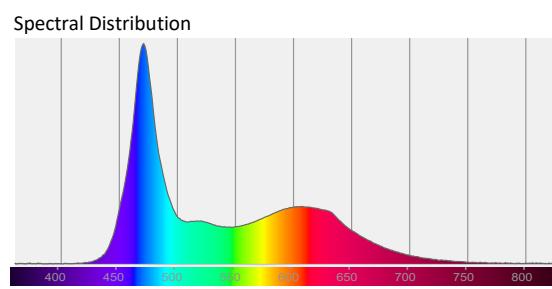
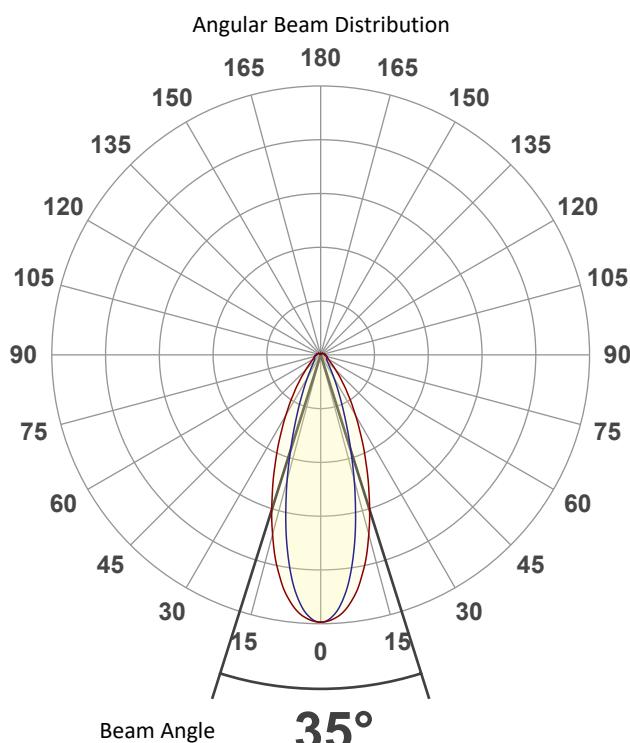
Current: 0.441 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.295  
Y: 0.278

### Light Quality

CRI: 58.8

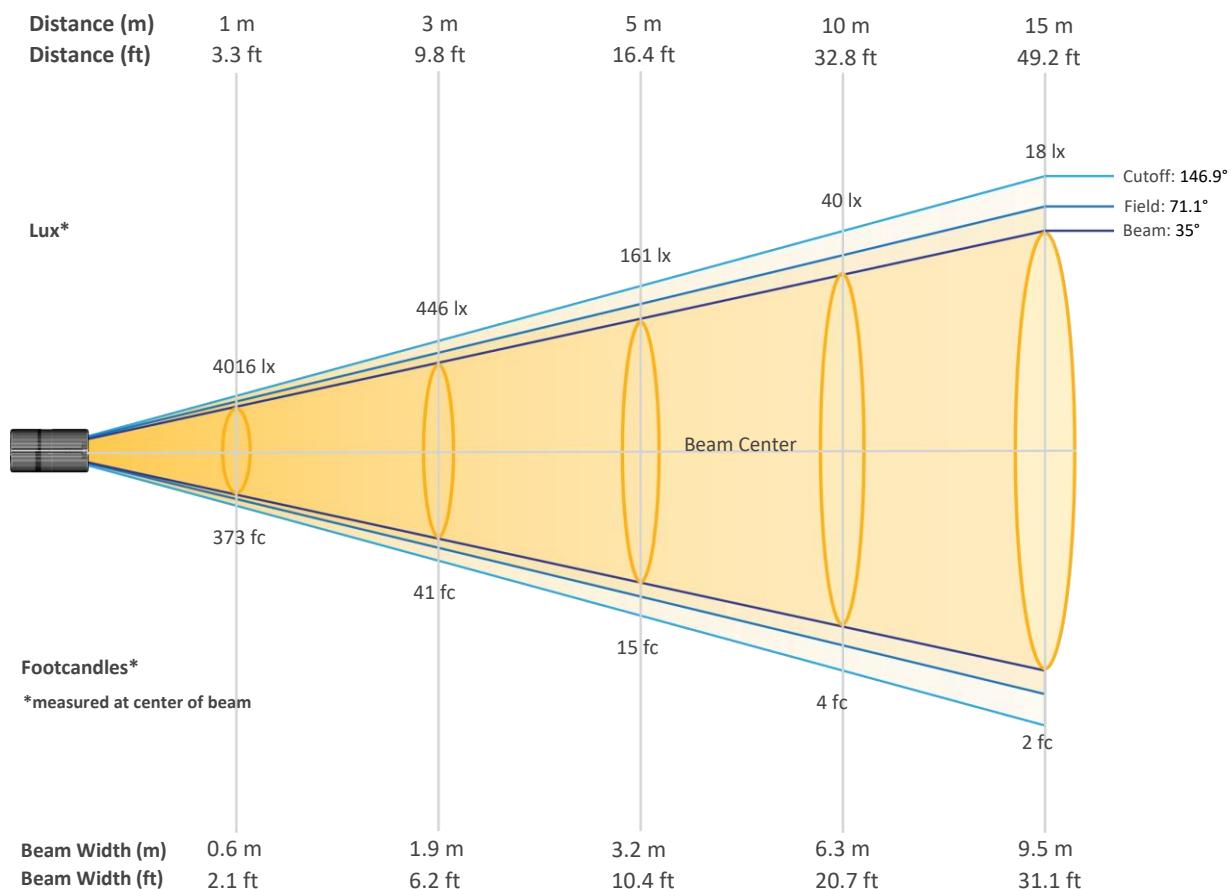
### Color Temperature

8995 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

## Beam Details

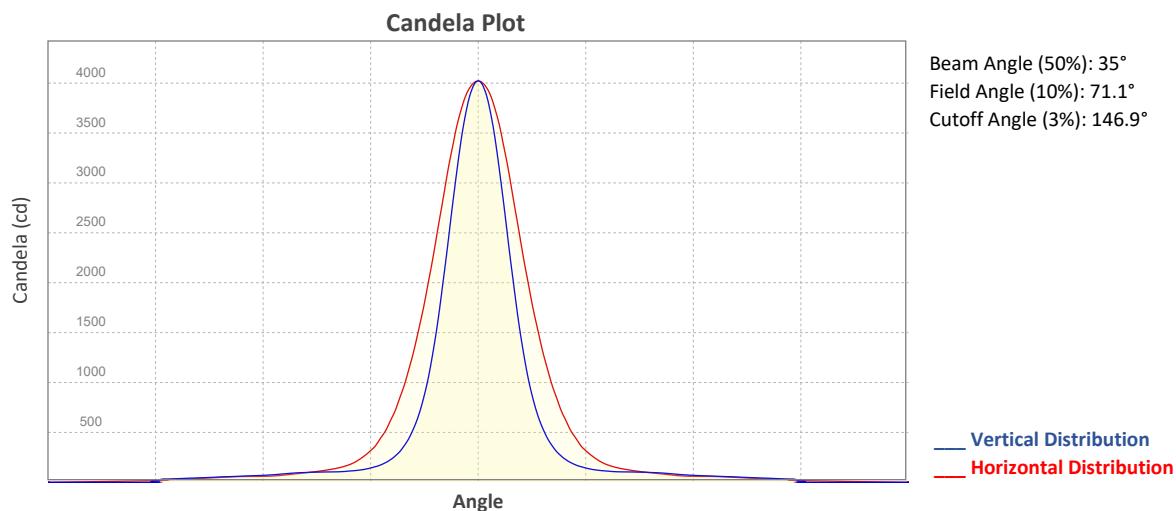


Beam Intensities from 1-20m (3.3-65.6ft)

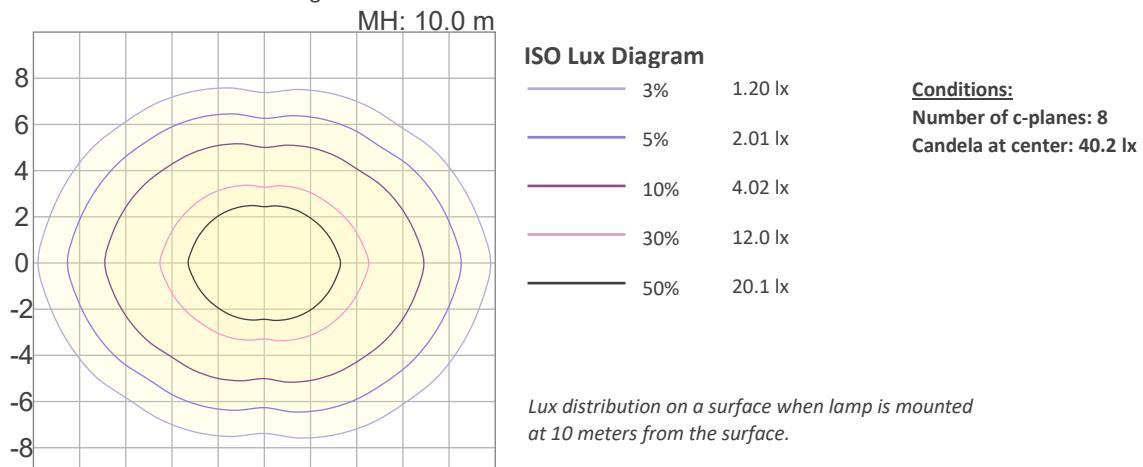
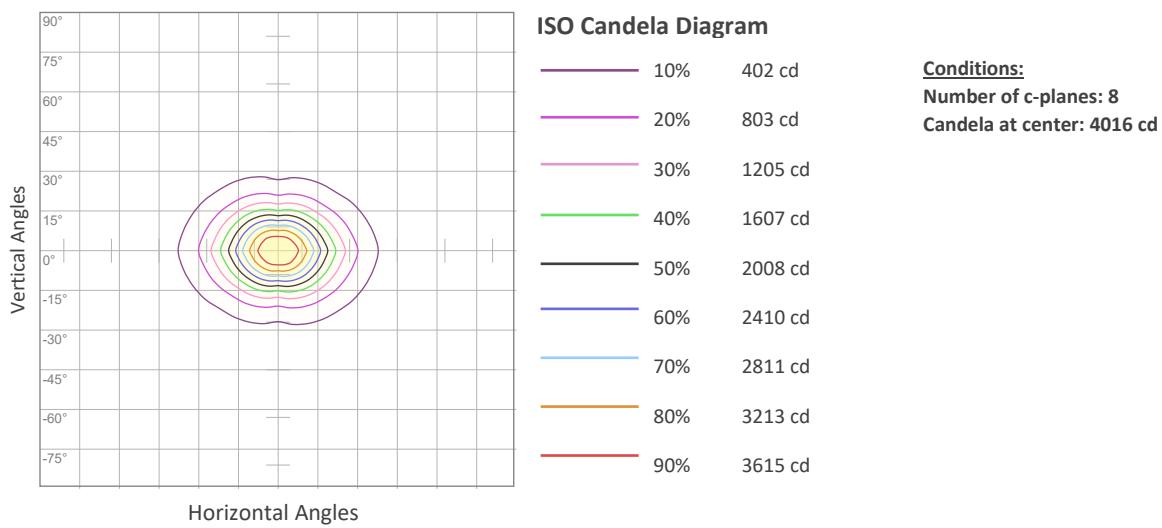
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4016	1004	446	251	161	112	82	63	50	40
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	33	28	24	20	18	16	14	12	11	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	373	93	41	23	15	10	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K



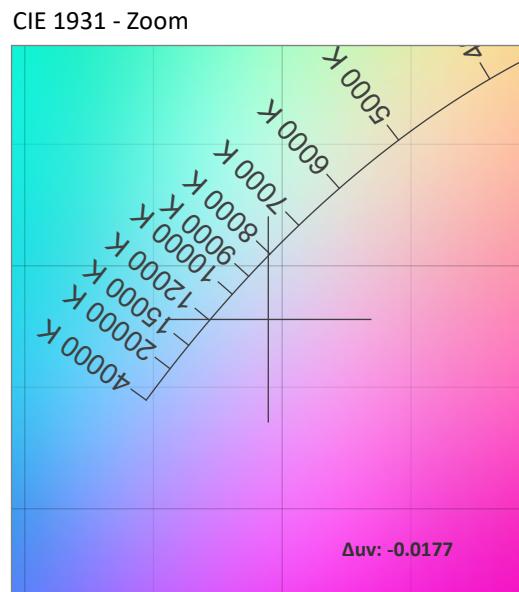
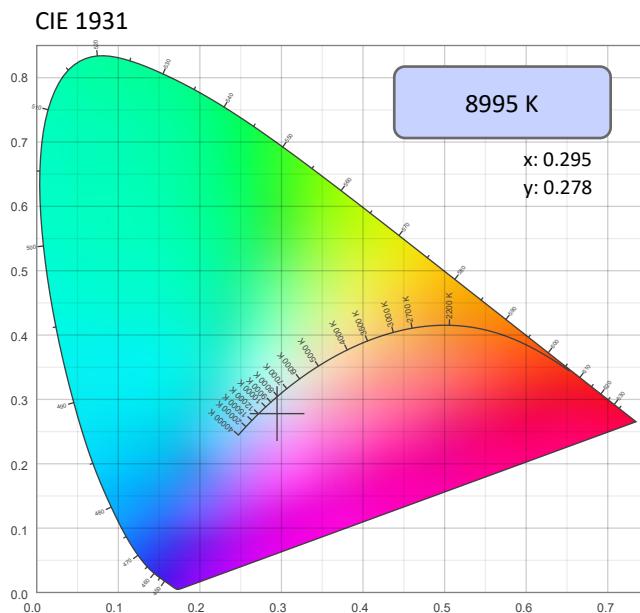
## ISO Diagrams



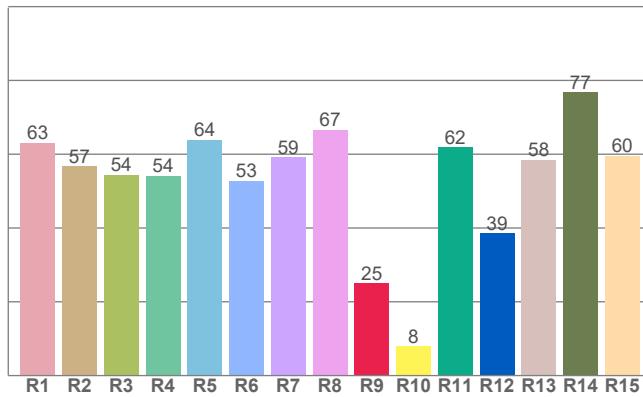
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

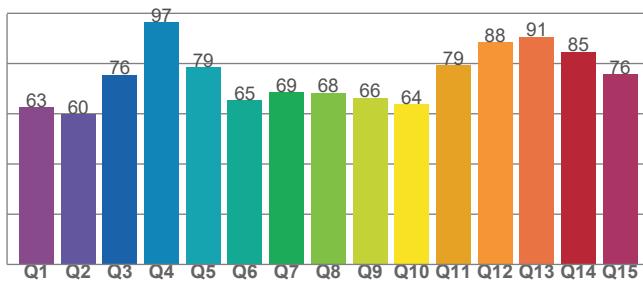
## Chromaticity



CRI: 58.8 (R1-R8)



CQS: 72.7



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8995 K	0.295	0.278

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	γ	u
-0.0177	0.278	0.205

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
58.8	25.0	72.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
65	63.0	84.6

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

## TM-30 Details

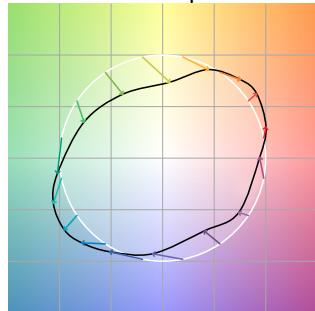
**Rf 63.0**

Fidelity Index  
(Rg)

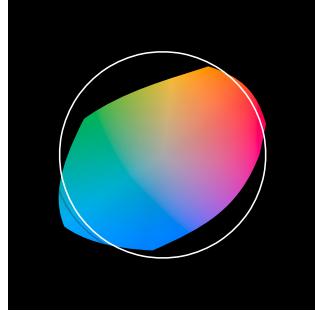
**Rg 84.6**

Gammut Index (Rg)

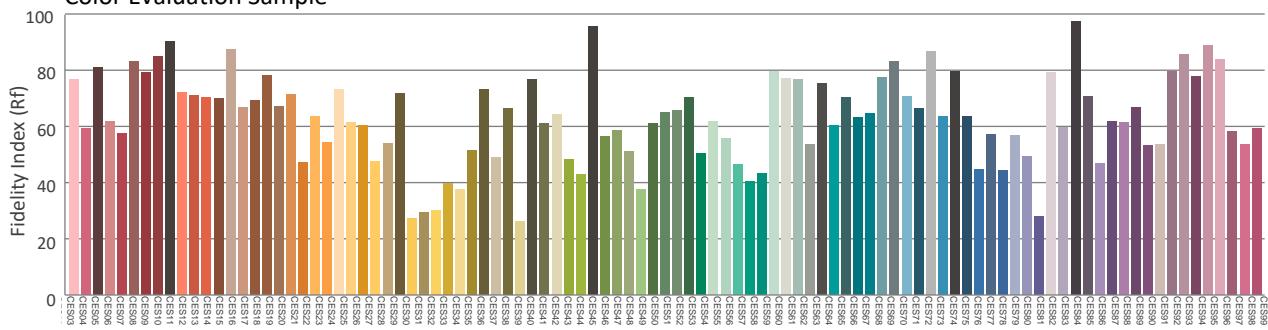
Color Vector Graphic



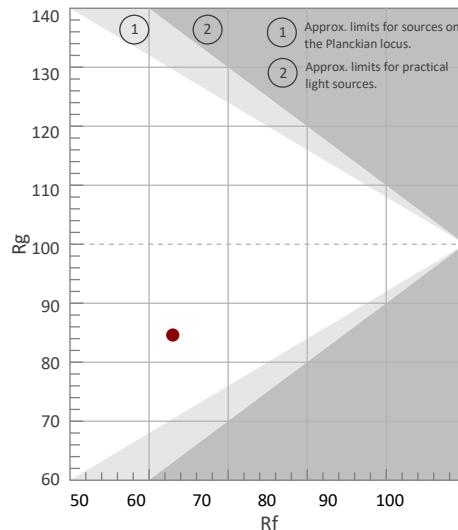
Color Distortion Graphic



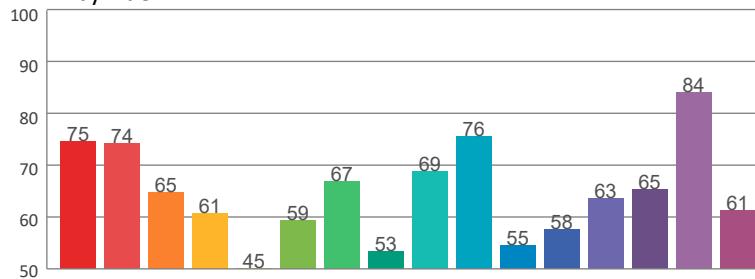
Color Evaluation Sample



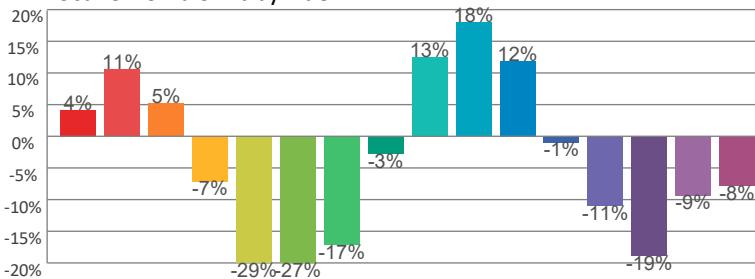
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	75	4%	10%
2	74	11%	1%
3	65	5%	-20%
4	61	-7%	-27%
5	45	-29%	-21%
6	59	-27%	-2%
7	67	-17%	13%
8	53	-3%	34%
9	69	13%	22%
10	76	18%	5%
11	55	12%	-20%
12	58	-1%	-33%
13	63	-11%	-28%
14	65	-19%	-6%
15	84	-9%	-3%
16	61	-8%	19%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

## Report Summary

### Measurements

Fixture Output: 2421 lm  
Fixture Peak: 3737 cd  
Fixture Efficacy: 49 lm/W  
Intensity @ 5m: 149 lux  
Color Temperature: 12562 K  
CRI: 49.7      CRI R9 Value: -5.0  
CQS: 66.8

TLCI: 57

TM-30 Rf: 56.6

TM-30 Rg: 80.9

Beam Angle (50%): 35.1°

Field Angle (10%): 71.1°

Cutoff Angle (2%): 115.2°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 51.72 W

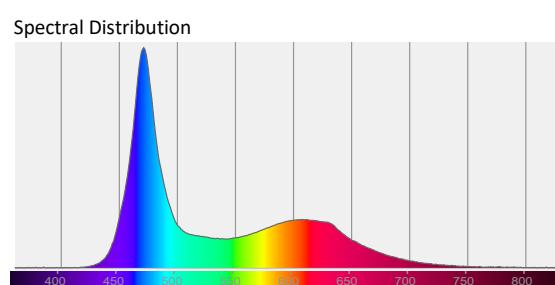
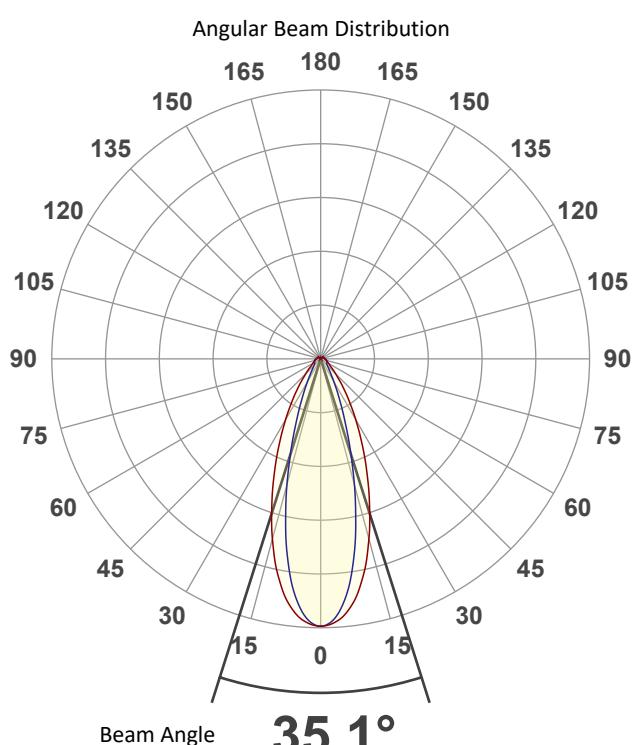
Current: 0.439 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.282  
Y: 0.258

### Light Quality

CRI: 49.7

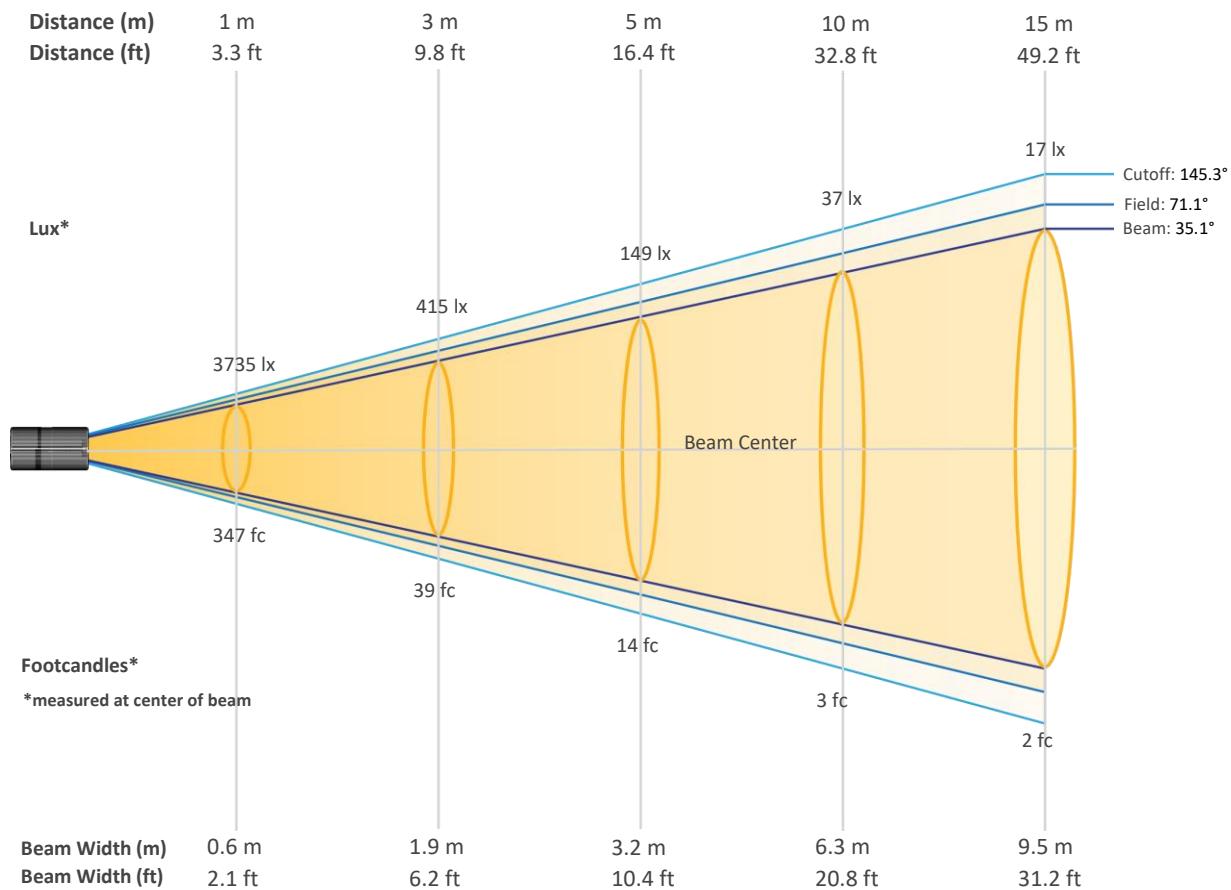
### Color Temperature

12562 K

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

## Beam Details

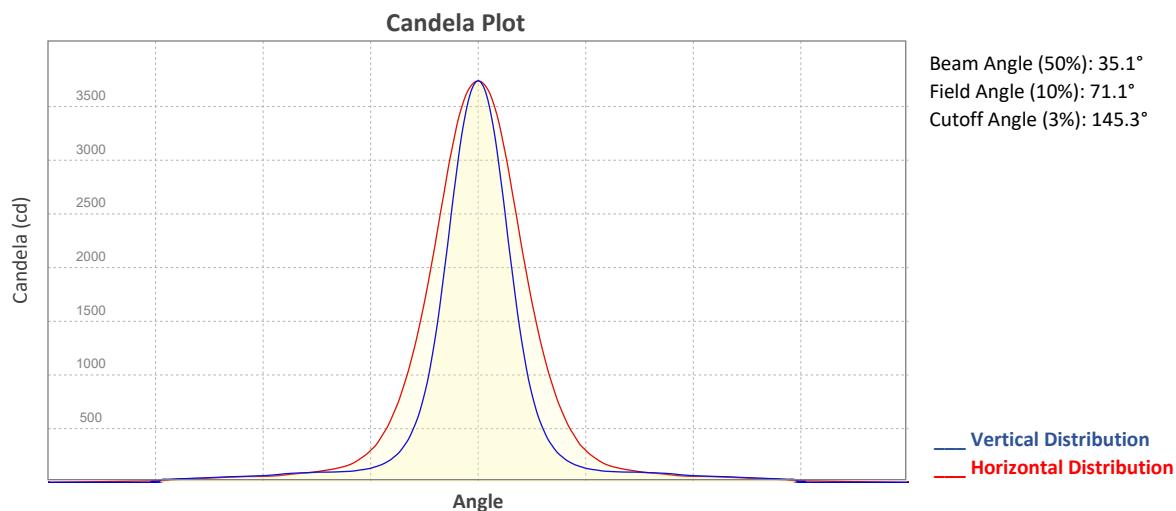


Beam Intensities from 1-20m (3.3-65.6ft)

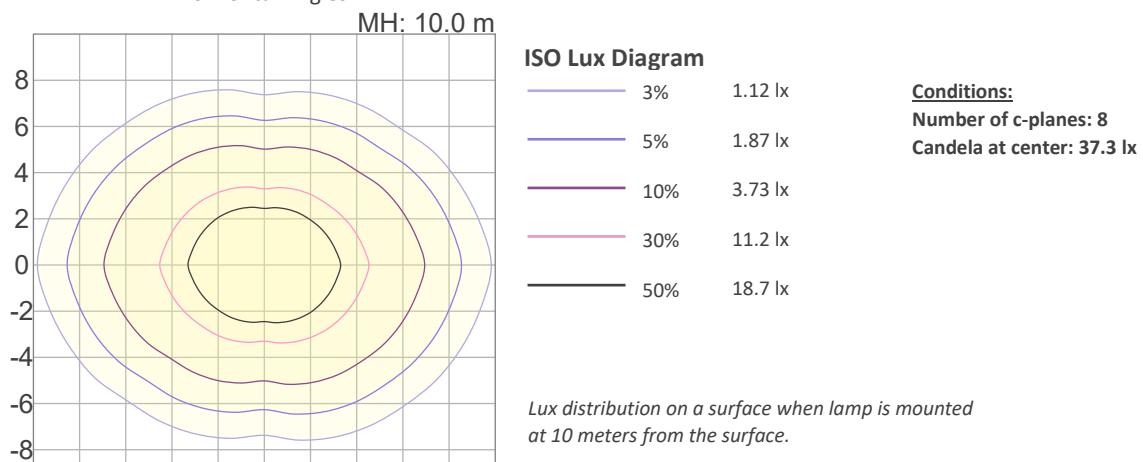
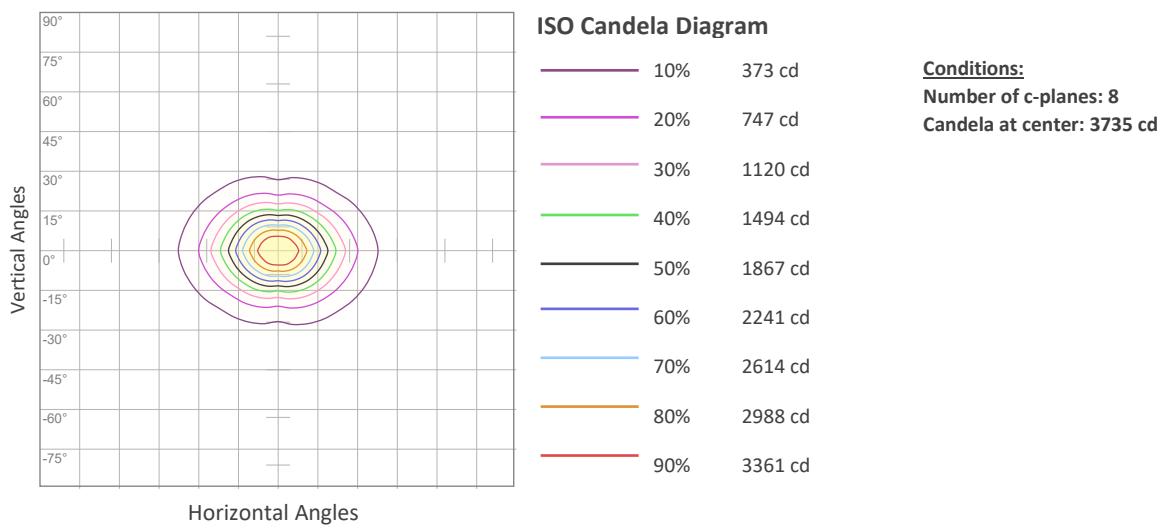
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3735	934	415	233	149	104	76	58	46	37
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	31	26	22	19	17	15	13	12	10	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	347	87	39	22	14	10	7	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	2	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K



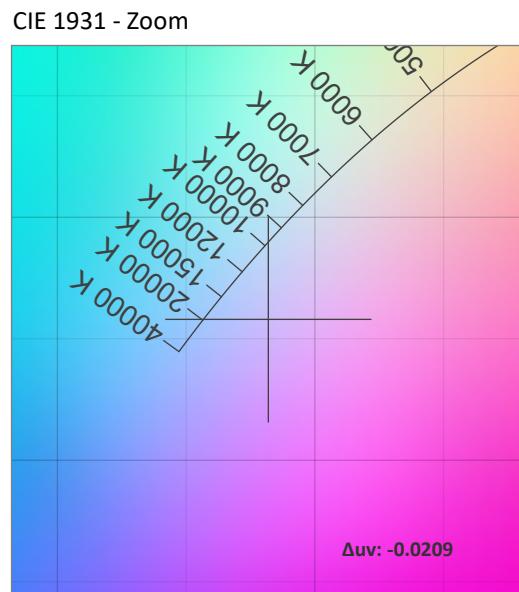
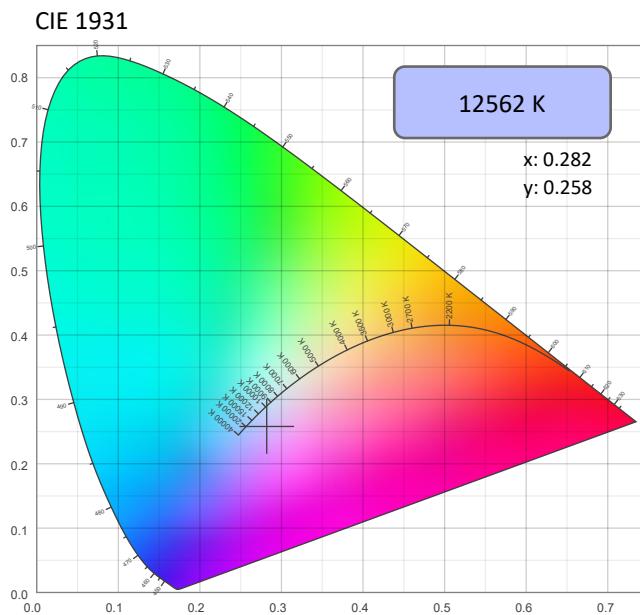
## ISO Diagrams



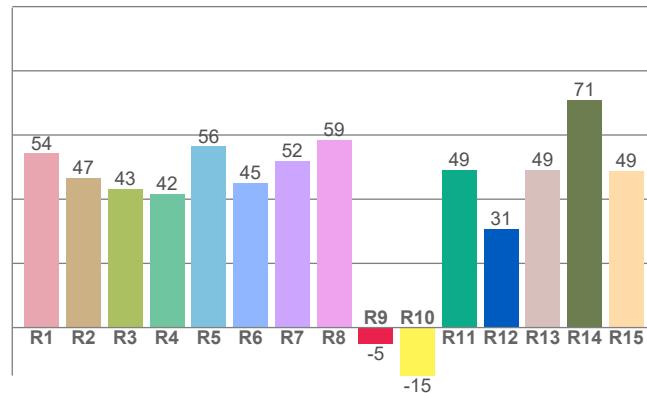
# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

## Chromaticity



CRI: 49.7 (R1-R8)

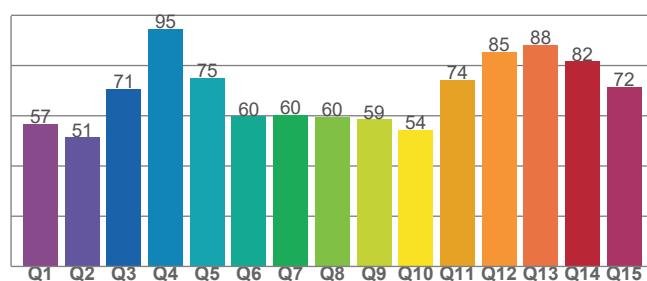


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
12562 K	0.282	0.258

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0209	0.258	0.204

CQS: 66.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
49.7	-5.0	66.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
57	56.6	80.9

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# Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

## TM-30 Details

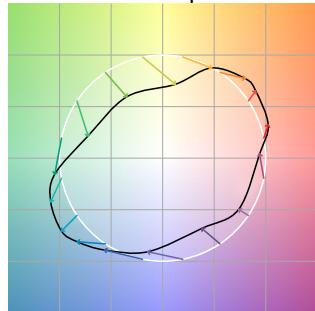
**Rf 56.6**

Fidelity Index  
(Rg)

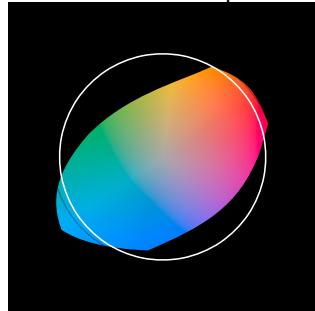
**Rg 80.9**

Gammut Index (Rg)

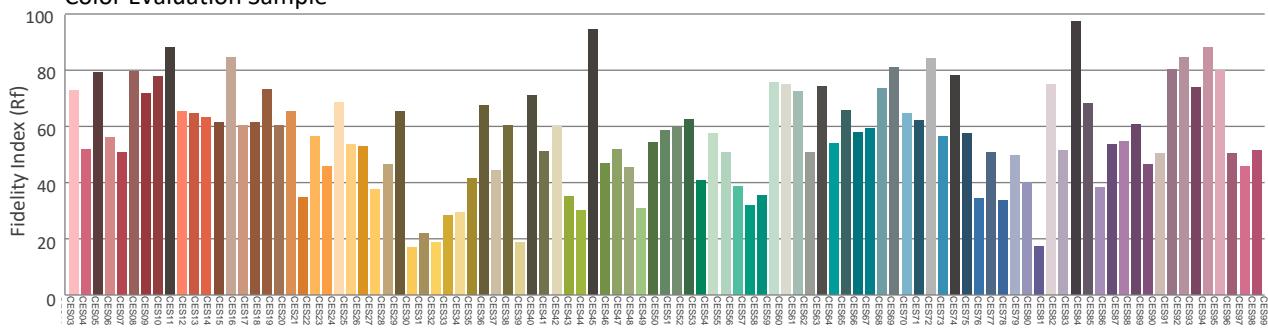
Color Vector Graphic



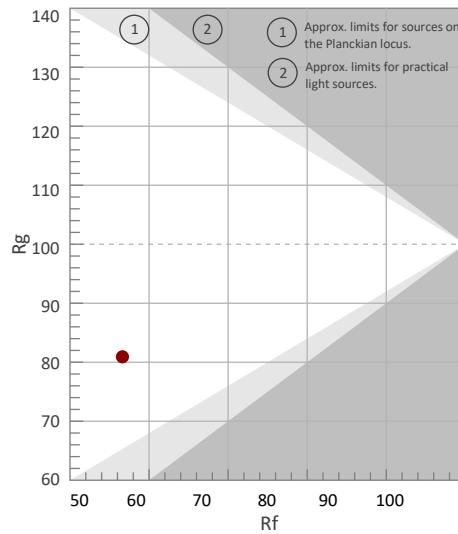
Color Distortion Graphic



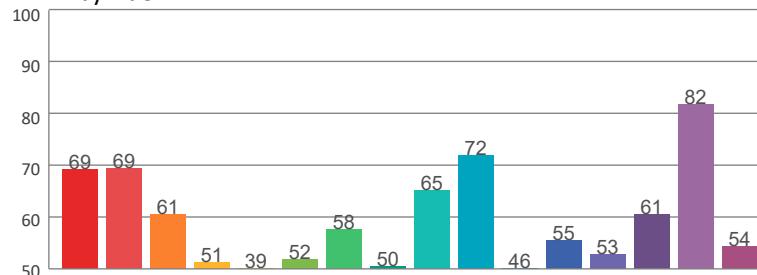
Color Evaluation Sample



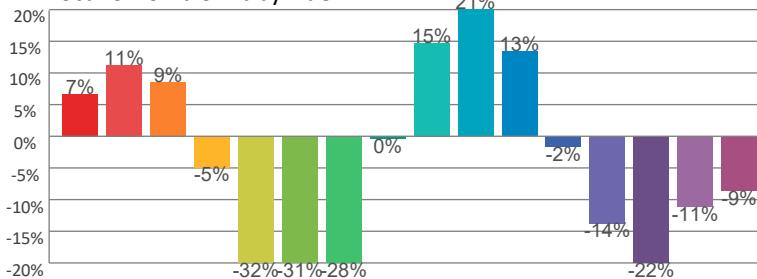
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	69	7%	12%
2	69	11%	4%
3	61	9%	-24%
4	51	-5%	-30%
5	39	-32%	-26%
6	52	-31%	-4%
7	58	-28%	22%
8	50	0%	36%
9	65	15%	20%
10	72	21%	4%
11	46	13%	-24%
12	55	-2%	-38%
13	53	-14%	-32%
14	61	-22%	-6%
15	82	-11%	0%
16	54	-9%	22%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 2059 lm  
Fixture Peak: 1098 cd  
Fixture Efficacy: 41 lm/W  
Intensity @ 5m: 44 lux  
Color Temperature: 5646 K  
CRI: 69.0      CRI R9 Value: 24.3  
CQS: 81.3

TLCI: 79

TM-30 Rf: 72.8

TM-30 Rg: 93.0

Beam Angle (50%): 49.2°

Field Angle (10%): 166.3°

Cutoff Angle (2%): 256.9°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 52.25 W

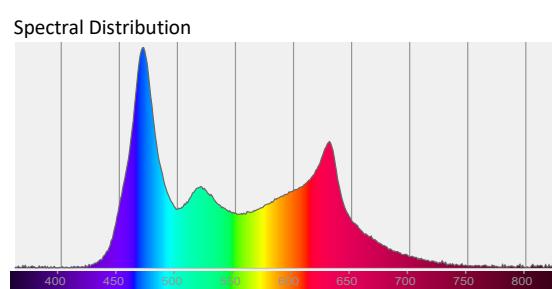
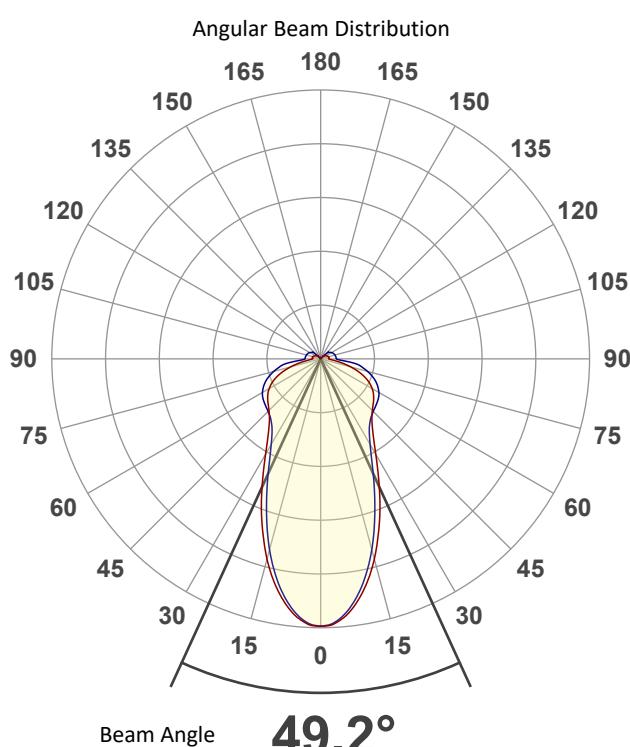
Current: 0.438 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.330  
Y: 0.318

### Light Quality



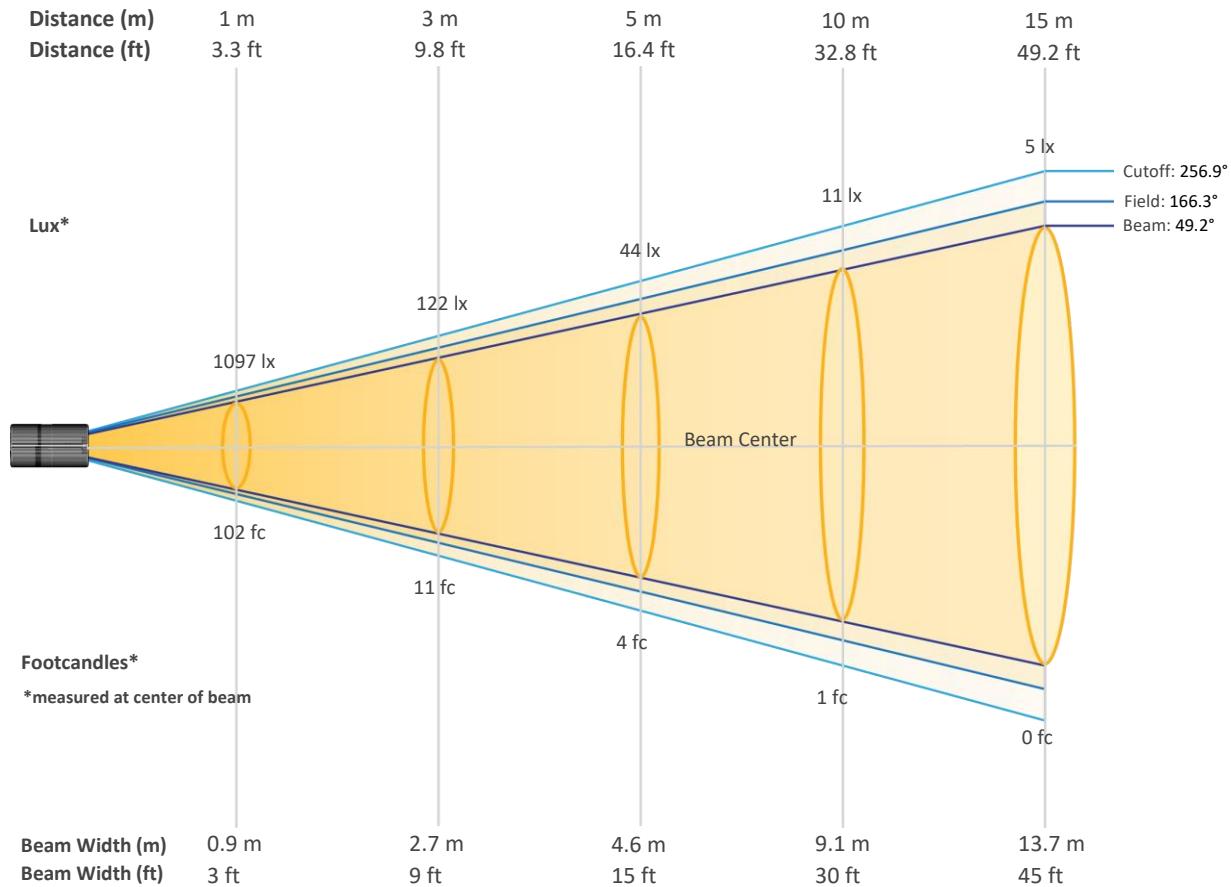
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power

## Beam Details

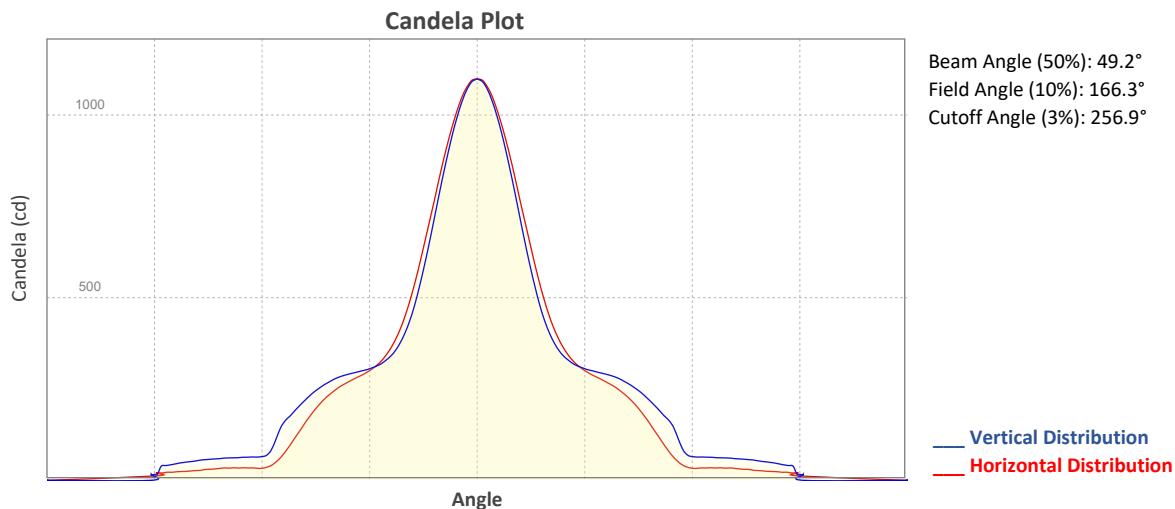


Beam Intensities from 1-20m (3.3-65.6ft)

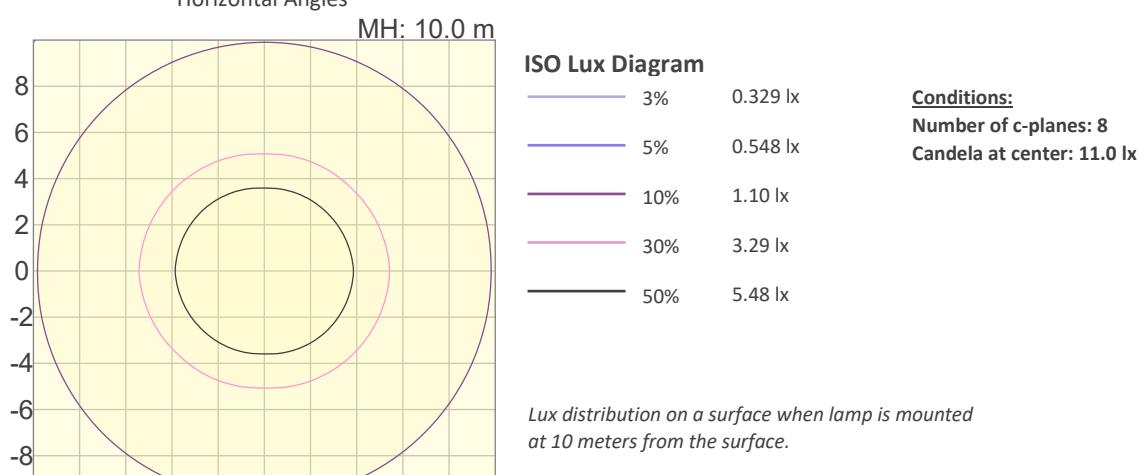
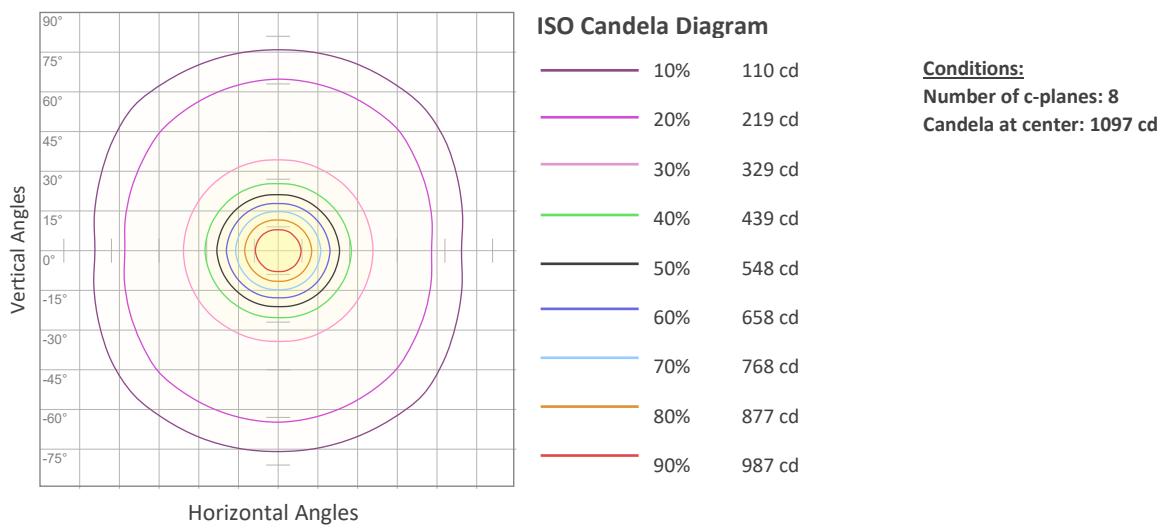
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1097	274	122	69	44	30	22	17	14	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	8	6	6	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	102	25	11	6	4	3	2	2	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power



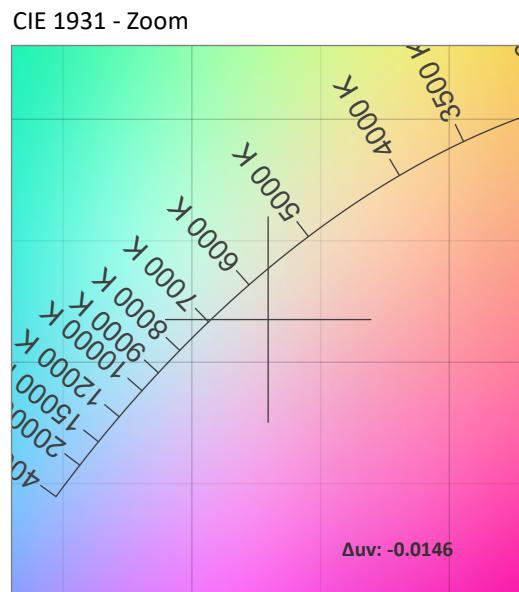
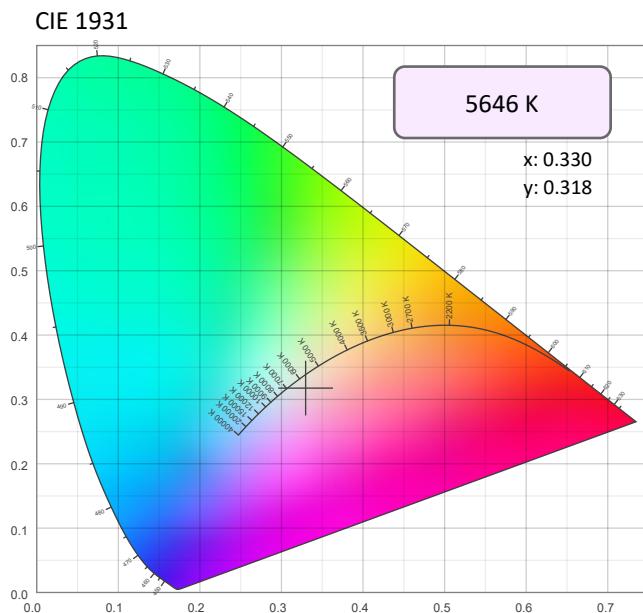
## ISO Diagrams



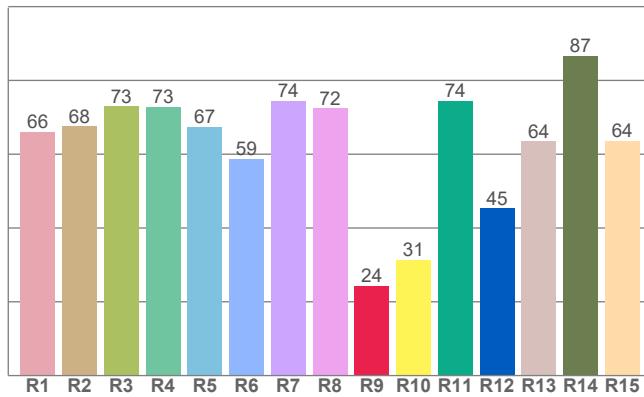
# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power

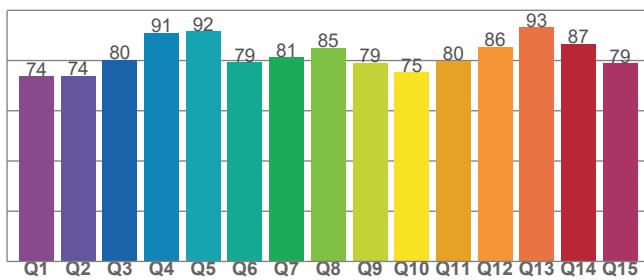
## Chromaticity



CRI: 69.0 (R1-R8)



CQS: 81.3



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5646 K	0.330	0.318

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0146	0.318	0.214

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.0	24.3	81.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	72.8	93.0

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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power

## TM-30 Details

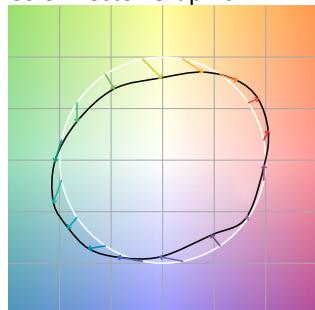
**Rf 72.8**

Fidelity Index  
(Rg)

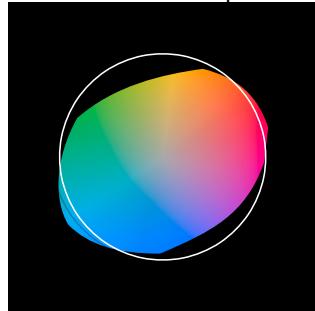
**Rg 93.0**

Gammut Index (Rg)

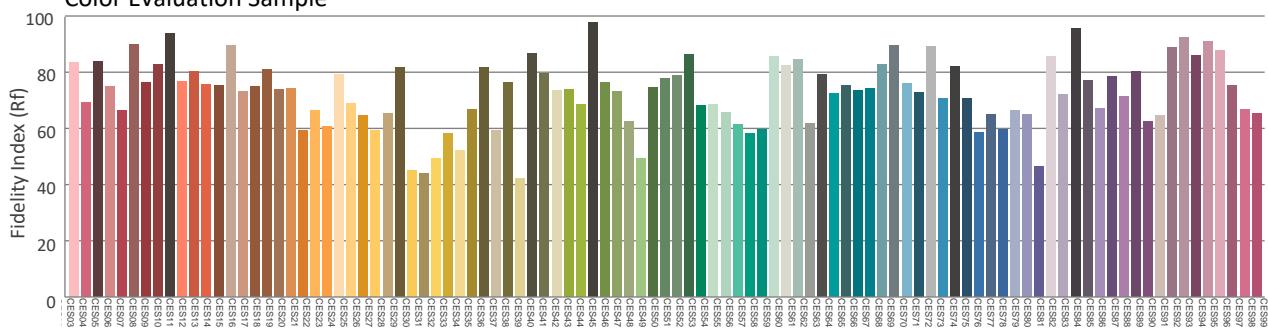
Color Vector Graphic



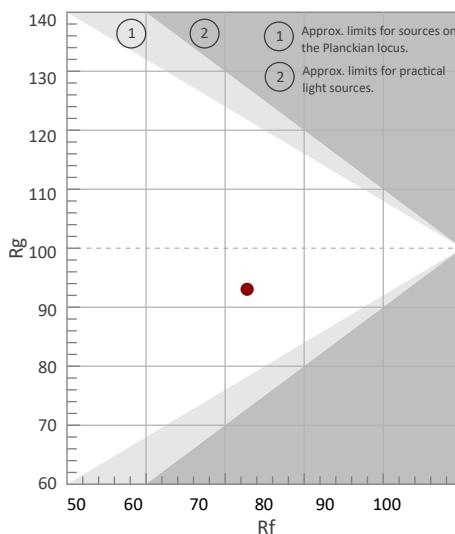
Color Distortion Graphic



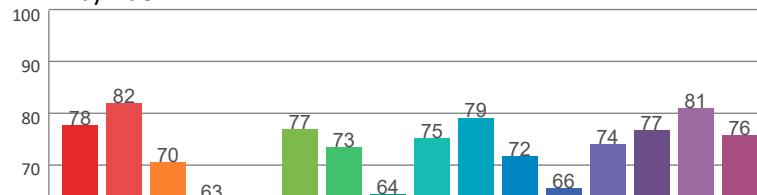
Color Evaluation Sample



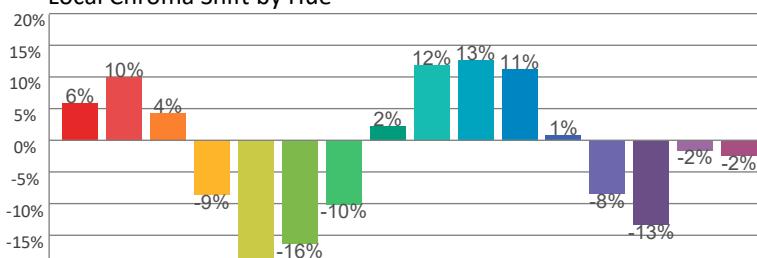
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	70	4%	-17%
4	63	-9%	-21%
5	61	-21%	-14%
6	77	-16%	1%
7	73	-10%	15%
8	64	2%	21%
9	75	12%	20%
10	79	13%	4%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-2%	14%



Rf by Hue



Local Chroma Shift by Hue



# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only

## Report Summary

### Measurements

Fixture Output: 528 lm

Fixture Peak: 286 cd

Fixture Efficacy: 17 lm/W

Intensity @ 5m: 11 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 47.9°

Field Angle (10%): 166.2°

Cutoff Angle (2%): 256.2°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 33.18 W

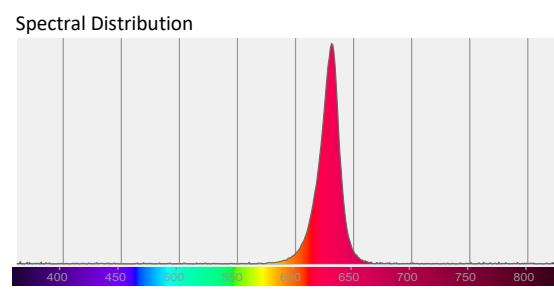
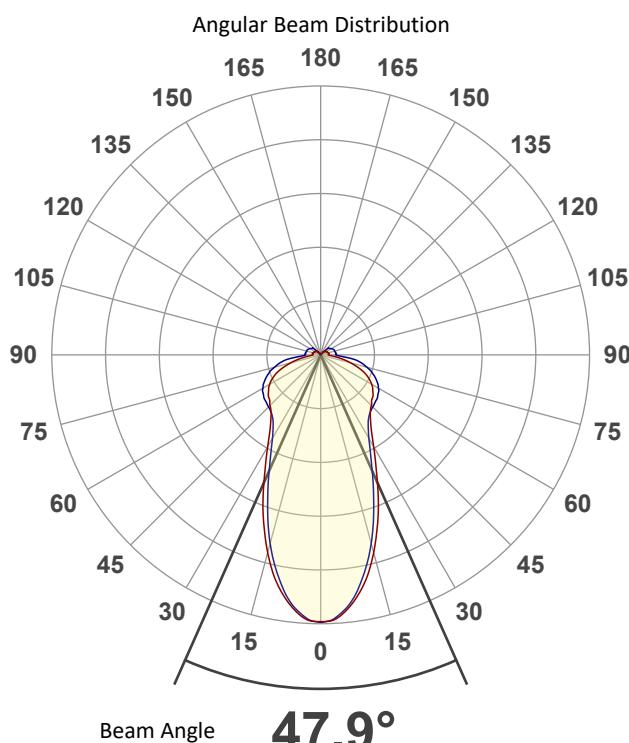
Current: 0.279 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



### Light Quality

CRI: 0.0

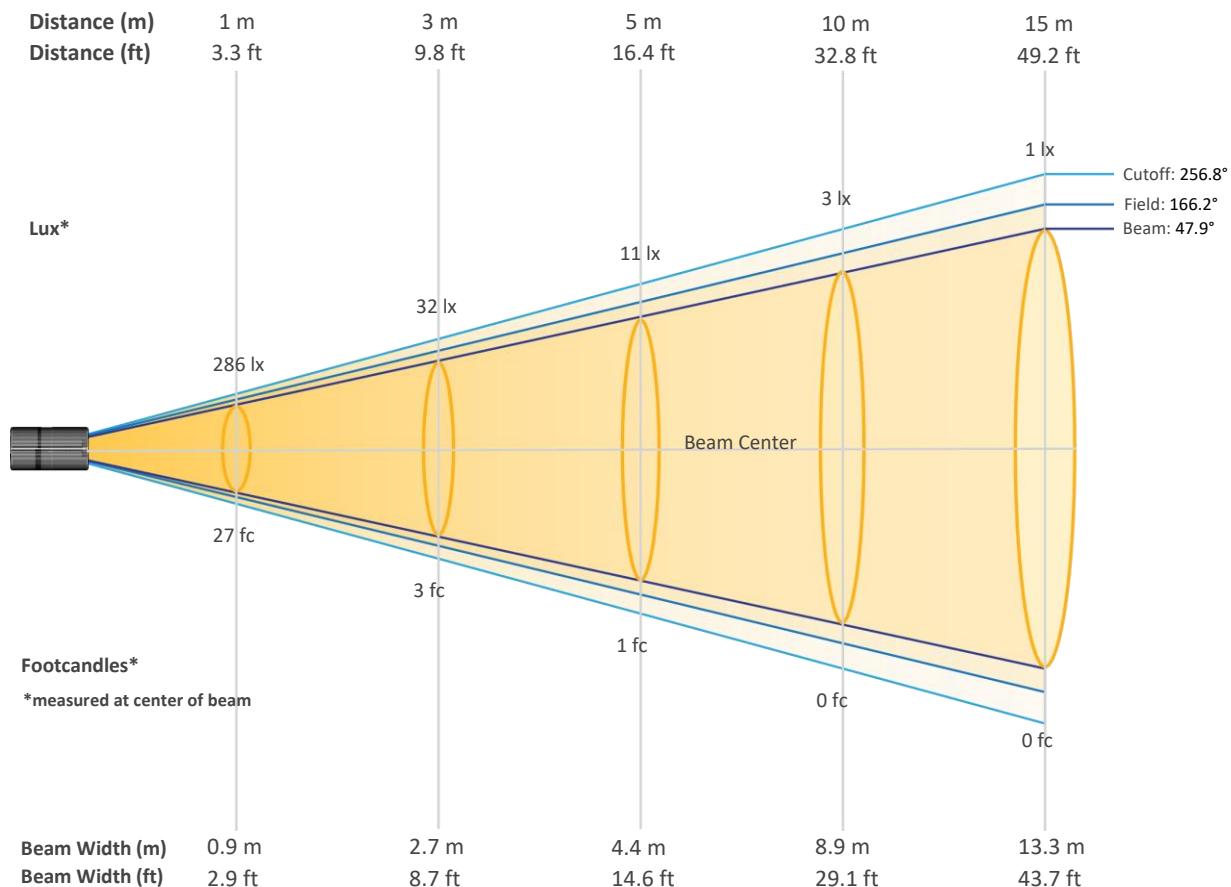
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only

## Beam Details

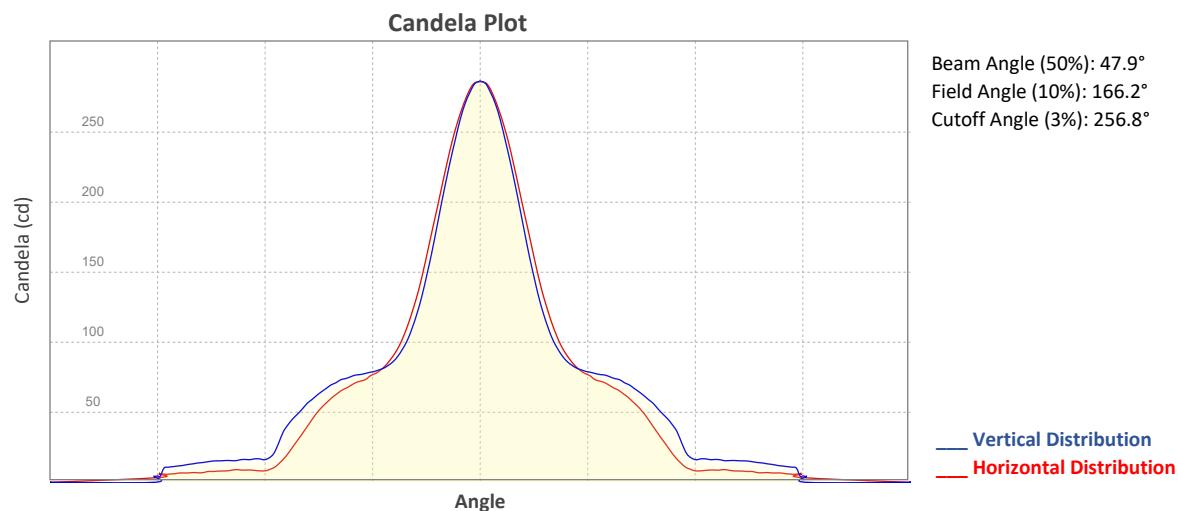


Beam Intensities from 1-20m (3.3-65.6ft)

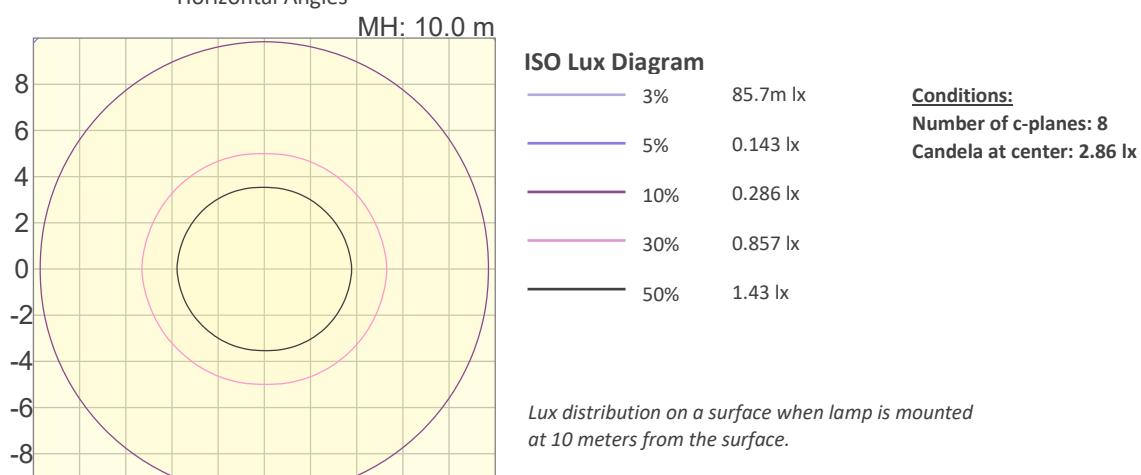
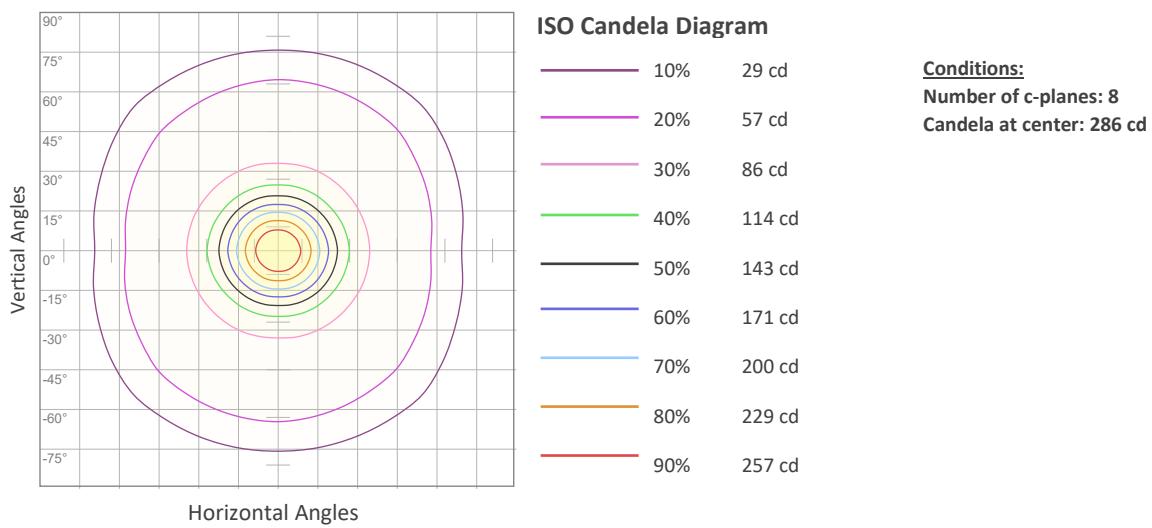
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	286	71	32	18	11	8	6	4	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	27	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only



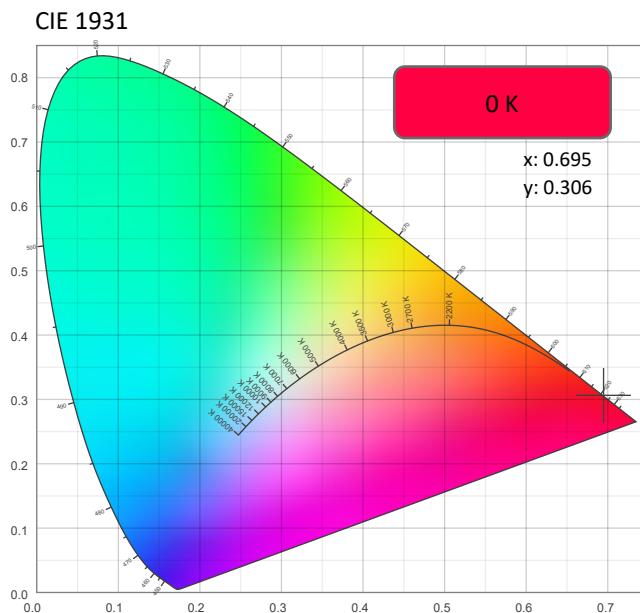
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.695	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.526

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only

## TM-30 Details

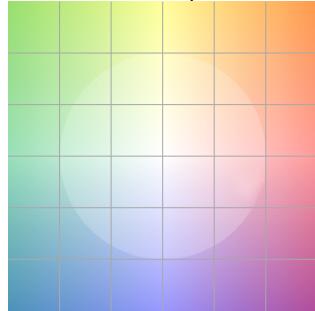
**Rf 0.0**

Fidelity Index  
(R<sub>f</sub>)

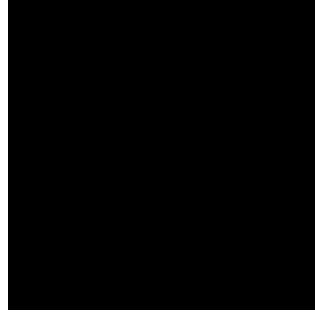
**Rg 0.0**

Gammut Index (R<sub>g</sub>)

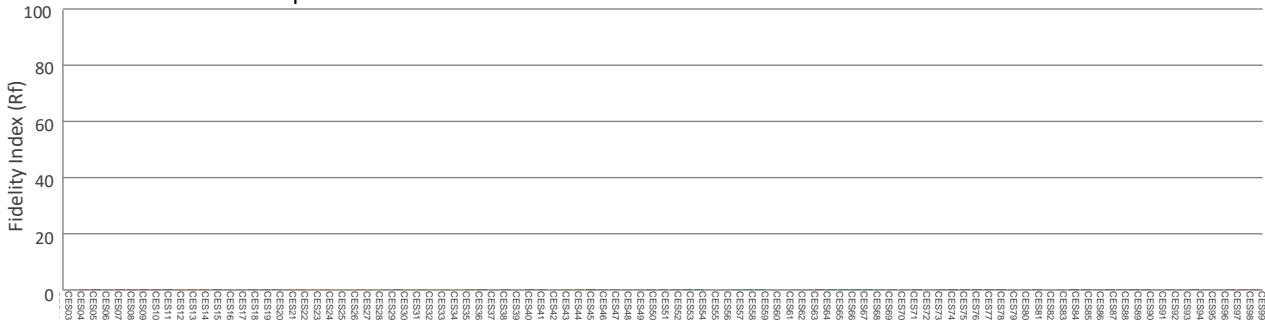
Color Vector Graphic



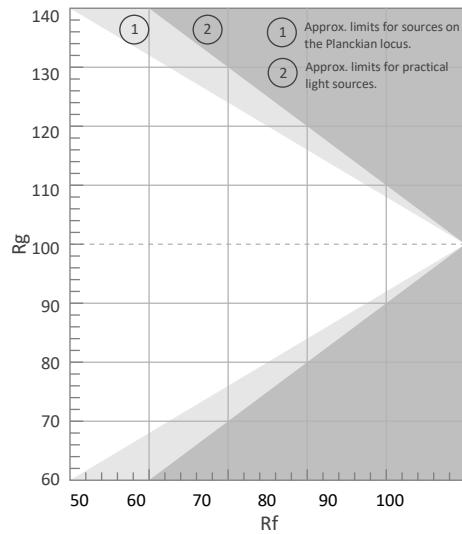
Color Distortion Graphic



Color Evaluation Sample



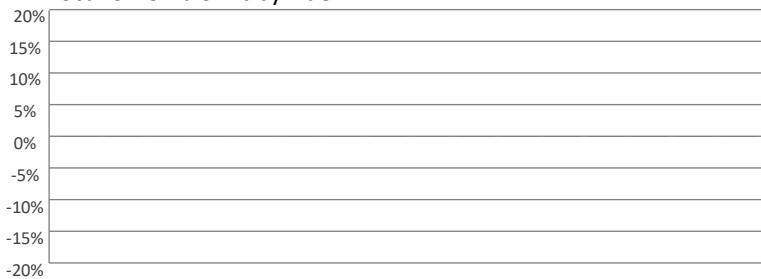
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only

## Report Summary

### Measurements

Fixture Output: 1075 lm

Fixture Peak: 578 cd

Fixture Efficacy: 33 lm/W

Intensity @ 5m: 23 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 48.6°

Field Angle (10%): 166.1°

Cutoff Angle (2%): 257.2°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 34.25 W

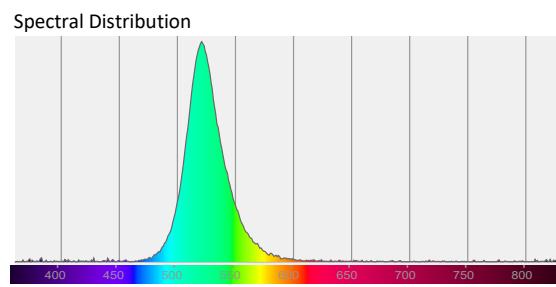
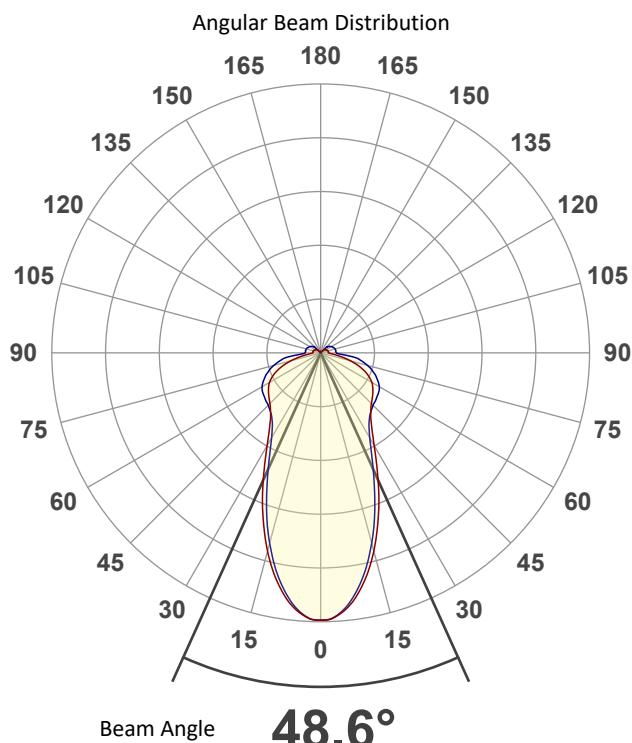
Current: 0.289 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.173  
Y: 0.724

### Light Quality

CRI: 0.0

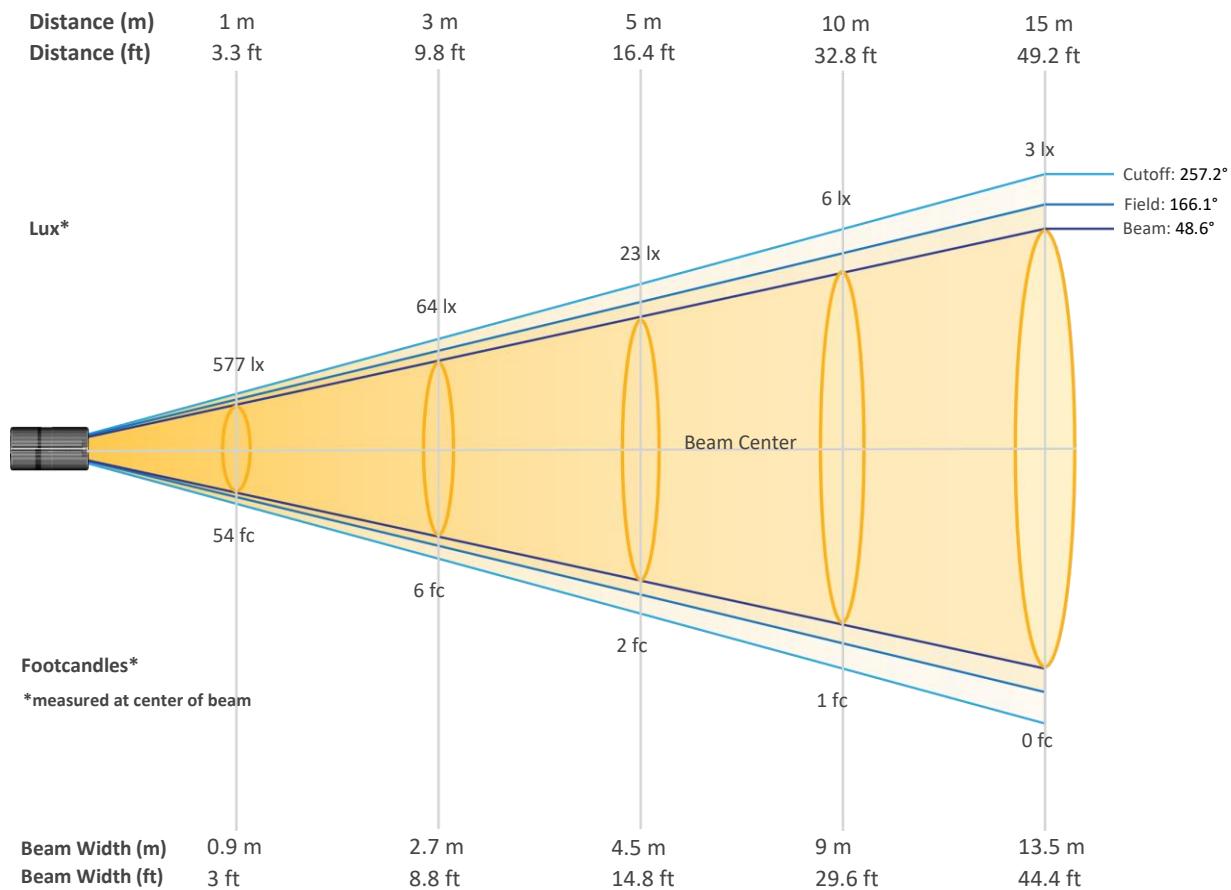
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only

## Beam Details

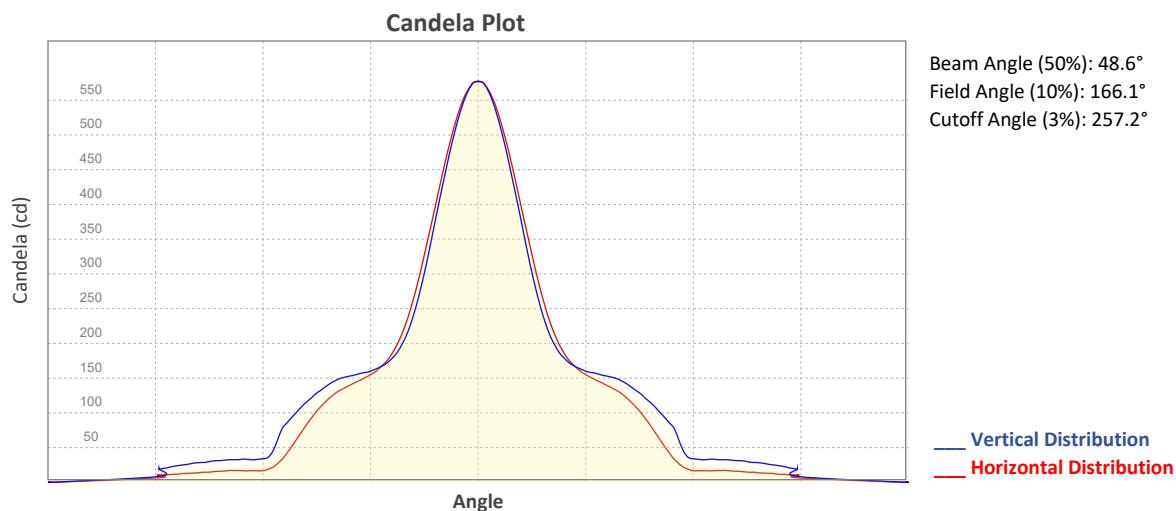


Beam Intensities from 1-20m (3.3-65.6ft)

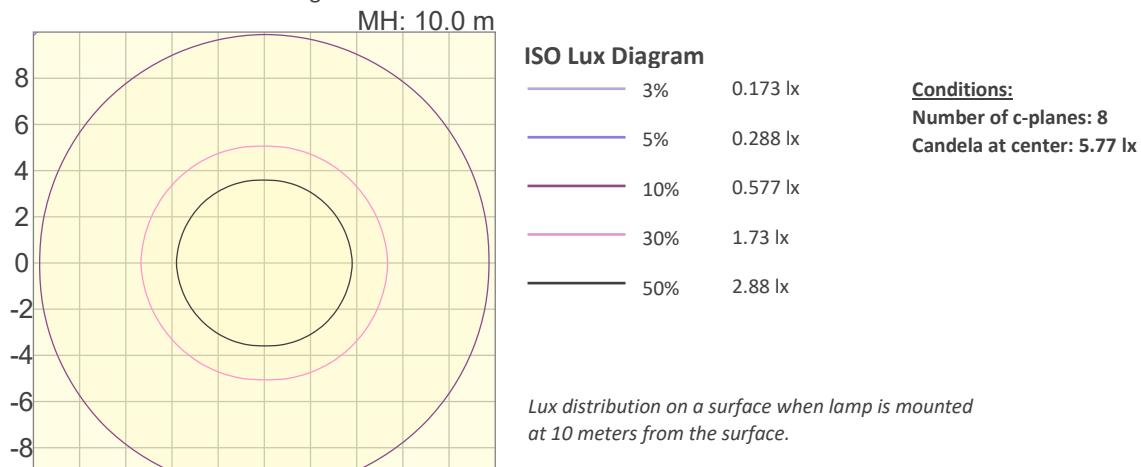
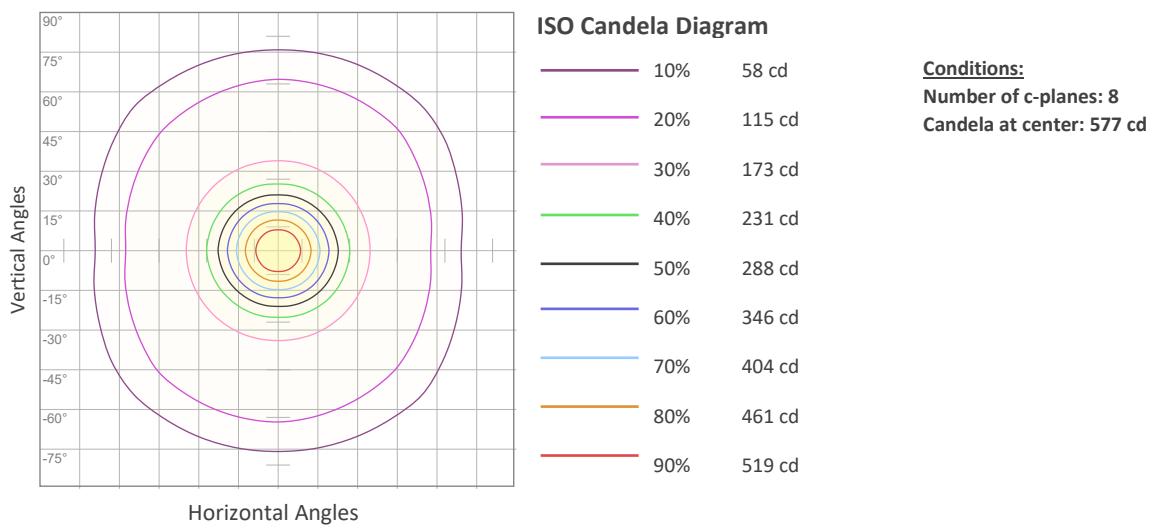
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	577	144	64	36	23	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	54	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only



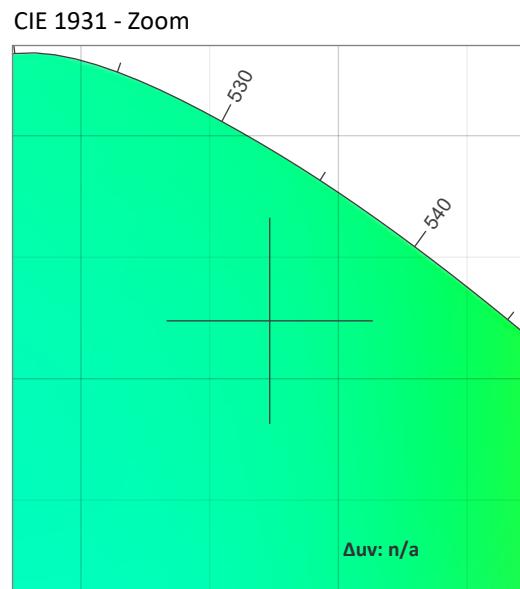
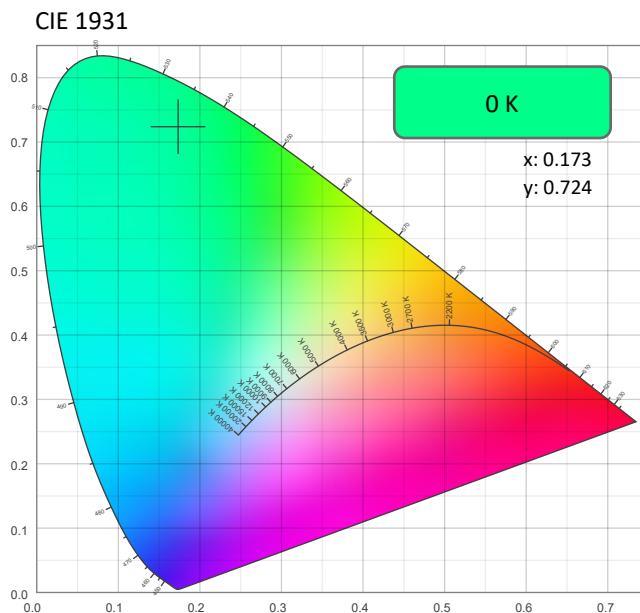
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.173	0.724

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.724	0.061

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only

## TM-30 Details

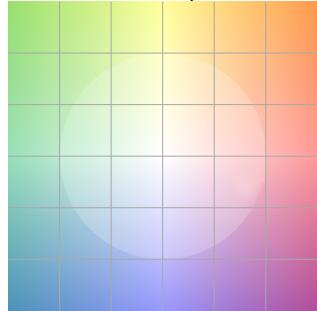
**Rf 0.0**

Fidelity Index  
(R<sub>f</sub>)

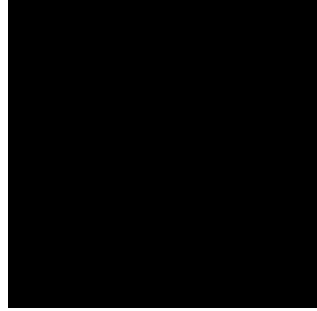
**Rg 0.0**

Gammut Index (R<sub>g</sub>)

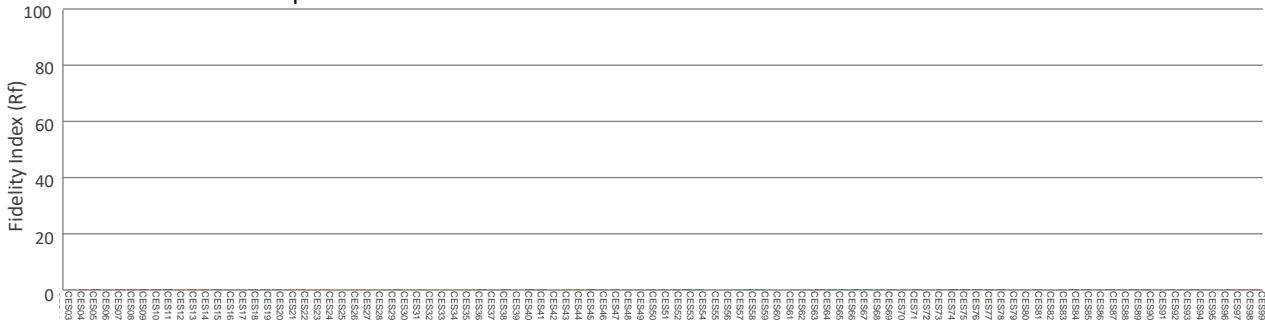
Color Vector Graphic



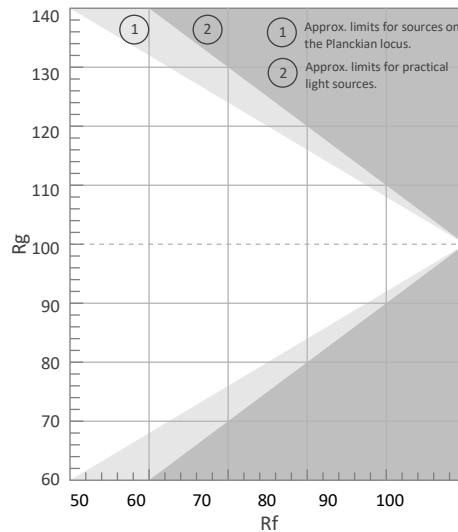
Color Distortion Graphic



Color Evaluation Sample



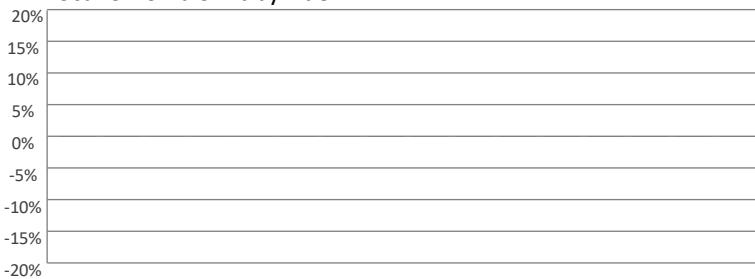
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



R<sub>f</sub> by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

## Report Summary

### Measurements

Fixture Output: 407 lm

Fixture Peak: 208 cd

Fixture Efficacy: 12 lm/W

Intensity @ 5m: 8 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 50.3°

Field Angle (10%): 167.8°

Cutoff Angle (2%): 262.9°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 35.35 W

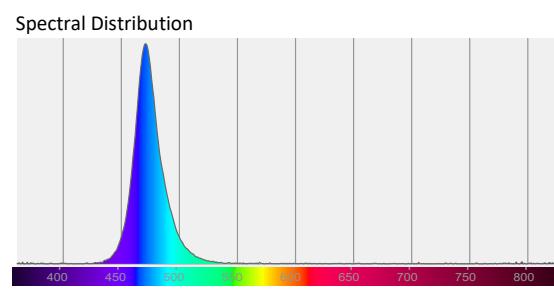
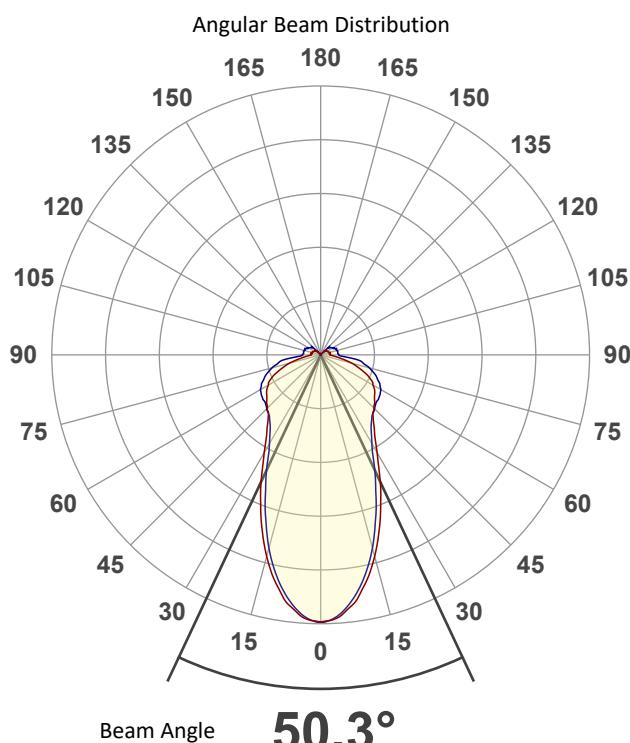
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.121  
Y: 0.096

### Light Quality

CRI: 0.0

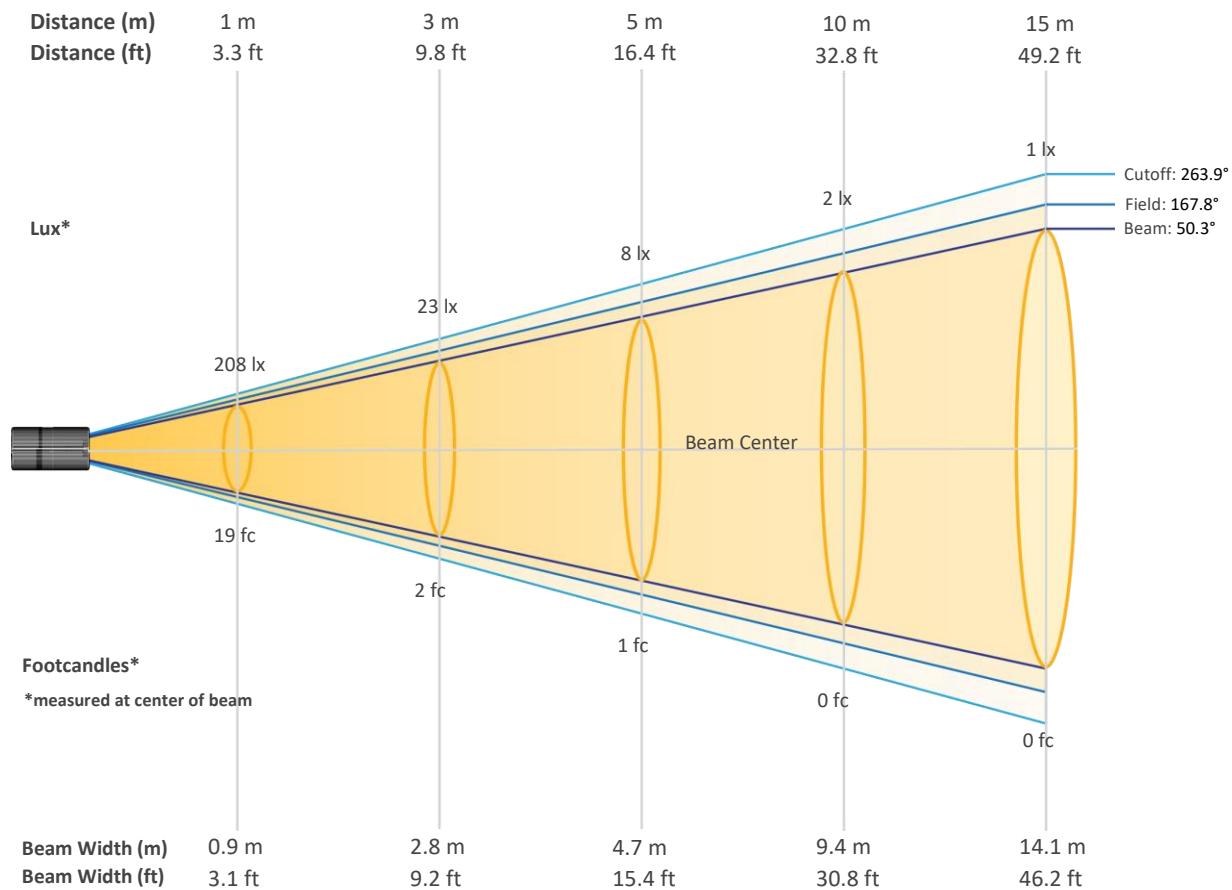
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

## Beam Details



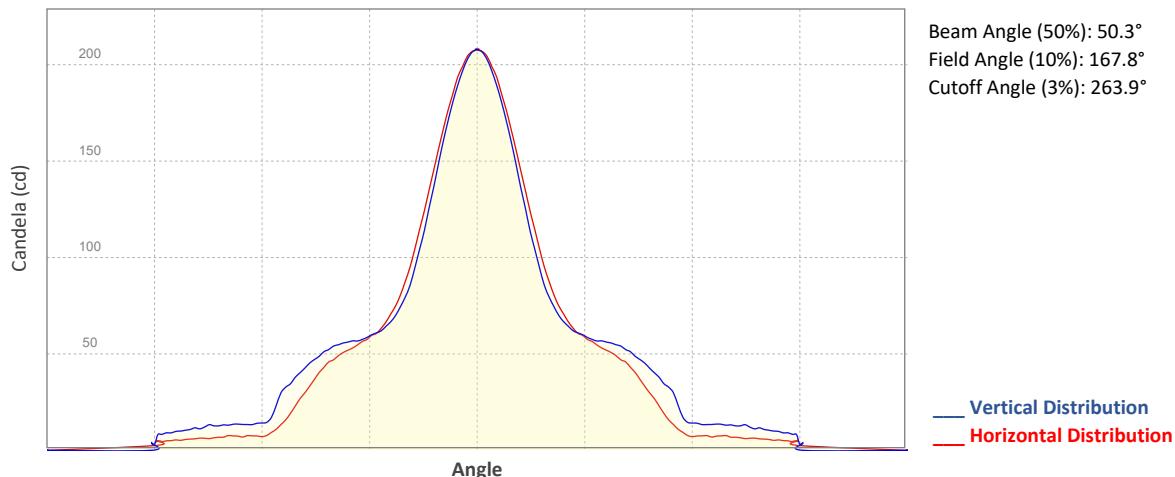
## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	208	52	23	13	8	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	19	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

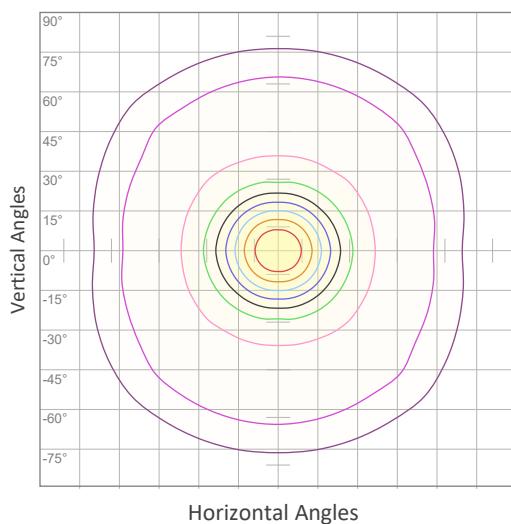
# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

Candela Plot



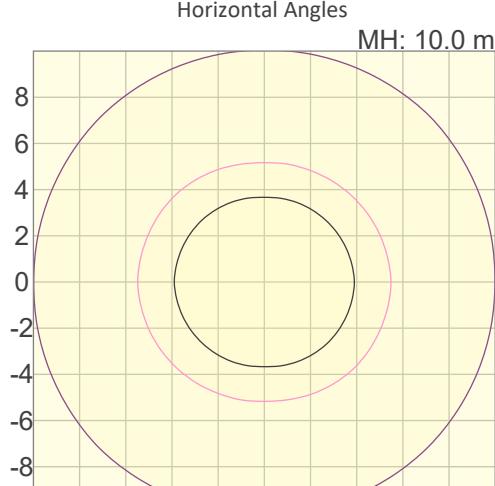
## ISO Diagrams



ISO Candela Diagram

10%	21 cd
20%	42 cd
30%	62 cd
40%	83 cd
50%	104 cd
60%	125 cd
70%	146 cd
80%	166 cd
90%	187 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 208 cd



ISO Lux Diagram

3%	62.4m lx
5%	0.104 lx
10%	0.208 lx
30%	0.624 lx
50%	1.04 lx

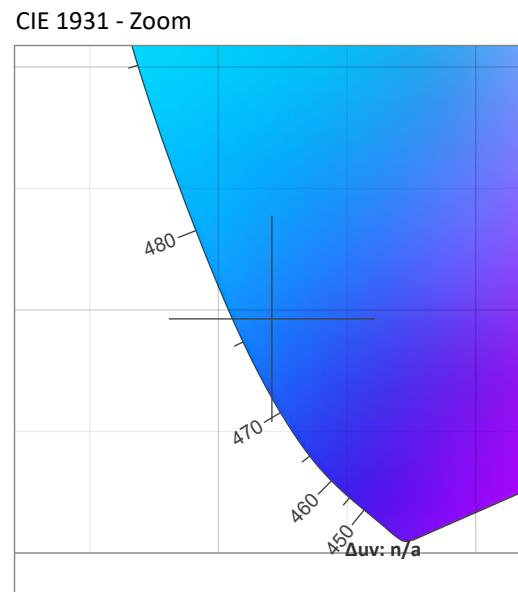
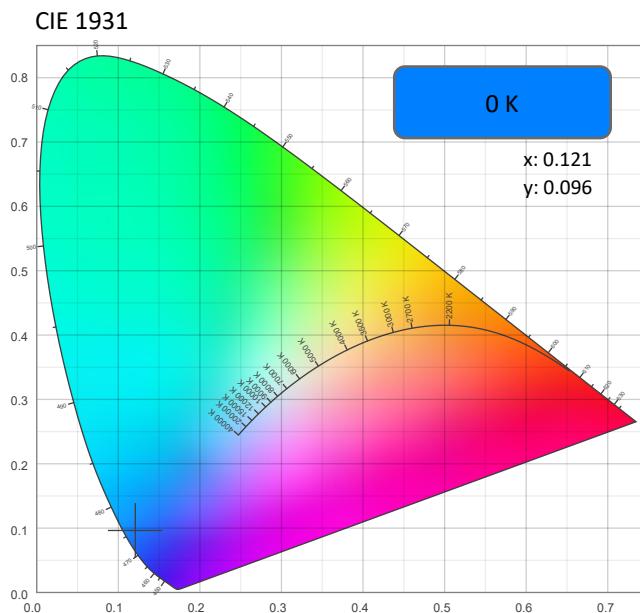
Conditions:  
Number of c-planes: 8  
Candela at center: 2.08 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.121	0.096

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.096	0.123

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

## TM-30 Details

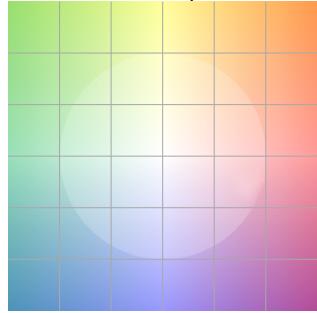
**Rf 0.0**

Fidelity Index  
(Rg)

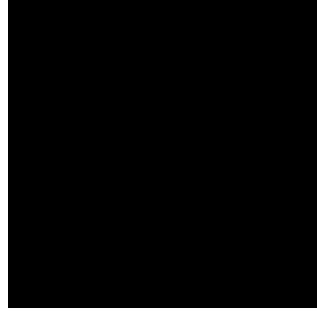
**Rg 0.0**

Gammut Index (Rg)

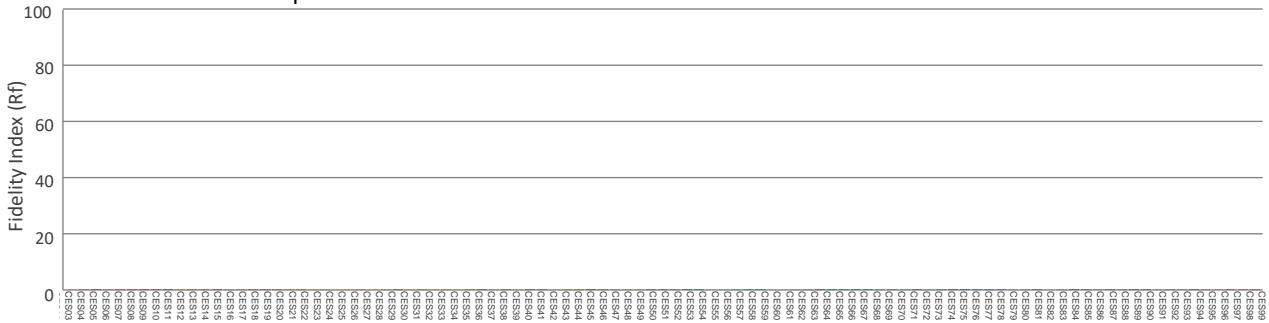
Color Vector Graphic



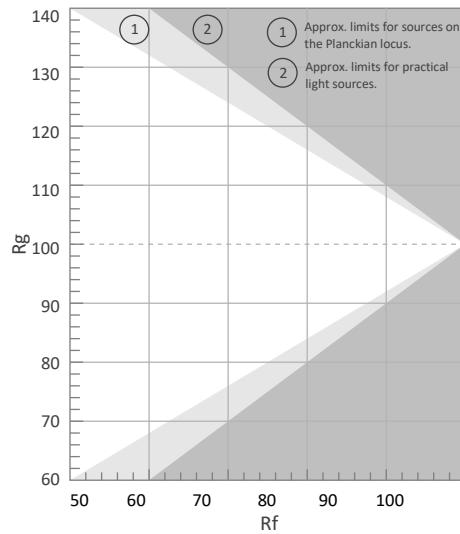
Color Distortion Graphic



Color Evaluation Sample



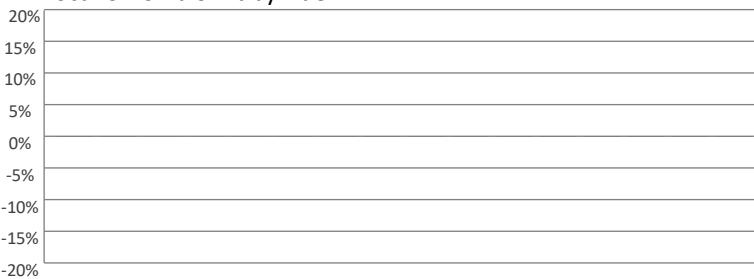
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

## Report Summary

### Measurements

Fixture Output: 1704 lm  
Fixture Peak: 909 cd  
Fixture Efficacy: 51 lm/W  
Intensity @ 5m: 36 lux  
Color Temperature: 3050 K  
CRI: 84.8      CRI R9 Value: 15.3  
CQS: 83.8

TLCI: 73

TM-30 Rf: 86.0

TM-30 Rg: 95.2

Beam Angle (50%): 49.3°

Field Angle (10%): 166.2°

Cutoff Angle (2%): 257.1°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 35.43 W

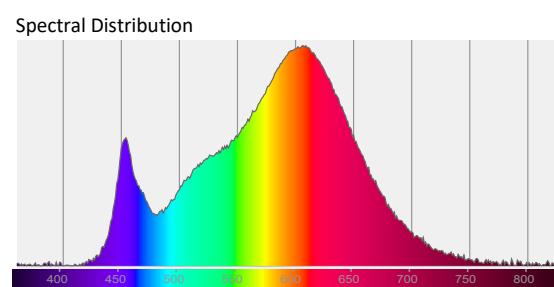
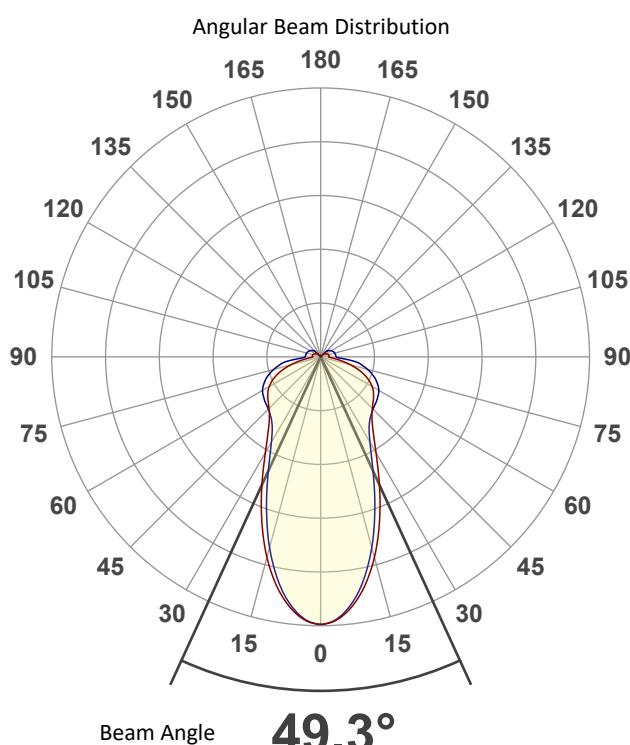
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.432  
Y: 0.400

### Light Quality



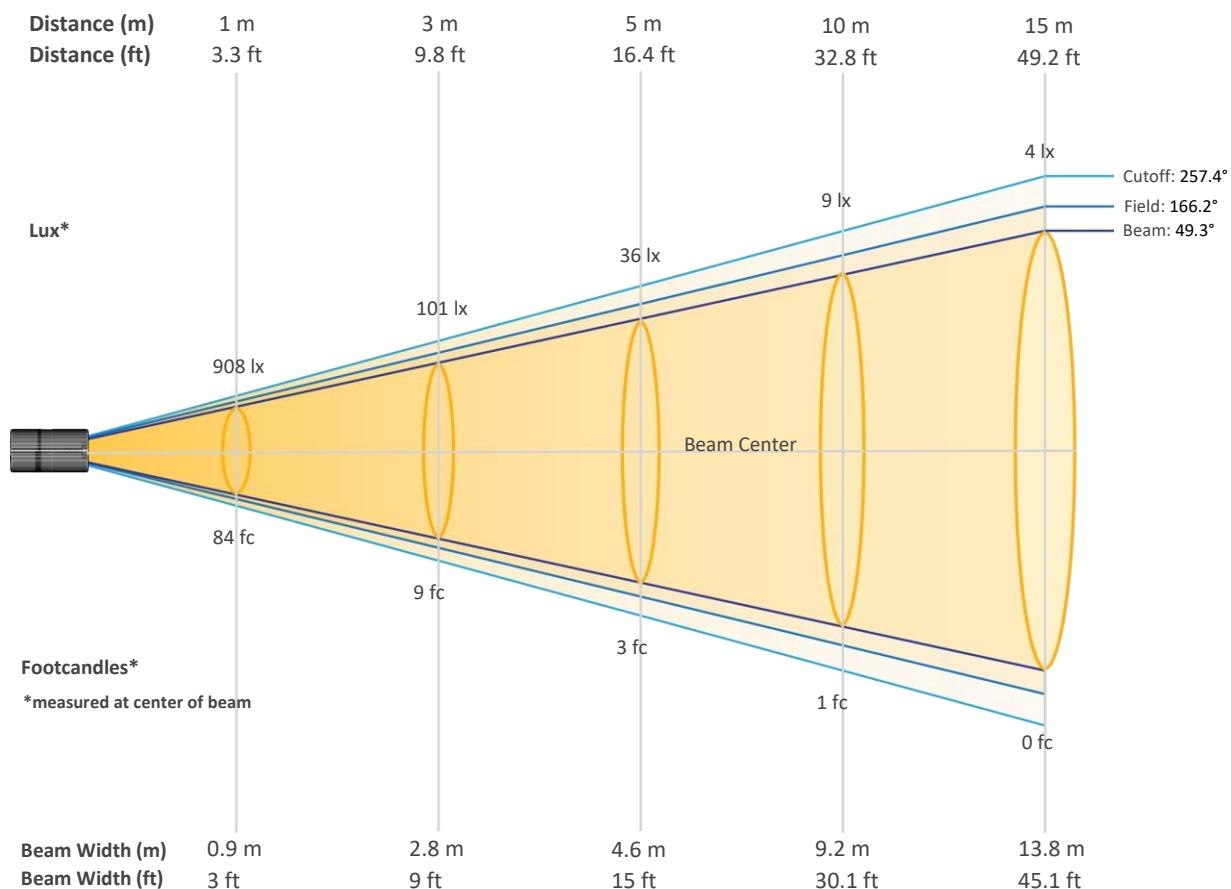
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

## Beam Details



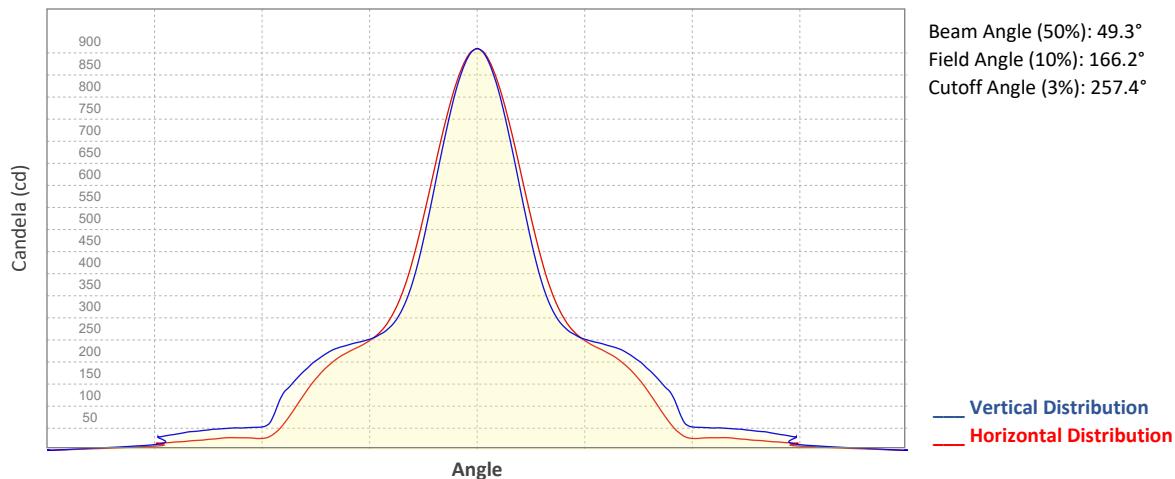
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	908	227	101	57	36	25	19	14	11	9
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	6	5	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	84	21	9	5	3	2	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	0	0	0	0	0	0	0	0

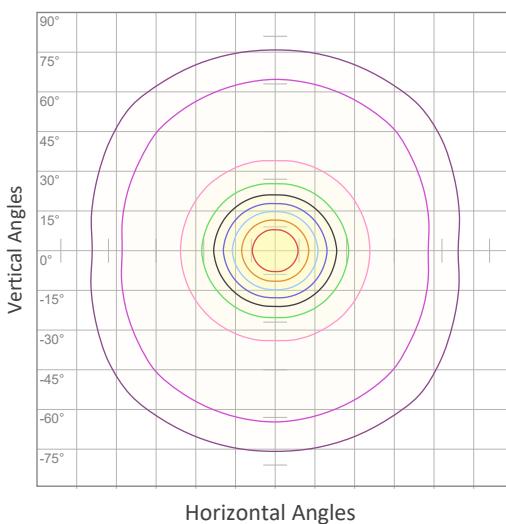
# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

Candela Plot



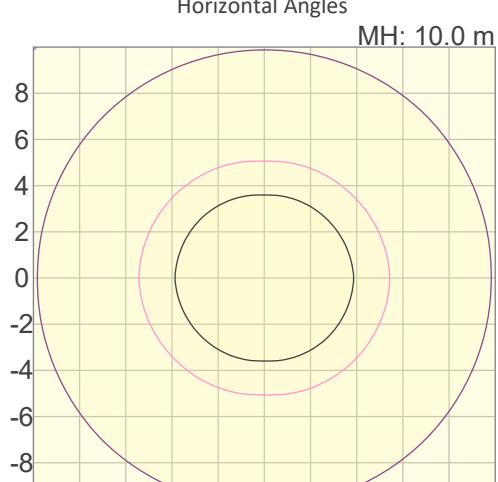
## ISO Diagrams



ISO Candela Diagram

10%	91 cd
20%	182 cd
30%	272 cd
40%	363 cd
50%	454 cd
60%	545 cd
70%	635 cd
80%	726 cd
90%	817 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 908 cd



ISO Lux Diagram

3%	0.272 lx
5%	0.454 lx
10%	0.908 lx
30%	2.72 lx
50%	4.54 lx

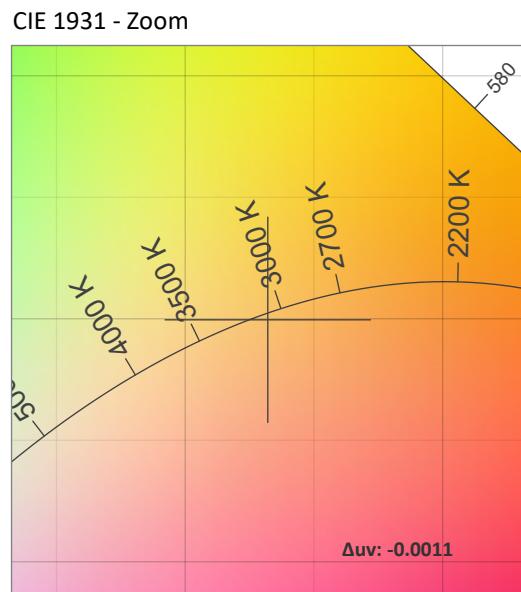
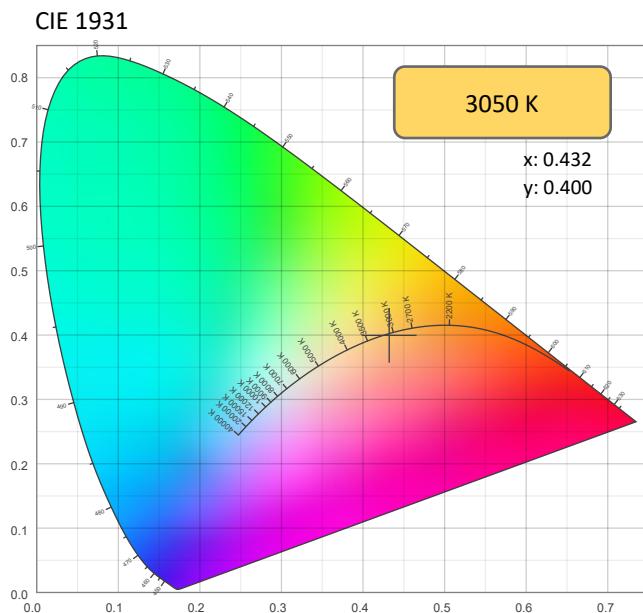
Conditions:  
Number of c-planes: 8  
Candela at center: 9.08 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

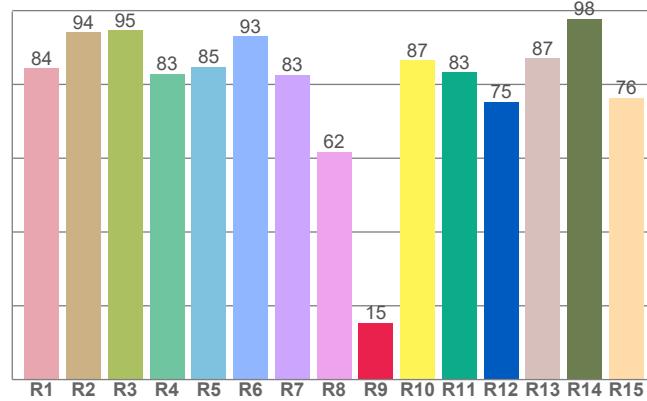
# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

## Chromaticity



CRI: 84.8 (R1-R8)

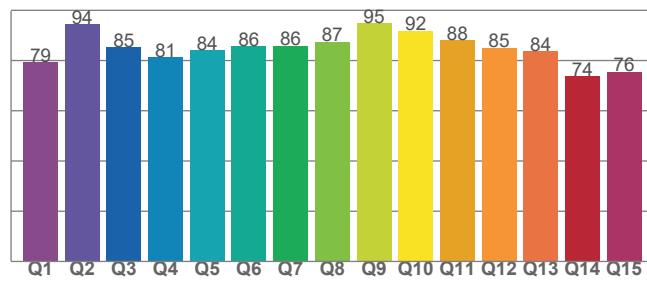


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3050 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0011	0.400	0.249

CQS: 83.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.8	15.3	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	86.0	95.2

# Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

## TM-30 Details

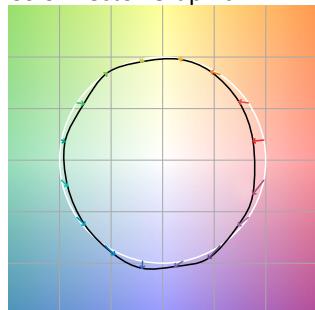
**Rf 86.0**

Fidelity Index  
(Rg)

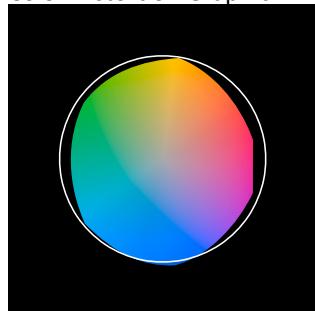
**Rg 95.2**

Gammut Index (Rg)

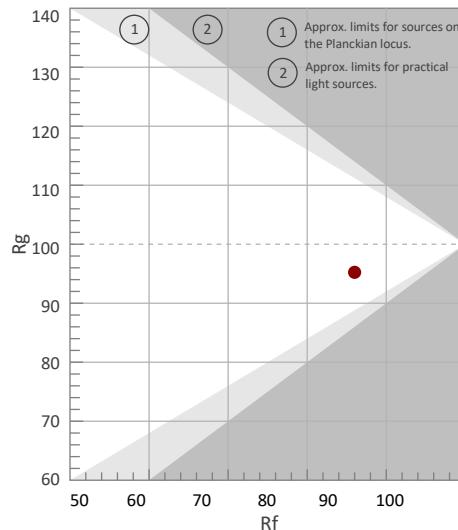
Color Vector Graphic



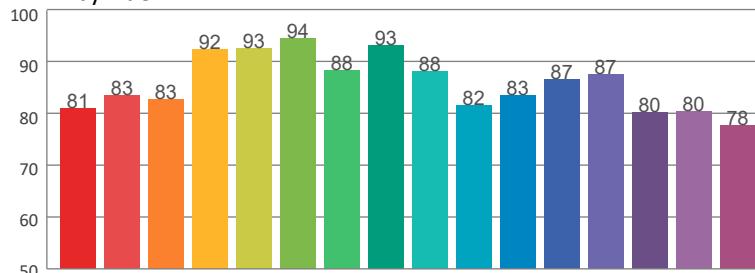
Color Distortion Graphic



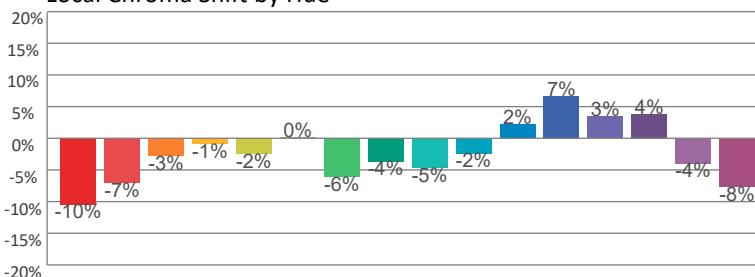
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	93	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	82	-2%	10%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



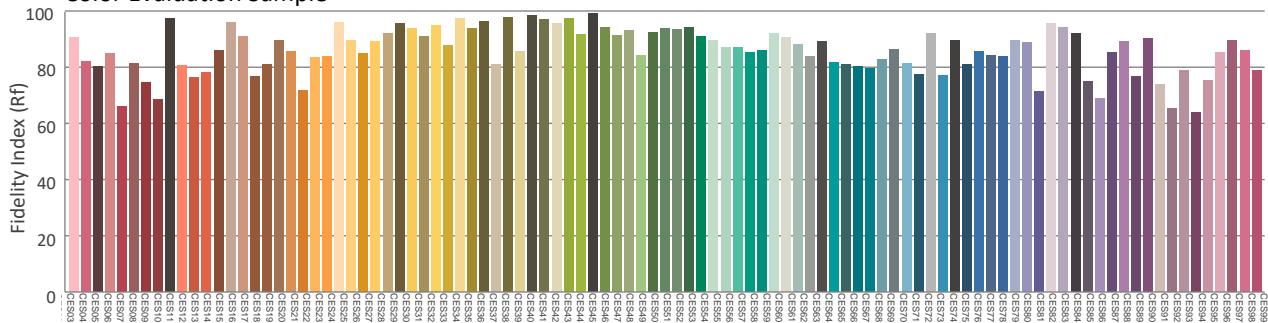
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 2498 lm  
Fixture Peak: 3370 cd  
Fixture Efficacy: 50 lm/W  
Intensity @ 5m: 135 lux  
Color Temperature: 5546 K  
CRI: 69.5 CRI R9 Value: 26.9  
CQS: 81.6

TLCI: 79

TM-30 Rf: 73.1

TM-30 Rg: 93.1

Beam Angle (50%): 36.6°

Field Angle (10%): 76.8°

Cutoff Angle (2%): 187.5°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 52.11 W

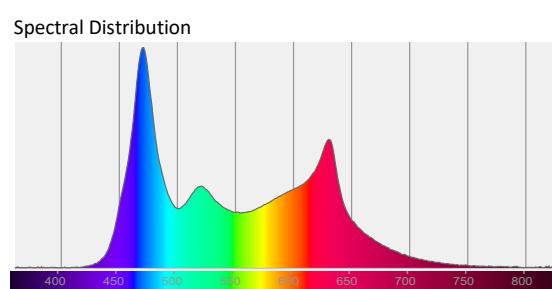
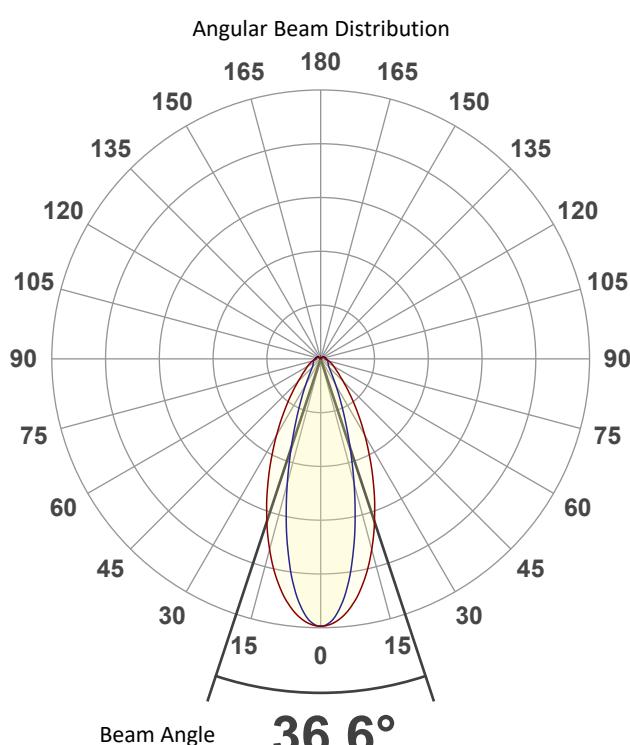
Current: 0.439 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.331  
Y: 0.319

### Light Quality



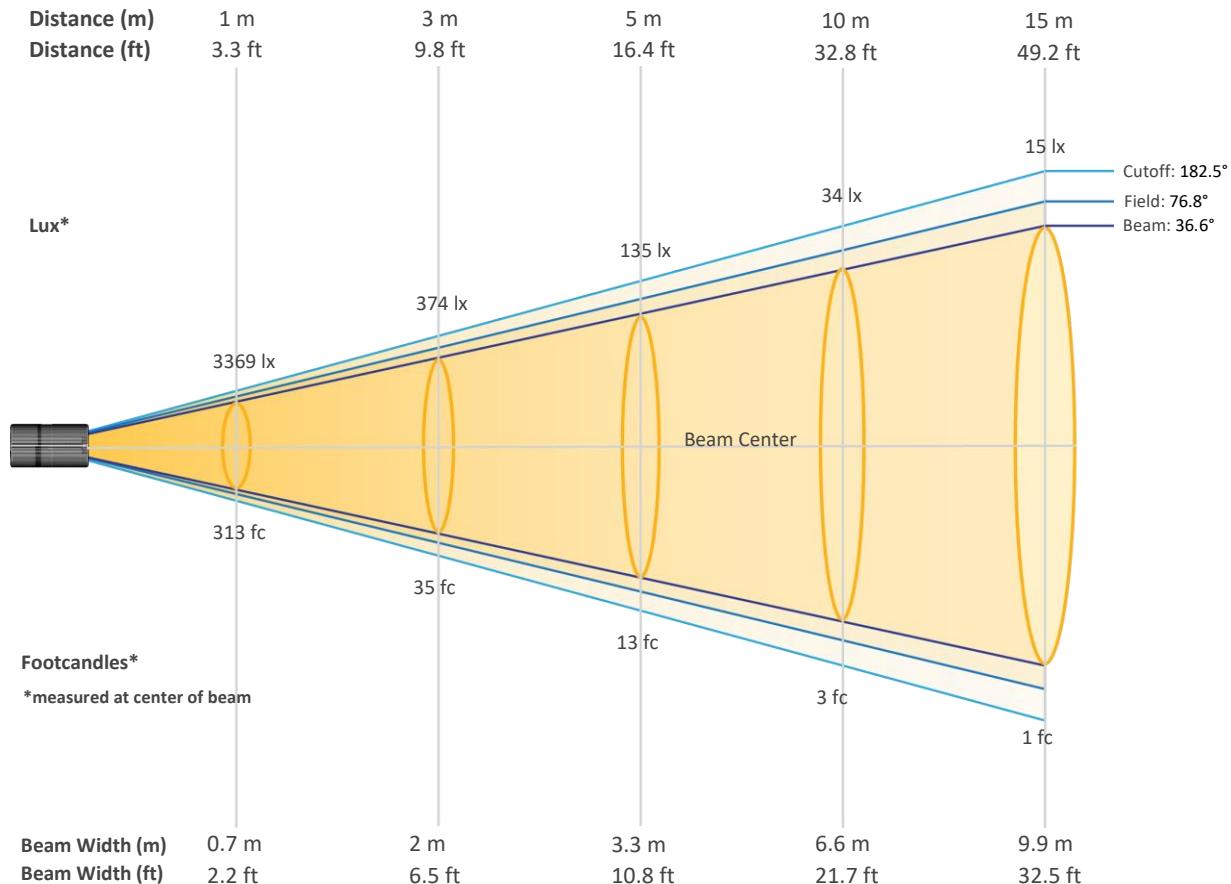
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power

## Beam Details

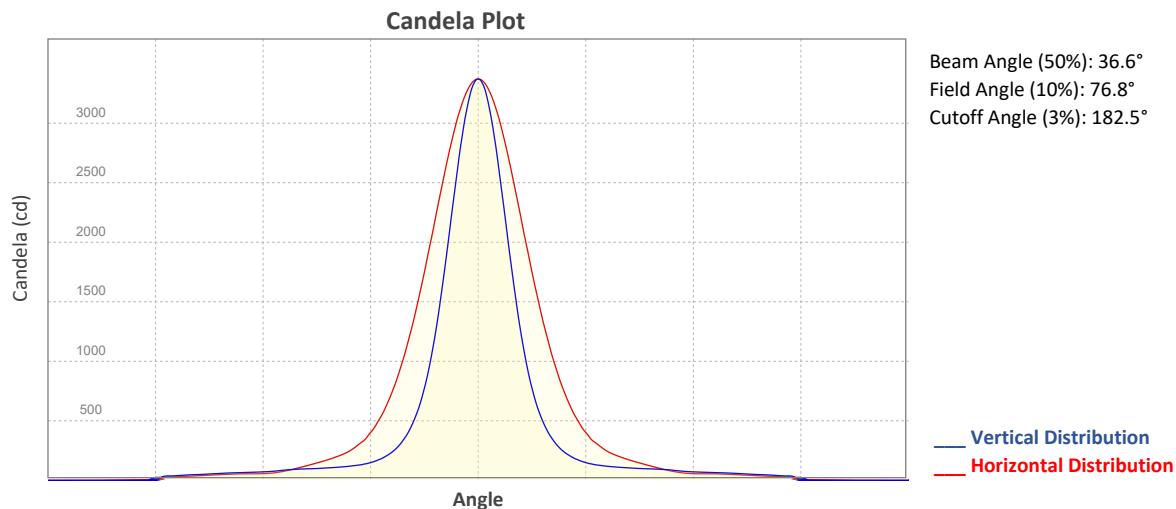


## Beam Intensities from 1-20m (3.3-65.6ft)

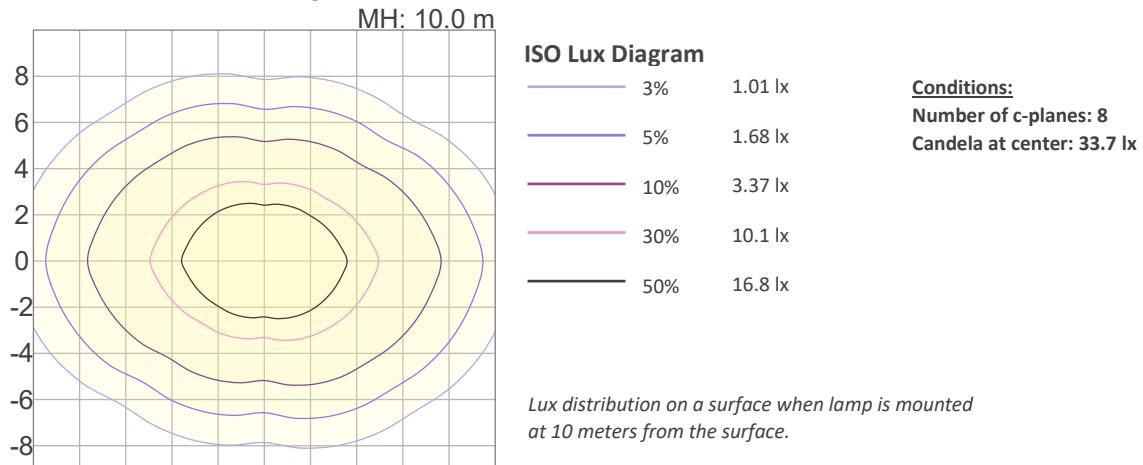
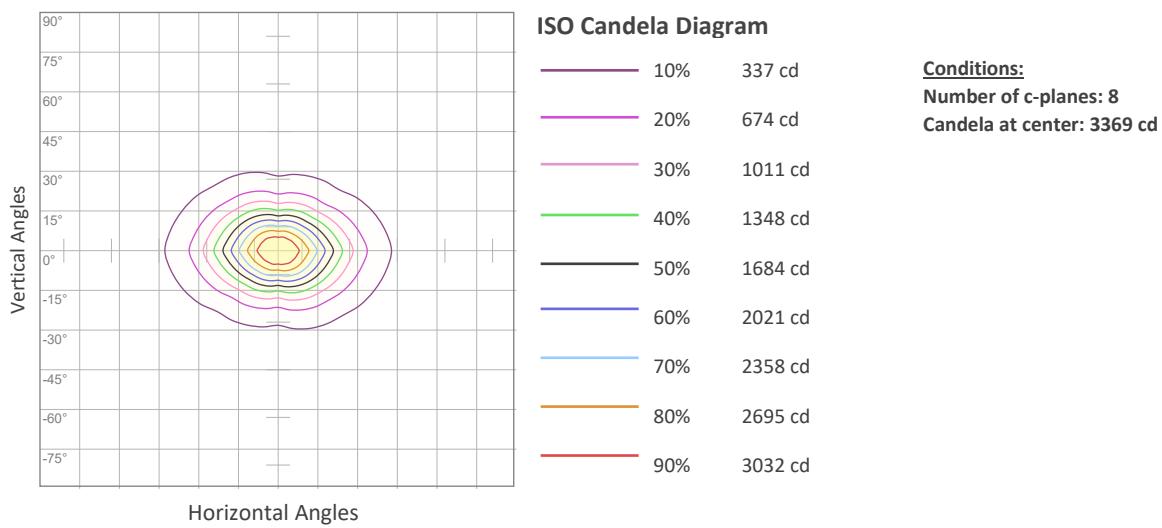
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3369	842	374	211	135	94	69	53	42	34
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	28	23	20	17	15	13	12	10	9	8
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	313	78	35	20	13	9	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power



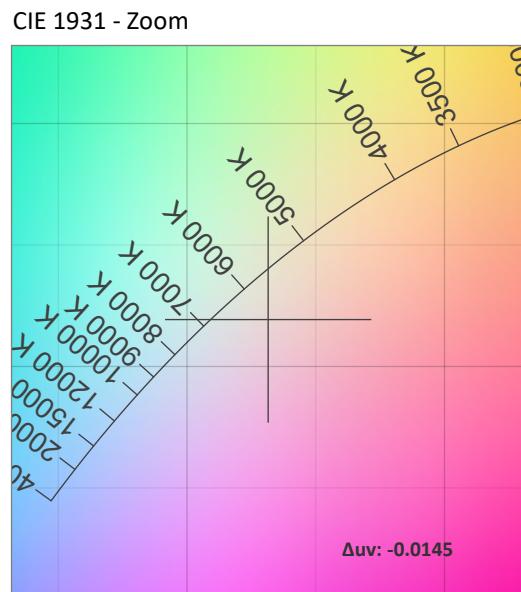
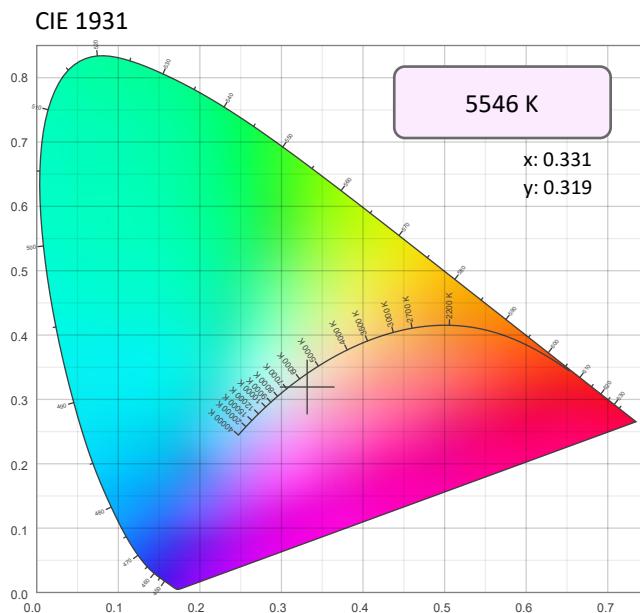
## ISO Diagrams



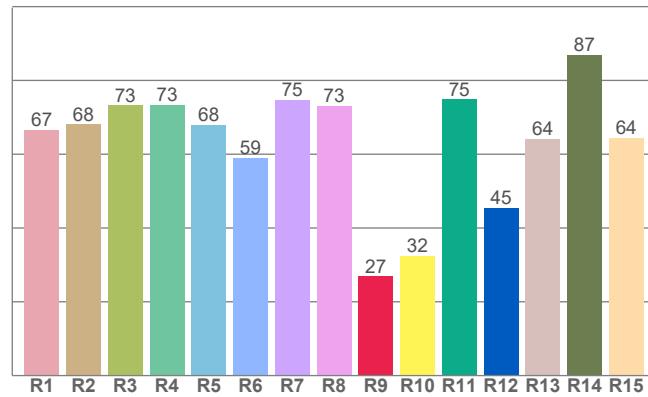
# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power

## Chromaticity



CRI: 69.5 (R1-R8)

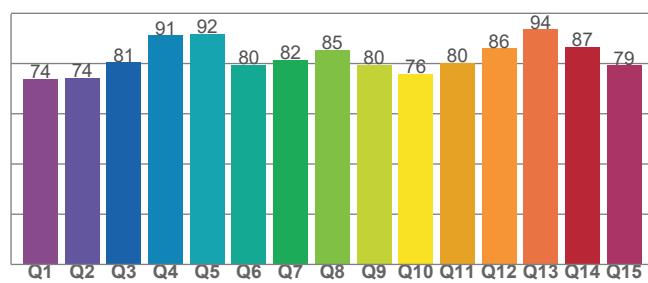


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5546 K	0.331	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0145	0.319	0.215

CQS: 81.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.5	26.9	81.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.1	93.1

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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW @ Full

## TM-30 Details

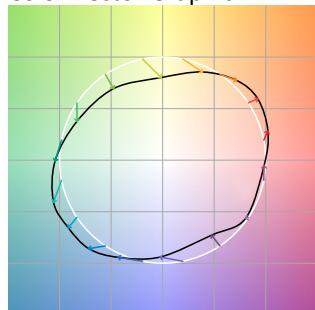
**Rf 73.1**

Fidelity Index  
(Rg)

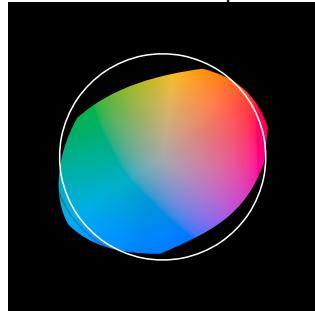
**Rg 93.1**

Gammut Index (Rg)

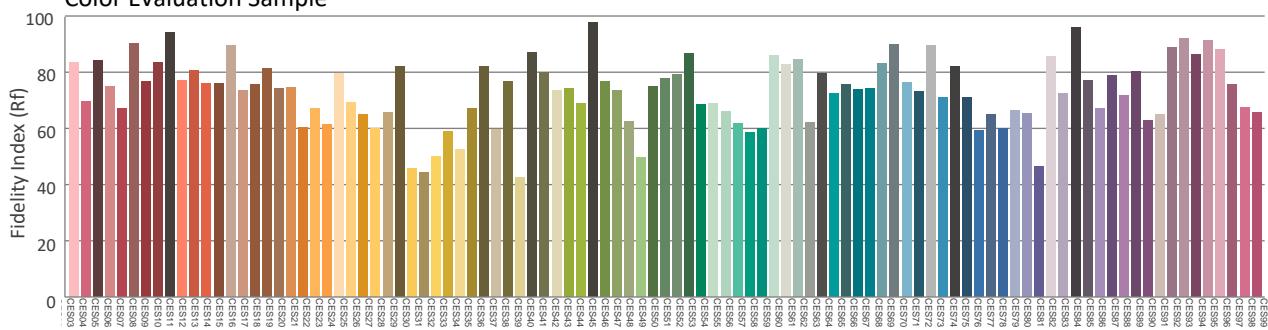
Color Vector Graphic



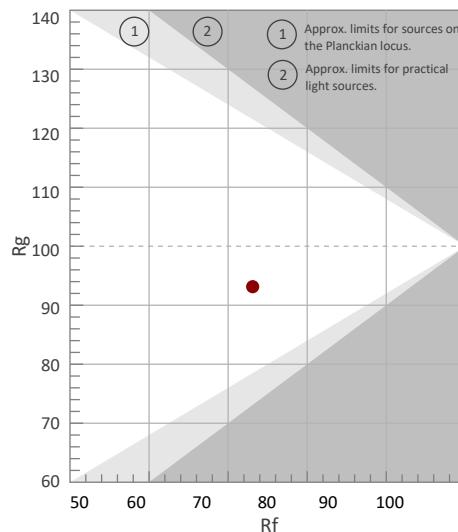
Color Distortion Graphic



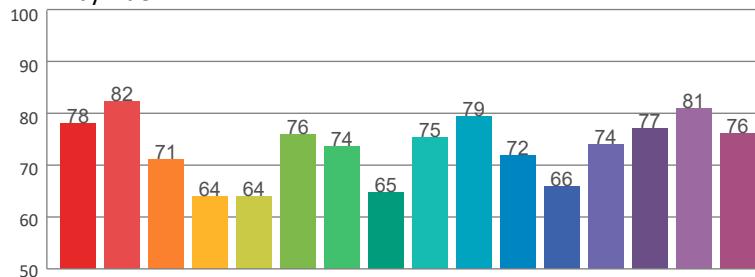
Color Evaluation Sample



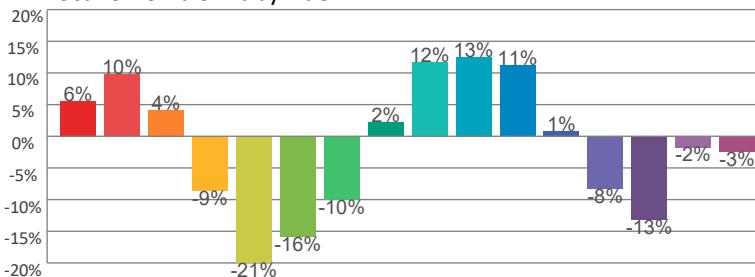
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	4%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-3%	14%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

## Report Summary

### Measurements

Fixture Output: 653 lm

Fixture Peak: 992 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 40 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 32.9°

Field Angle (10%): 72.3°

Cutoff Angle (2%): 156.2°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 33.16 W

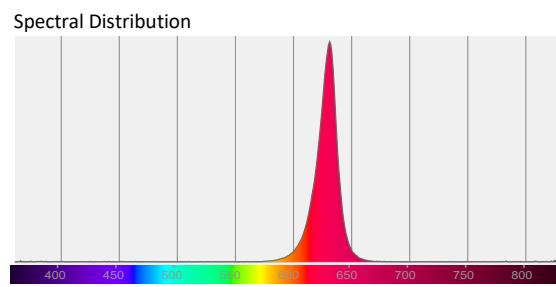
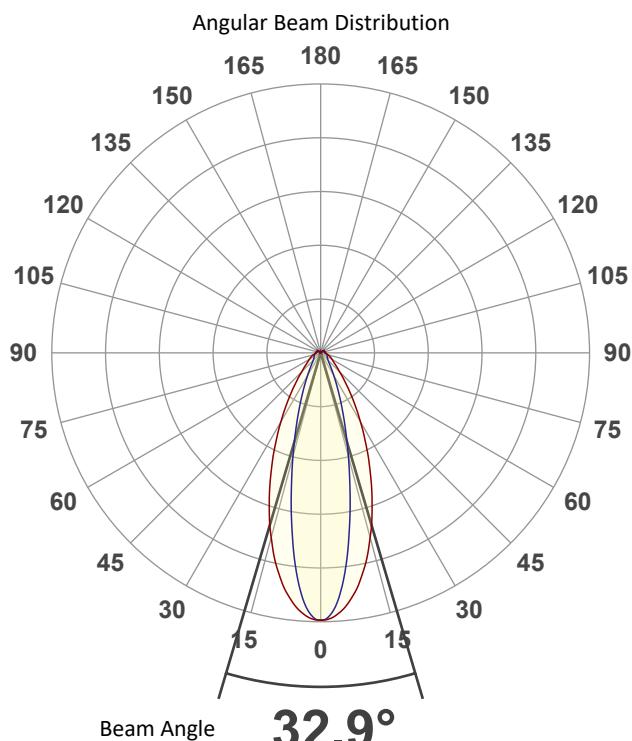
Current: 0.278 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.694  
Y: 0.306

### Light Quality

CRI: 0.0

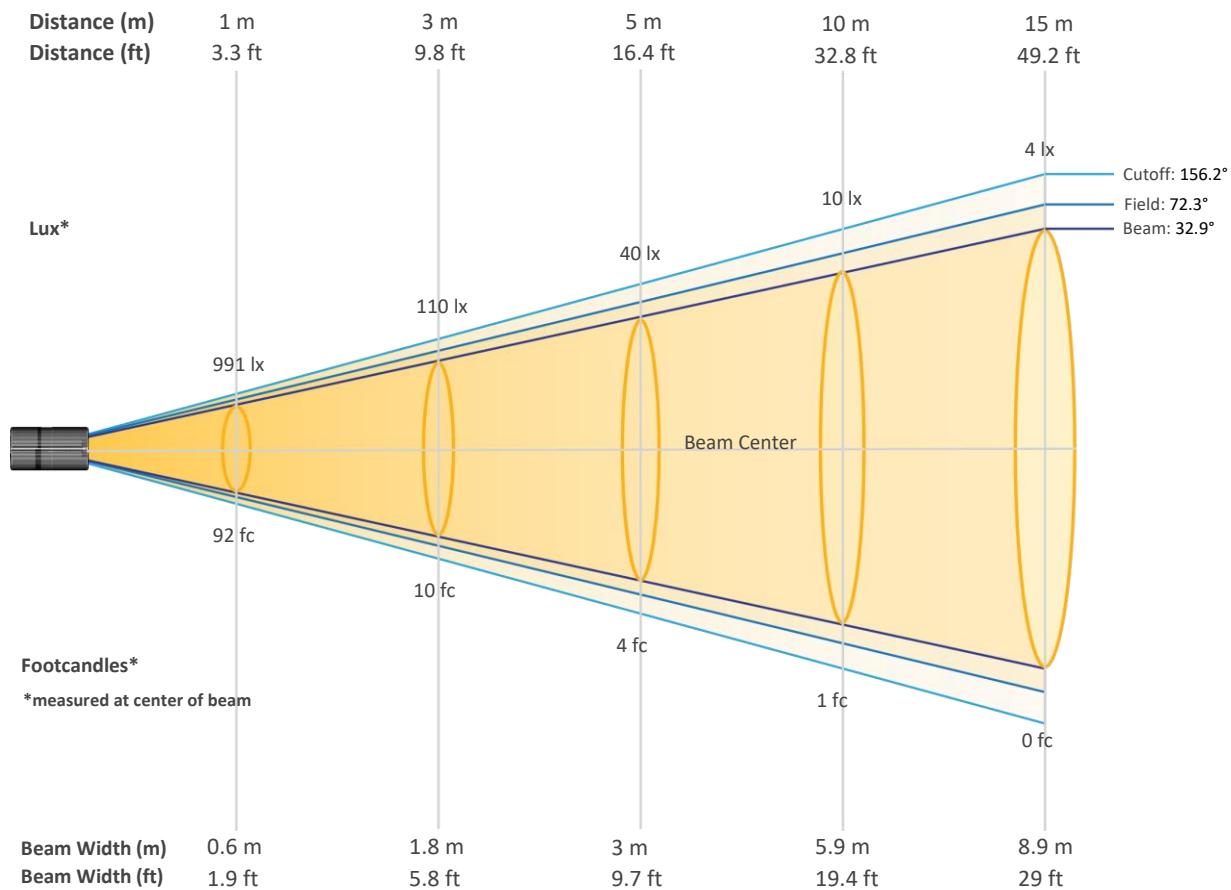
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

## Beam Details



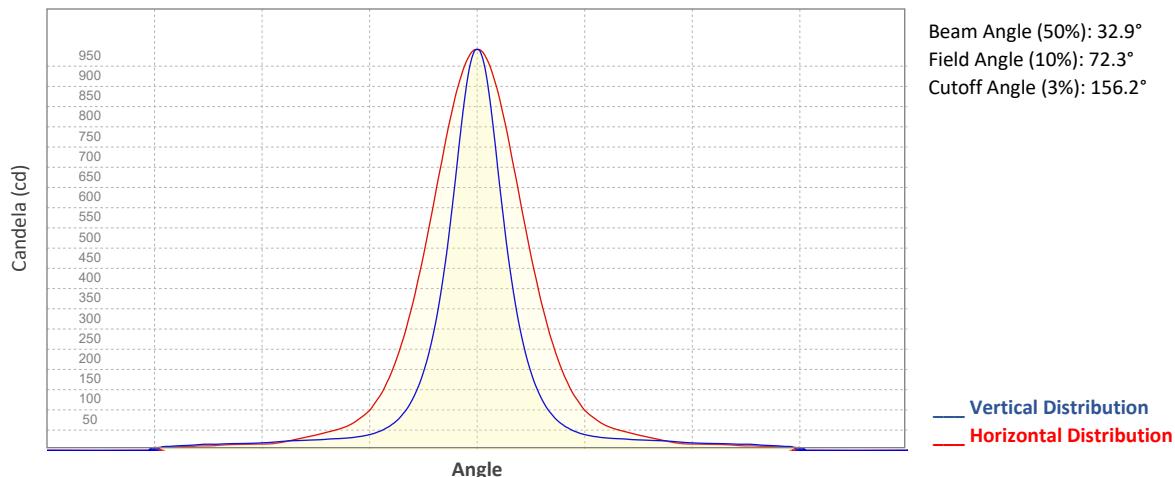
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	991	248	110	62	40	28	20	15	12	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	92	23	10	6	4	3	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	0	0	0	0	0	0	0

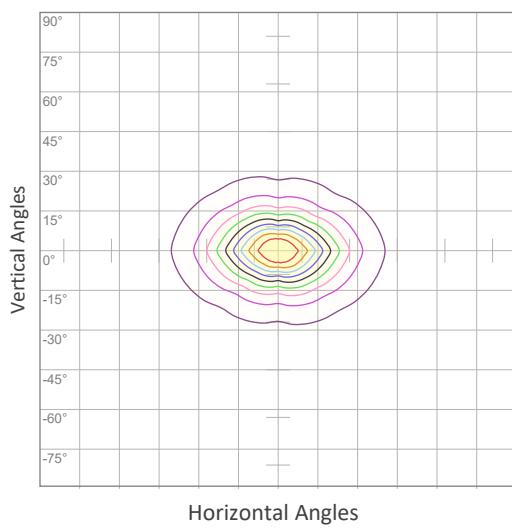
# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

Candela Plot



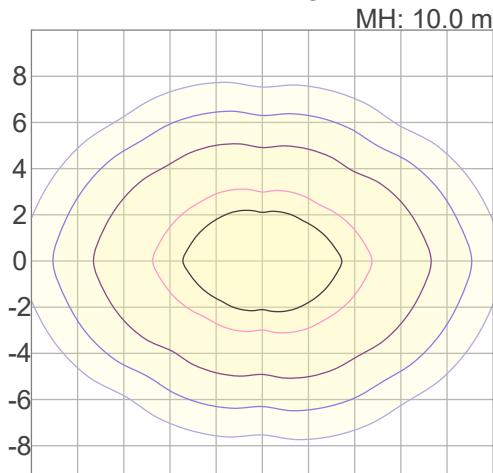
## ISO Diagrams



ISO Candela Diagram

10%	99 cd
20%	198 cd
30%	297 cd
40%	397 cd
50%	496 cd
60%	595 cd
70%	694 cd
80%	793 cd
90%	892 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 991 cd



ISO Lux Diagram

3%	0.297 lx
5%	0.496 lx
10%	0.991 lx
30%	2.97 lx
50%	4.96 lx

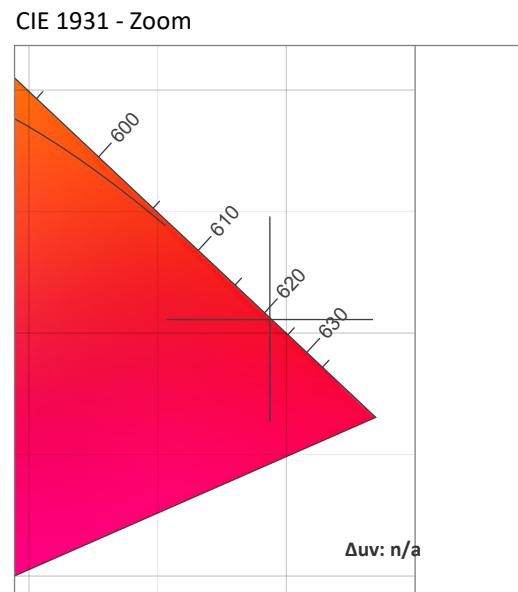
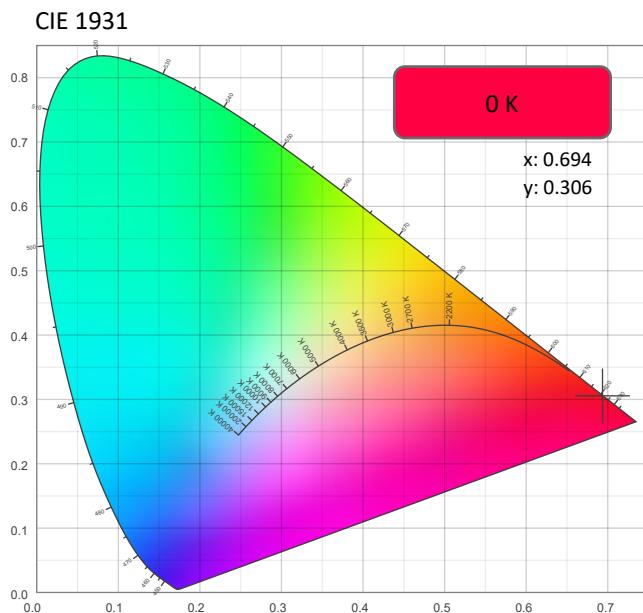
Conditions:  
Number of c-planes: 8  
Candela at center: 9.91 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.694	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.525

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

## TM-30 Details

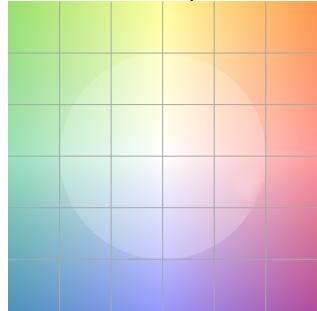
**Rf 0.0**

Fidelity Index  
(Rg)

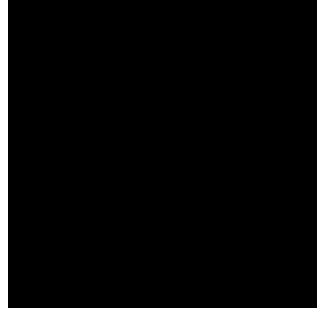
**Rg 0.0**

Gammut Index (Rg)

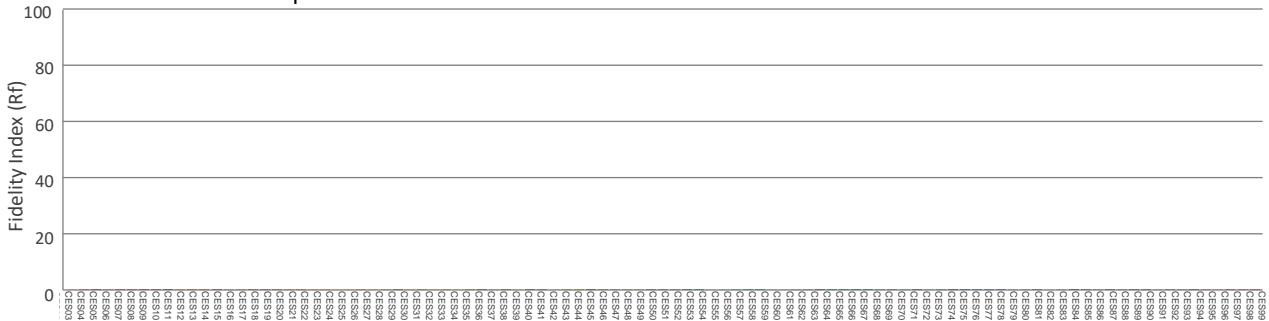
Color Vector Graphic



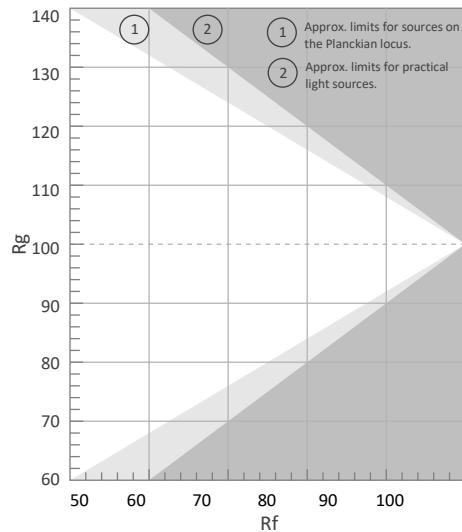
Color Distortion Graphic



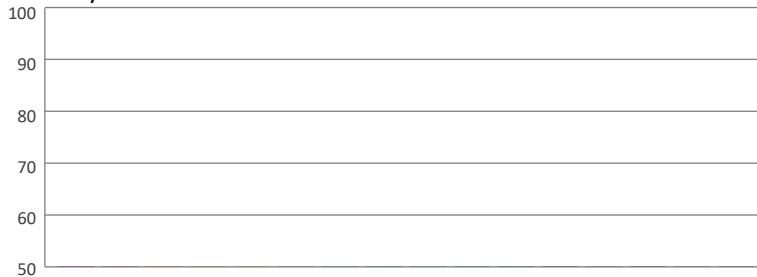
Color Evaluation Sample



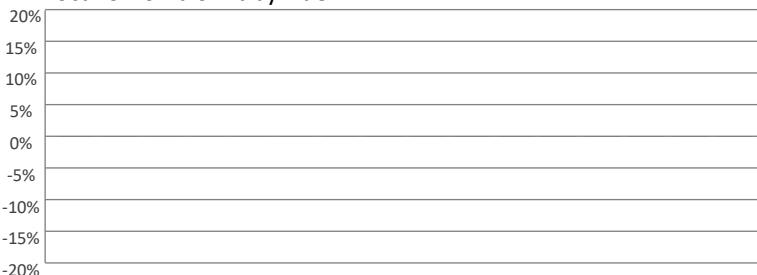
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only

## Report Summary

### Measurements

Fixture Output: 1315 lm

Fixture Peak: 1917 cd

Fixture Efficacy: 41 lm/W

Intensity @ 5m: 77 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 33.8°

Field Angle (10%): 74.1°

Cutoff Angle (2%): 177.1°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 34.2 W

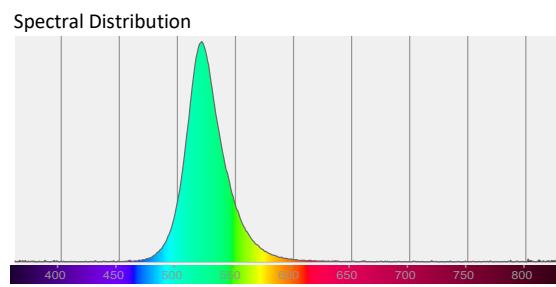
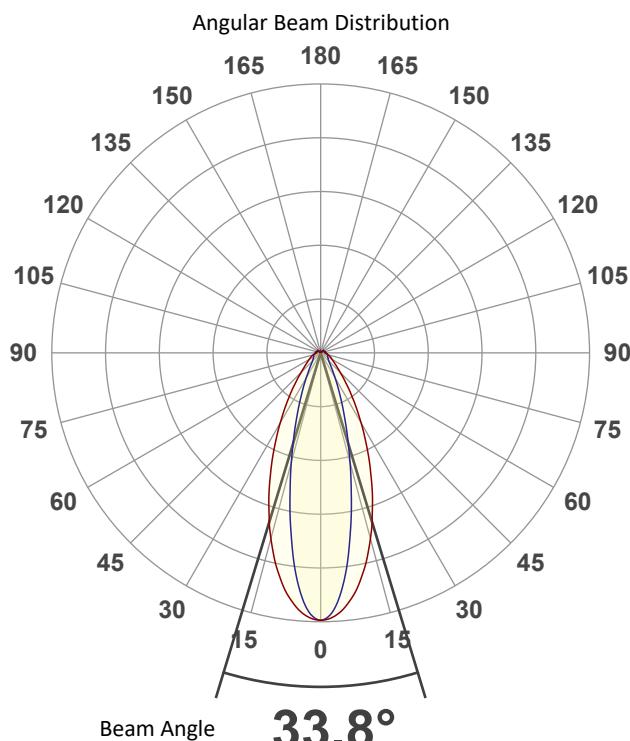
Current: 0.287 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.174  
Y: 0.724



### Light Quality

CRI: 0.0

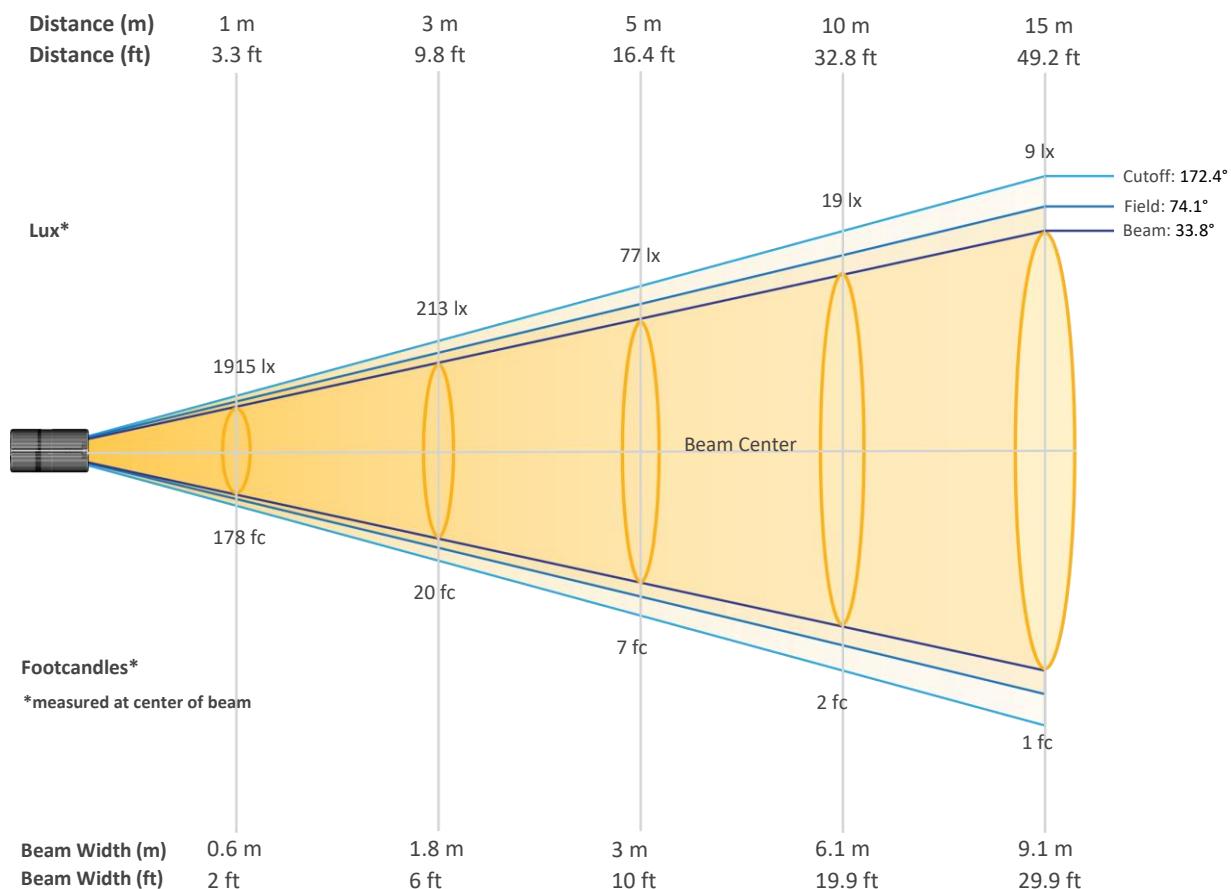
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only

## Beam Details

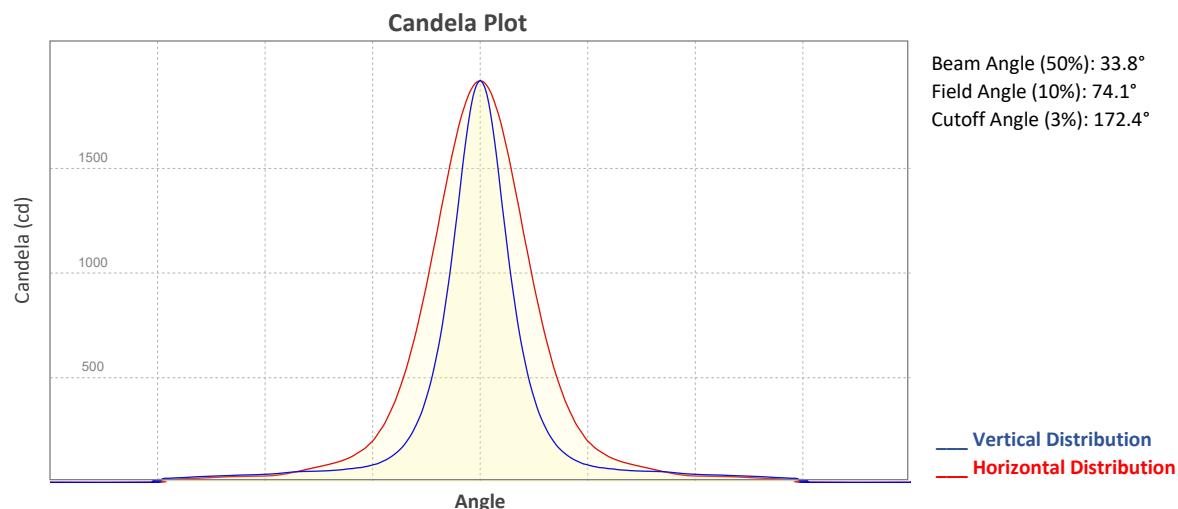


## Beam Intensities from 1-20m (3.3-65.6ft)

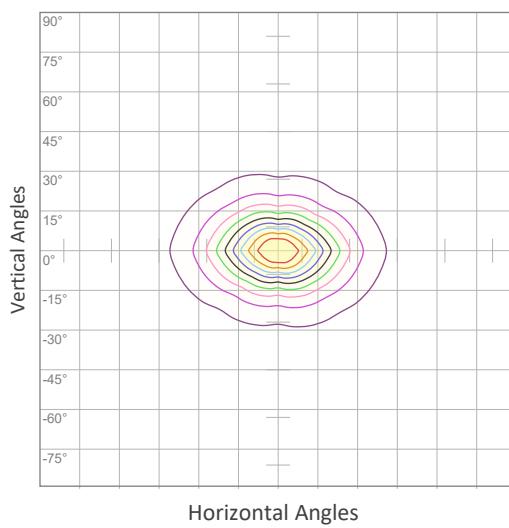
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1915	479	213	120	77	53	39	30	24	19
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	16	13	11	10	9	7	7	6	5	5
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	178	44	20	11	7	5	4	3	2	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	1	1	1	0	0

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only



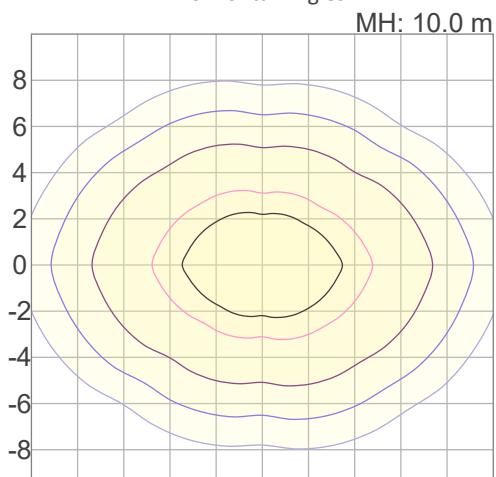
## ISO Diagrams



ISO Candela Diagram

10%	192 cd
20%	383 cd
30%	575 cd
40%	766 cd
50%	958 cd
60%	1149 cd
70%	1341 cd
80%	1532 cd
90%	1724 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 1915 cd



ISO Lux Diagram

3%	0.575 lx
5%	0.958 lx
10%	1.92 lx
30%	5.75 lx
50%	9.58 lx

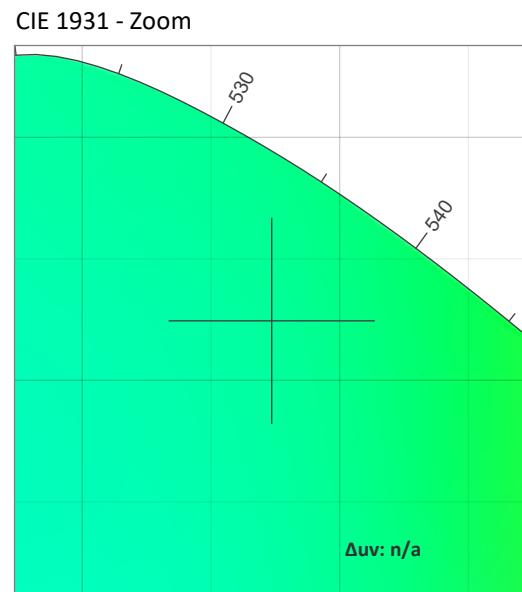
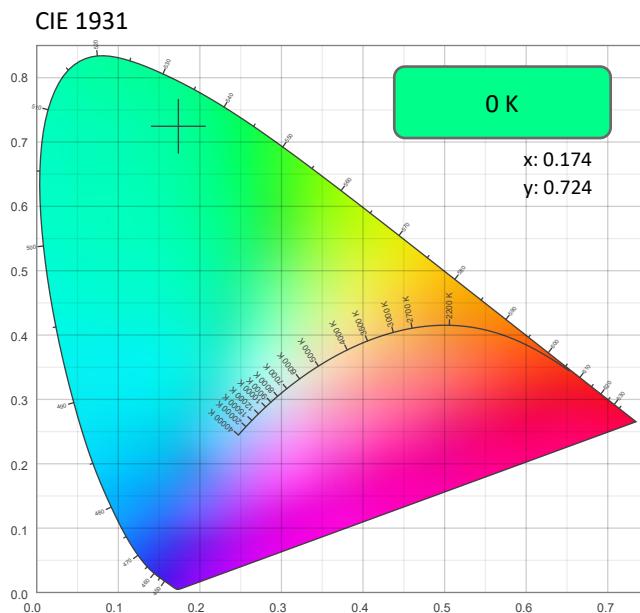
Conditions:  
Number of c-planes: 8  
Candela at center: 19.2 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.174	0.724

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.724	0.061

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only

## TM-30 Details

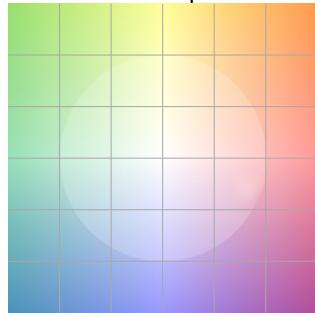
**Rf 0.0**

Fidelity Index  
(Rg)

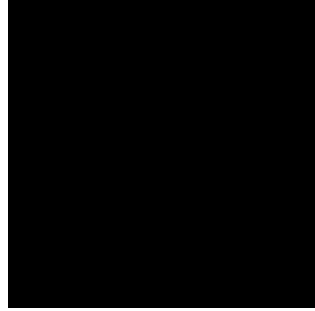
**Rg 0.0**

Gammut Index (Rg)

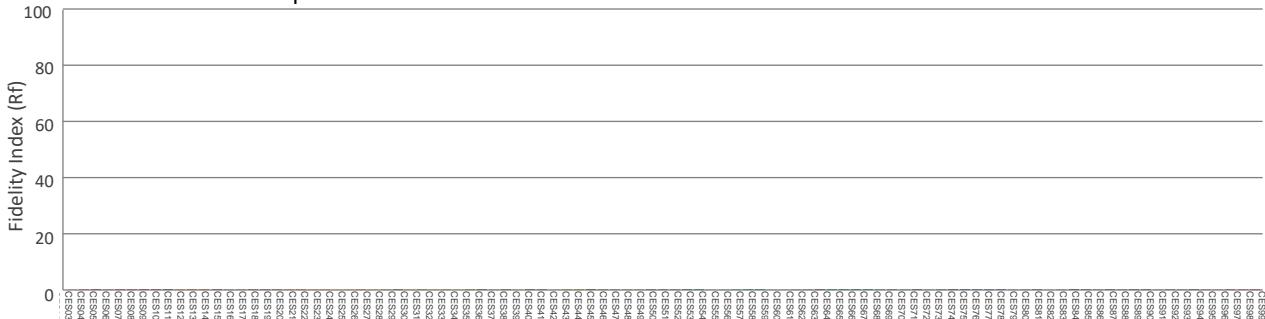
Color Vector Graphic



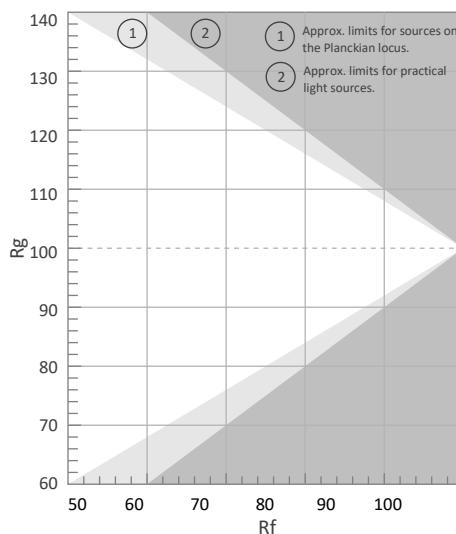
Color Distortion Graphic



Color Evaluation Sample



Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only

## Report Summary

### Measurements

Fixture Output: 487 lm  
Fixture Peak: 606 cd  
Fixture Efficacy: 15 lm/W  
Intensity @ 5m: 24 lux  
Color Temperature: 0 K  
CRI: 0.0 CRI R9 Value: 0.0  
CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 37.9°

Field Angle (10%): 79.9°

Cutoff Angle (2%): 102.7°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 35.29 W

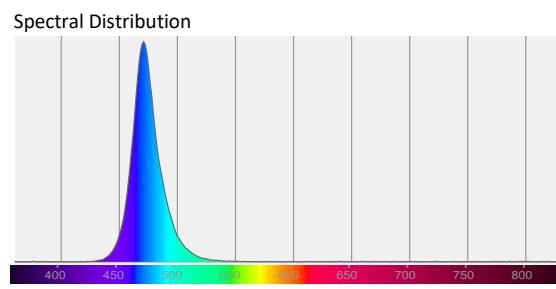
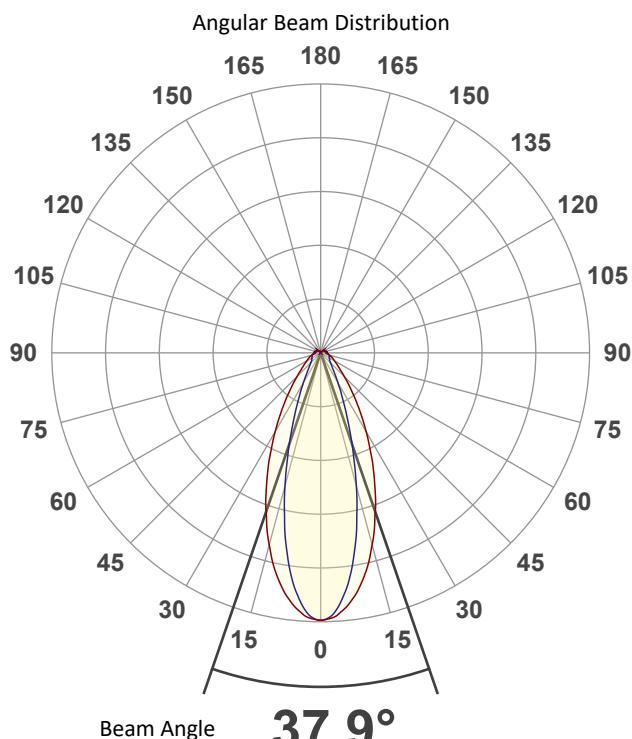
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.120  
Y: 0.095

### Light Quality

CRI: 0.0

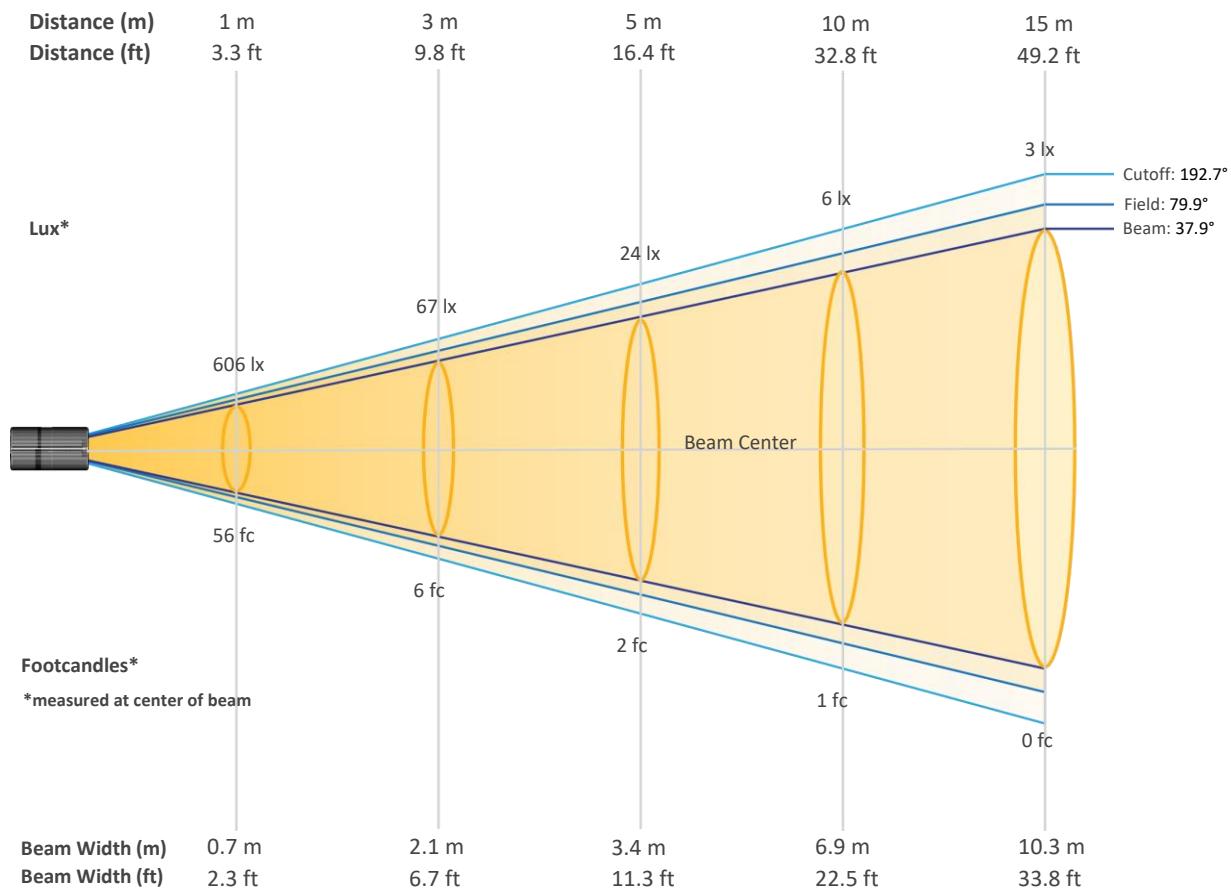
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only

## Beam Details

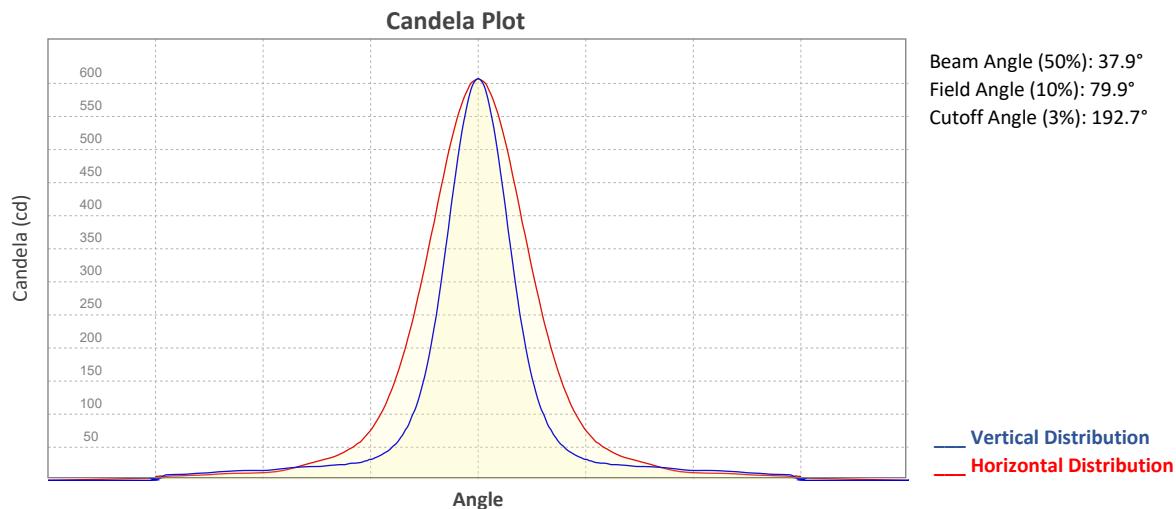


Beam Intensities from 1-20m (3.3-65.6ft)

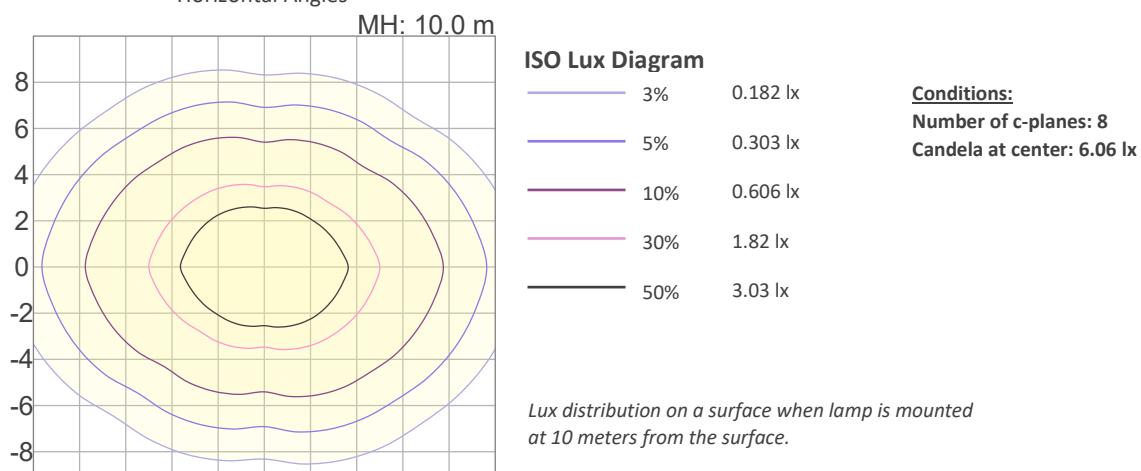
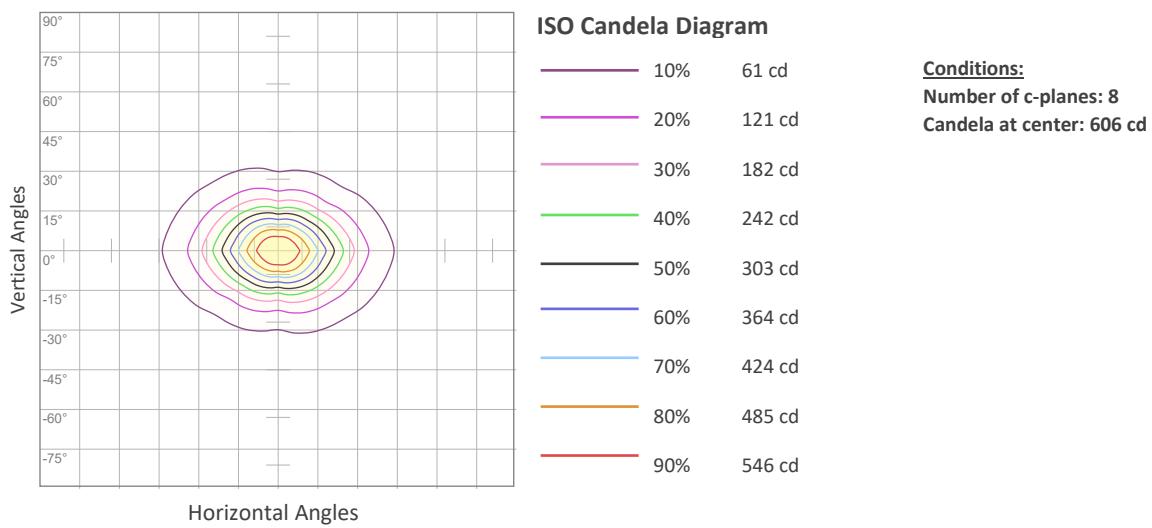
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	606	152	67	38	24	17	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	4	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only



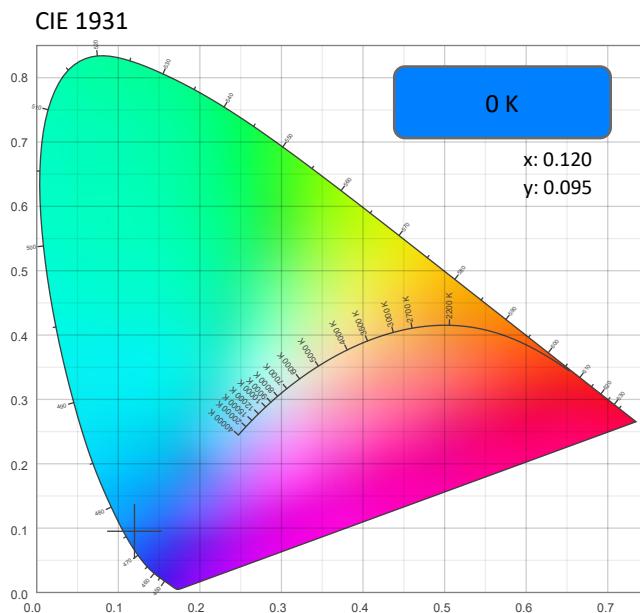
## ISO Diagrams



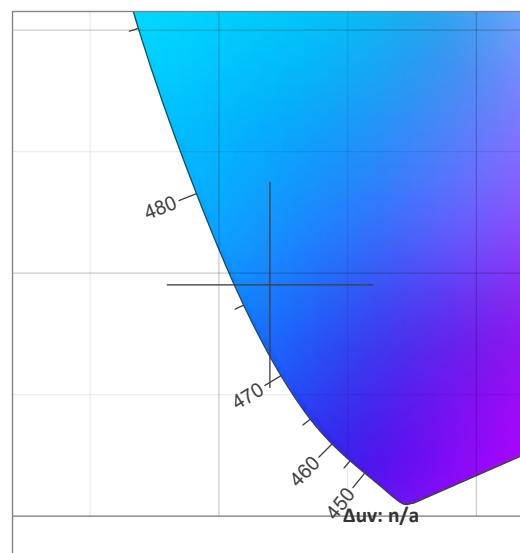
# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only

## Chromaticity



## CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.120	0.095

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.095	0.123

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only

## TM-30 Details

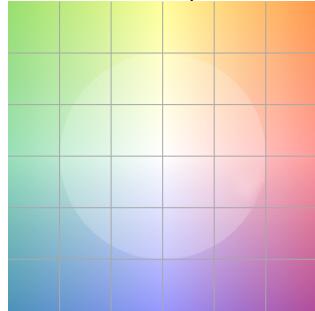
**Rf 0.0**

Fidelity Index  
(Rg)

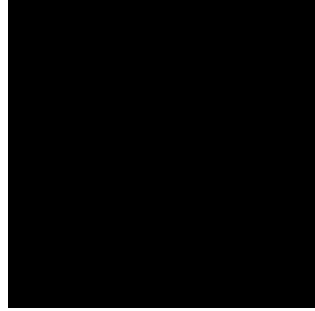
**Rg 0.0**

Gammut Index (Rg)

Color Vector Graphic



Color Distortion Graphic



Color Evaluation Sample



Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%</td	

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

## Report Summary

### Measurements

Fixture Output: 2065 lm  
Fixture Peak: 2730 cd  
Fixture Efficacy: 62 lm/W  
Intensity @ 5m: 109 lux  
Color Temperature: 3047 K  
CRI: 84.4      CRI R9 Value: 14.0  
CQS: 83.6

TLCI: 73

TM-30 Rf: 85.8

TM-30 Rg: 95.1

Beam Angle (50%): 37.4°

Field Angle (10%): 77.6°

Cutoff Angle (2%): 181.2°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 35.39 W

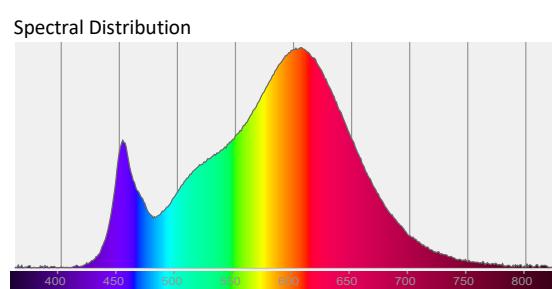
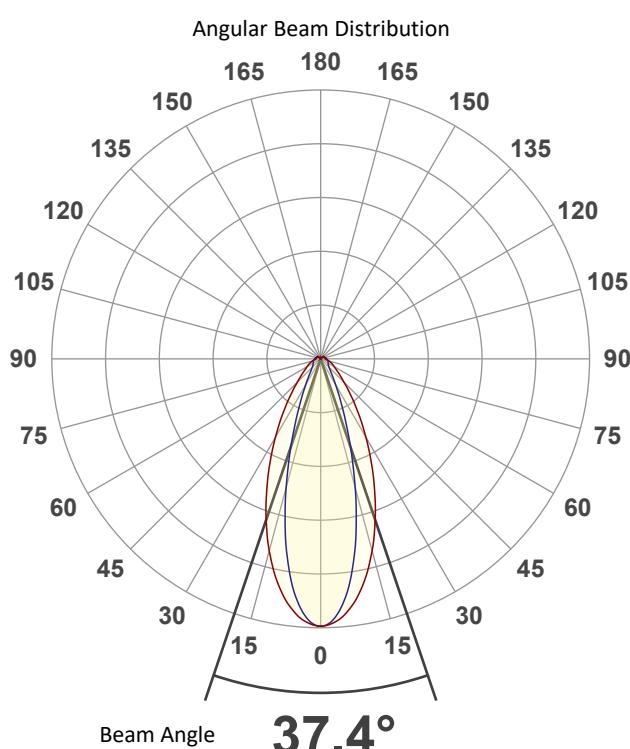
Current: 0.297 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.432  
Y: 0.400

### Light Quality

CRI: 84.4

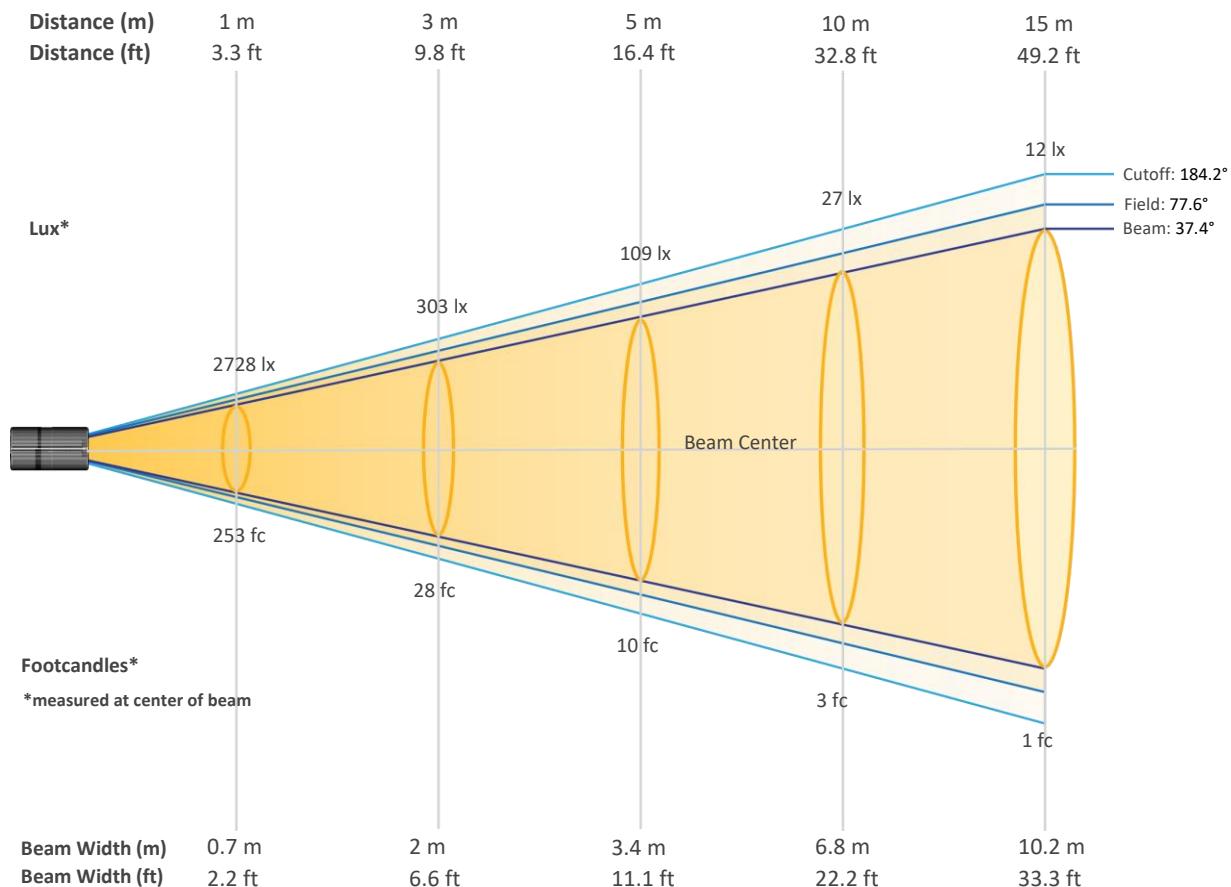
### Color Temperature

3047 K

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

## Beam Details

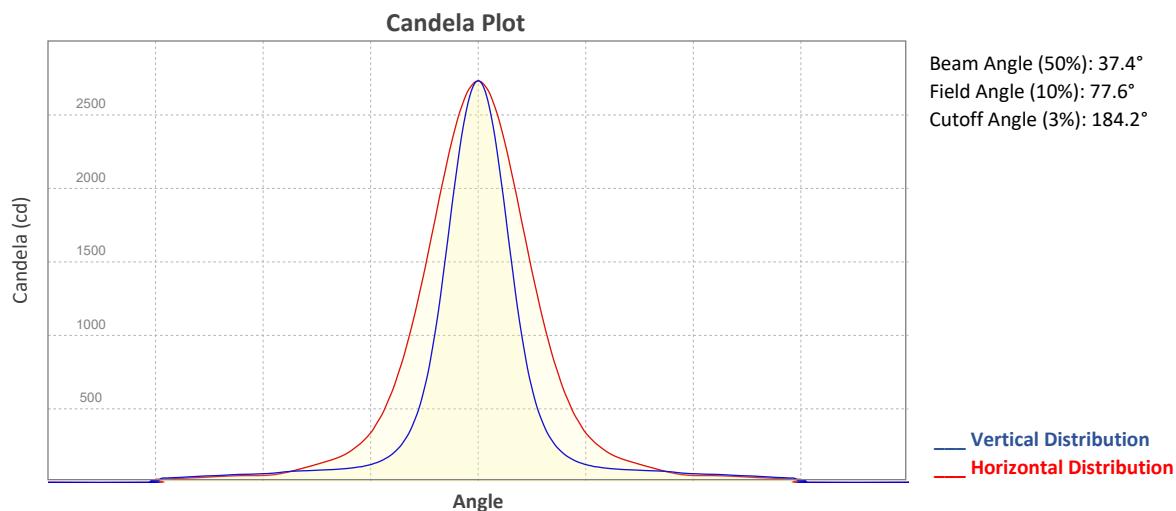


## Beam Intensities from 1-20m (3.3-65.6ft)

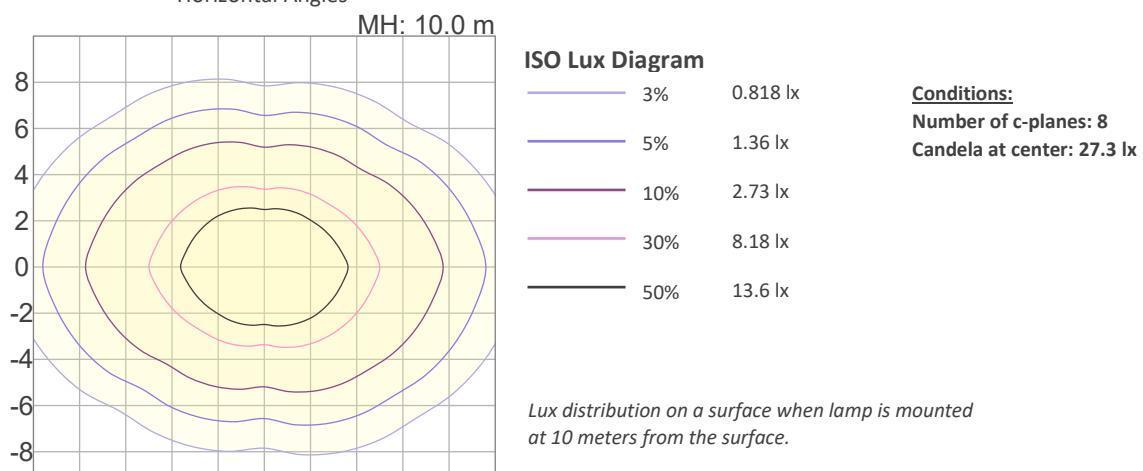
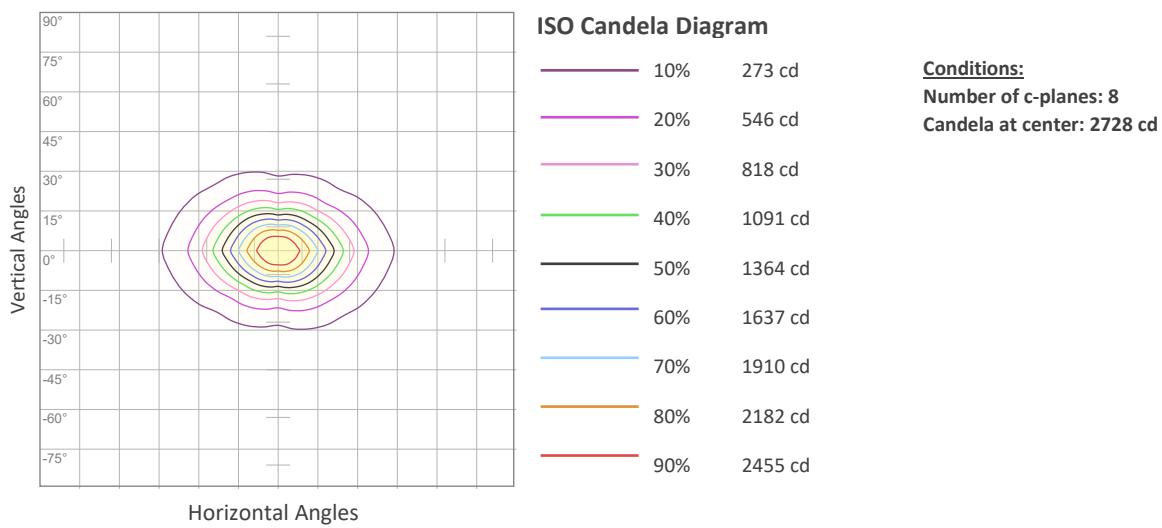
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2728	682	303	170	109	76	56	43	34	27
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	23	19	16	14	12	11	9	8	8	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	253	63	28	16	10	7	5	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only



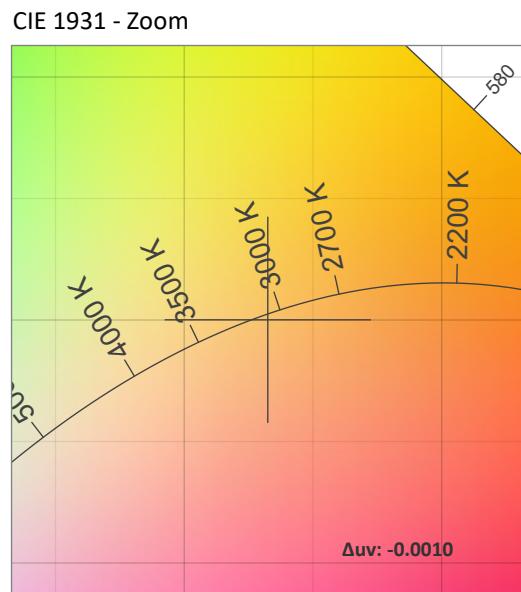
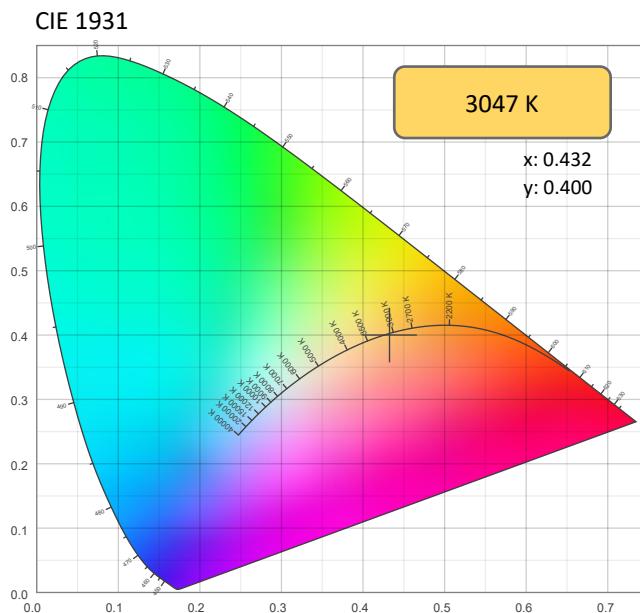
## ISO Diagrams



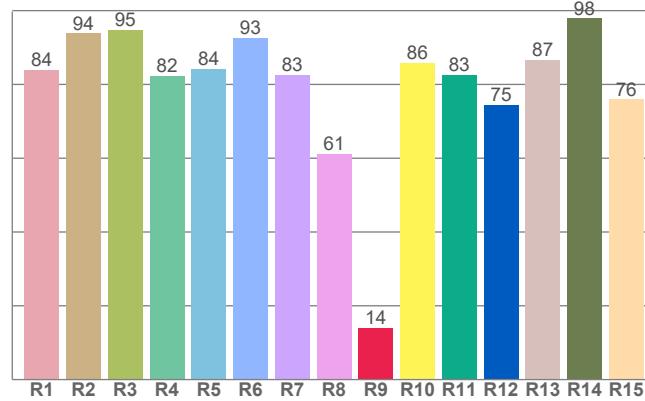
# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

## Chromaticity



CRI: 84.4 (R1-R8)

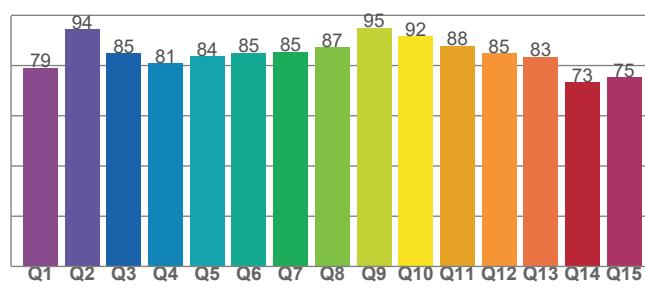


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	$x$	$y$
3047 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	$y$	$u$
-0.0010	0.400	0.249

CQS: 83.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	14.0	83.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.8	95.1

# Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

## TM-30 Details

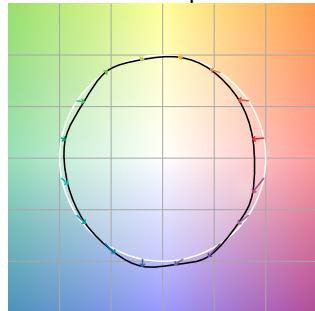
**Rf 85.8**

Fidelity Index  
(Rg)

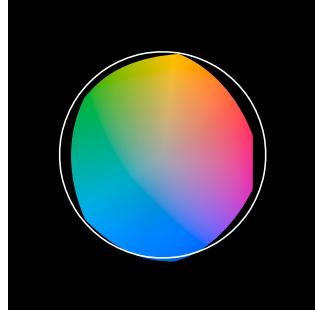
**Rg 95.1**

Gammut Index (Rg)

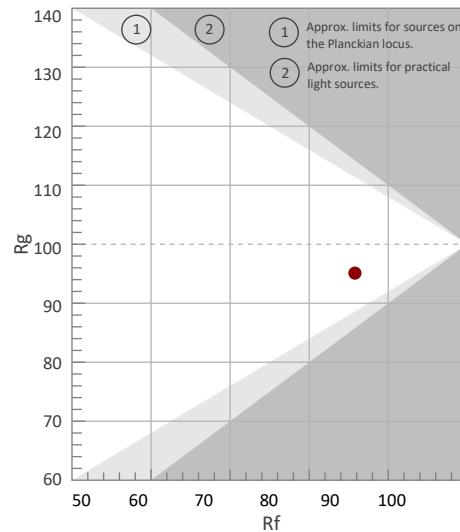
Color Vector Graphic



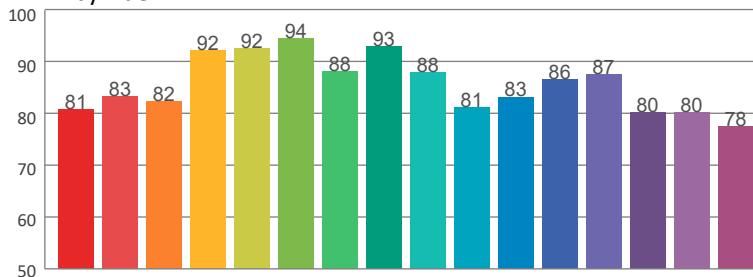
Color Distortion Graphic



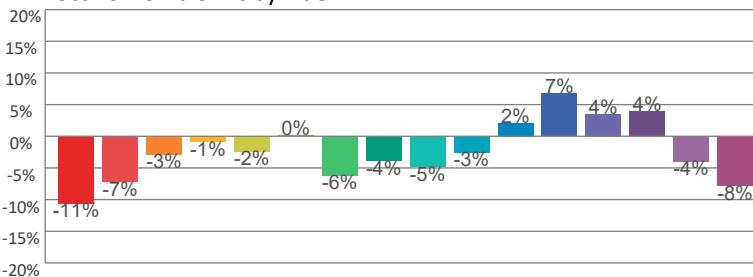
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	4%
5	92	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-3%	11%
11	83	2%	12%
12	86	7%	1%
13	87	4%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



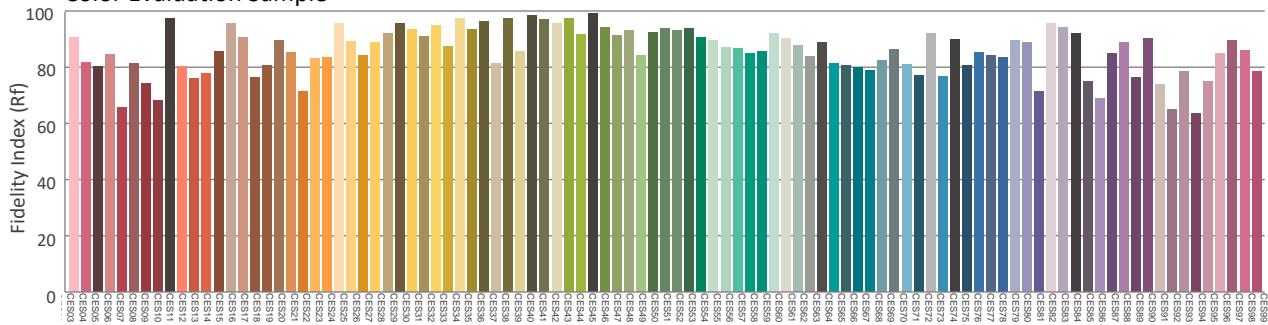
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 2291 lm  
Fixture Peak: 2703 cd  
Fixture Efficacy: 47 lm/W  
Intensity @ 5m: 108 lux  
Color Temperature: 5456 K  
CRI: 69.2      CRI R9 Value: 26.0  
CQS: 82.0

TLCI: 79

TM-30 Rf: 73.3

TM-30 Rg: 93.5

Beam Angle (50%): 38.3°

Field Angle (10%): 84.3°

Cutoff Angle (20%): 107.2°

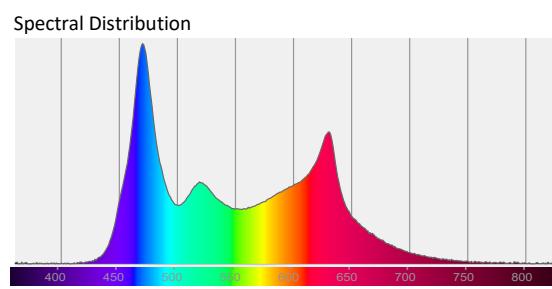
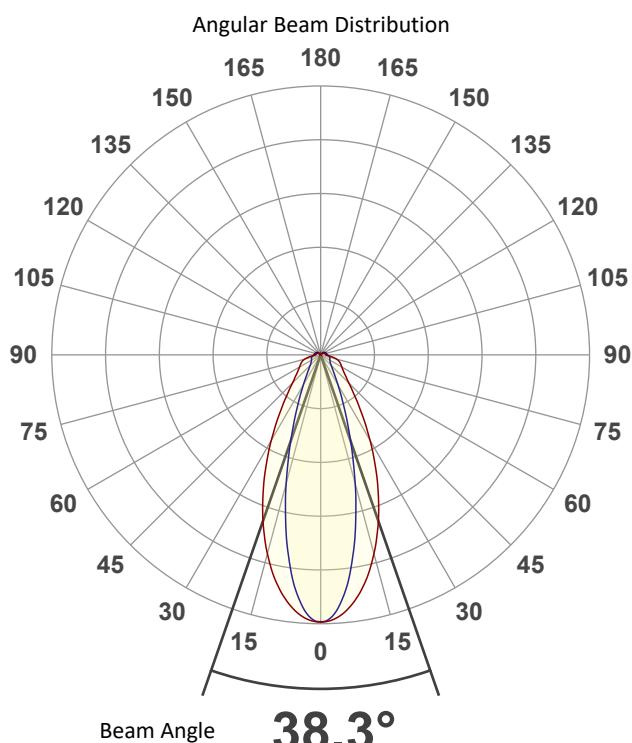
### Conditions

AC Supply: 119 V, 60.1 Hz  
Power: 51.59 W  
Current: 0.434 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.333  
Y: 0.319

### Light Quality

CRI: 69.2

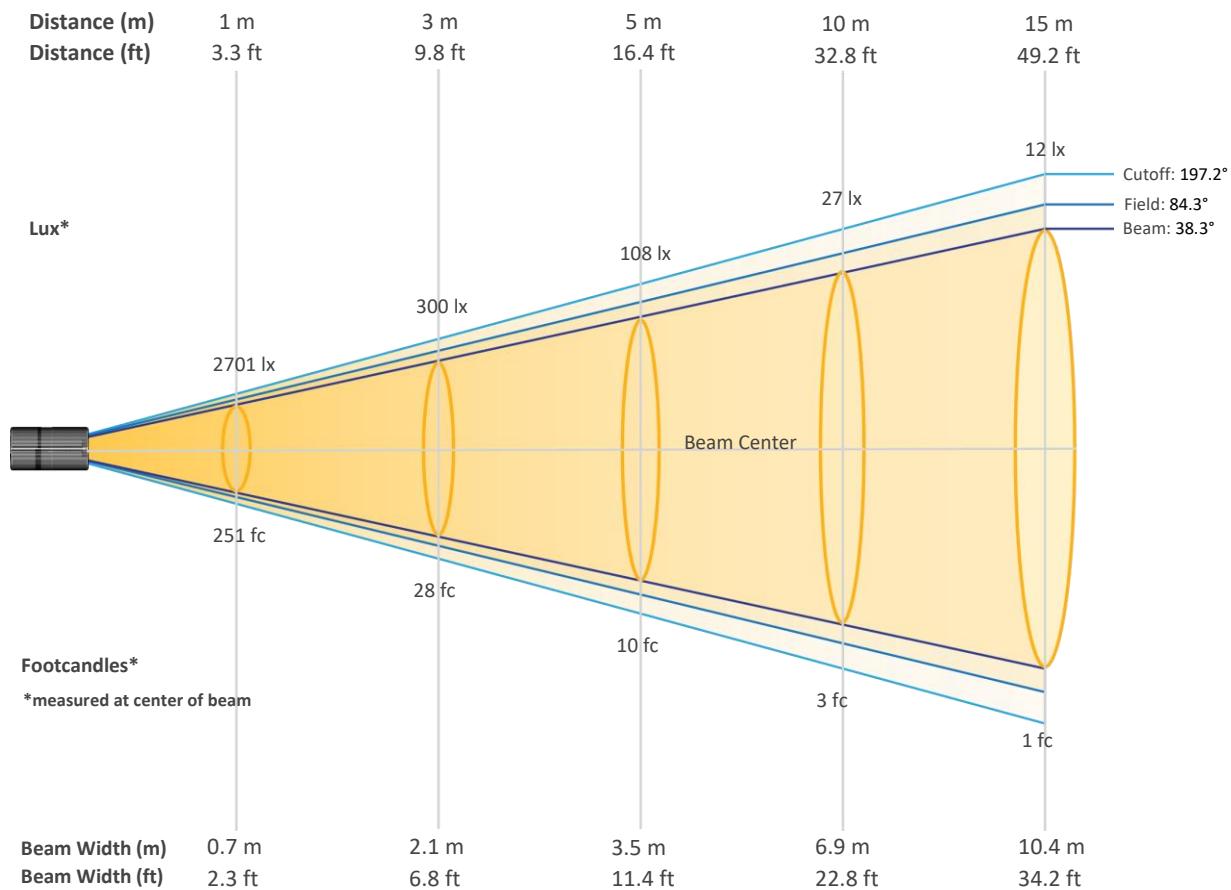
### Color Temperature

5456 K

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

## Beam Details

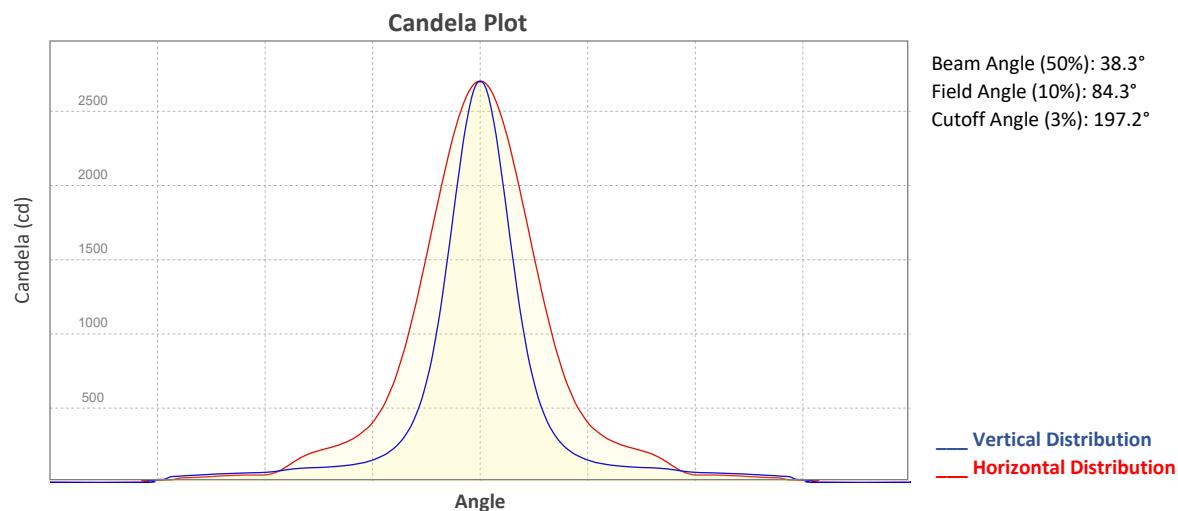


## Beam Intensities from 1-20m (3.3-65.6ft)

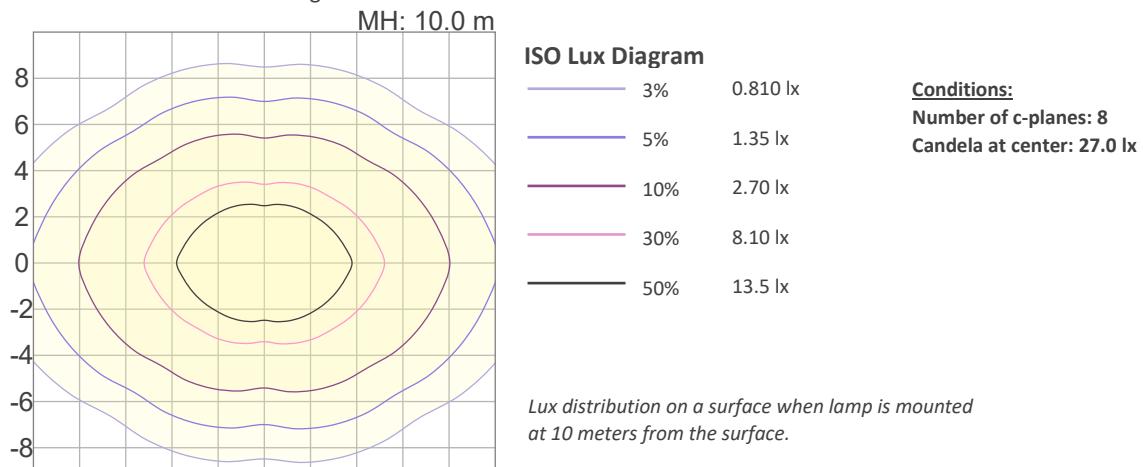
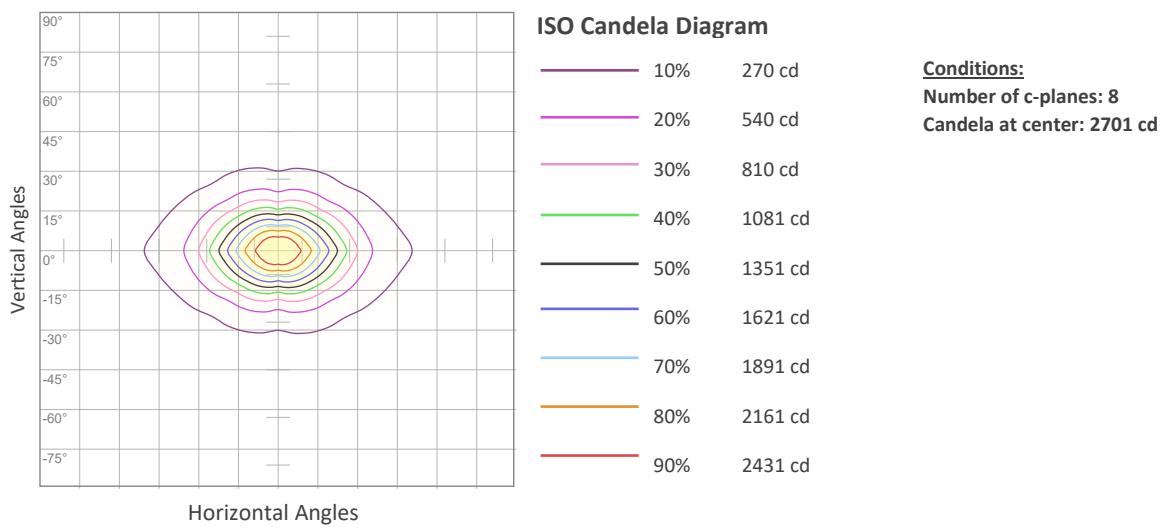
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2701	675	300	169	108	75	55	42	33	27
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	22	19	16	14	12	11	9	8	7	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	251	63	28	16	10	7	5	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power



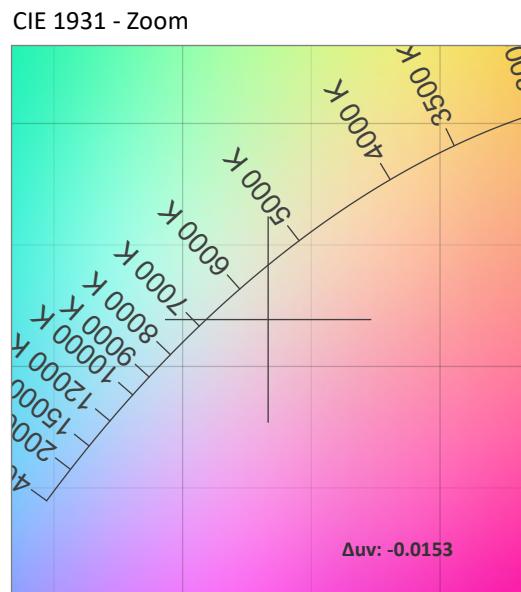
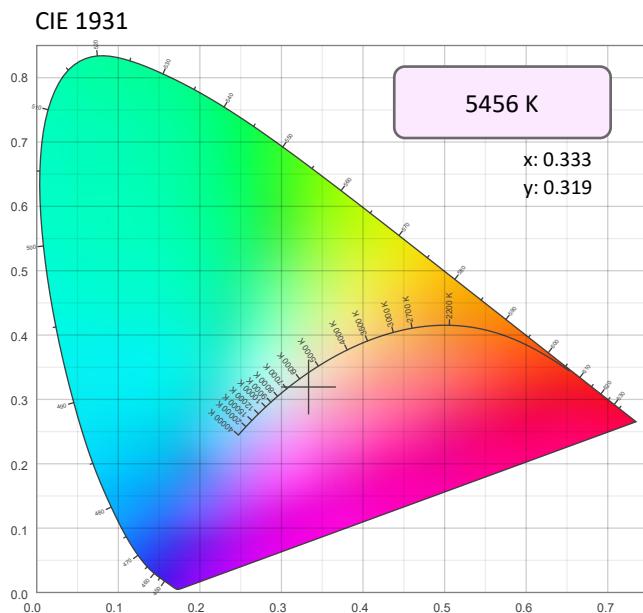
## ISO Diagrams



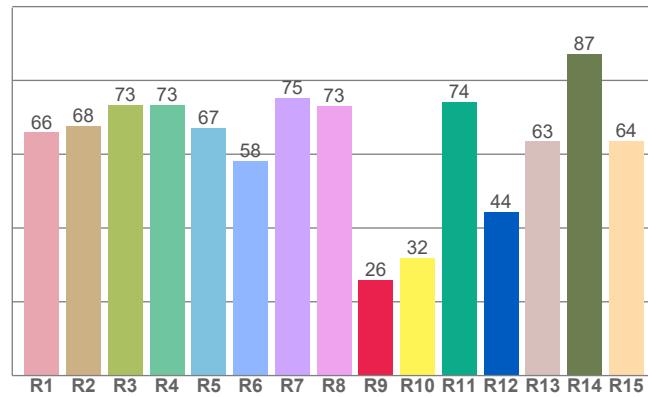
# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

## Chromaticity



CRI: 69.2 (R1-R8)

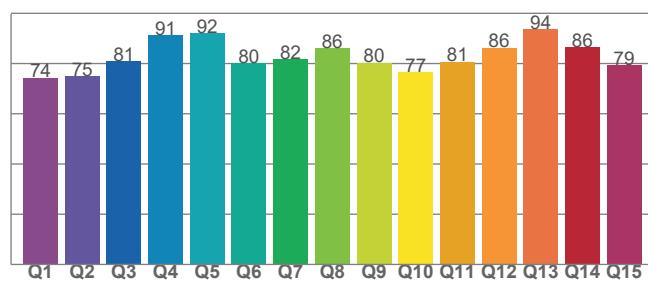


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5456 K	0.333	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta u v$	y	u
-0.0153	0.319	0.216

CQS: 82.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.2	26.0	82.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.3	93.5

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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

## TM-30 Details

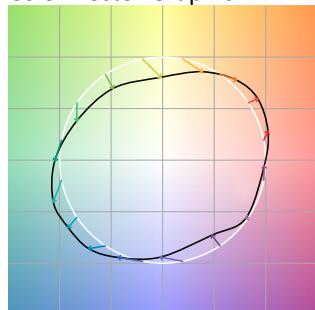
**Rf 73.3**

Fidelity Index  
(Rg)

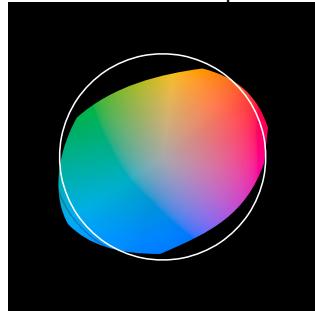
**Rg 93.5**

Gammut Index (Rg)

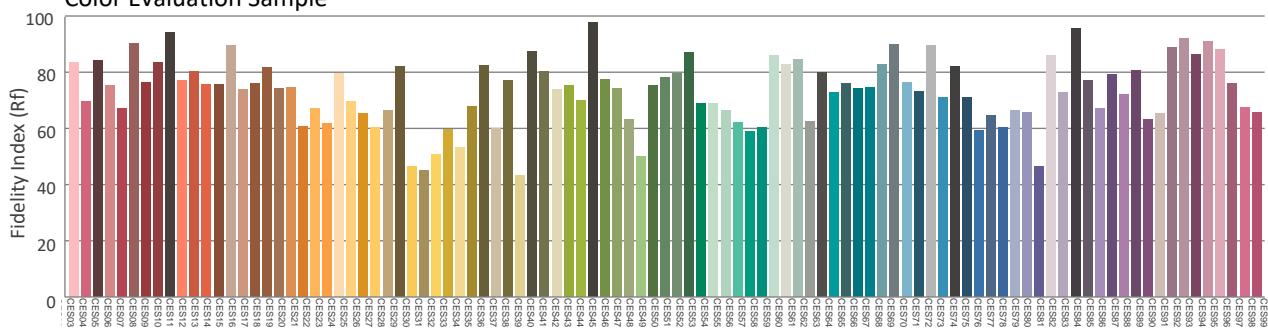
Color Vector Graphic



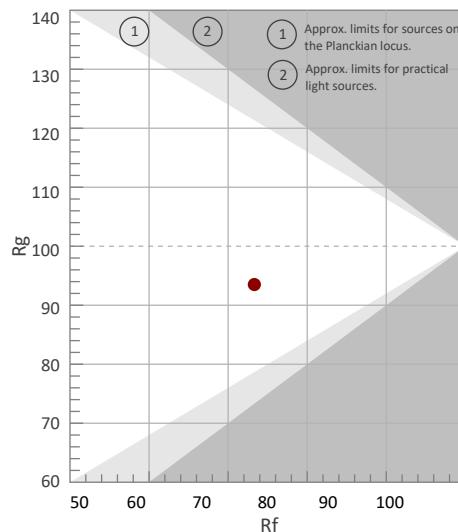
Color Distortion Graphic



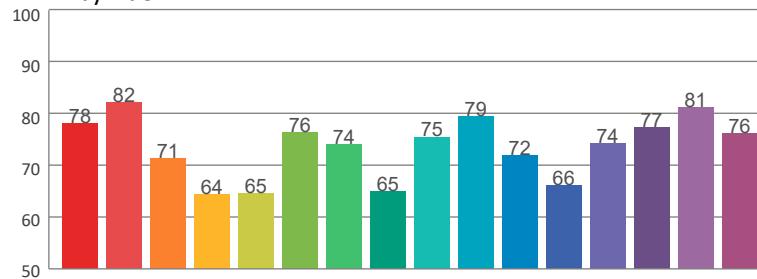
Color Evaluation Sample



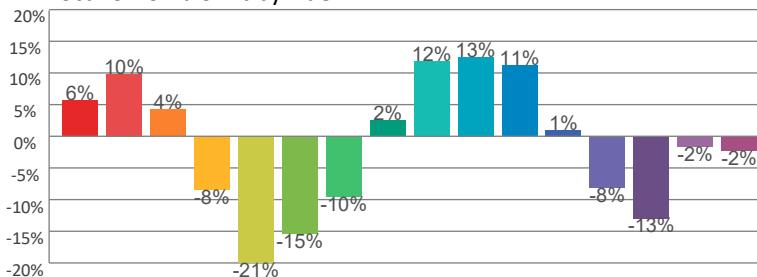
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-16%
4	64	-8%	-21%
5	65	-21%	-14%
6	76	-15%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	3%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-2%	14%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only

## Report Summary

### Measurements

Fixture Output: 626 lm

Fixture Peak: 808 cd

Fixture Efficacy: 20 lm/W

Intensity @ 5m: 32 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 34.8°

Field Angle (10%): 79.9°

Cutoff Angle (20%): 102°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 33.16 W

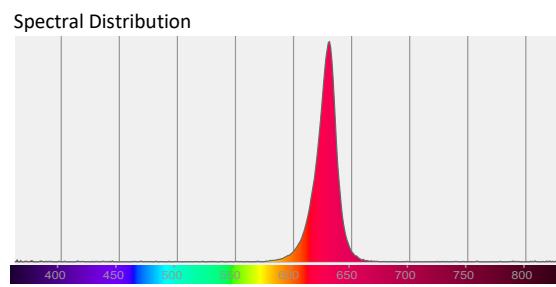
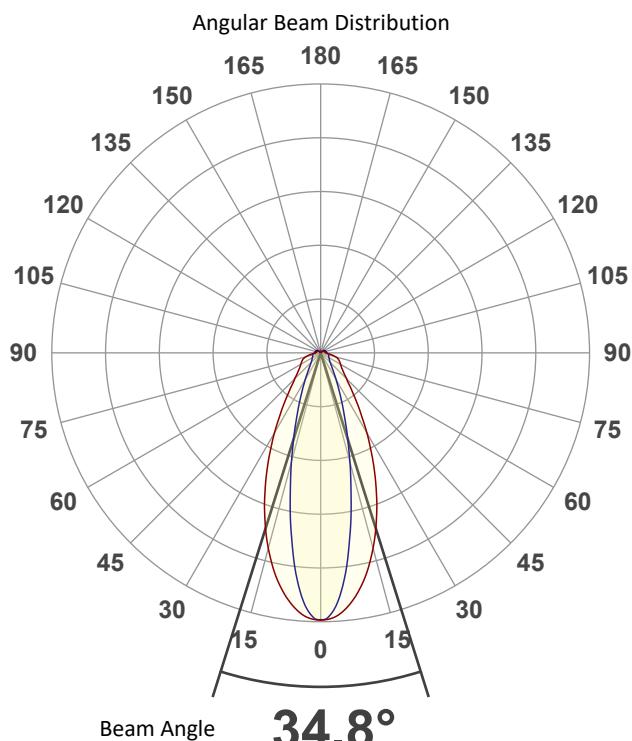
Current: 0.280 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



### Light Quality

CRI: 0.0

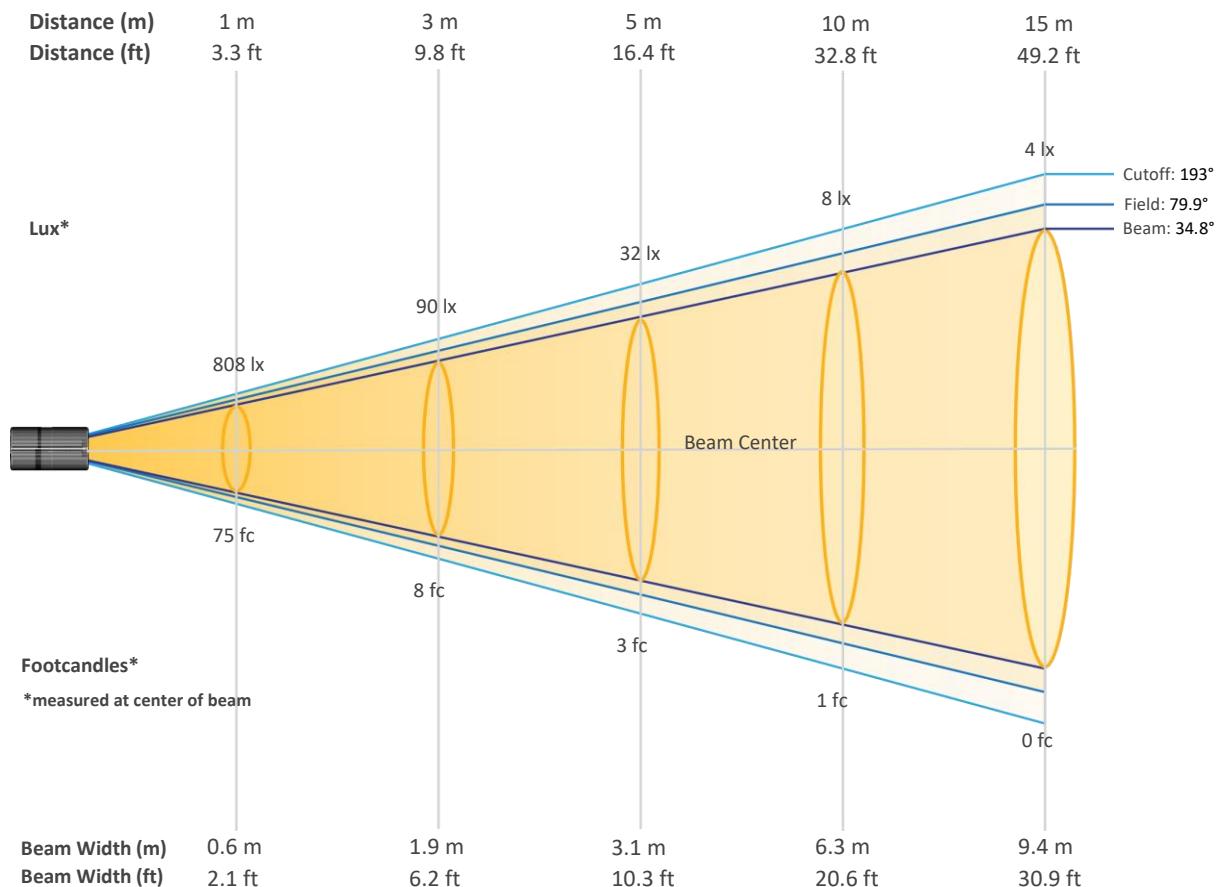
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only

## Beam Details

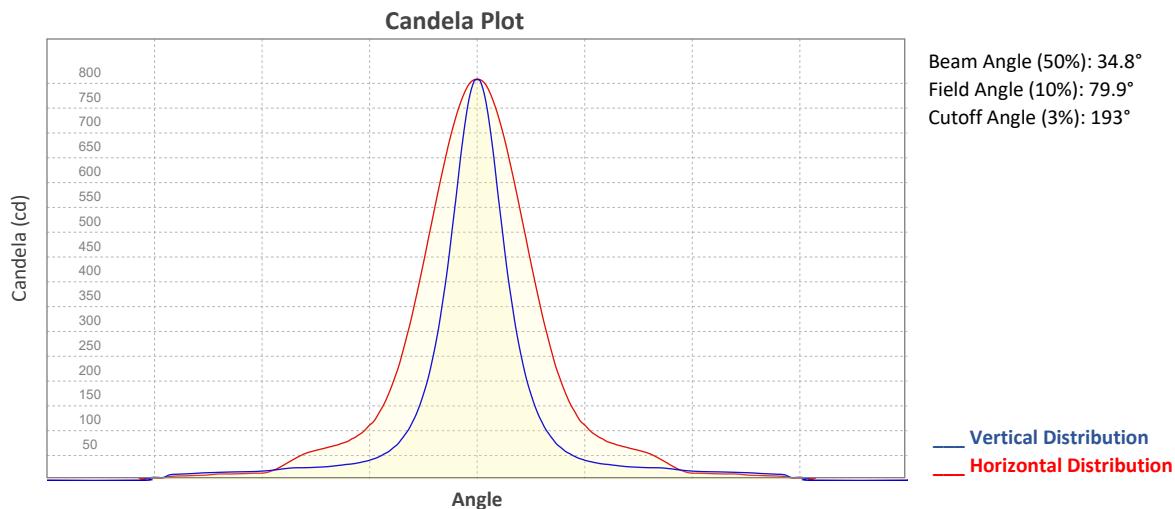


Beam Intensities from 1-20m (3.3-65.6ft)

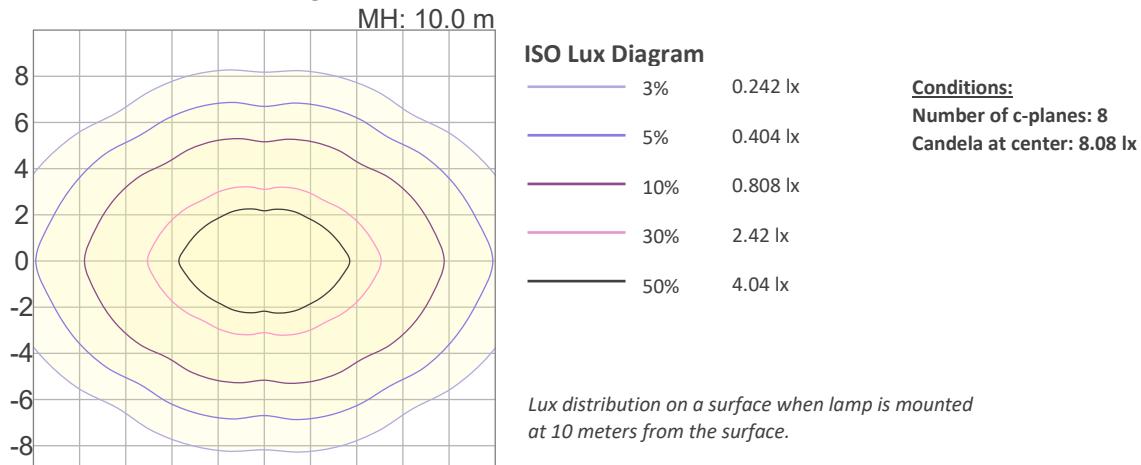
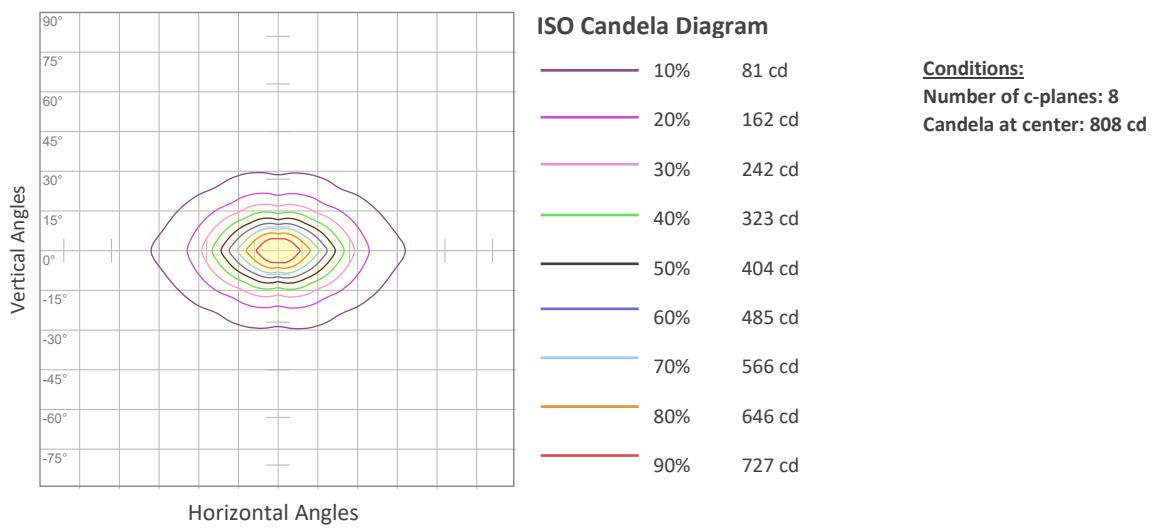
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	808	202	90	50	32	22	16	13	10	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	3	3	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	75	19	8	5	3	2	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only



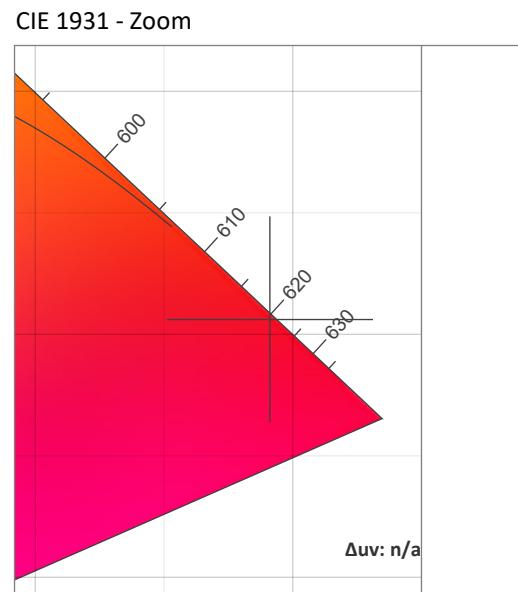
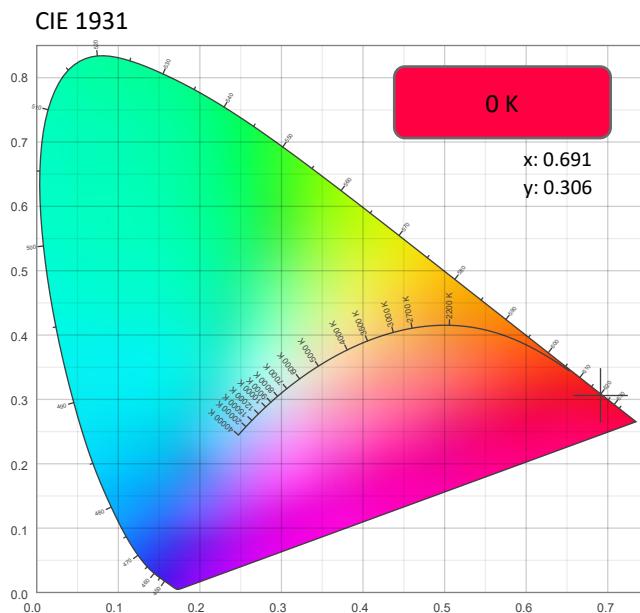
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.691	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.523

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only

## TM-30 Details

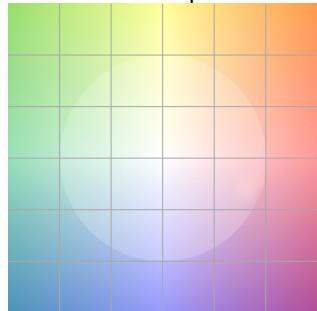
**Rf 0.0**

Fidelity Index  
(Rg)

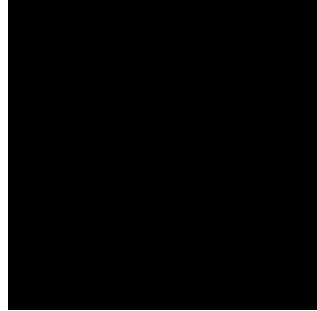
**Rg 0.0**

Gammut Index (Rg)

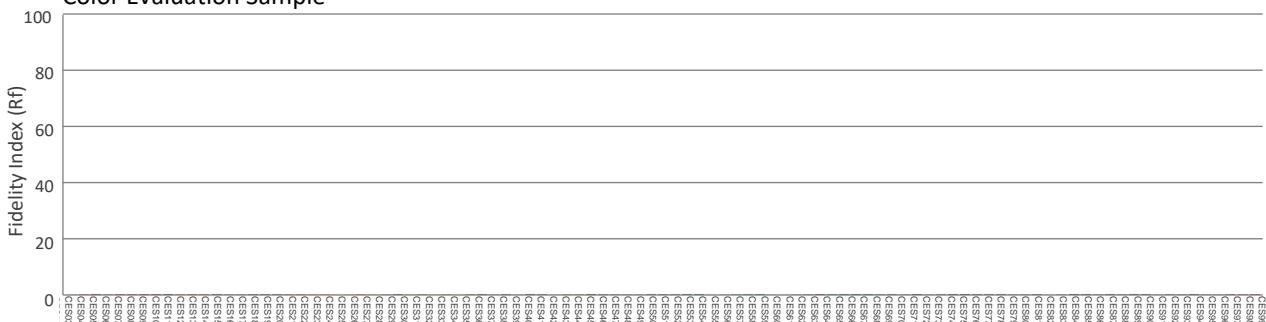
Color Vector Graphic



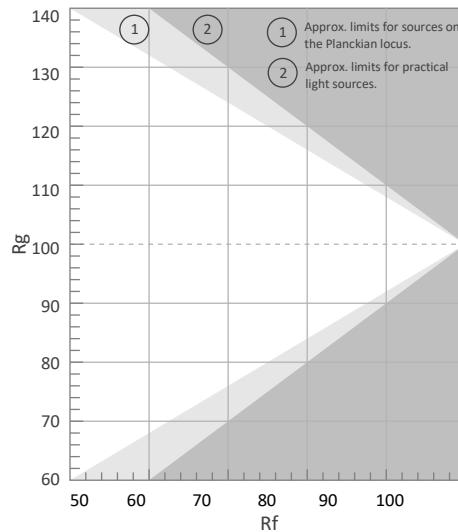
Color Distortion Graphic



Color Evaluation Sample



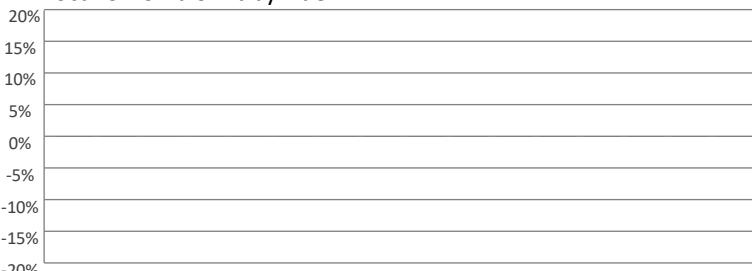
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only

## Report Summary

### Measurements

Fixture Output: 1192 lm

Fixture Peak: 1506 cd

Fixture Efficacy: 37 lm/W

Intensity @ 5m: 60 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 35.7°

Field Angle (10%): 81.1°

Cutoff Angle (20%): 102.1°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 33.89 W

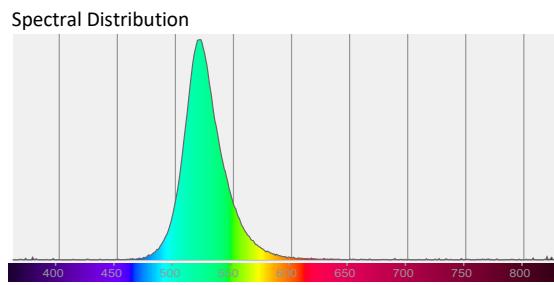
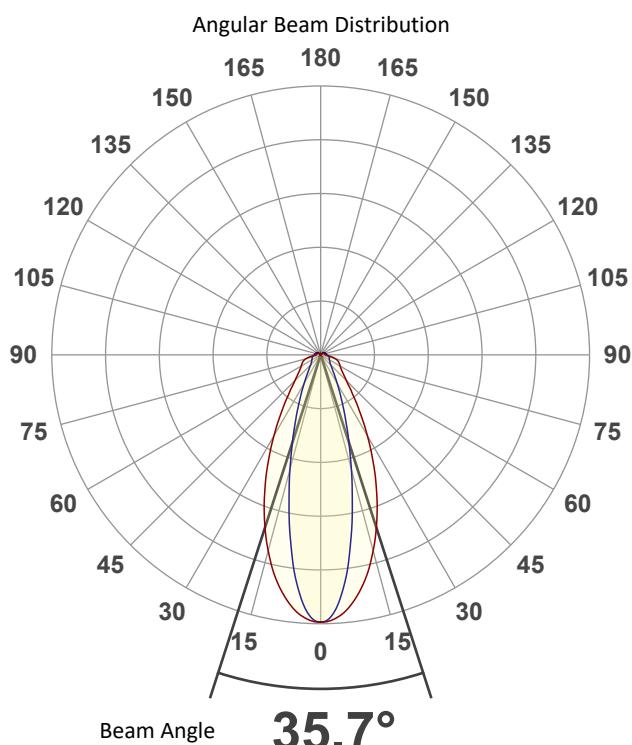
Current: 0.286 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.173  
Y: 0.730



### Light Quality

CRI: 0.0

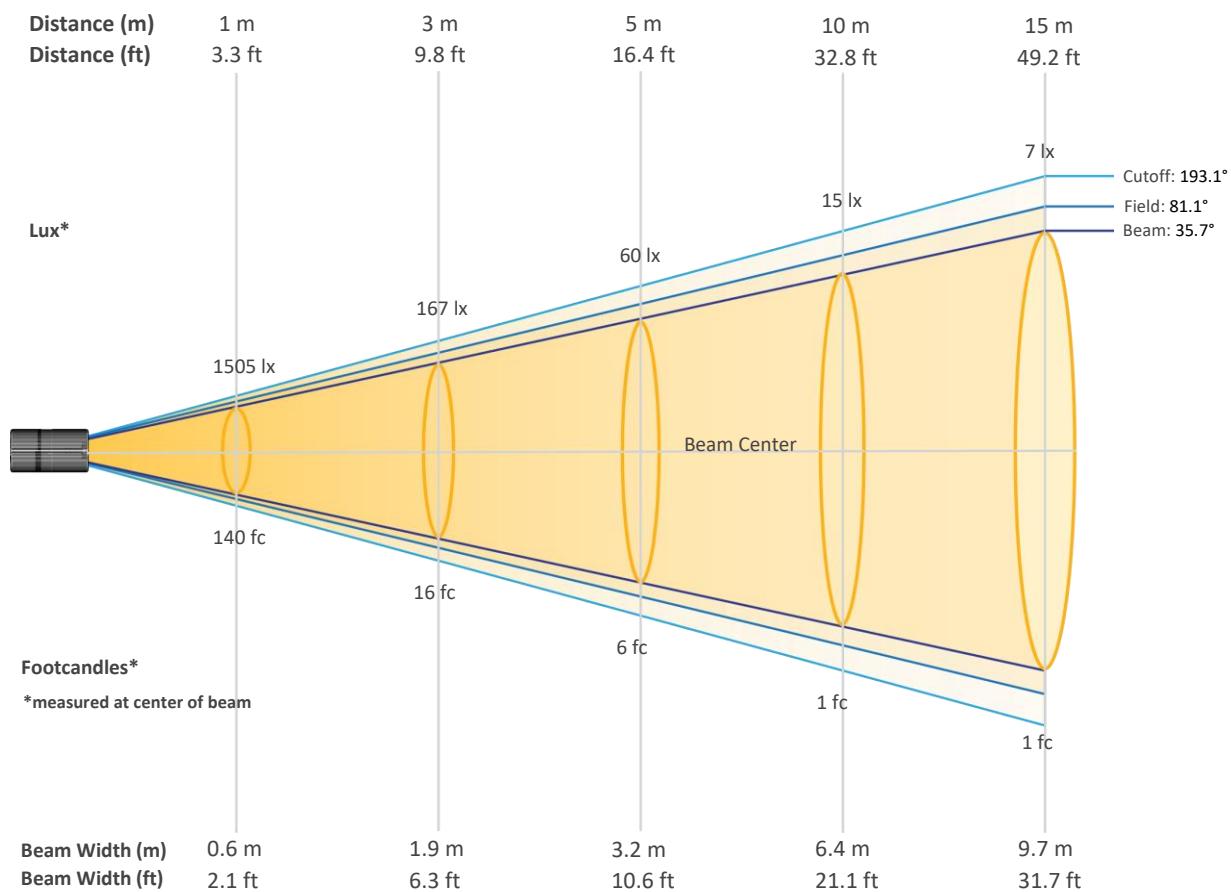
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only

## Beam Details

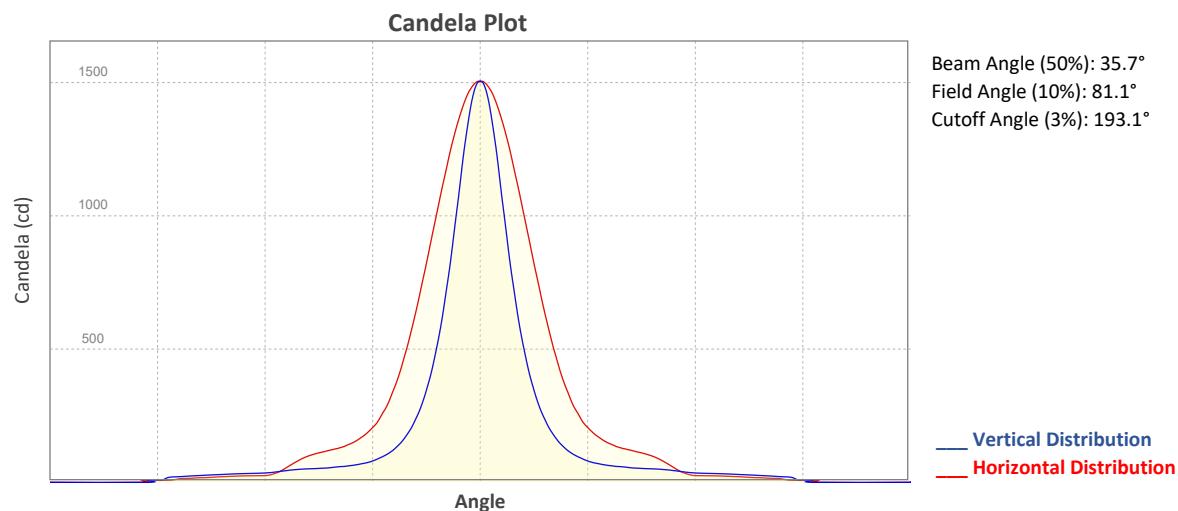


Beam Intensities from 1-20m (3.3-65.6ft)

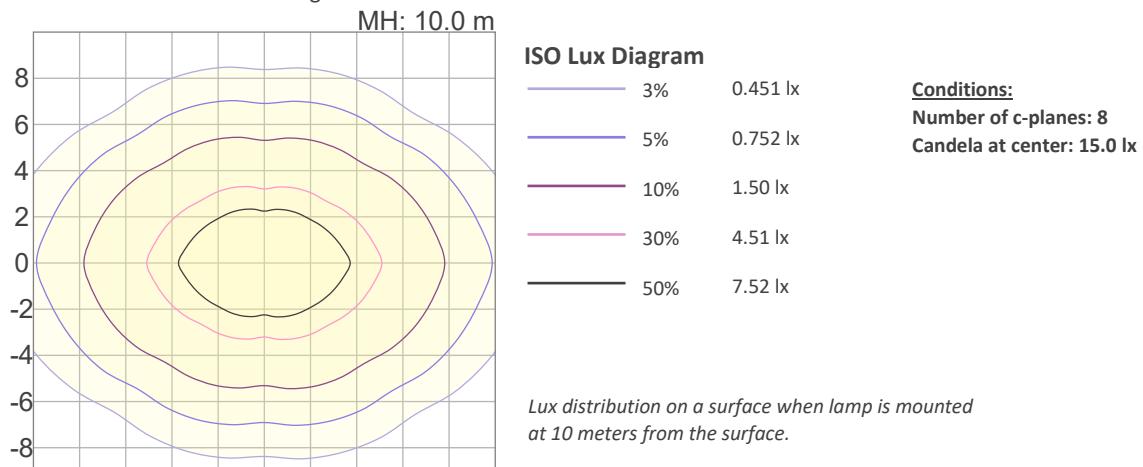
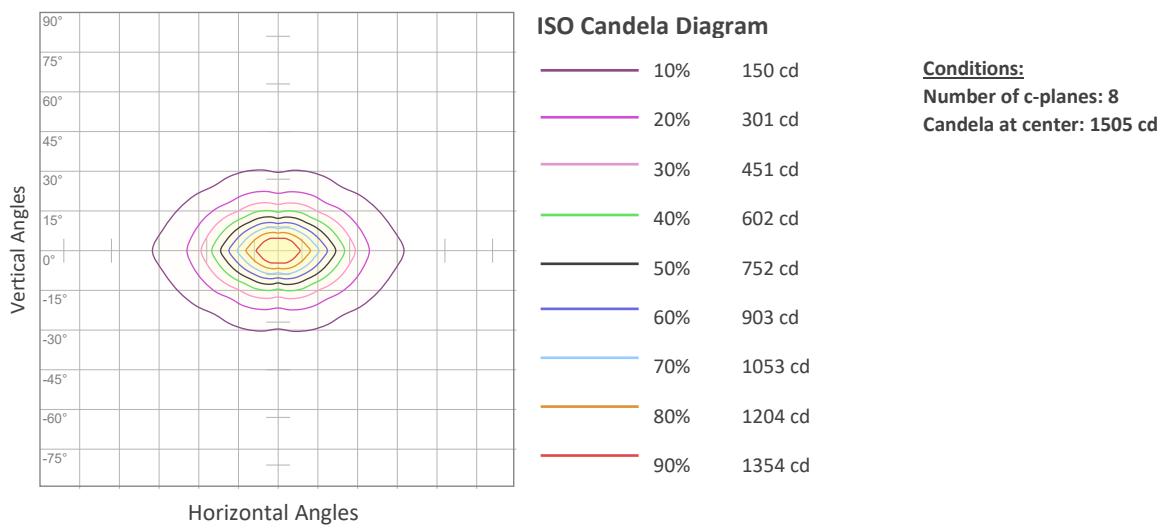
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1505	376	167	94	60	42	31	24	19	15
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	12	10	9	8	7	6	5	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	140	35	16	9	6	4	3	2	2	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	1	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only



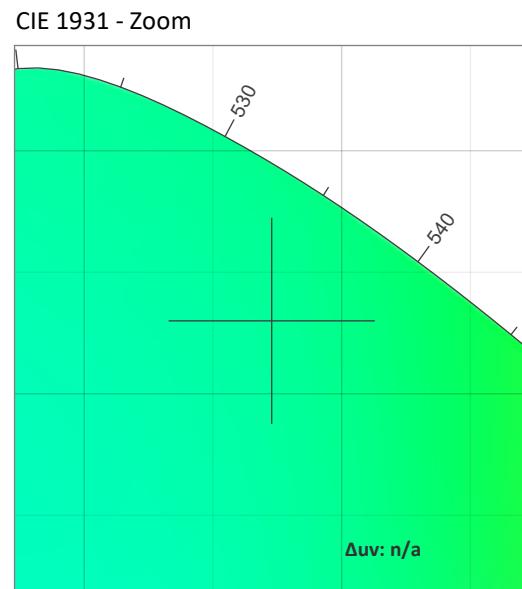
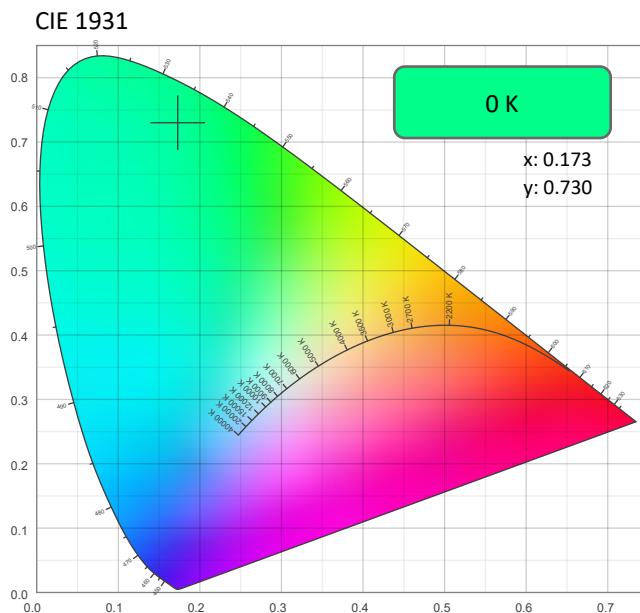
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.173	0.730

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.730	0.061

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only

## TM-30 Details

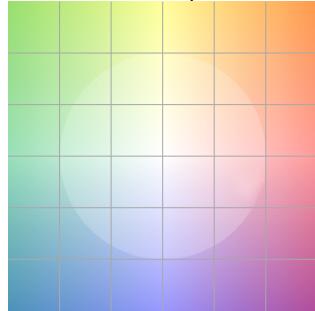
**Rf 0.0**

Fidelity Index  
(Rg)

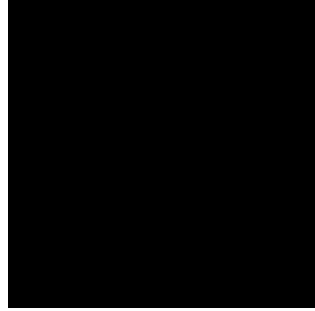
**Rg 0.0**

Gammut Index (Rg)

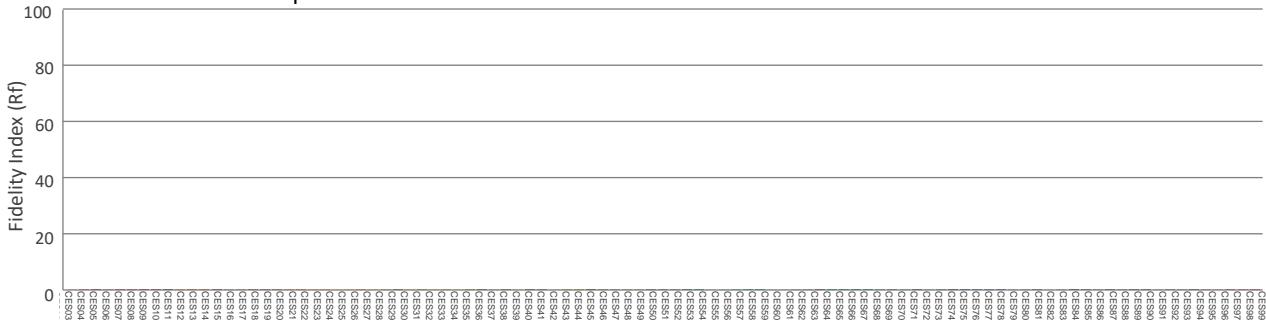
Color Vector Graphic



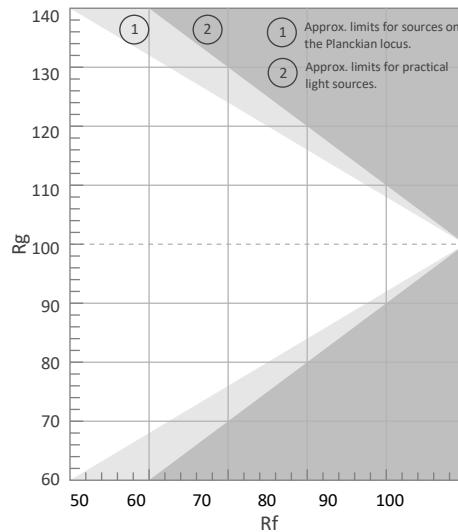
Color Distortion Graphic



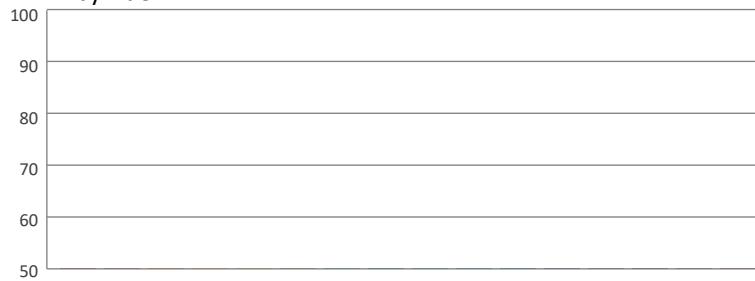
Color Evaluation Sample



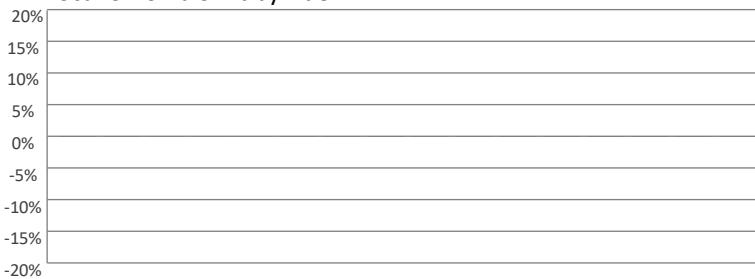
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only

## Report Summary

### Measurements

Fixture Output: 449 lm  
Fixture Peak: 489 cd  
Fixture Efficacy: 14 lm/W  
Intensity @ 5m: 20 lux  
Color Temperature: 0 K  
CRI: 0.0 CRI R9 Value: 0.0  
CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 39.6°

Field Angle (10%): 87.8°

Cutoff Angle (20%): 211.7°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 35.22 W

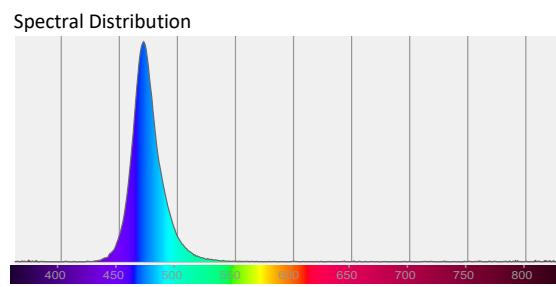
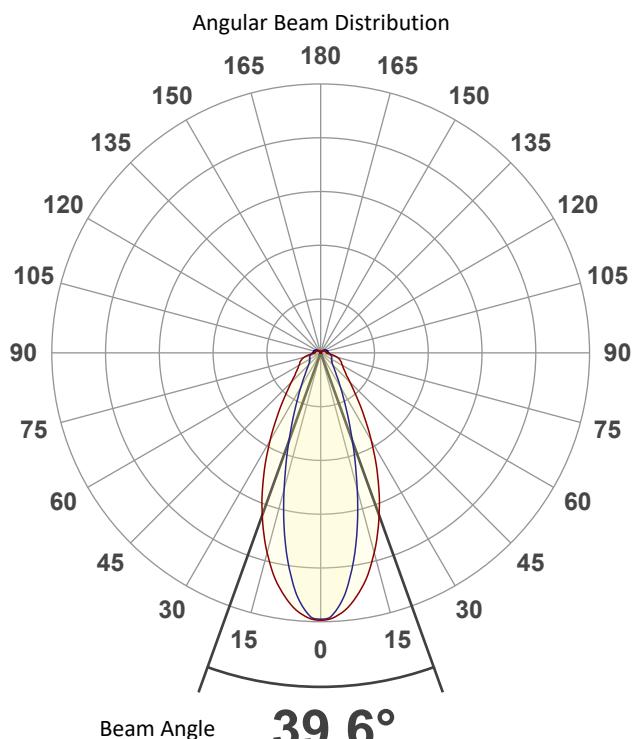
Current: 0.297 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.121  
Y: 0.096

### Light Quality

CRI: 0.0

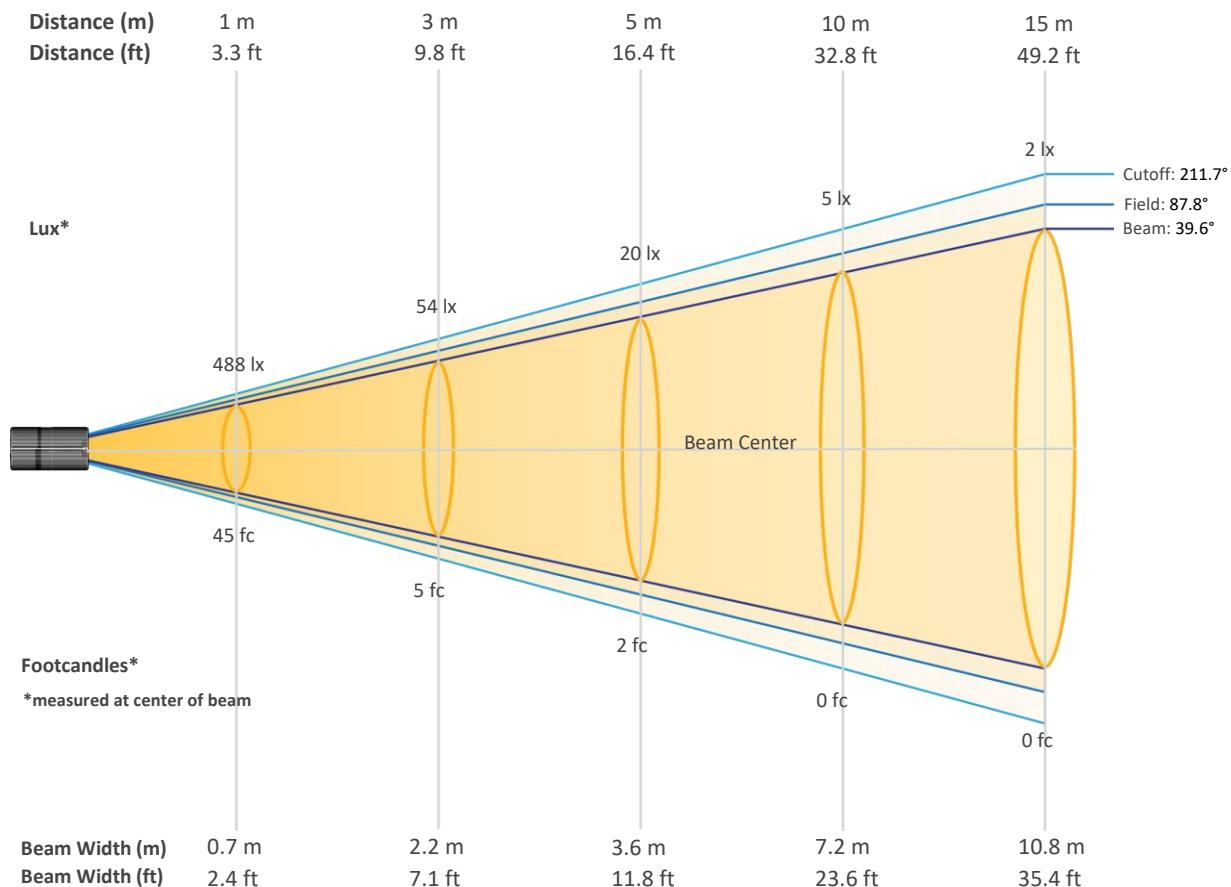
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only

## Beam Details

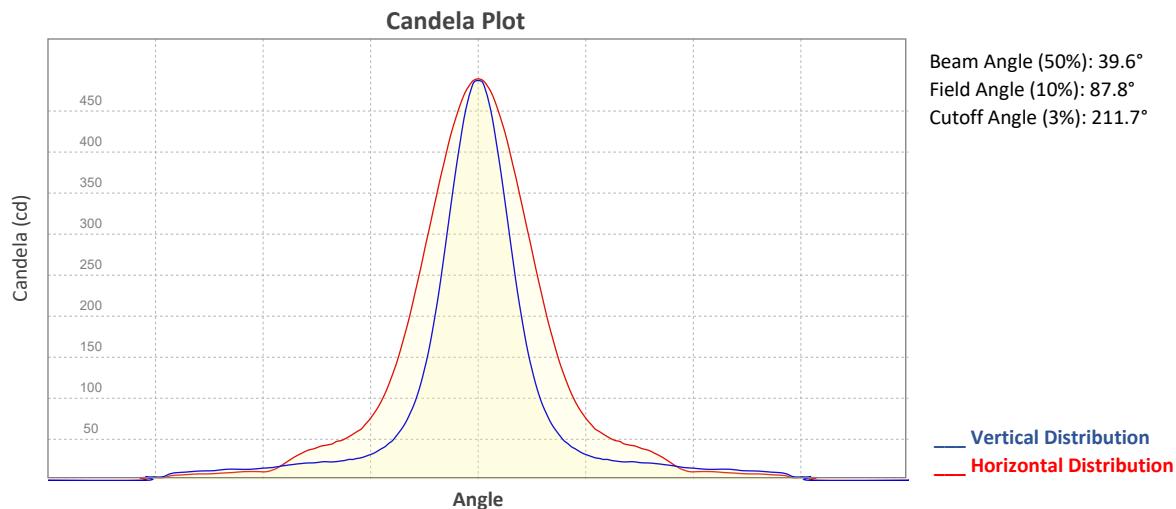


## Beam Intensities from 1-20m (3.3-65.6ft)

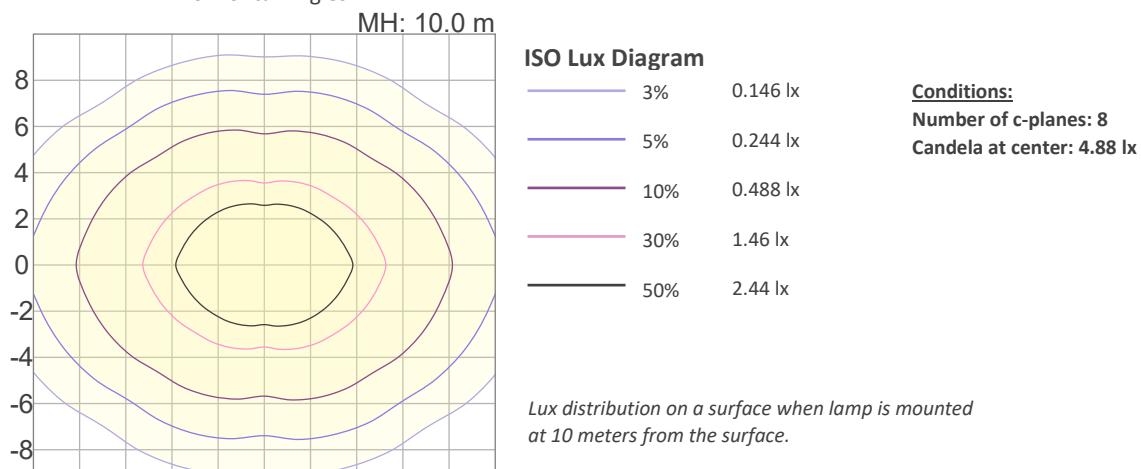
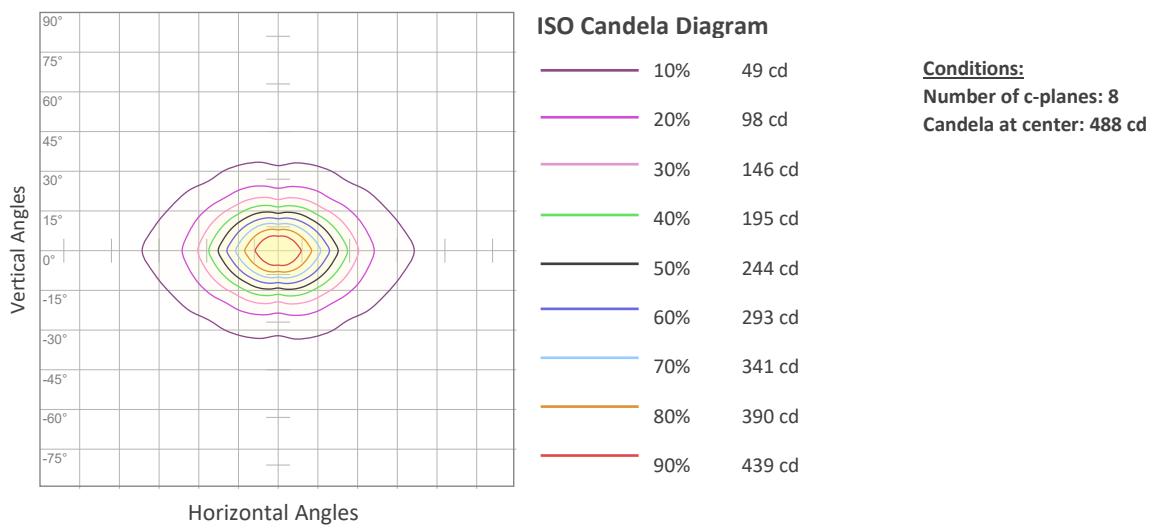
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	488	122	54	30	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	45	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only



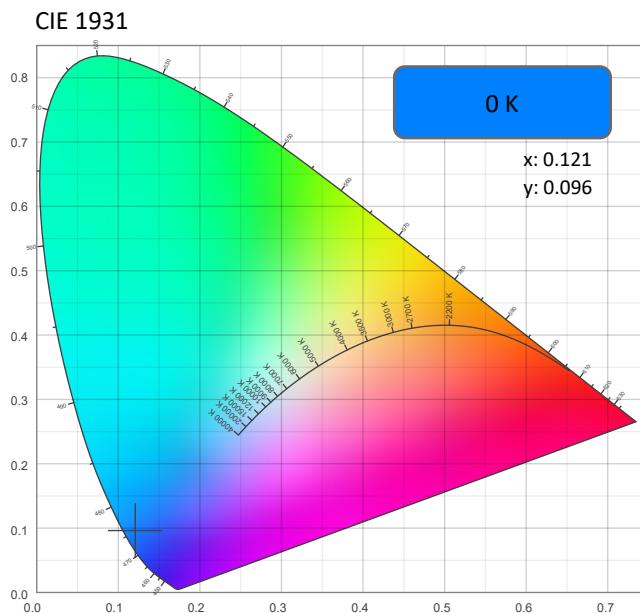
## ISO Diagrams



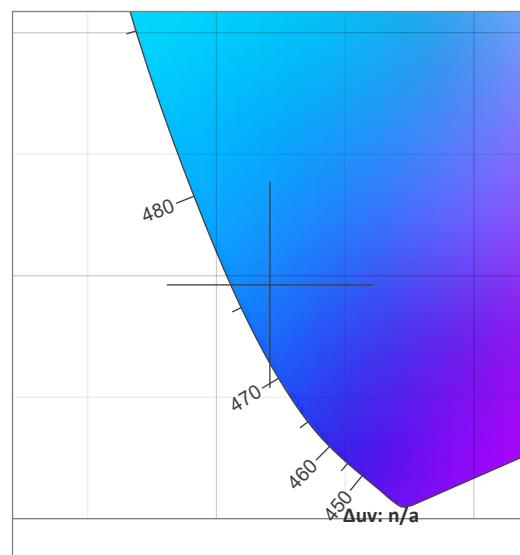
# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only

## Chromaticity



## CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.121	0.096

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.096	0.123

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

## Logic GZL: 60X1 Filter - Blue Only

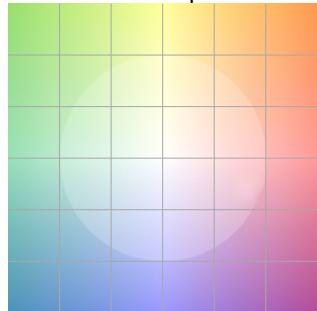
## TM-30 Details

# Rf 0.0

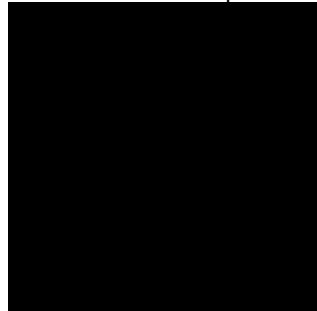
## Fidelity Index (Rg)

## Rg 0.0

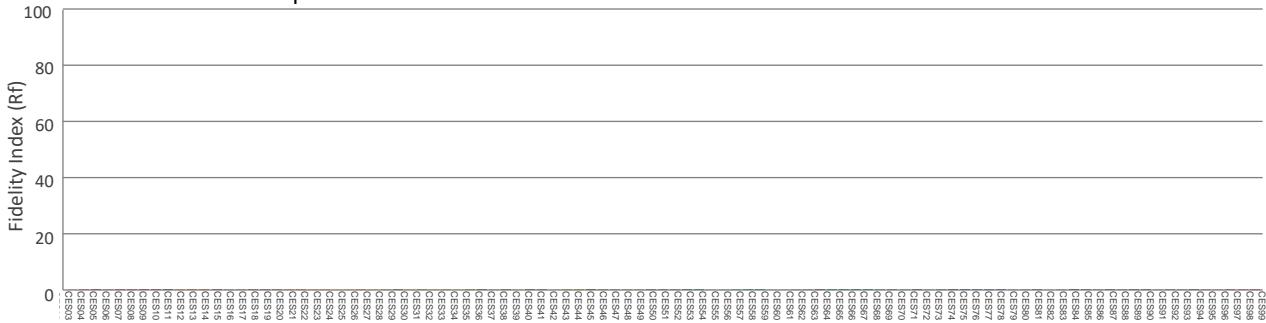
## Color Vector Graphic



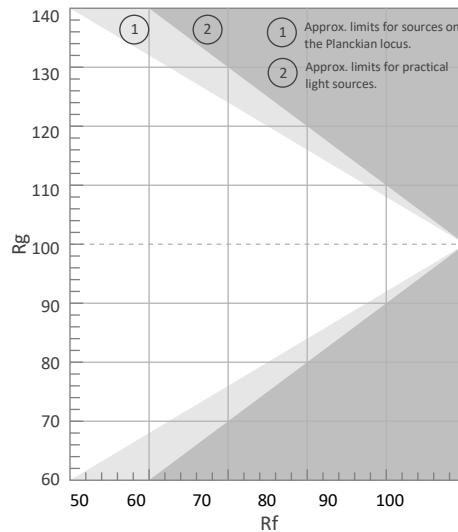
## Color Distortion Graphic



## Color Evaluation Sample



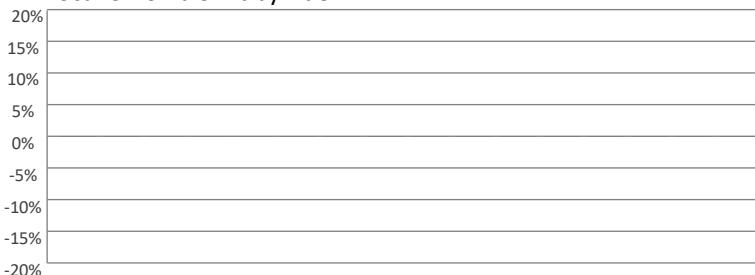
		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



## Rf by Hue



## Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

## Report Summary

### Measurements

Fixture Output: 1895 lm  
Fixture Peak: 2209 cd  
Fixture Efficacy: 57 lm/W  
Intensity @ 5m: 88 lux  
Color Temperature: 3045 K  
CRI: 84.7 CRI R9 Value: 15.0  
CQS: 83.8

TLCI: 73

TM-30 Rf: 85.9

TM-30 Rg: 95.2

Beam Angle (50%): 38.9°

Field Angle (10%): 84.9°

Cutoff Angle (2%): 197.5°

### Conditions

AC Supply: 119 V, 60 Hz

Power: 35.24 W

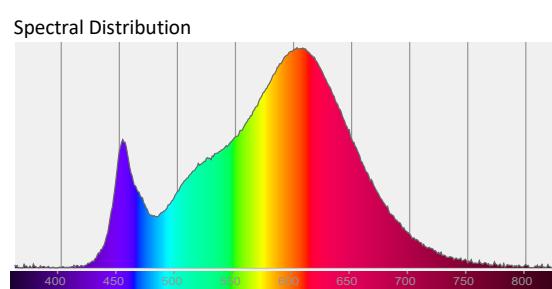
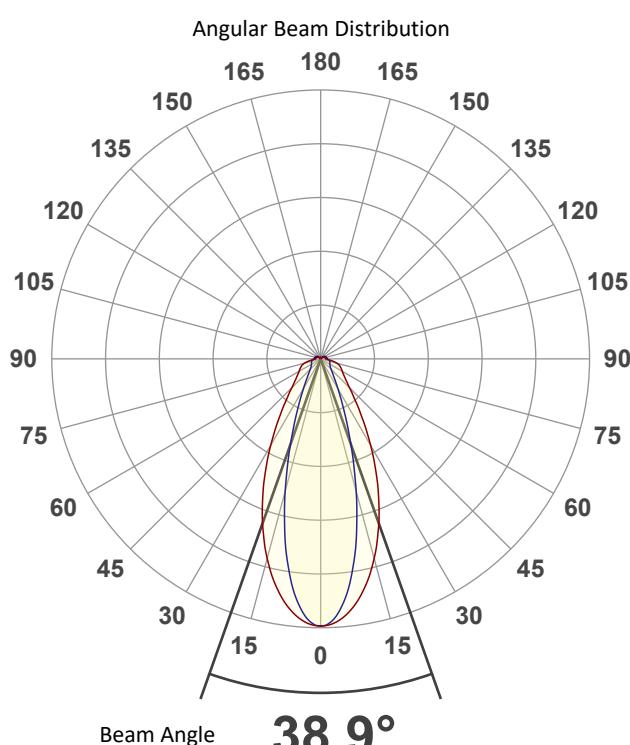
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.433  
Y: 0.400

### Light Quality



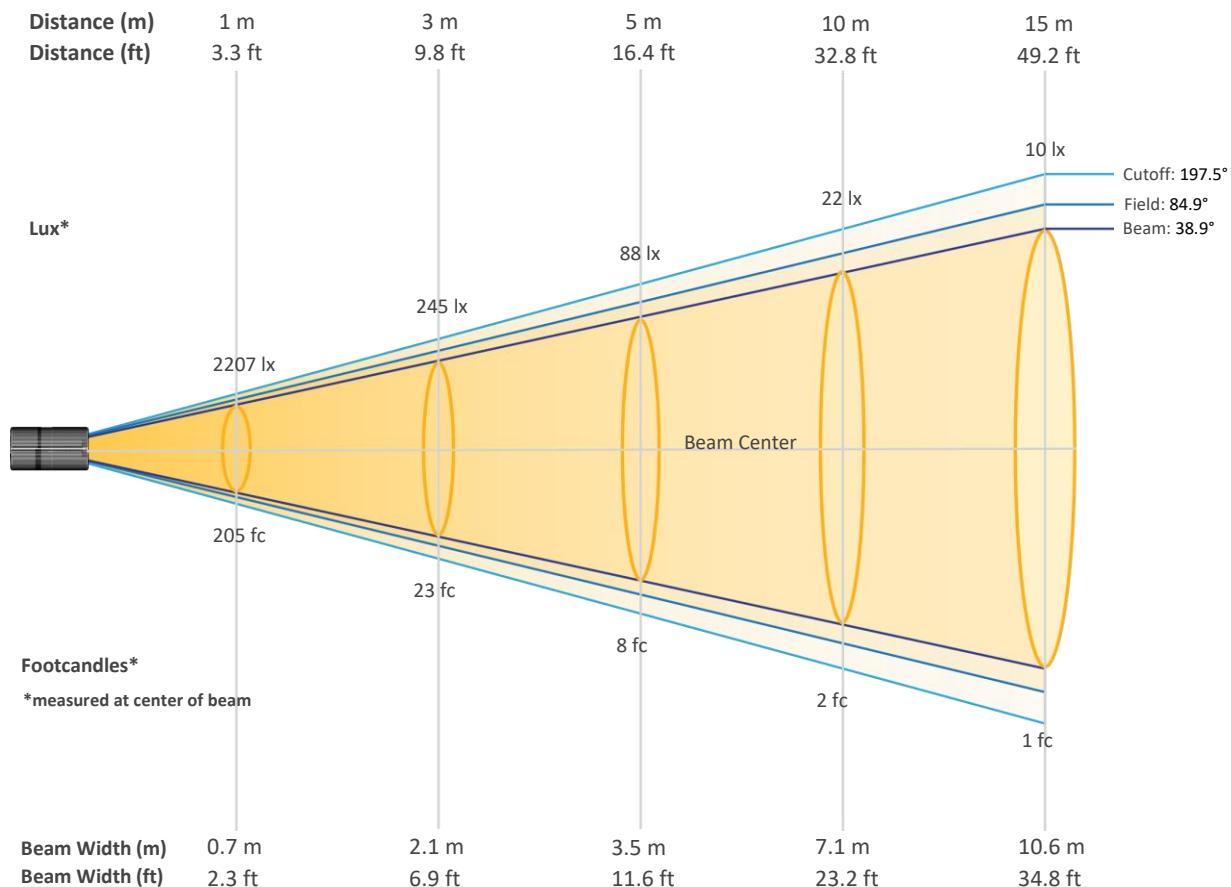
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

## Beam Details

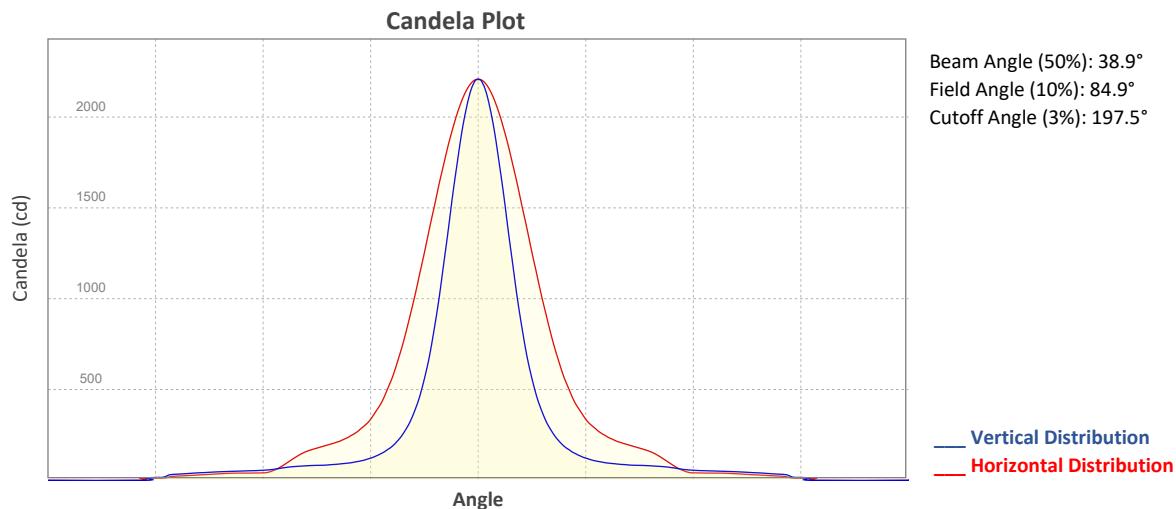


## Beam Intensities from 1-20m (3.3-65.6ft)

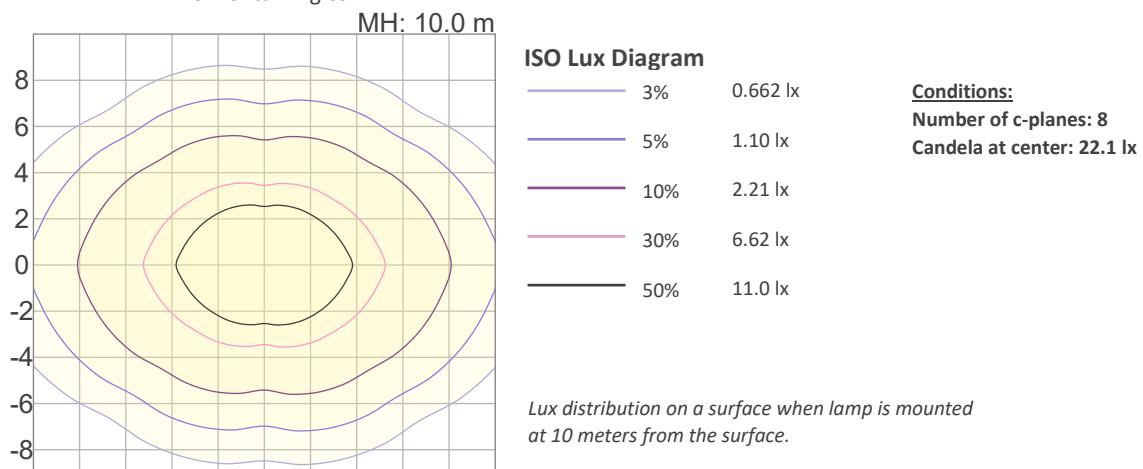
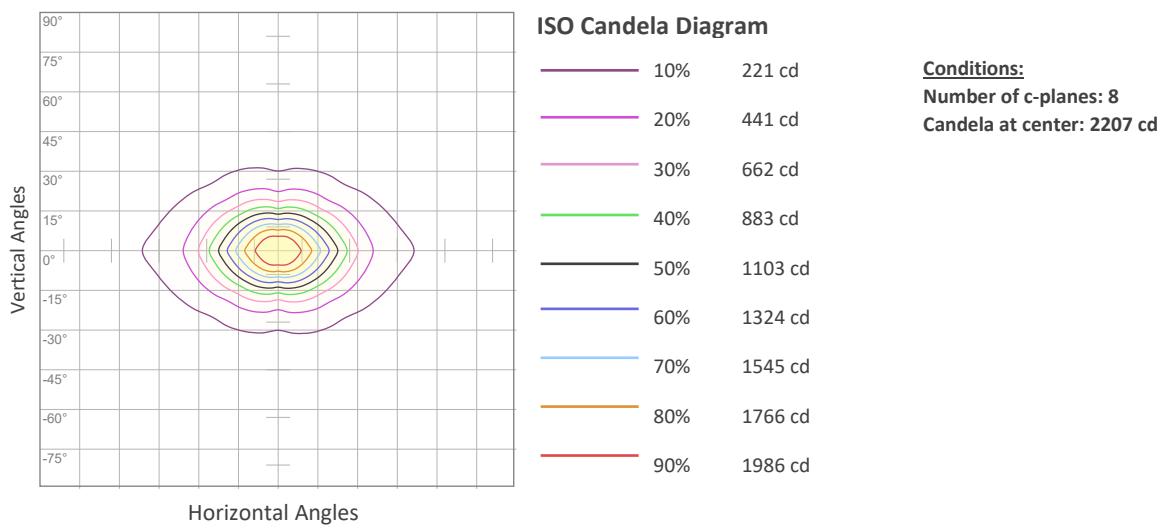
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2207	552	245	138	88	61	45	34	27	22
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	18	15	13	11	10	9	8	7	6	6
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	205	51	23	13	8	6	4	3	3	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	1	1	1	1	1	1	1	1	1

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only



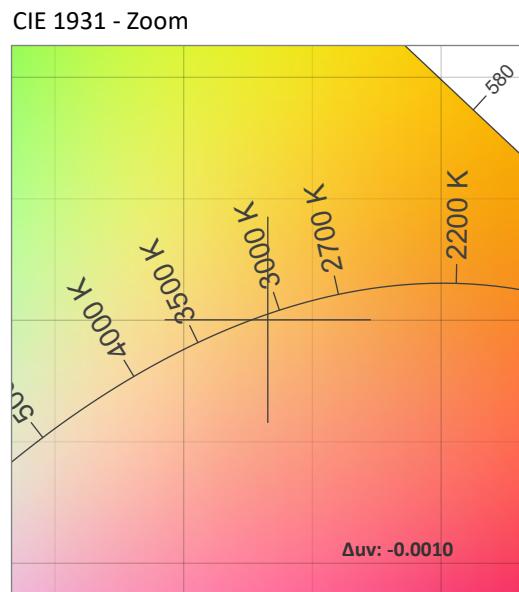
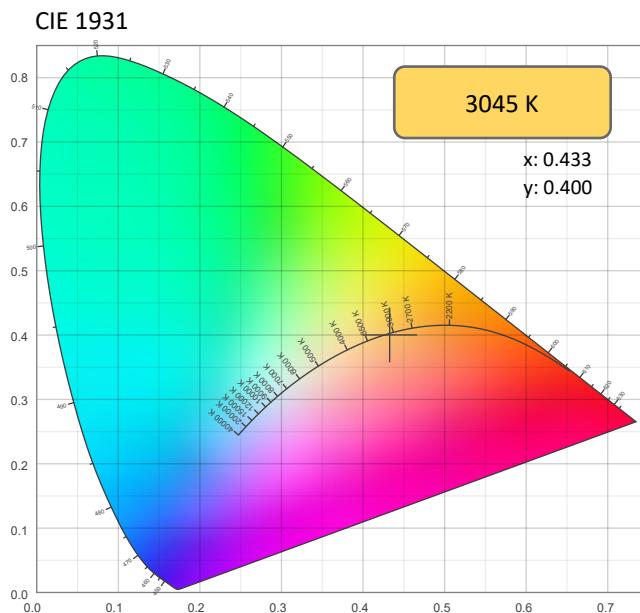
## ISO Diagrams



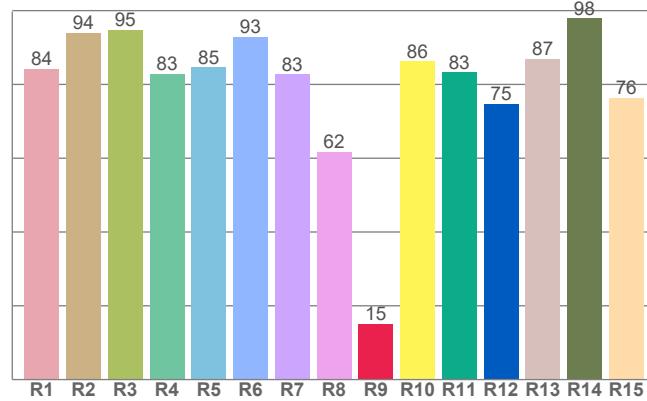
# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

## Chromaticity



**CRI: 84.7 (R1-R8)**

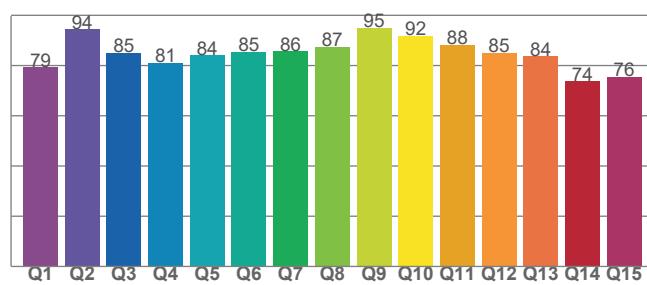


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3045 K	0.433	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.400	0.249

**CQS: 83.8**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.7	15.0	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.9	95.2

# Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

## TM-30 Details

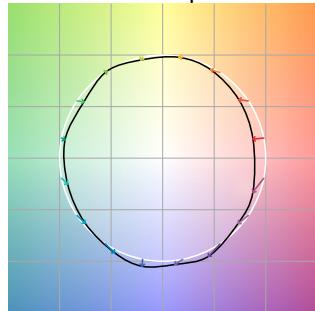
**Rf 85.9**

Fidelity Index  
(Rg)

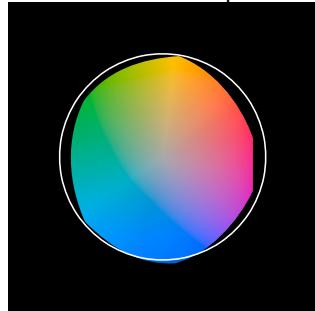
**Rg 95.2**

Gammut Index (Rg)

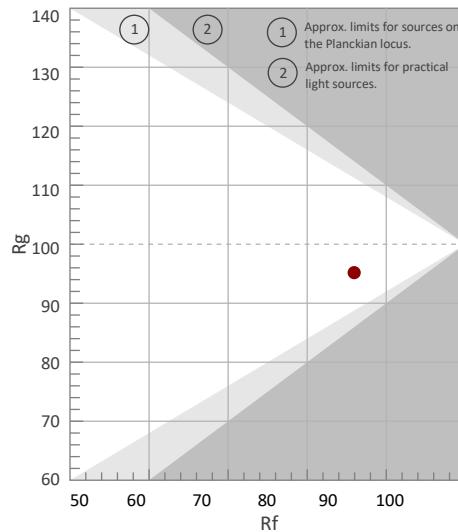
Color Vector Graphic



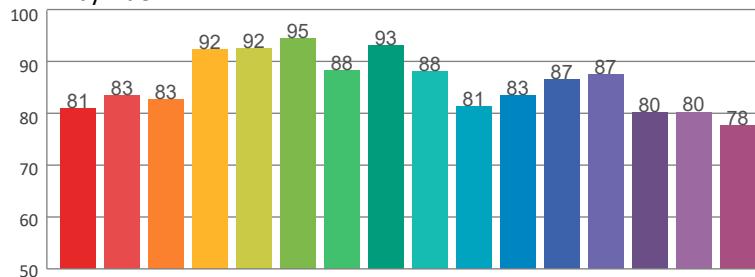
Color Distortion Graphic



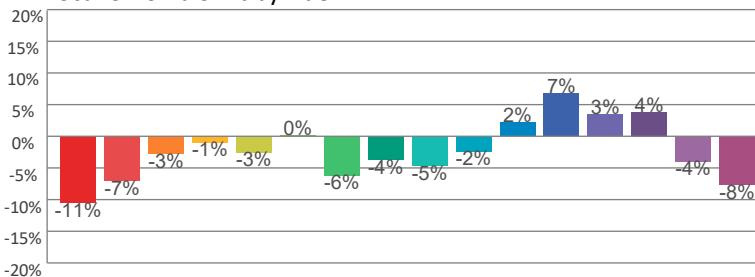
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	95	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	10%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



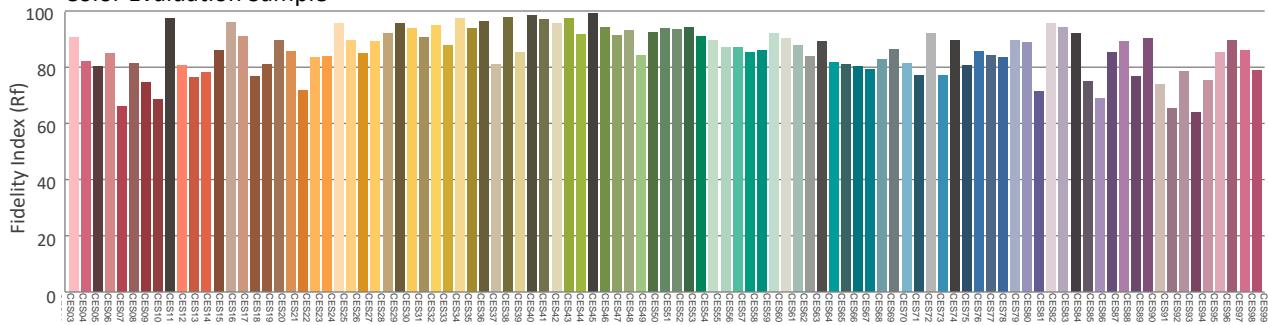
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

## Report Summary

### Measurements

Fixture Output: 2186 lm  
Fixture Peak: 1572 cd  
Fixture Efficacy: 44 lm/W  
Intensity @ 5m: 63 lux  
Color Temperature: 5531 K  
CRI: 69.3 CRI R9 Value: 25.0  
CQS: 81.7

TLCI: 79

TM-30 Rf: 73.2

TM-30 Rg: 93.4

Beam Angle (50%): 62.3°

Field Angle (10%): 118.2°

Cutoff Angle (20%): 221.1°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 52.31 W

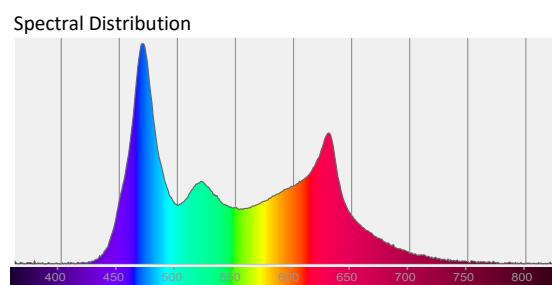
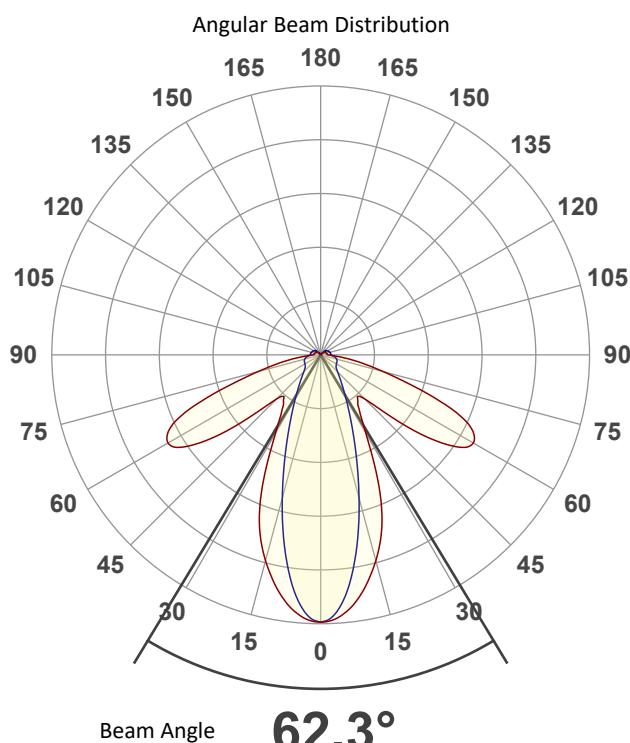
Current: 0.435 A

Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.332  
Y: 0.319

### Light Quality



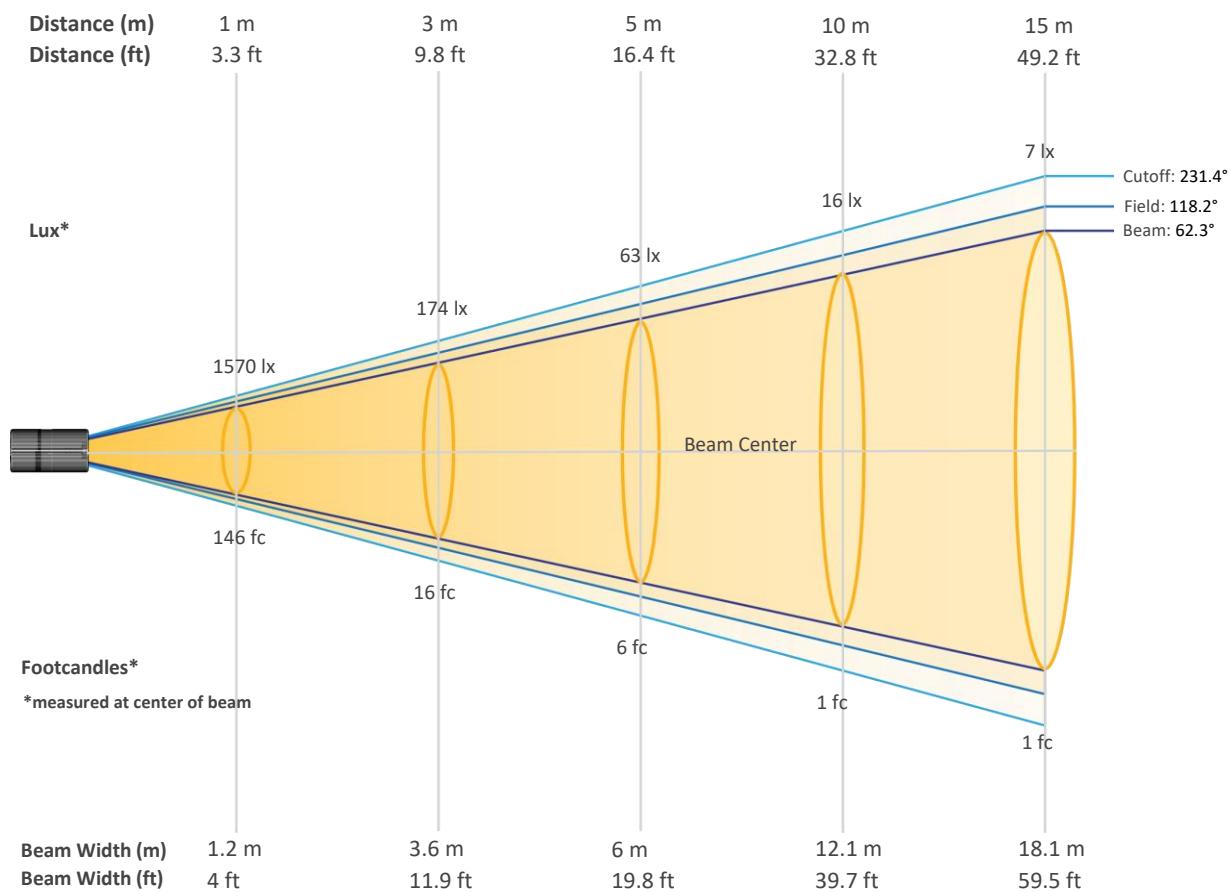
### Color Temperature



# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

## Beam Details

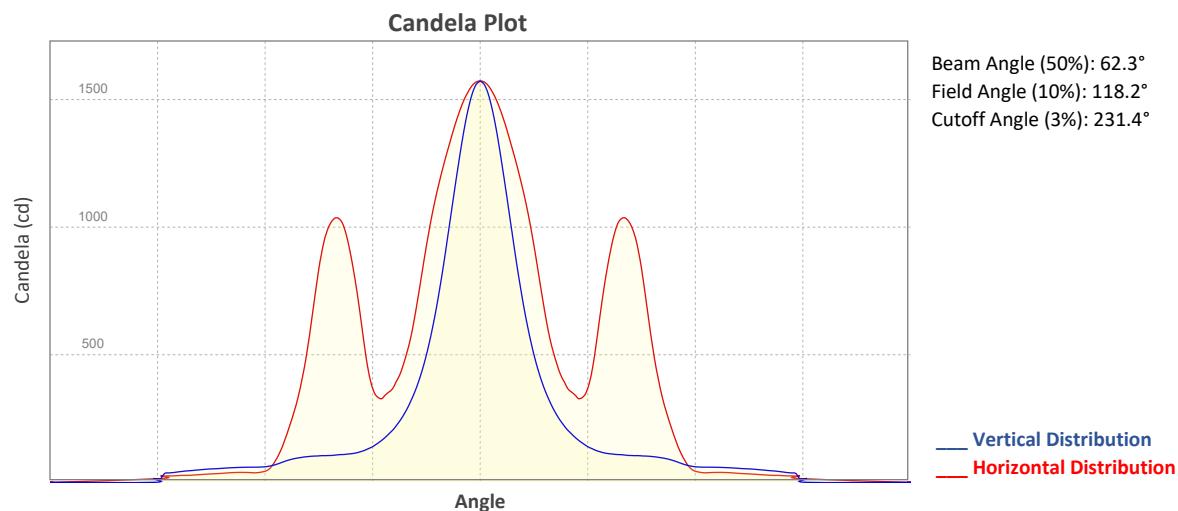


Beam Intensities from 1-20m (3.3-65.6ft)

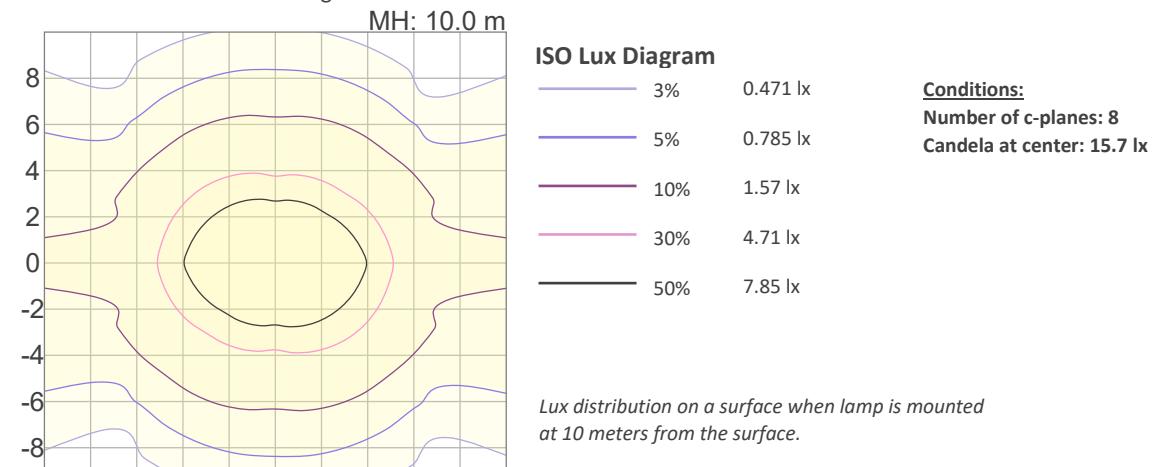
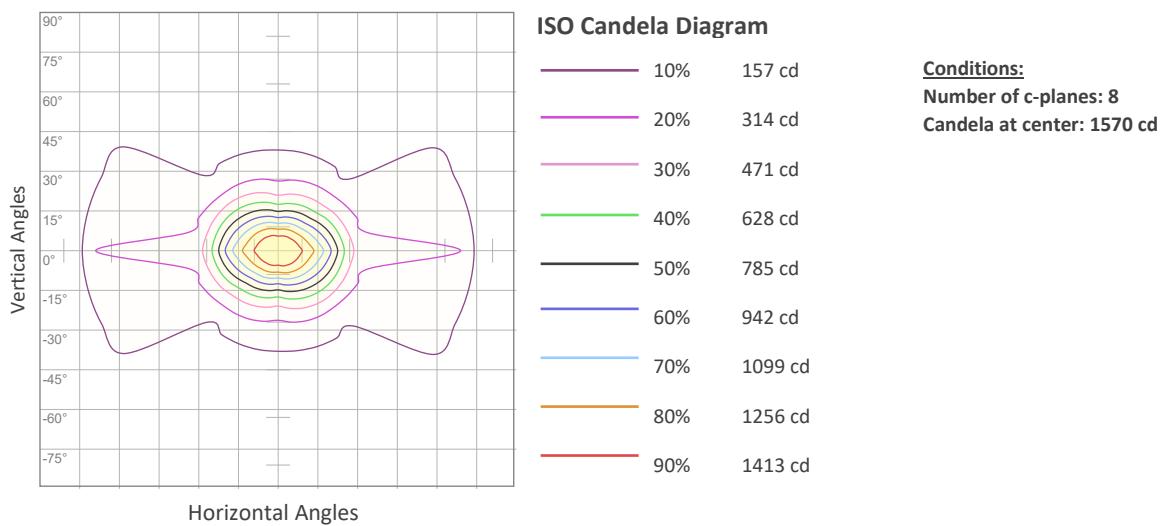
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1570	393	174	98	63	44	32	25	19	16
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	13	11	9	8	7	6	5	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	146	36	16	9	6	4	3	2	2	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	1	1	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power



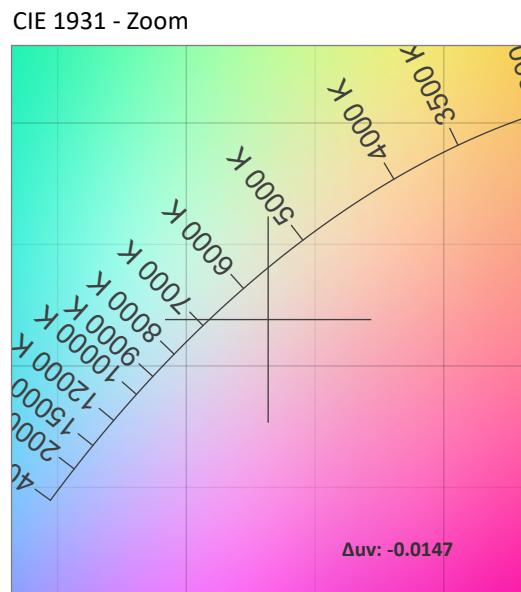
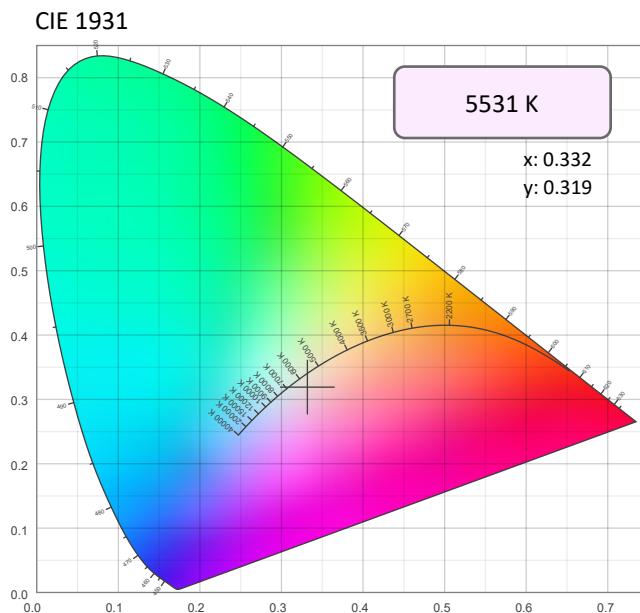
## ISO Diagrams



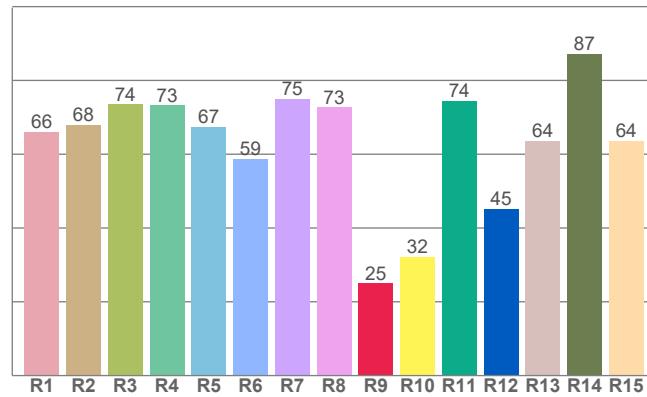
# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

## Chromaticity



CRI: 69.3 (R1-R8)

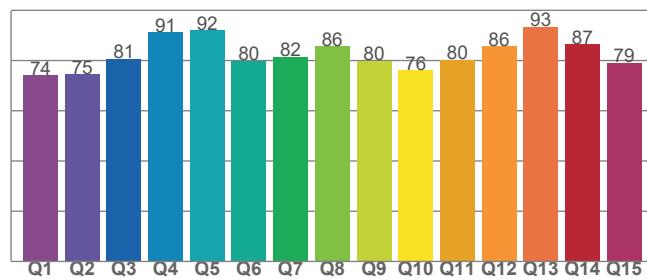


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5531 K	0.332	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0147	0.319	0.215

CQS: 81.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.3	25.0	81.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.2	93.4

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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

## TM-30 Details

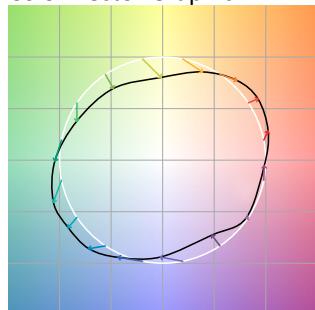
**Rf 73.2**

Fidelity Index  
(Rg)

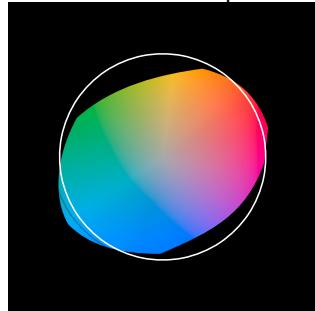
**Rg 93.4**

Gammut Index (Rg)

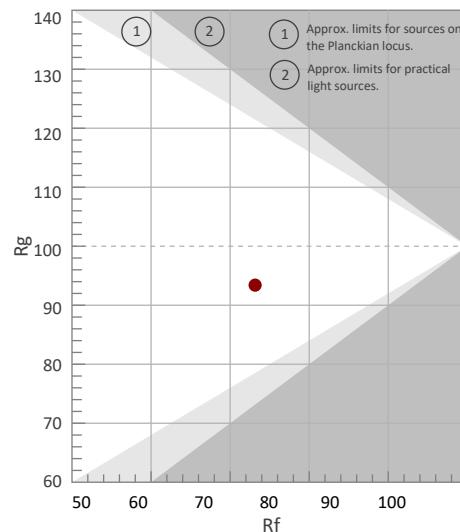
Color Vector Graphic



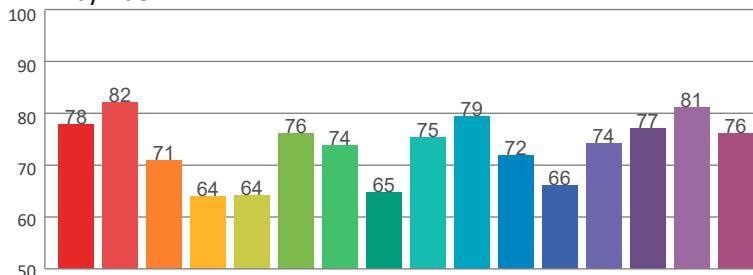
Color Distortion Graphic



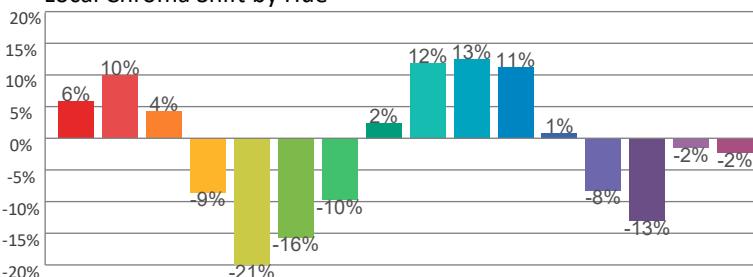
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	3%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-2%	14%



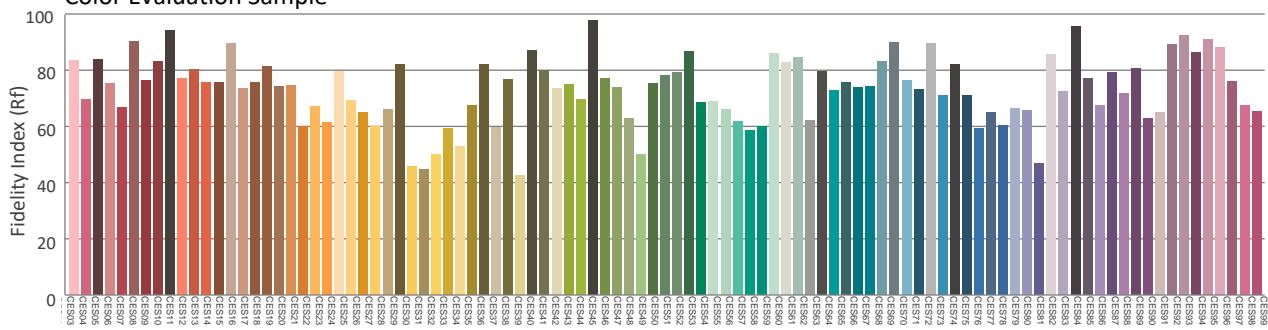
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only

## Report Summary

### Measurements

Fixture Output: 591 lm  
Fixture Peak: 445 cd  
Fixture Efficacy: 19 lm/W  
Intensity @ 5m: 18 lux  
Color Temperature: 0 K  
CRI: 0.0 CRI R9 Value: 0.0  
CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 59.8°

Field Angle (10%): 103°

Cutoff Angle (20%): 220°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 33.2 W

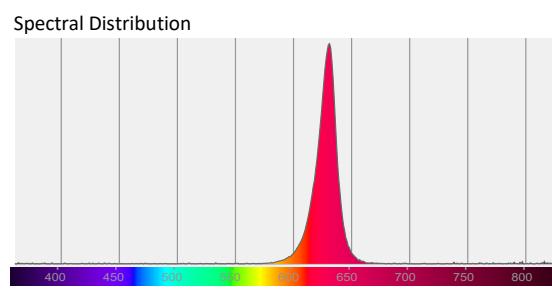
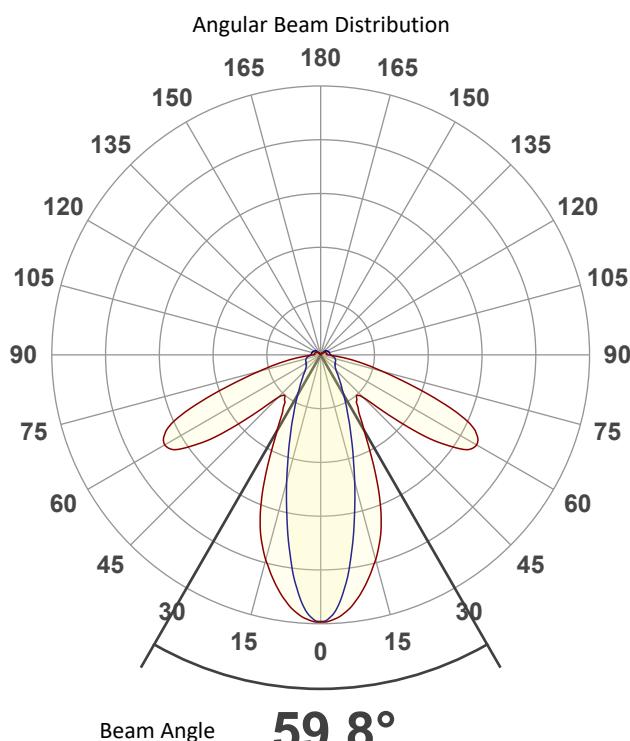
Current: 0.277 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.692  
Y: 0.307

### Light Quality

CRI: 0.0

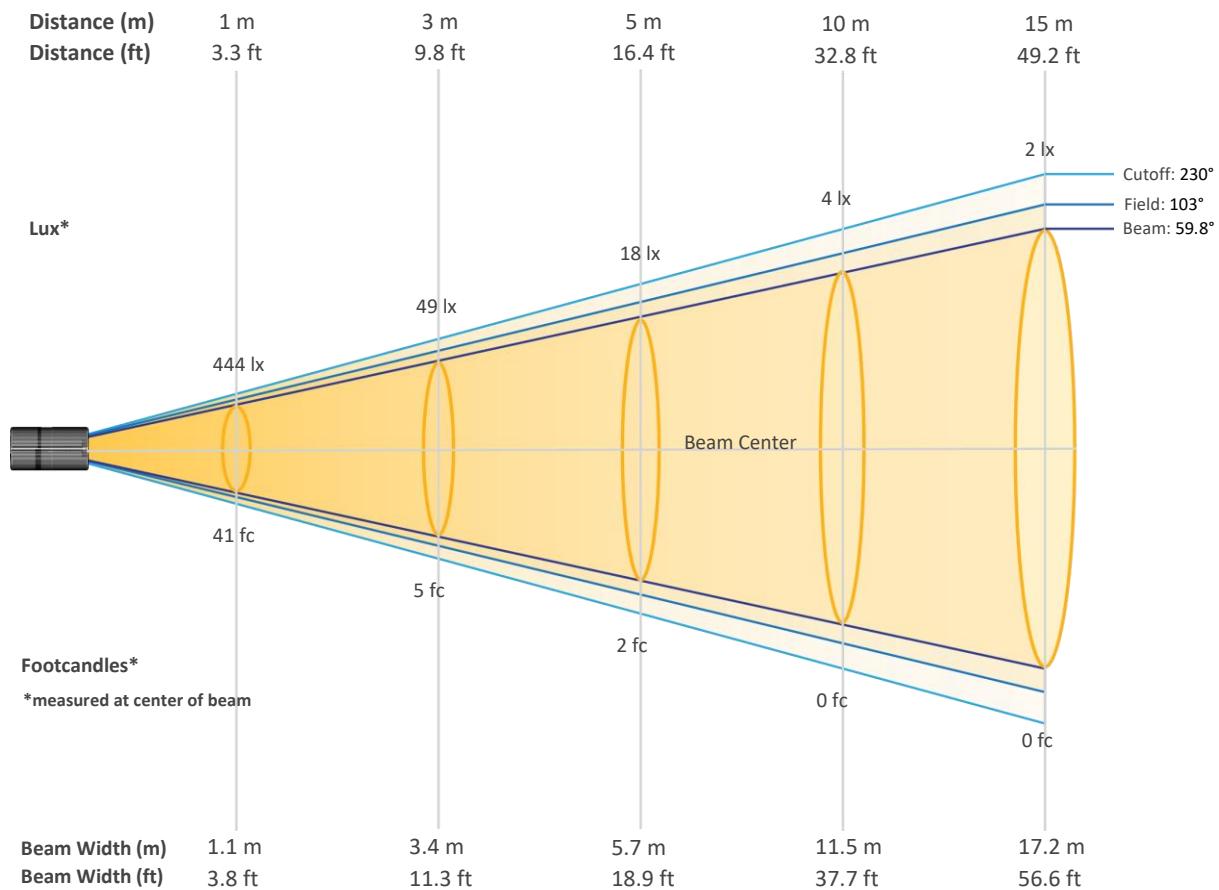
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only

## Beam Details

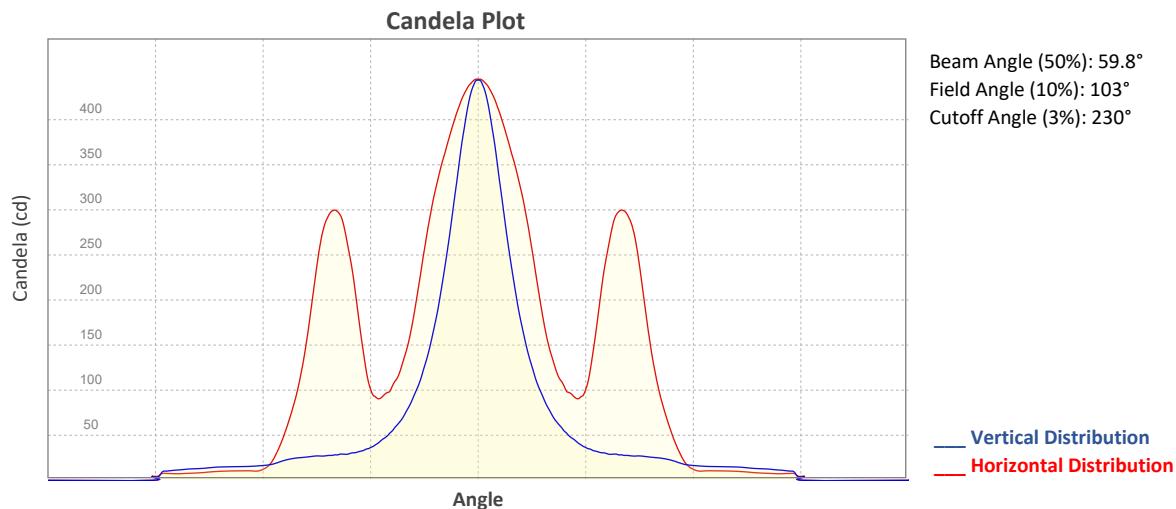


Beam Intensities from 1-20m (3.3-65.6ft)

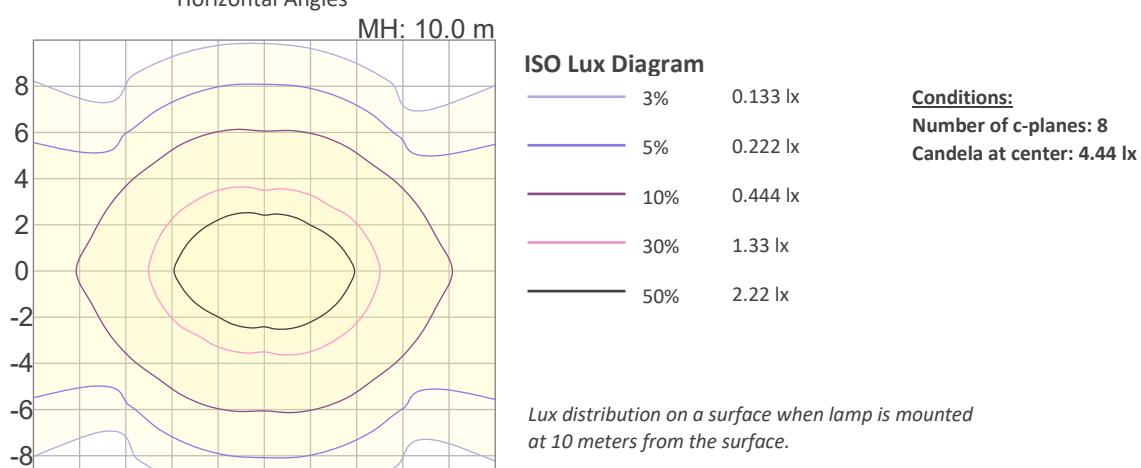
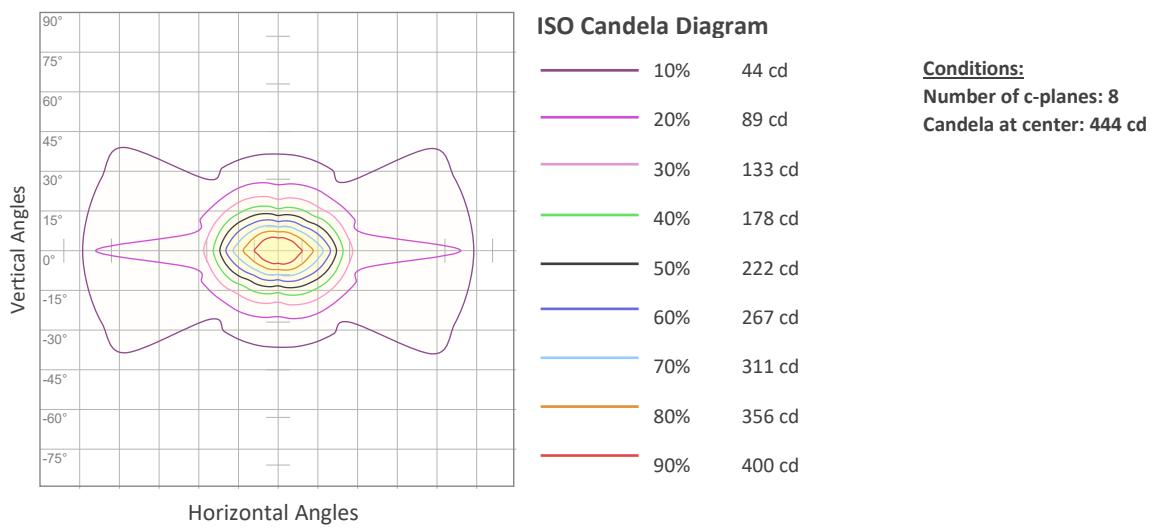
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	444	111	49	28	18	12	9	7	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	41	10	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only



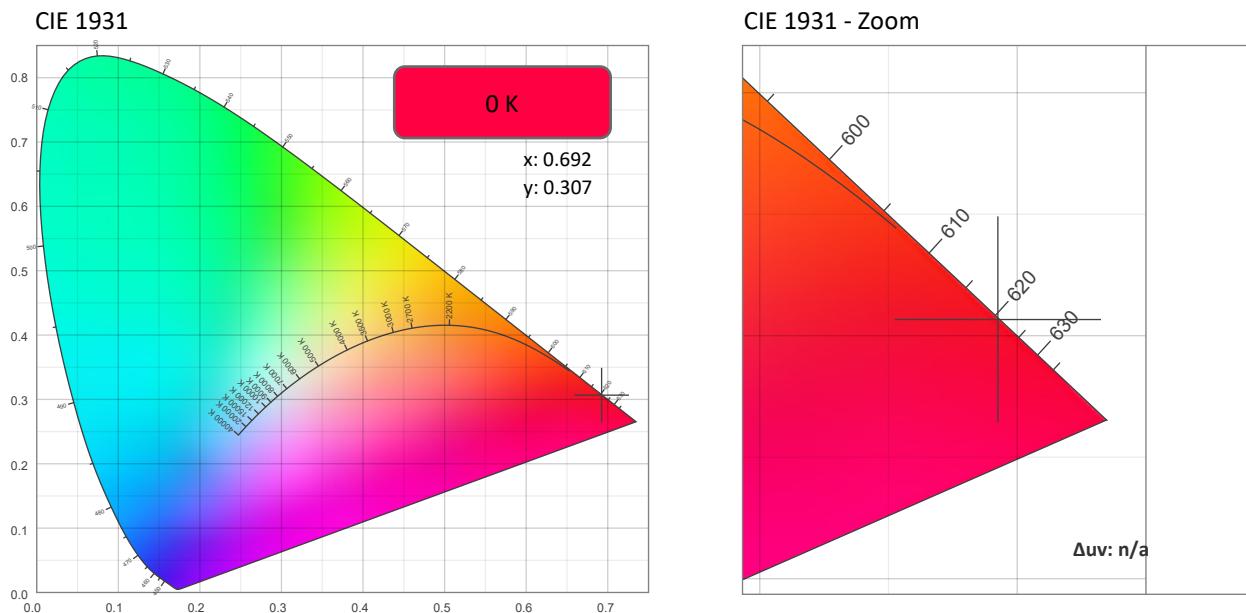
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.692	0.307

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.307	0.523

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only

## TM-30 Details

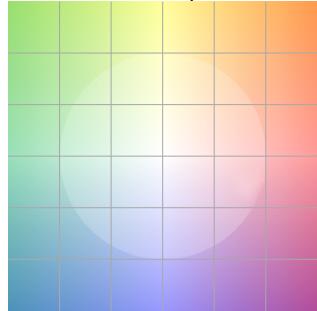
**Rf 0.0**

Fidelity Index  
(Rg)

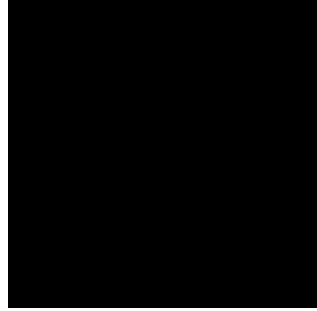
**Rg 0.0**

Gammut Index (Rg)

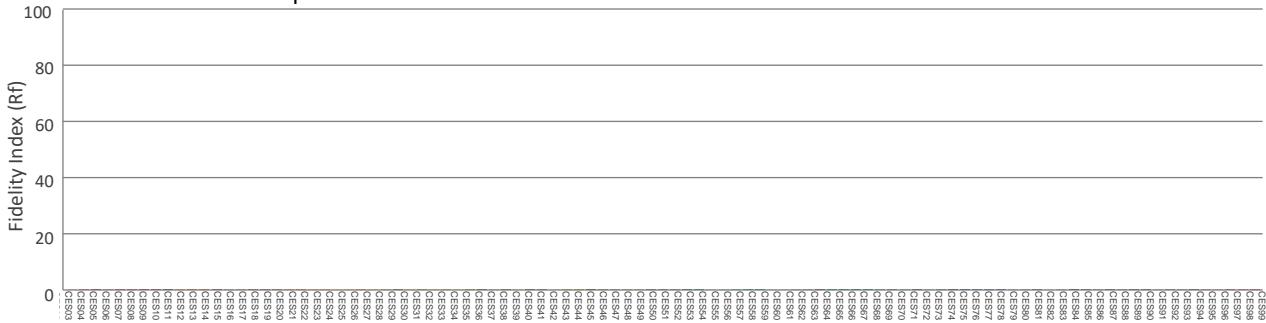
Color Vector Graphic



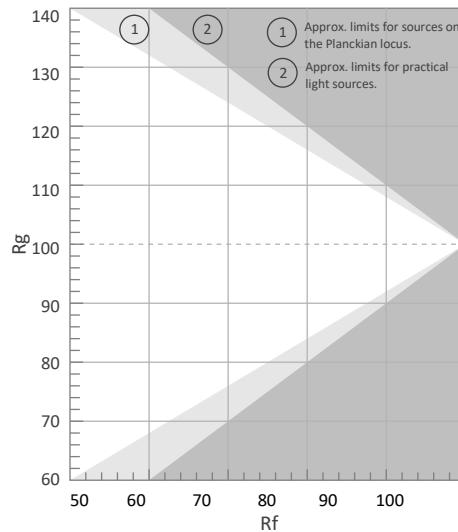
Color Distortion Graphic



Color Evaluation Sample



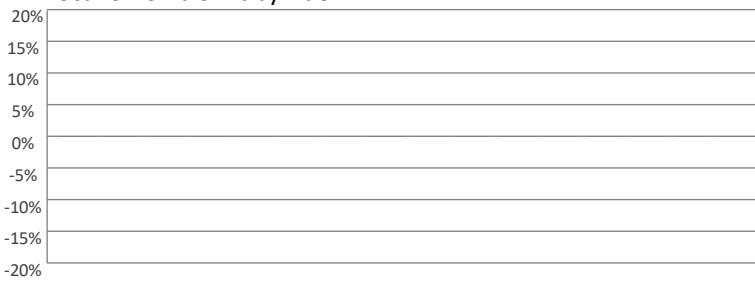
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only

## Report Summary

### Measurements

Fixture Output: 1150 lm

Fixture Peak: 837 cd

Fixture Efficacy: 36 lm/W

Intensity @ 5m: 33 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 60.7°

Field Angle (10%): 118.3°

Cutoff Angle (20%): 222.1°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 34.13 W

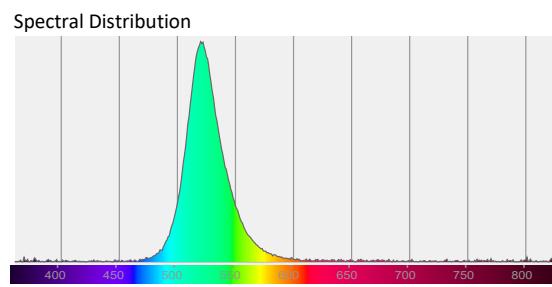
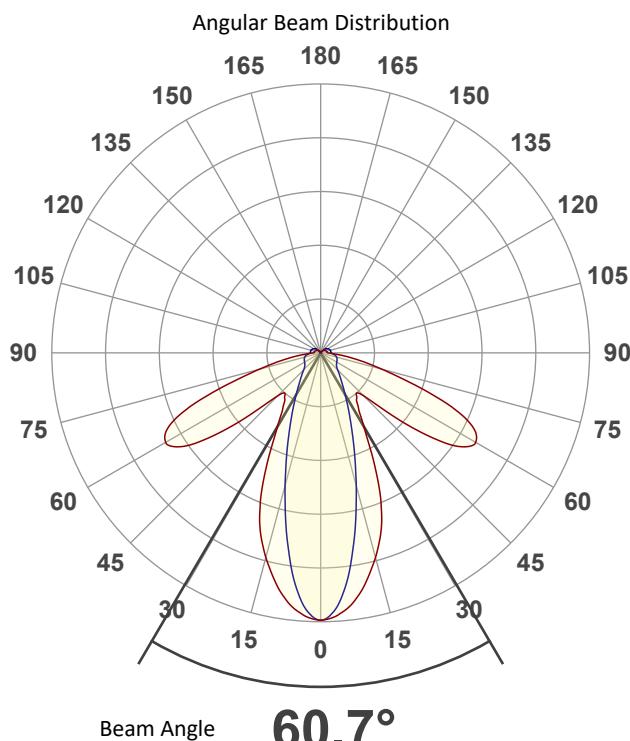
Current: 0.284 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.175  
Y: 0.722



### Light Quality

CRI: 0.0

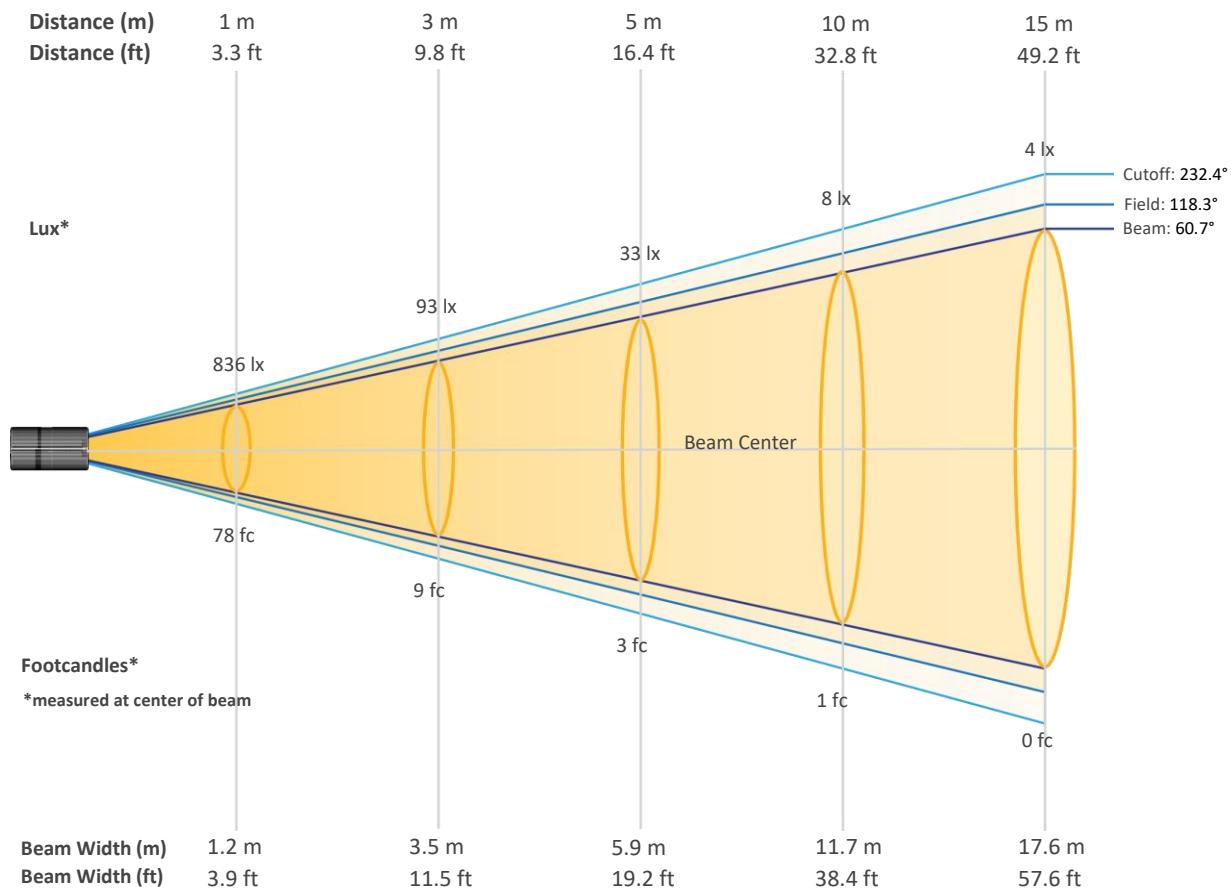
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only

## Beam Details



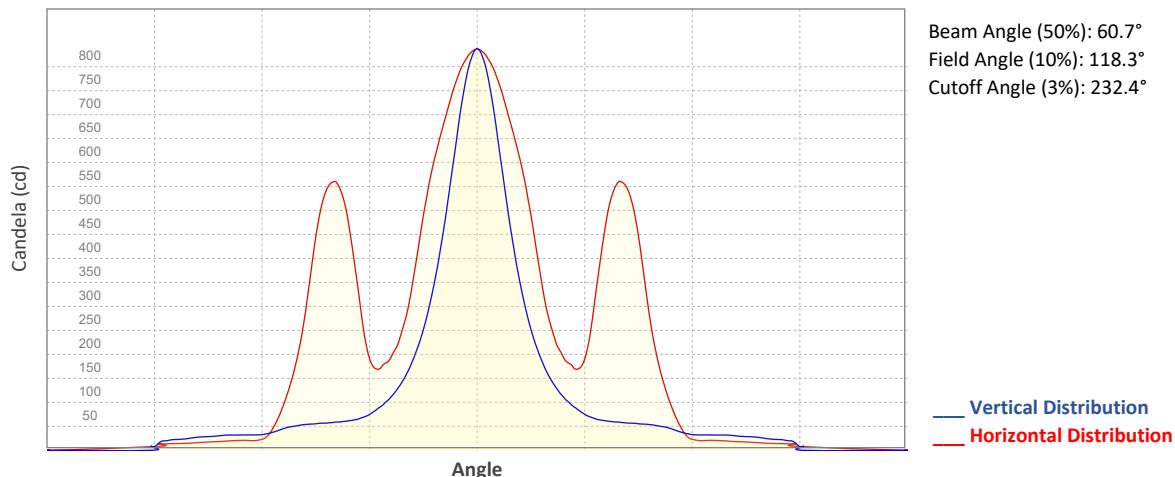
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	836	209	93	52	33	23	17	13	10	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	3	3	3	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	78	19	9	5	3	2	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	0	0	0	0	0	0	0	0

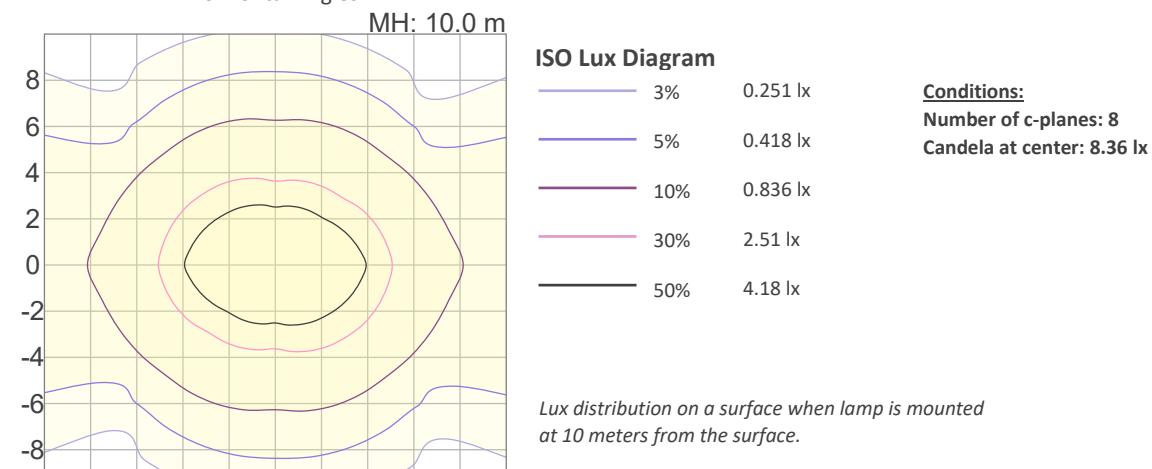
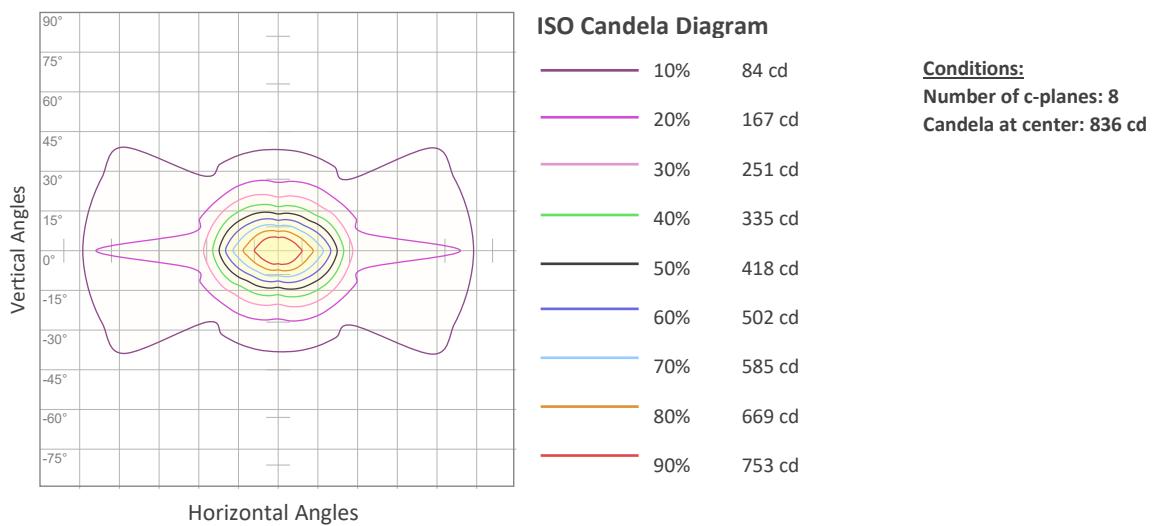
# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only

Candela Plot



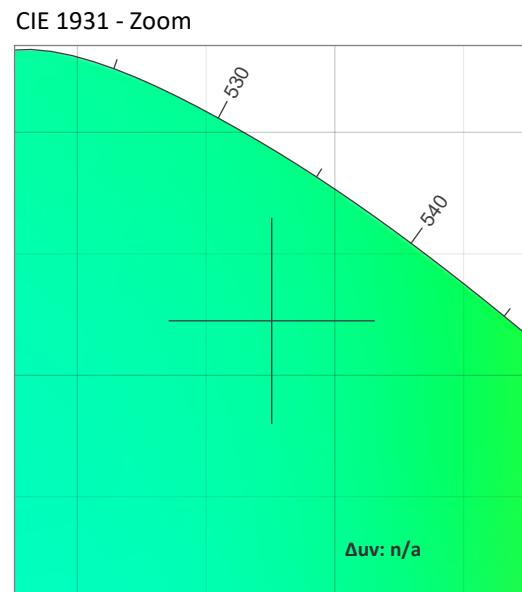
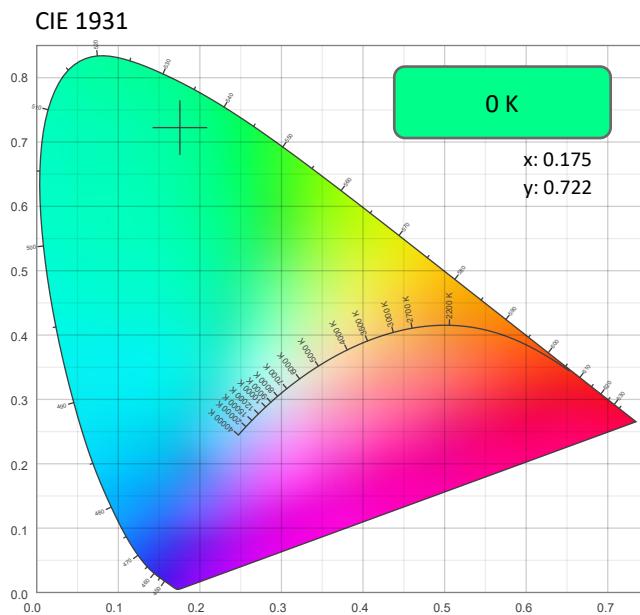
## ISO Diagrams



# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.175	0.722

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.722	0.062

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

## Logic GZL: 90X1 Filter - Green Only

## TM-30 Details

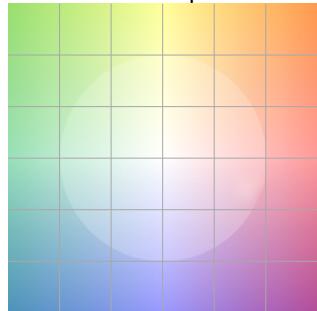
Rf 0,0

# Fidelity Index (Rg)

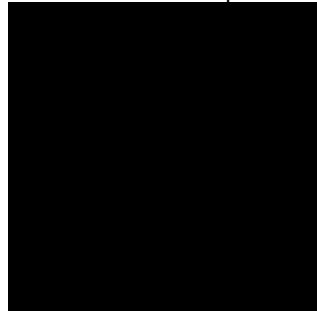
Rg 0.0

## Gammut Index (Rg)

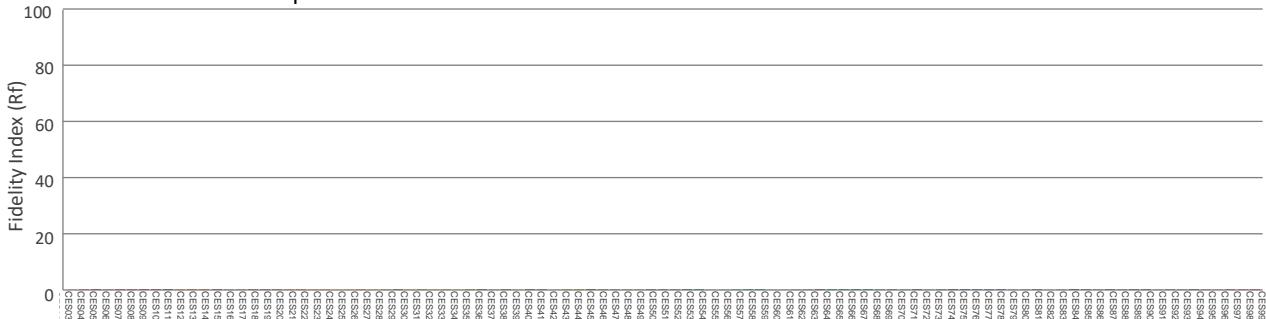
## Color Vector Graphic



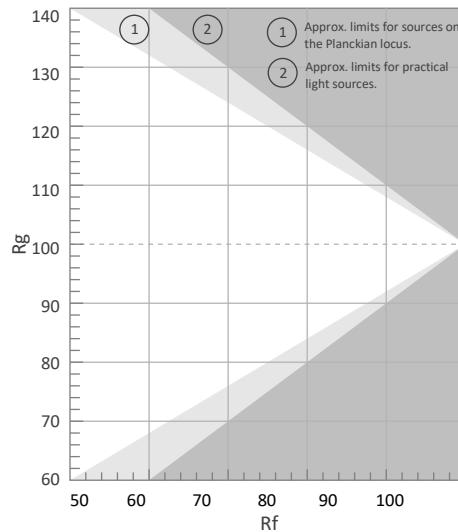
## Color Distortion Graphic



## Color Evaluation Sample



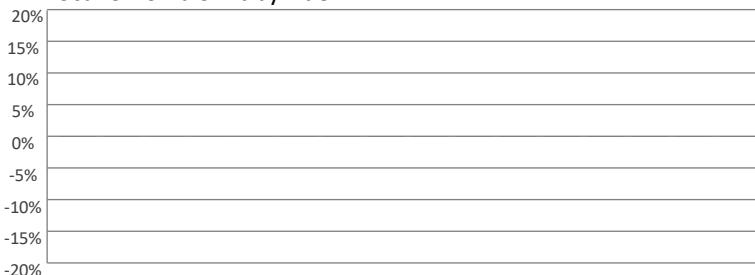
		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



## Rf by Hue



## Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only

## Report Summary

### Measurements

Fixture Output: 426 lm  
Fixture Peak: 288 cd  
Fixture Efficacy: 13 lm/W  
Intensity @ 5m: 12 lux  
Color Temperature: 0 K  
CRI: 0.0 CRI R9 Value: 0.0  
CQS: 0.0

TLCI: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 63.4°

Field Angle (10%): 124.8°

Cutoff Angle (2%): 212.8°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 35.47 W

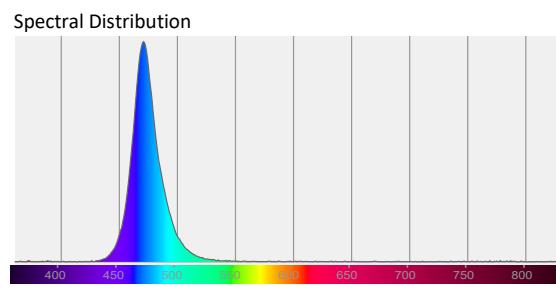
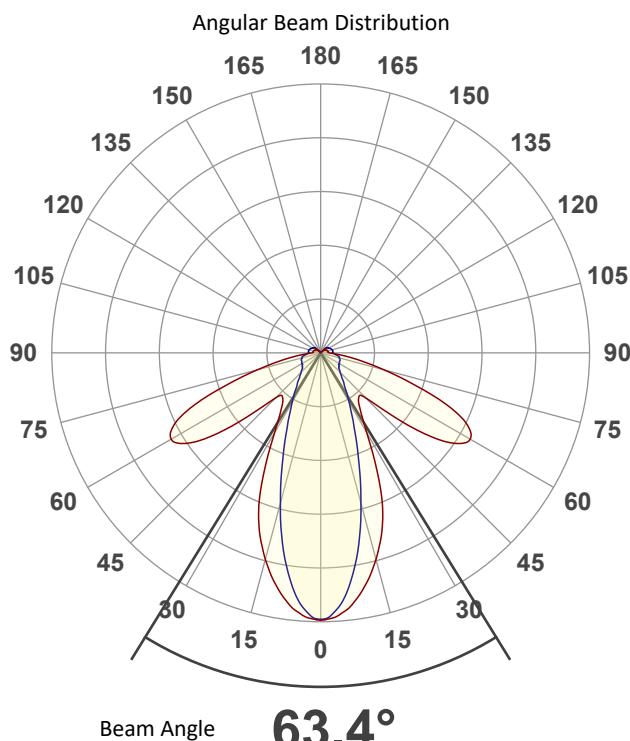
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



### Light Quality

CRI: 0.0

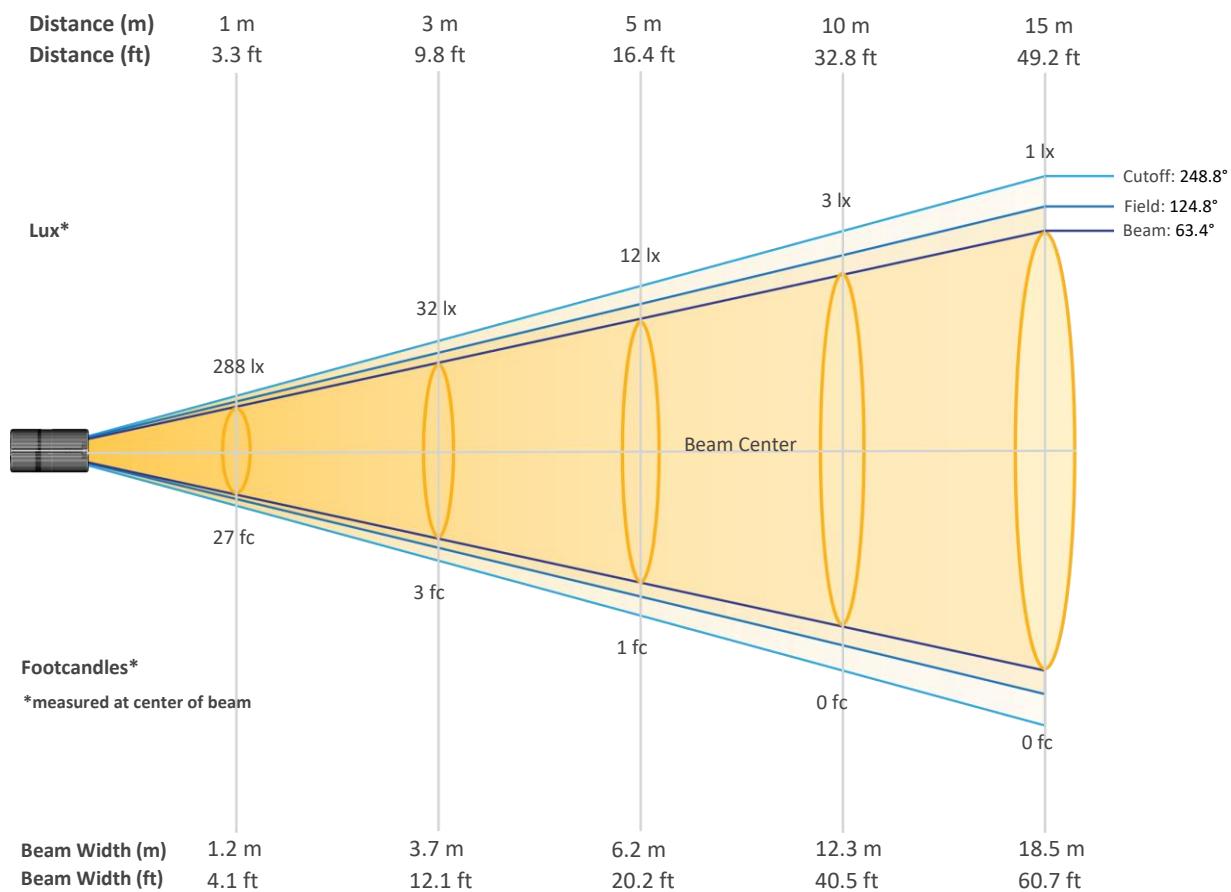
### Color Temperature

0 K

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only

## Beam Details

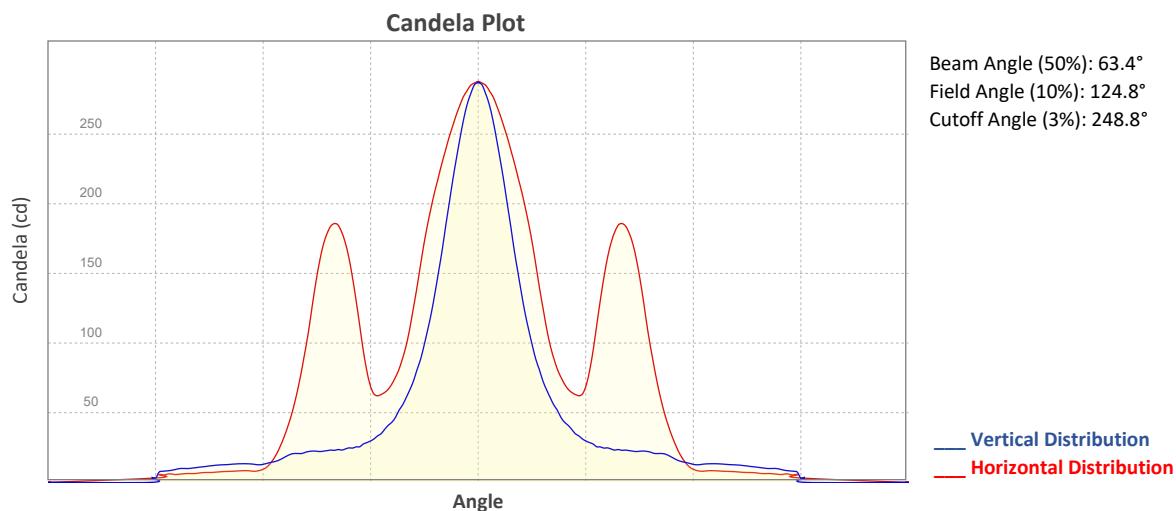


## Beam Intensities from 1-20m (3.3-65.6ft)

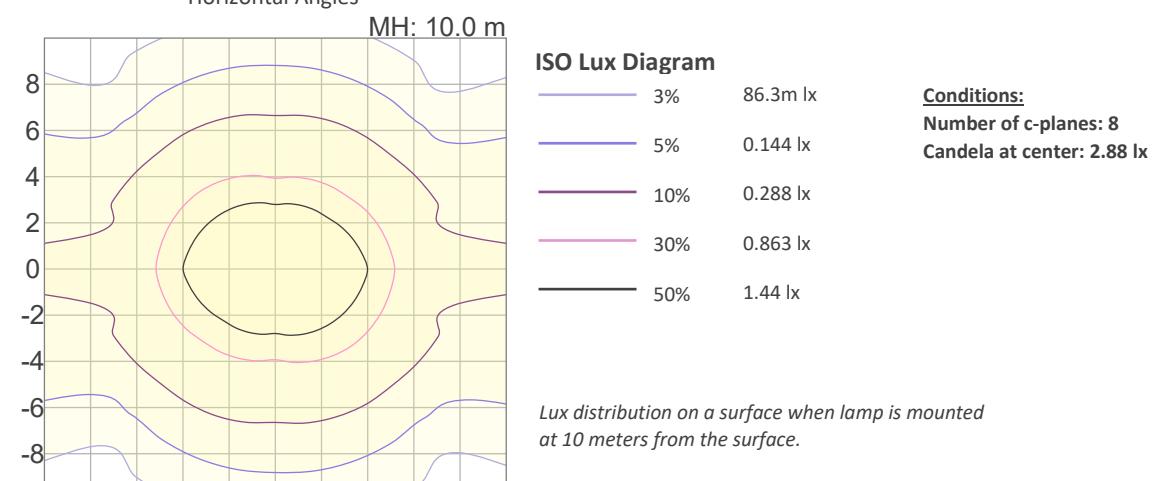
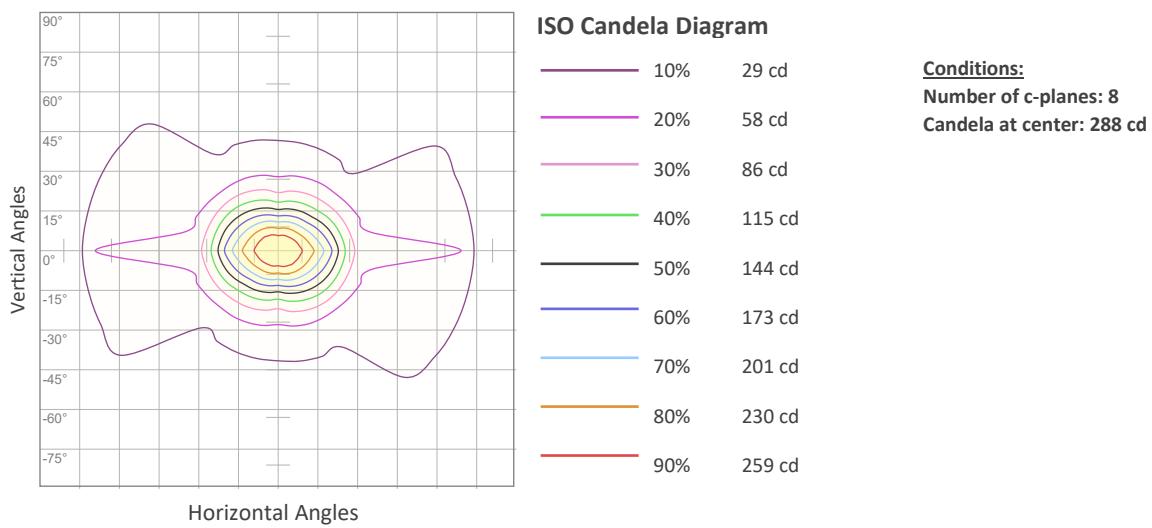
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	288	72	32	18	12	8	6	4	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	27	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only



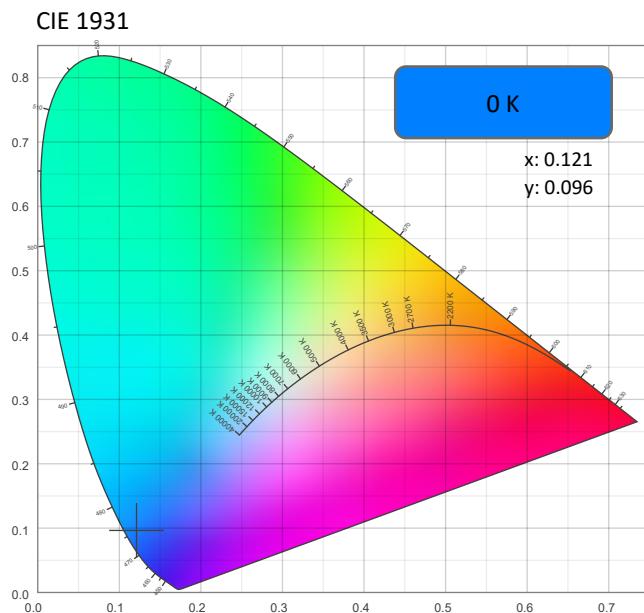
## ISO Diagrams



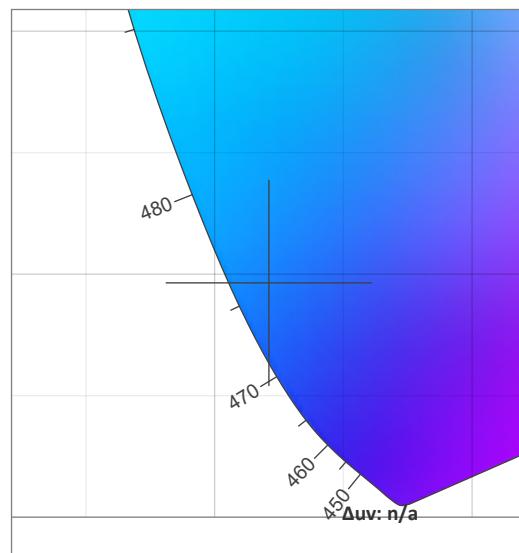
# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only

## Chromaticity



## CIE 1931 - Zoom



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.121	0.096

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.096	0.124

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only

## TM-30 Details

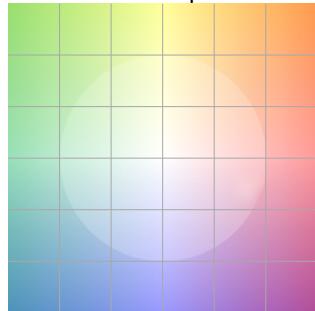
**Rf 0.0**

Fidelity Index  
(Rg)

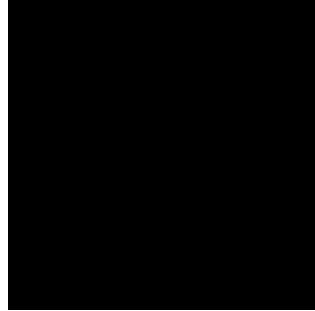
**Rg 0.0**

Gammut Index (Rg)

Color Vector Graphic



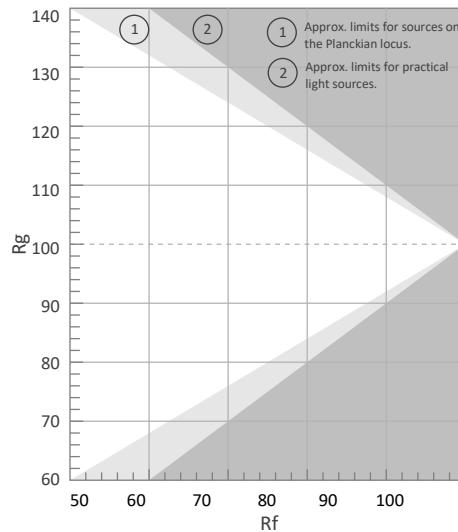
Color Distortion Graphic



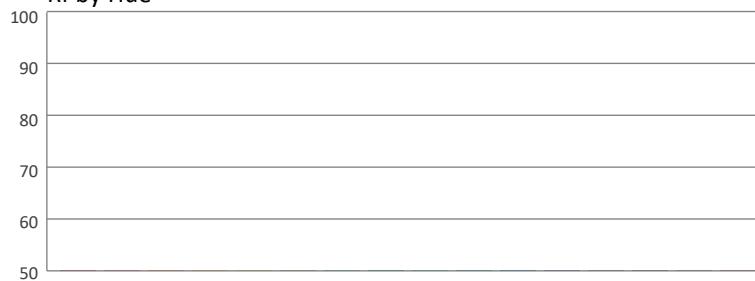
Color Evaluation Sample



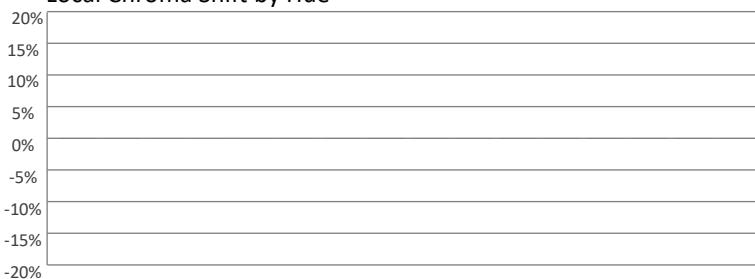
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



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# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

## Report Summary

### Measurements

Fixture Output: 1808 lm  
Fixture Peak: 1299 cd  
Fixture Efficacy: 54 lm/W  
Intensity @ 5m: 52 lux  
Color Temperature: 3051 K  
CRI: 84.6 CRI R9 Value: 14.8  
CQS: 83.8

TLCI: 73

TM-30 Rf: 85.9

TM-30 Rg: 95.0

Beam Angle (50%): 62.7°

Field Angle (10%): 117.4°

Cutoff Angle (2%): 226.2°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 35.42 W

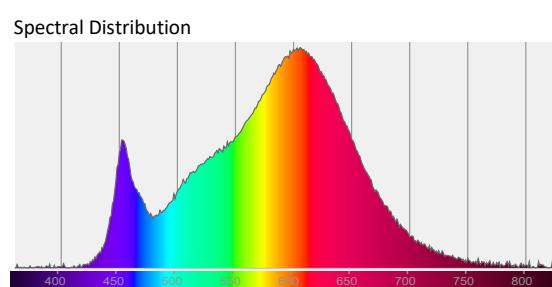
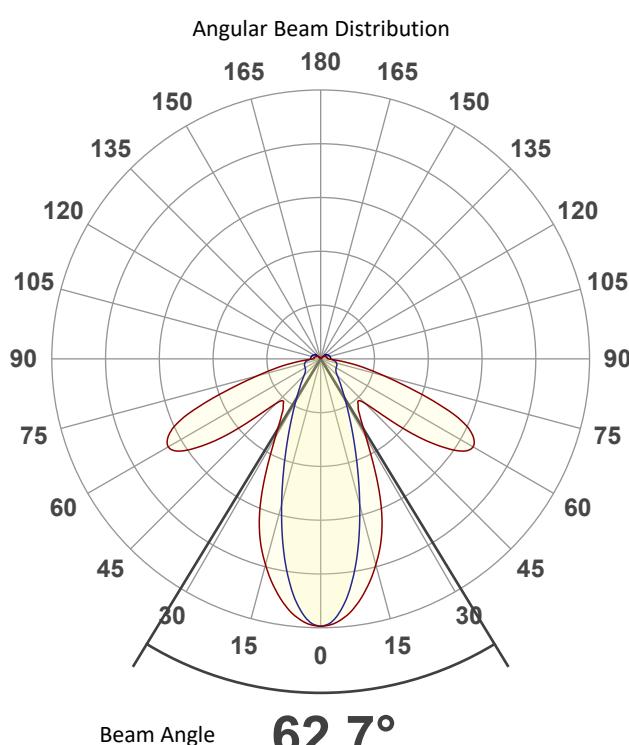
Current: 0.296 A

Power Factor: 0.94



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.433  
Y: 0.401

### Light Quality

CRI: 84.6

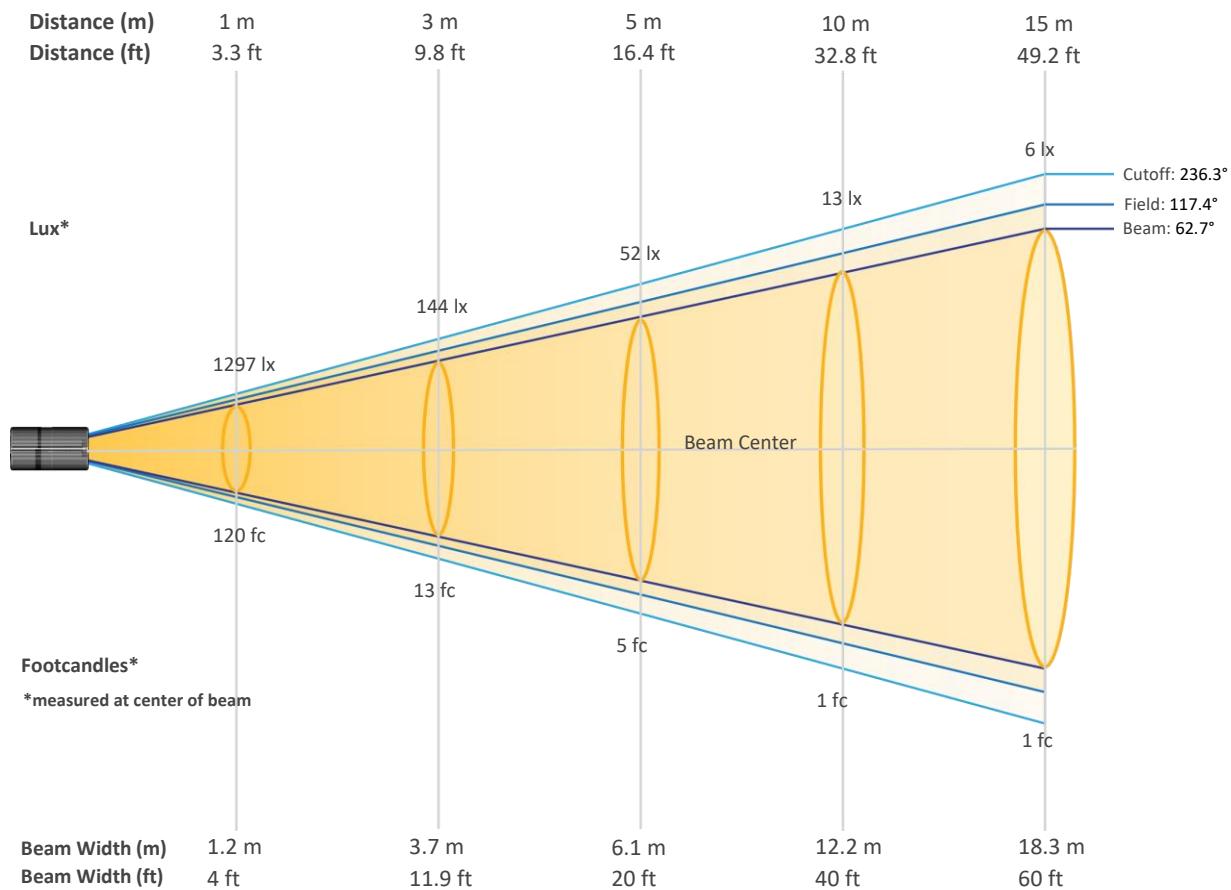
### Color Temperature

3051 K

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

## Beam Details

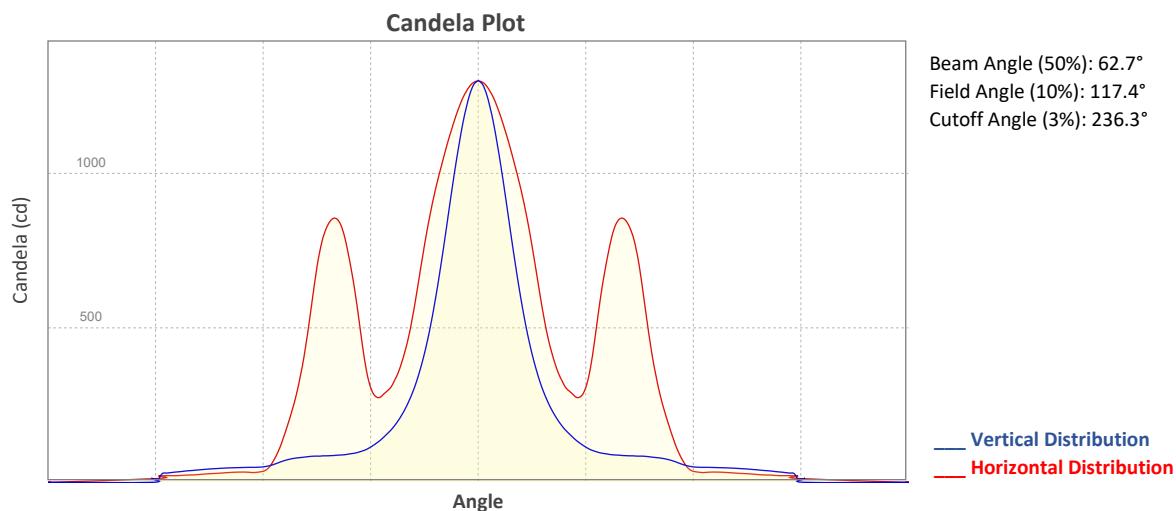


Beam Intensities from 1-20m (3.3-65.6ft)

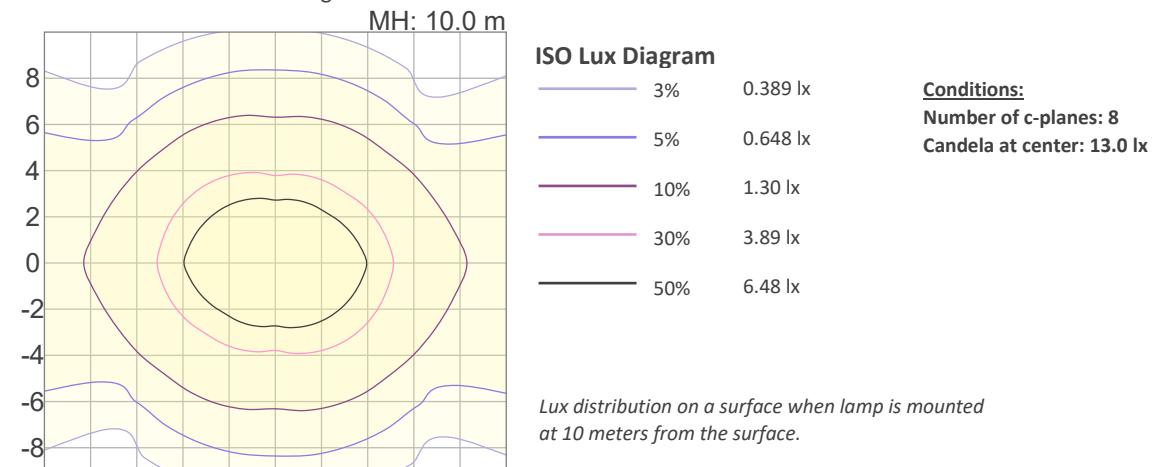
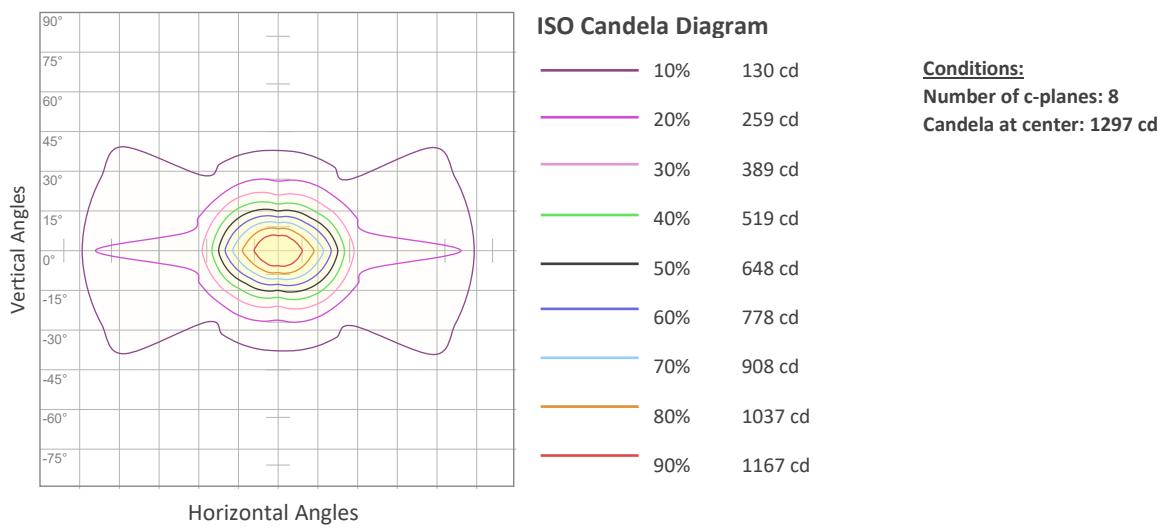
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1297	324	144	81	52	36	26	20	16	13
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	11	9	8	7	6	5	4	4	4	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	120	30	13	8	5	3	2	2	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	0	0	0	0	0

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only



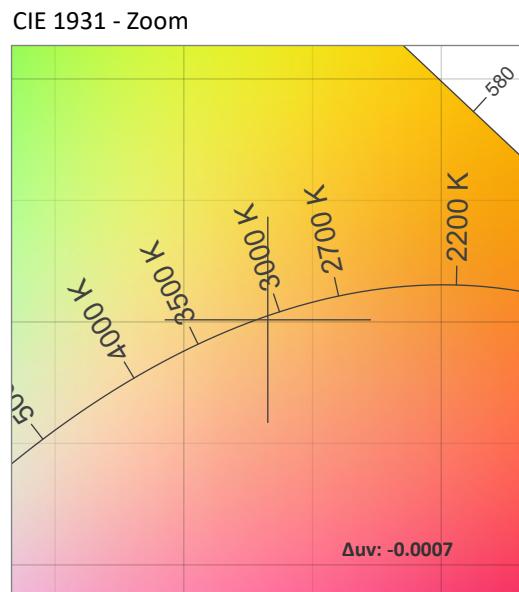
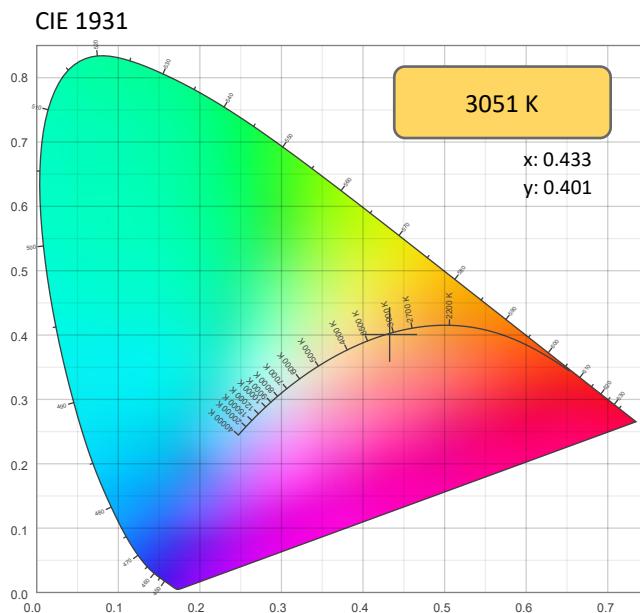
## ISO Diagrams



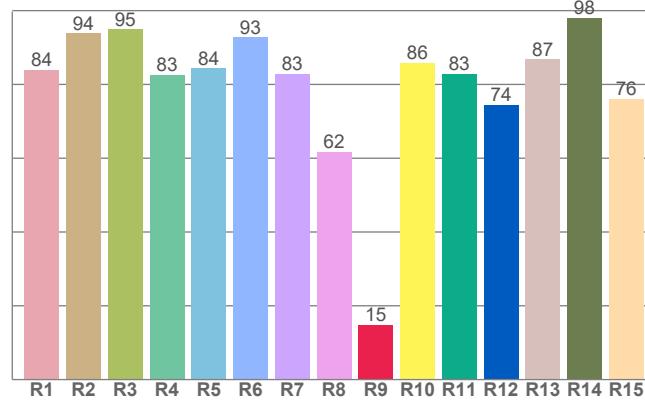
# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

## Chromaticity



**CRI: 84.6 (R1-R8)**

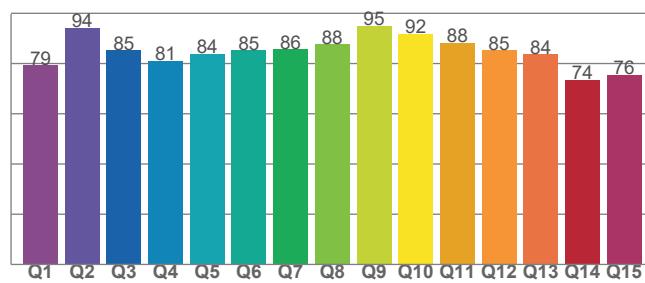


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3051 K	0.433	0.401

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.401	0.249

**CQS: 83.8**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.6	14.8	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.9	95.0

# Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

## TM-30 Details

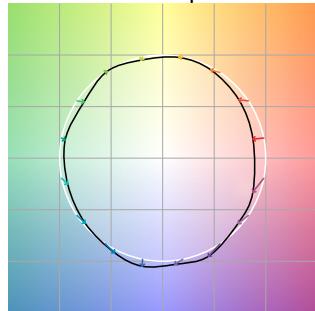
**Rf 85.9**

Fidelity Index  
(Rg)

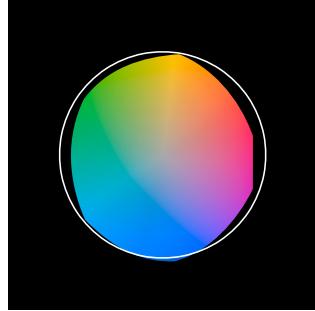
**Rg 95.0**

Gammut Index (Rg)

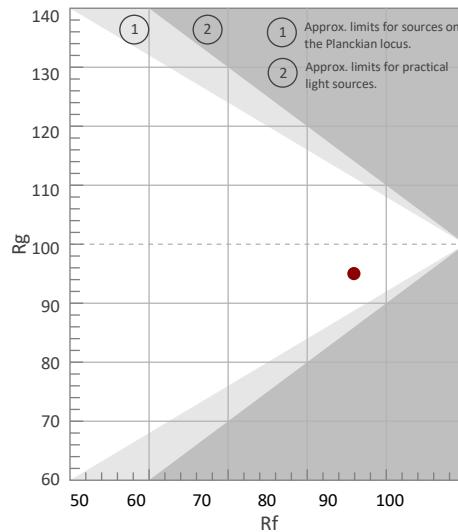
Color Vector Graphic



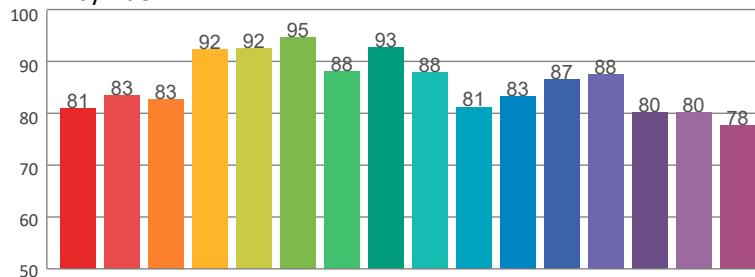
Color Distortion Graphic



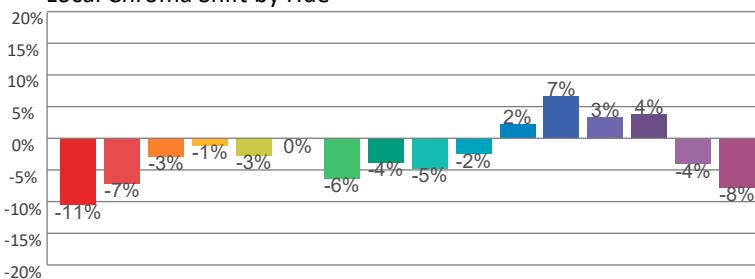
Hue Bin	<i>R<sub>f</sub></i>	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	95	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	87	7%	1%
13	88	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



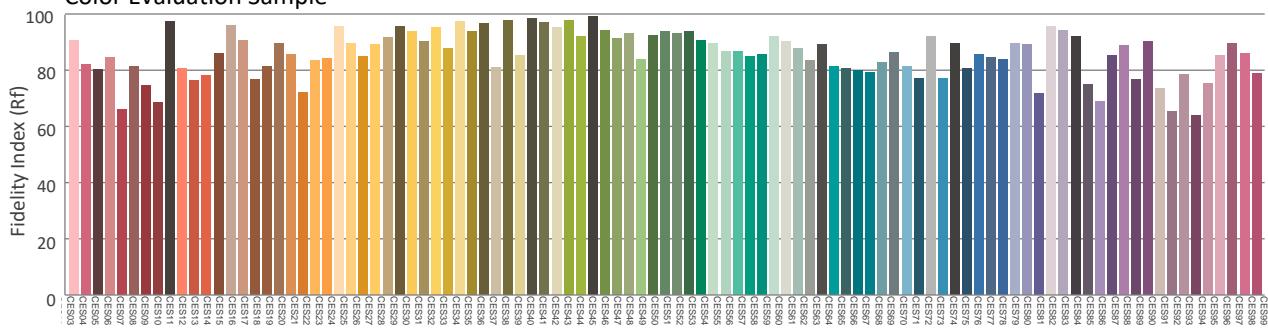
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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## Contact Us

General Information	Technical Support
<b>Chauvet World Headquarters</b>	
5200 NW 108 <sup>th</sup> Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: <a href="mailto:chauvetcs@chauvetlighting.com">chauvetcs@chauvetlighting.com</a> Website: <a href="http://www.chauvetprofessional.com">www.chauvetprofessional.com</a>
<b>Chauvet Europe Ltd</b>	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: <a href="mailto:UKtech@chauvetlighting.eu">UKtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Europe BVBA</b>	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: <a href="mailto:BNLtech@chauvetlighting.eu">BNLtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet France</b>	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: <a href="mailto:FRtech@chauvetlighting.fr">FRtech@chauvetlighting.fr</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Germany</b>	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: <a href="mailto:DEtech@chauvetlighting.de">DEtech@chauvetlighting.de</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Mexico</b>	
Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: <a href="mailto:servicio@chauvetlighting.de">servicio@chauvetlighting.de</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>

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