

PHOTOMETRICS REPORT

LOGIC AR111 Downlight M



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.

LOGIC AR111 Downlight M

Photometrics & Chromaticity Reports

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Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 1272 lm

Fixture Peak: 15788 cd

Fixture Efficacy: 33 lm/W

Intensity @ 5m: 630 lux

Color Temperature: 6675 K

CRI: 47.9 CRI R9 Value: -166.6

CQS: 60.5

TLCI: 25

TM-30 Rf: 59.5

TM-30 Rg: 101.7

Beam Angle (50%): 11.1°

Field Angle (10%): 25.9°

Cutoff Angle (3%): 54.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 40.8 W

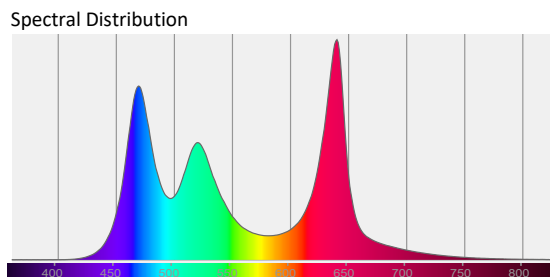
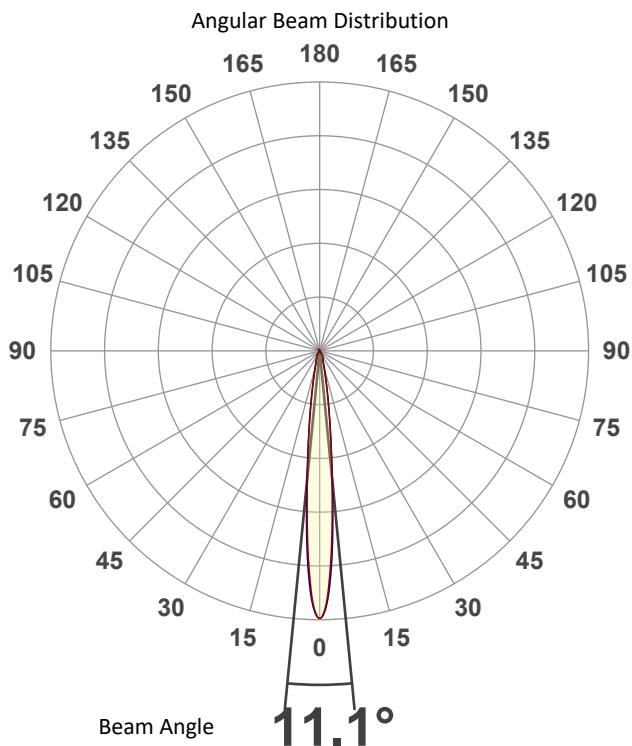
Current: 0.339 A

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 5/20/2022 to LM-63-2002 Standards.

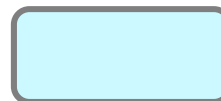
Overall Measurement



Tested Color (CIE 1931):

X: 0.310

Y: 0.327

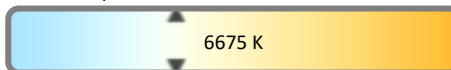


Light Quality

CRI: 47.9

Color Temperature

6675 K



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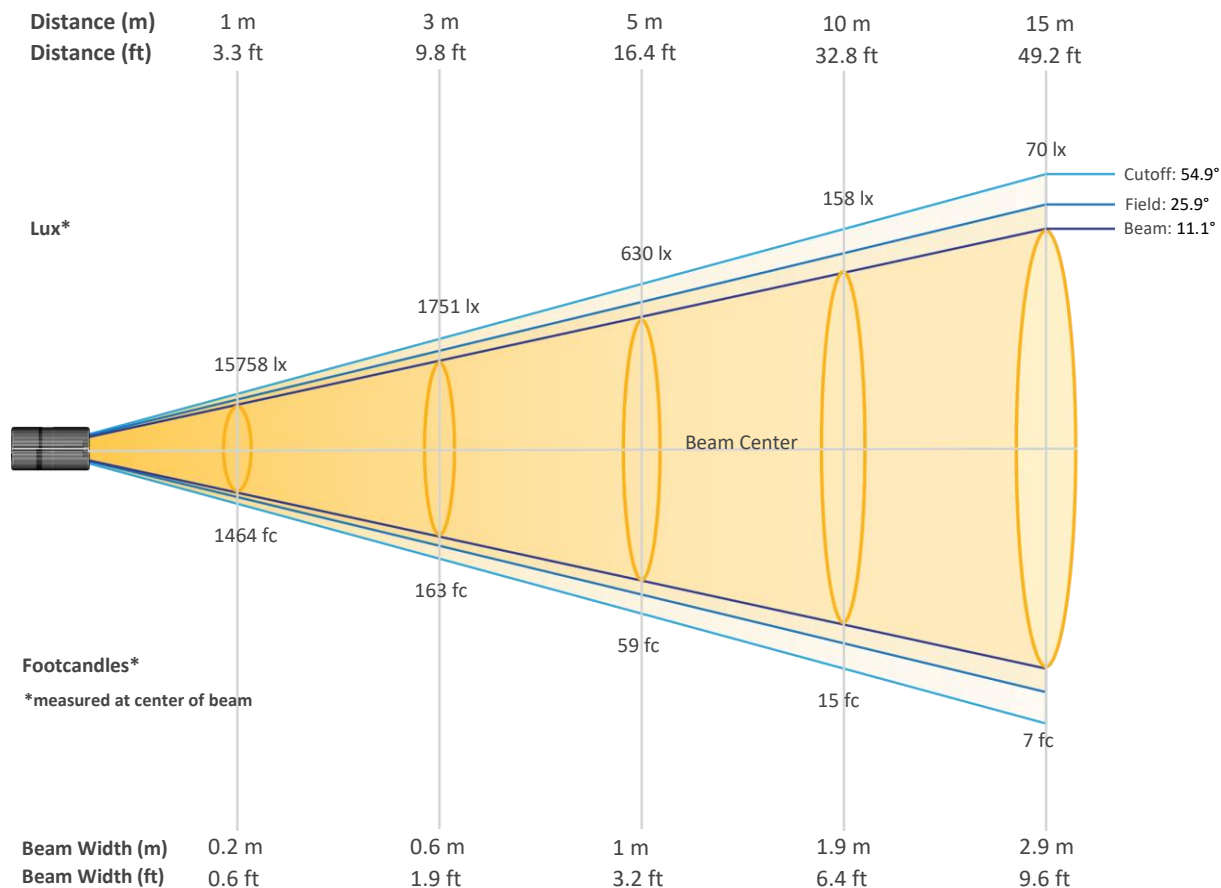
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Photometric & Chromaticity Report

Logic AR111 Downlight M: 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	15758	3940	1751	985	630	438	322	246	195	158
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	130	109	93	80	70	62	55	49	44	39
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1464	366	163	91	59	41	30	23	18	15
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	12	10	9	7	7	6	5	5	4	4

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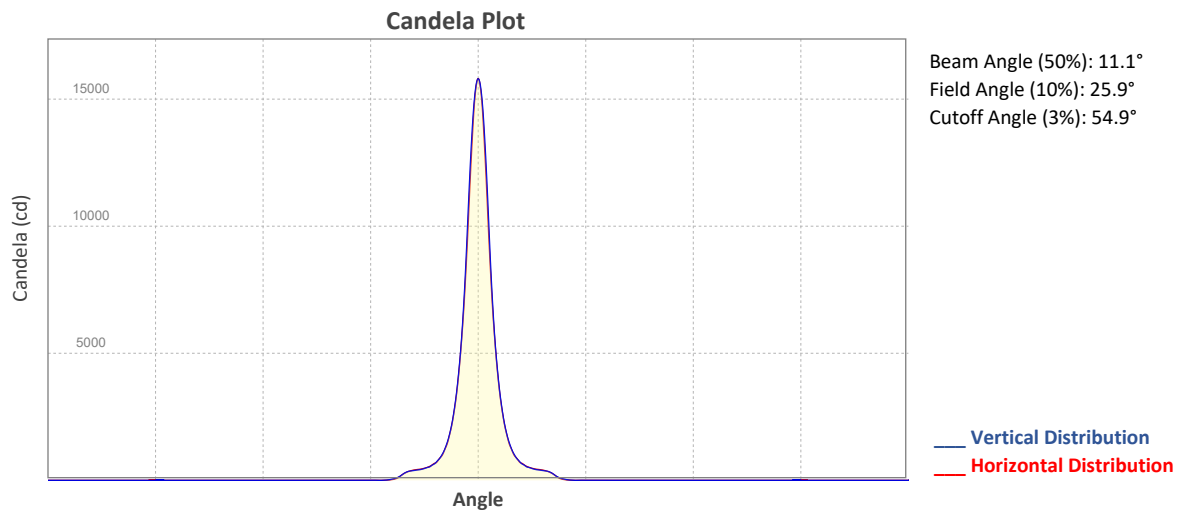
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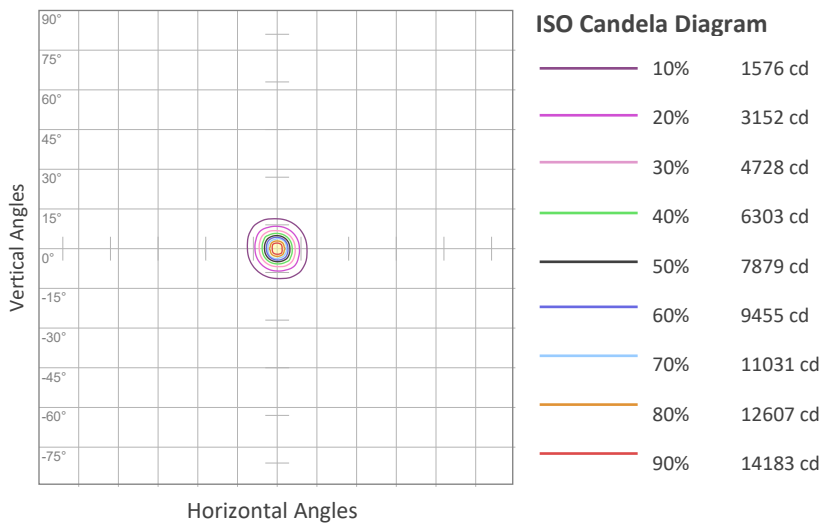
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Photometric & Chromaticity Report

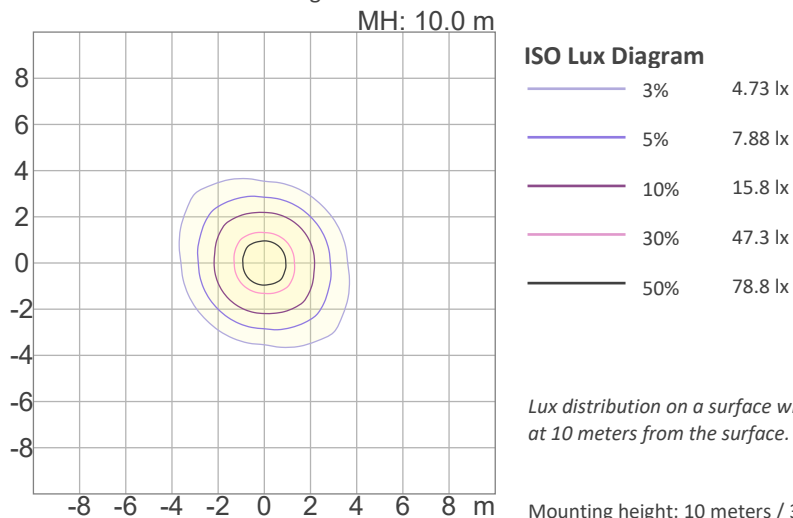
Logic AR111 Downlight M: No Optics - RGBW - Full Power



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 15758 cd



Conditions:
Number of c-planes: 8
Candela at center: 158 lx

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

Mounting height: 10 meters / 33 feet

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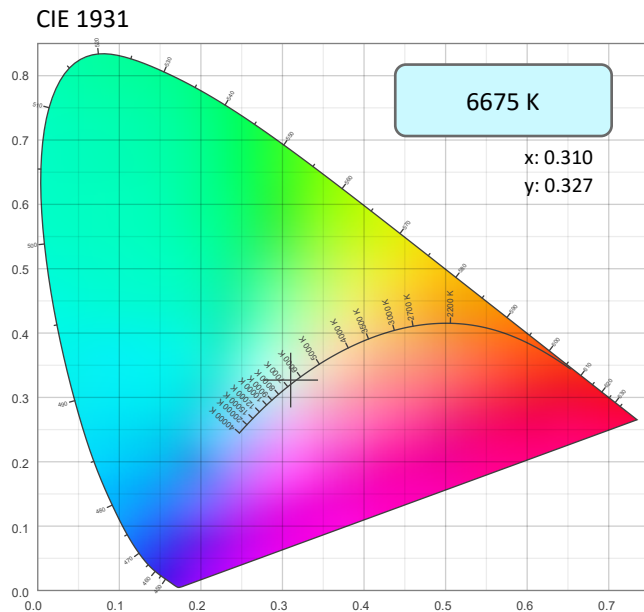
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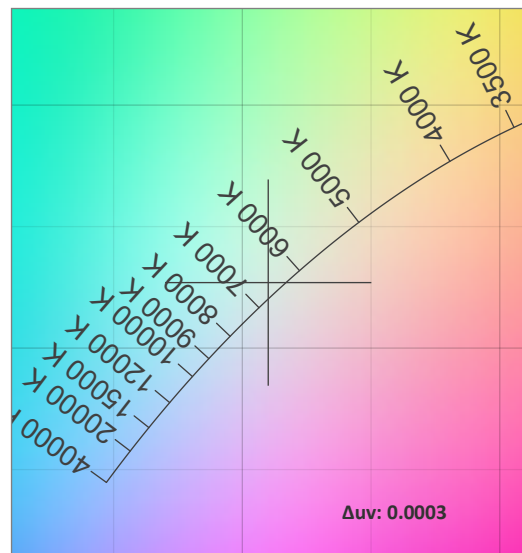
Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

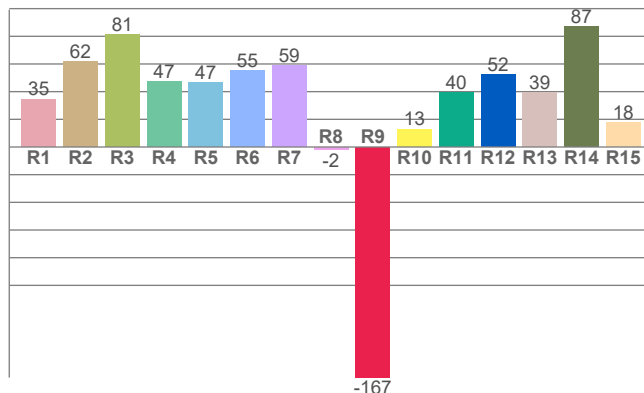
Chromaticity



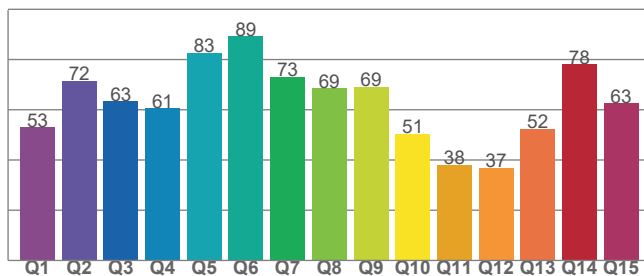
CIE 1931 - Zoom



CRI: 47.9 (R1-R8)



CQS: 60.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6675 K	0.310	0.327

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.327	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
47.9	-166.6	60.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
25	59.5	101.7

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Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

TM-30 Details

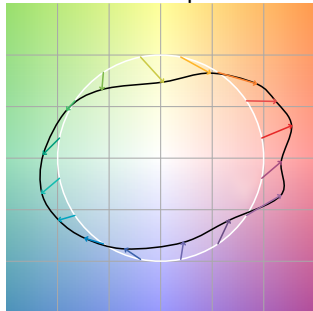
Rf 59.5

Fidelity Index
(Rg)

Rg 101.7

Gamut Index (Rg)

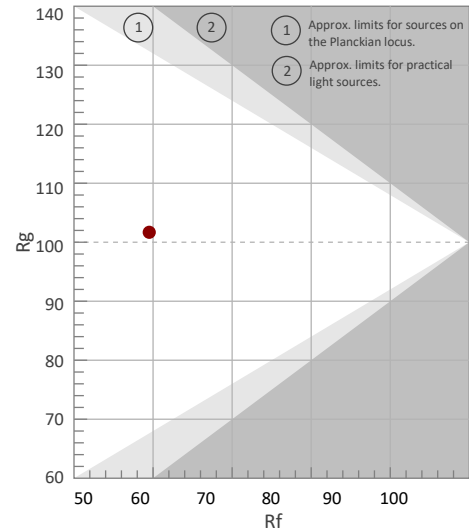
Color Vector Graphic



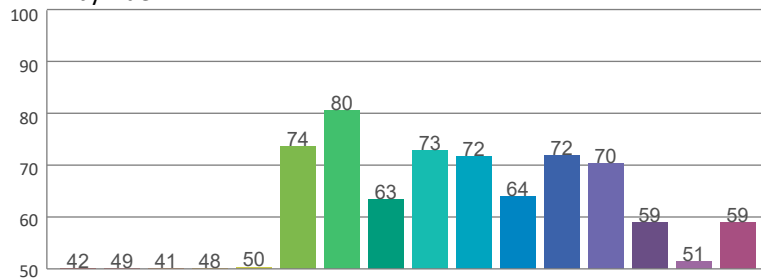
Color Distortion Graphic



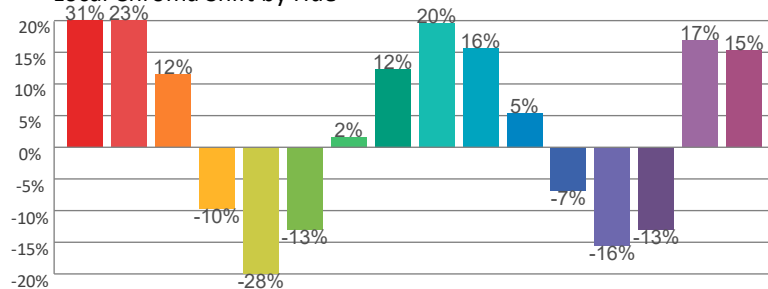
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	42	31%	6%
2	49	23%	-16%
3	41	12%	-37%
4	48	-10%	-31%
5	50	-28%	-17%
6	74	-13%	10%
7	80	2%	11%
8	63	12%	18%
9	73	20%	11%
10	72	16%	-5%
11	64	5%	-18%
12	72	-7%	-17%
13	70	-16%	6%
14	59	-13%	22%
15	51	17%	35%
16	59	15%	19%



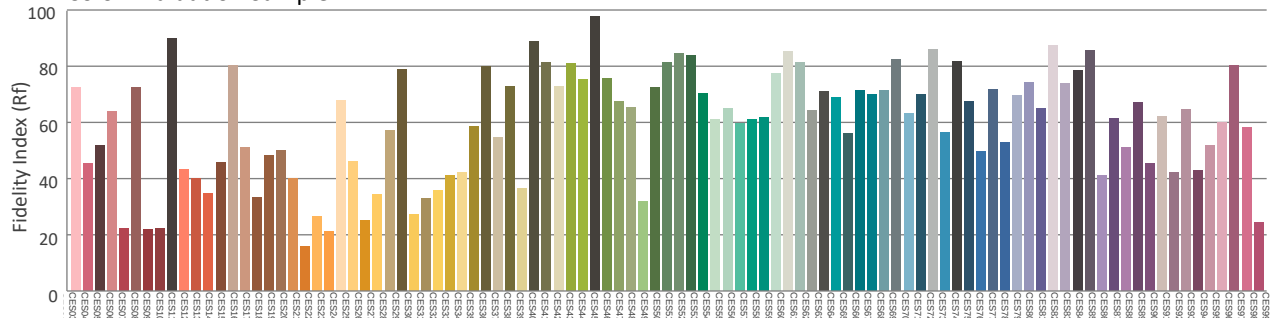
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 1097 lm

Fixture Peak: 1209 cd

Fixture Efficacy: 28 lm/W

Intensity @ 5m: 48 lux

Color Temperature: 6341 K

CRI: 46.6 CRI R9 Value: -165.5

CQS: 61.0

TLCI: 25

TM-30 Rf: 59.8

TM-30 Rg: 103.1

Beam Angle (50%): 50.5°

Field Angle (10%): 97.2°

Cutoff Angle (3%): 125.6°

Conditions

AC Supply: 118 V, 60 Hz

Power: 41.57 W

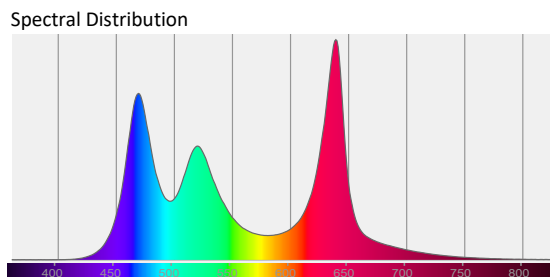
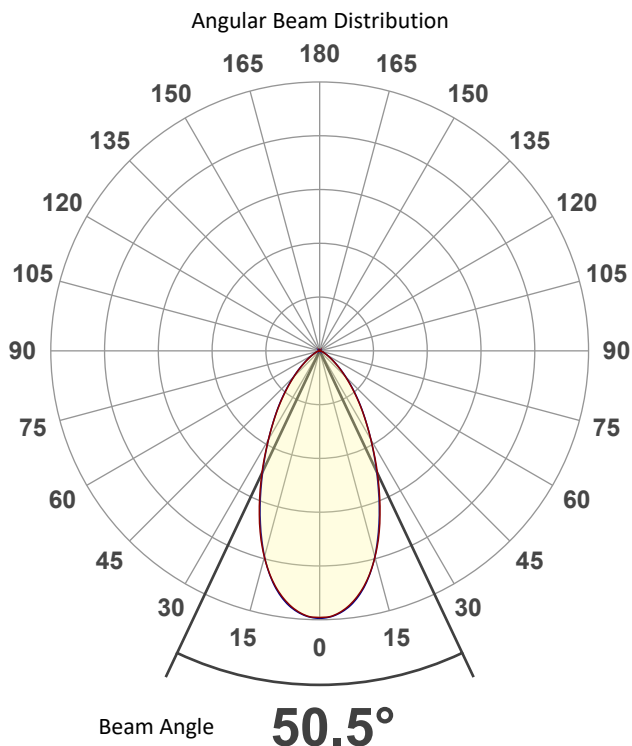
Current: 0.352 A

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 5/20/2022 to LM-63-2002 Standards.

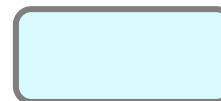
Overall Measurement



Tested Color (CIE 1931):

X: 0.316

Y: 0.328



Light Quality

CRI: 46.6

Color Temperature

6341 K

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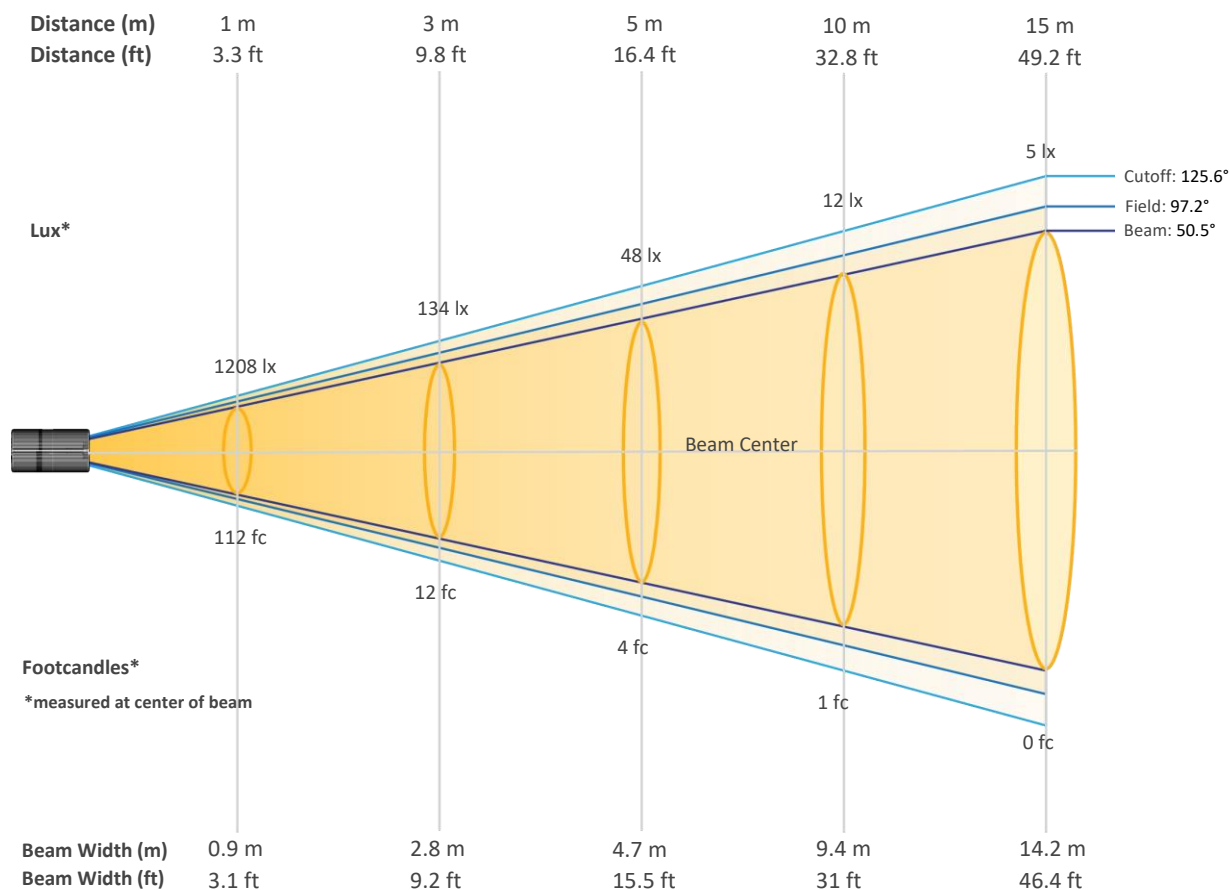
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	1208	302	134	75	48	34	25	19	15	12
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	10	8	7	6	5	5	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	112	28	12	7	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

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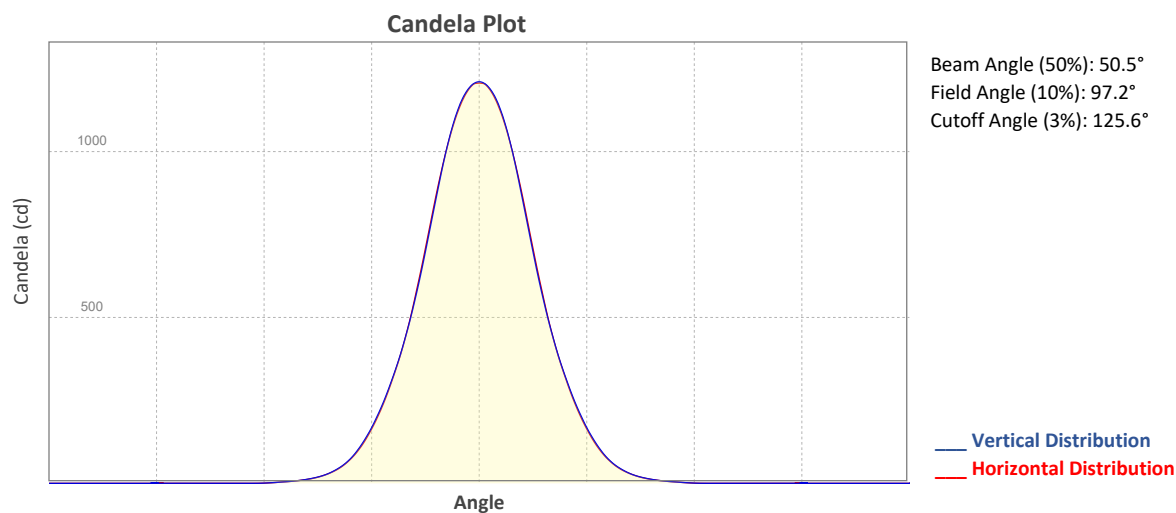
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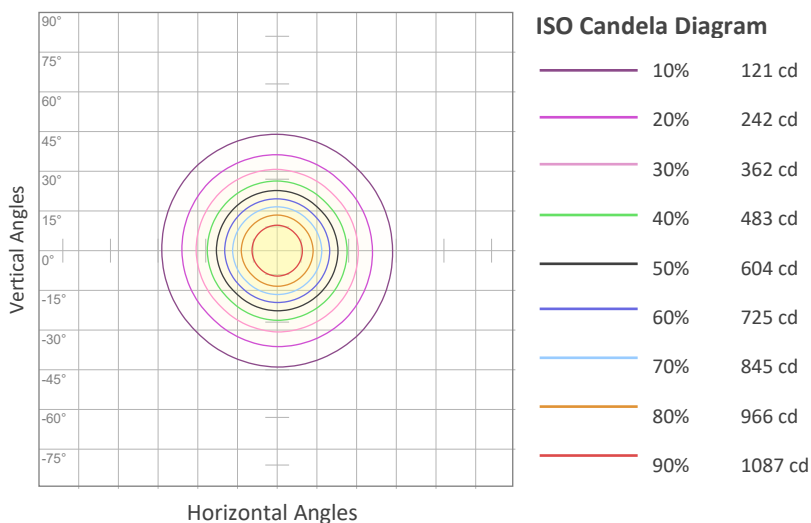
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Photometric & Chromaticity Report

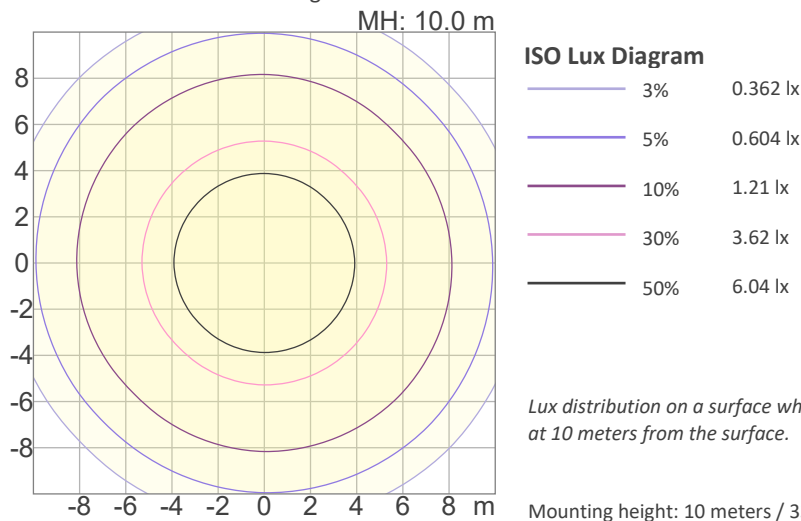
Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 1208 cd



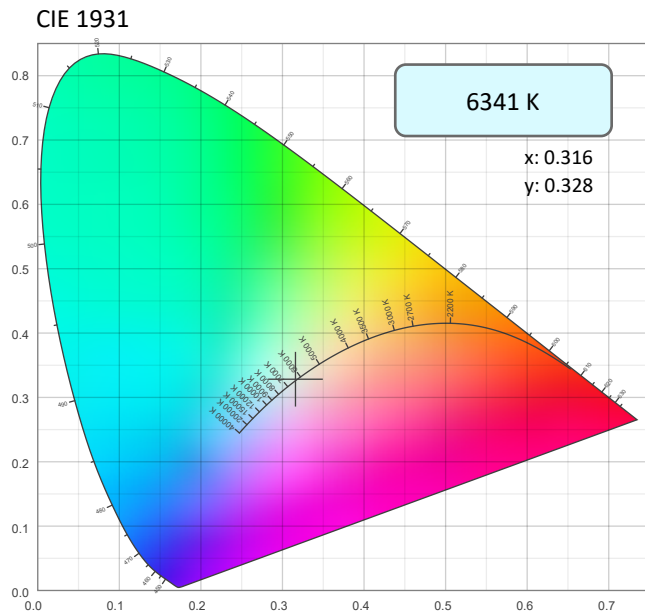
Conditions:
Number of c-planes: 8
Candela at center: 12.1 lx

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

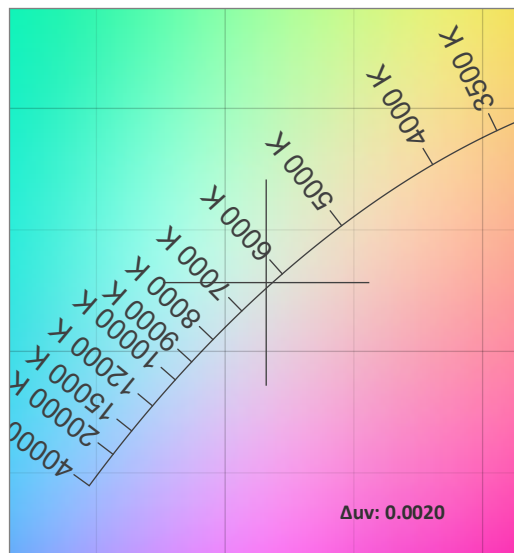
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

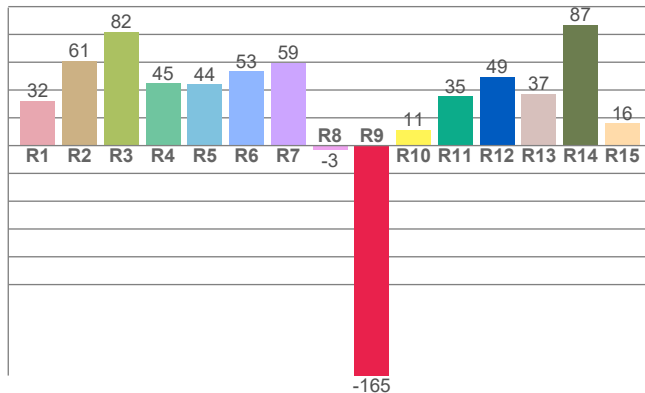
Chromaticity



CIE 1931 - Zoom



CRI: 46.6 (R1-R8)

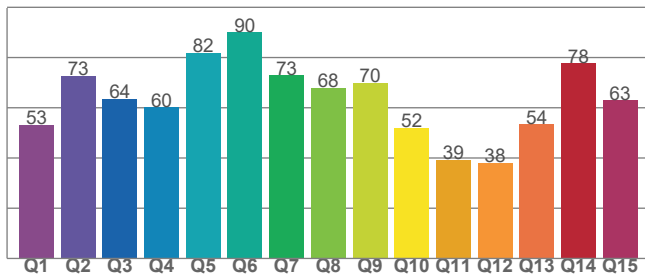


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6341 K	0.316	0.328

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0020	0.328	0.200

CQS: 61.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
46.6	-165.5	61.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
25	59.8	103.1

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

TM-30 Details

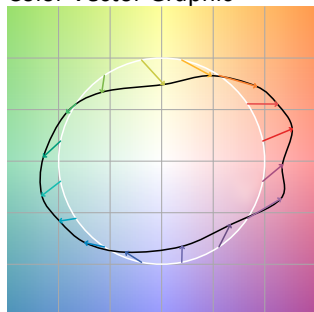
Rf 59.8

Fidelity Index
(Rg)

Rg 103.1

Gamut Index (Rg)

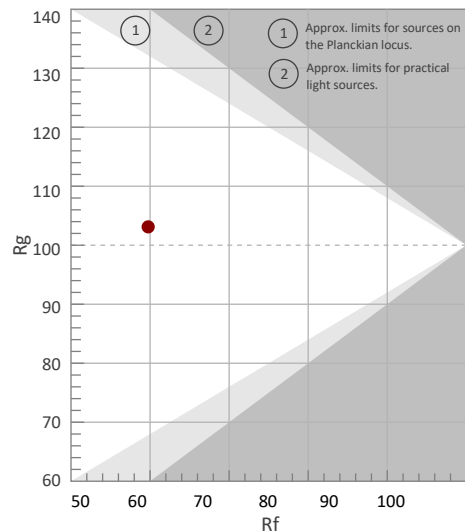
Color Vector Graphic



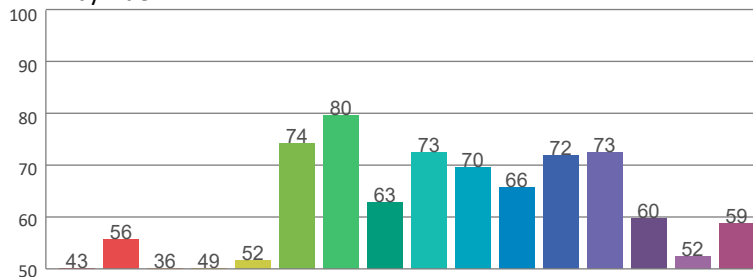
Color Distortion Graphic



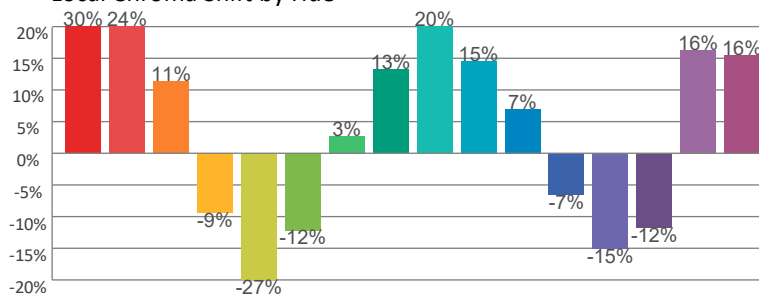
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	43	30%	6%
2	56	24%	-16%
3	36	11%	-36%
4	49	-9%	-31%
5	52	-27%	-17%
6	74	-12%	11%
7	80	3%	12%
8	63	13%	18%
9	73	20%	10%
10	70	15%	-7%
11	66	7%	-18%
12	72	-7%	-17%
13	73	-15%	3%
14	60	-12%	21%
15	52	16%	34%
16	59	16%	19%



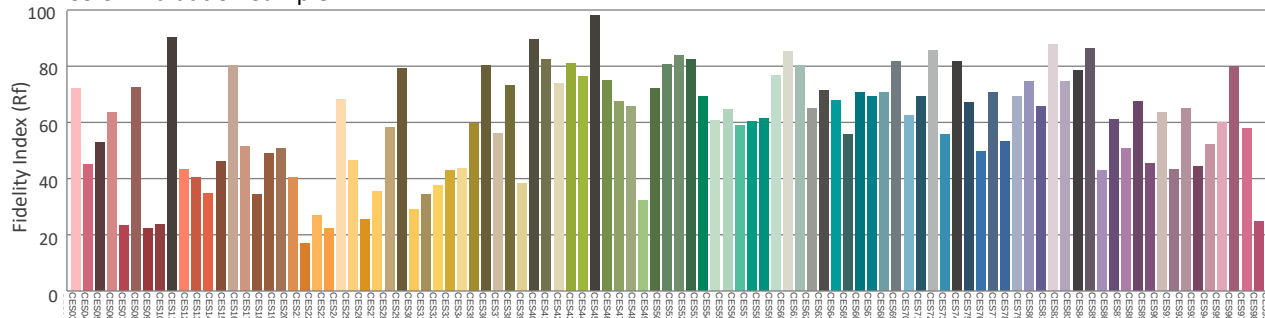
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red Only

Report Summary

Measurements

Fixture Output: 248 lm

Fixture Peak: 276 cd

Fixture Efficacy: 13 lm/W

Intensity @ 5m: 11 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 50.4°

Field Angle (10%): 96.5°

Cutoff Angle (3%): 124.2°

Conditions

AC Supply: 118 V, 60.1 Hz

Power: 21.85 W

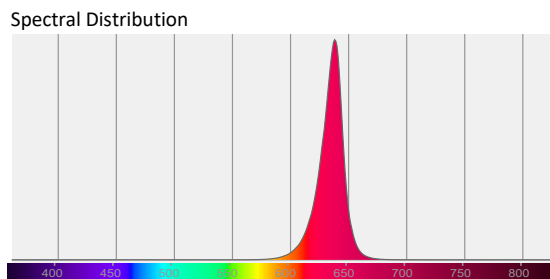
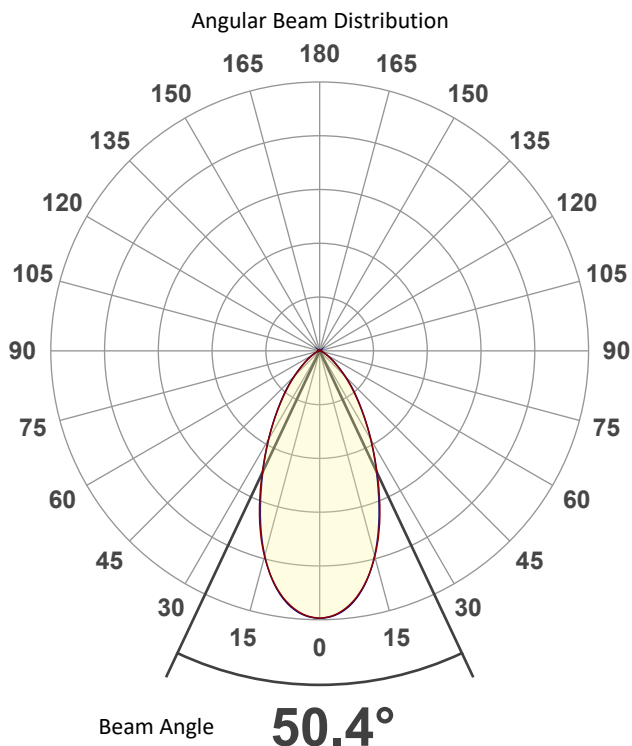
Current: 0.184 A

Power Factor: 0.88



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.701

Y: 0.298

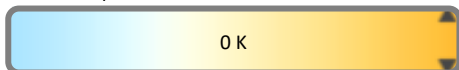


Light Quality

CRI: 0.0

Color Temperature

0 K



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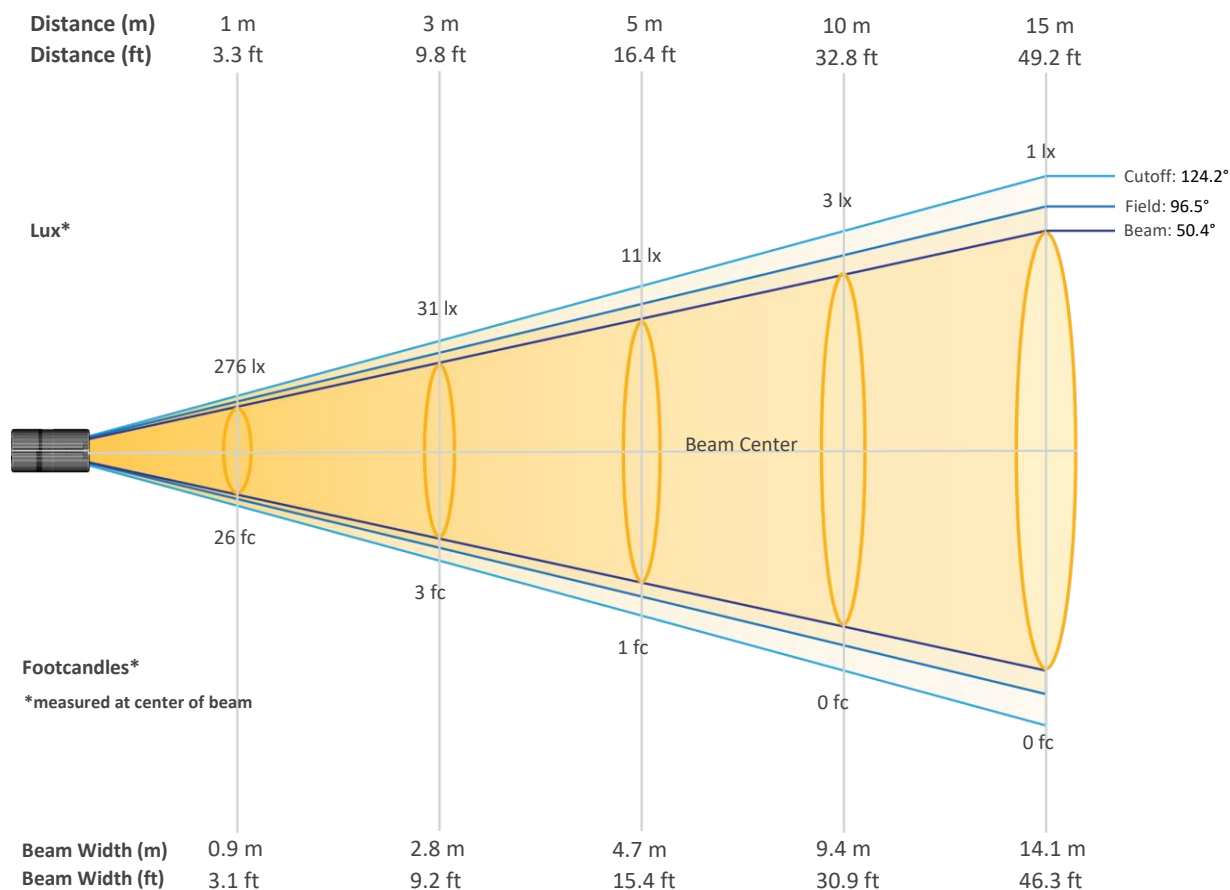
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	276	69	31	17	11	8	6	4	3	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	26	6	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

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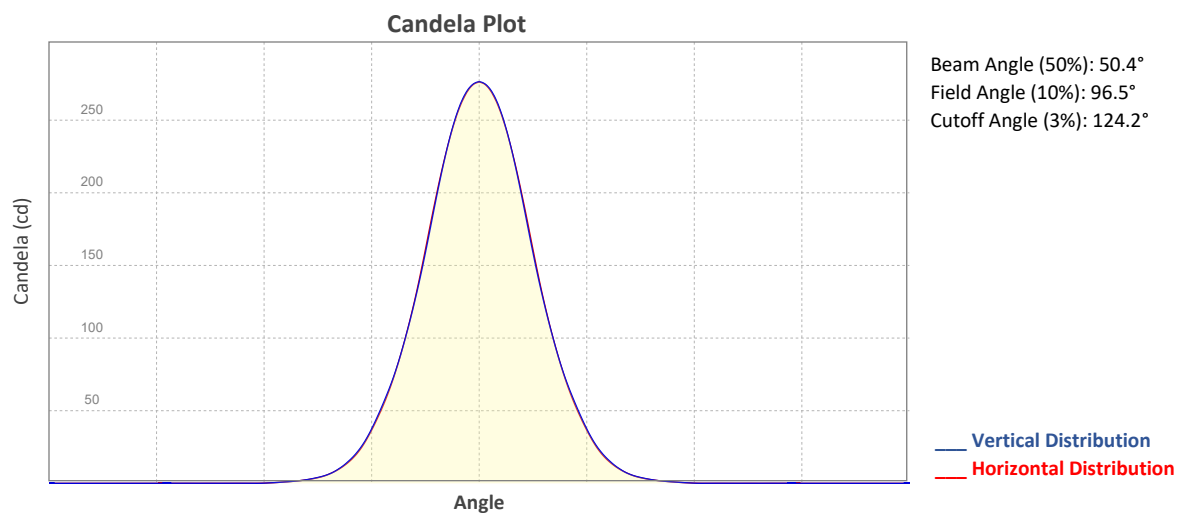
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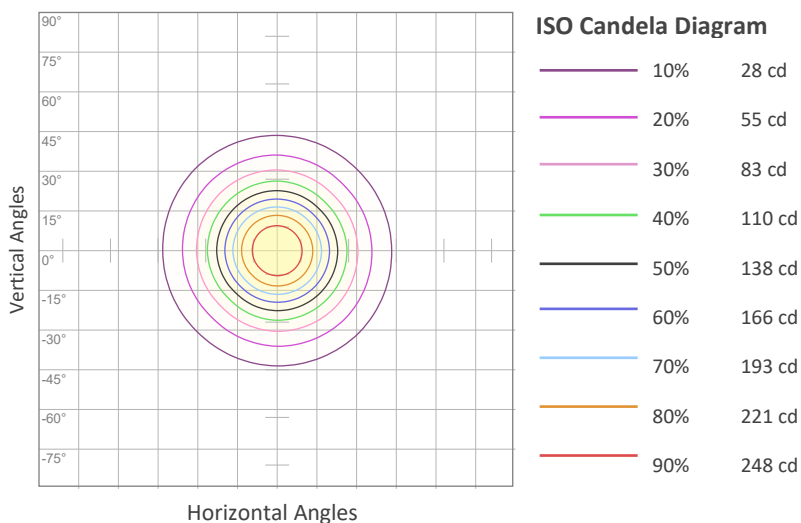
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Photometric & Chromaticity Report

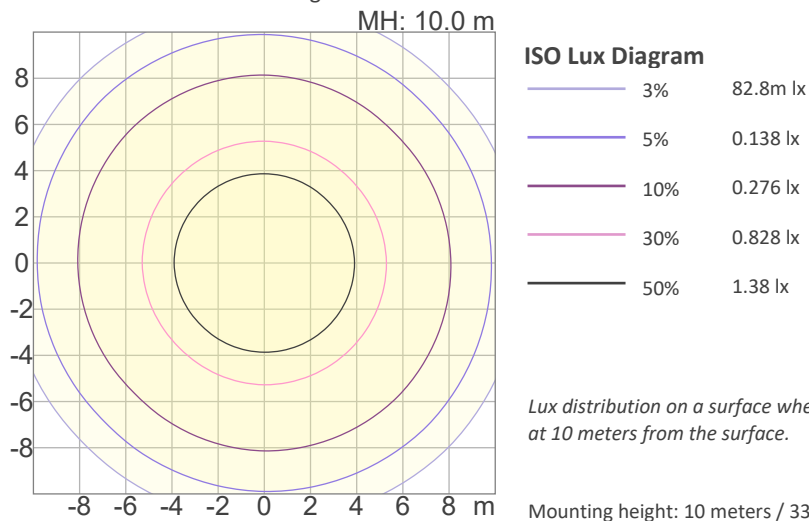
Logic AR111 Downlight M: Medium Filter Lens - Red Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 276 cd



Conditions:
Number of c-planes: 8
Candela at center: 2.76 lx

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

Mounting height: 10 meters / 33 feet

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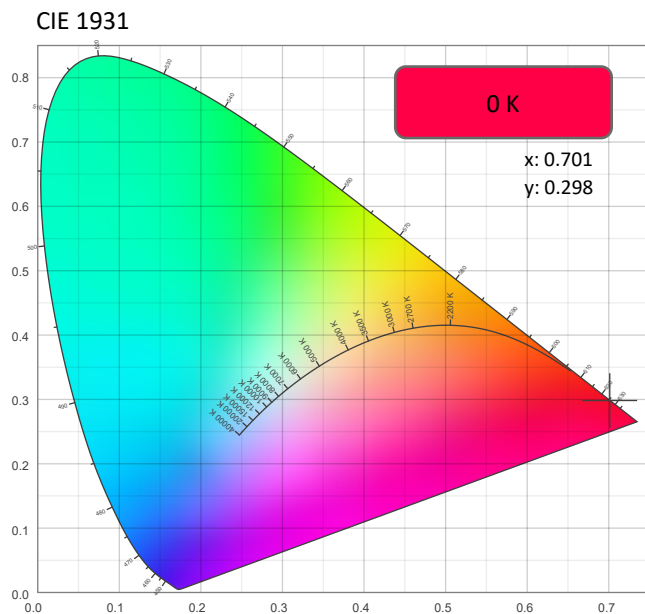
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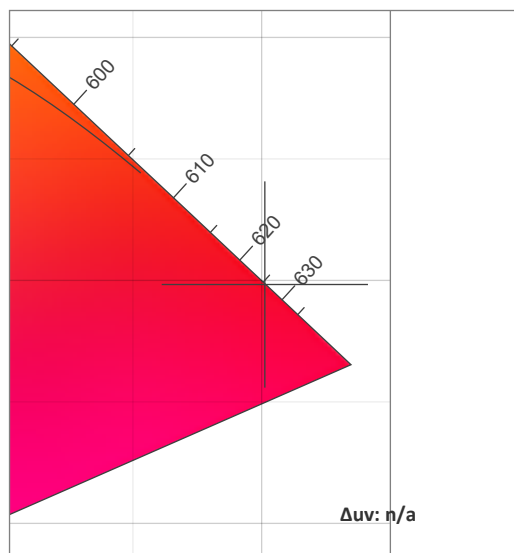
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red 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	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	0.701	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.542

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 AR111 Downlight M: Medium Filter Lens - Red Only

TM-30 Details

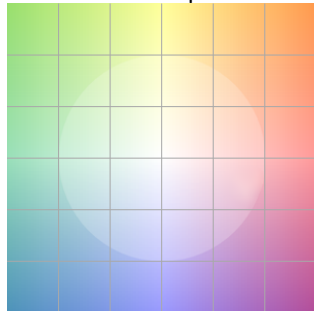
Rf 0.0

Fidelity Index
(Rg)

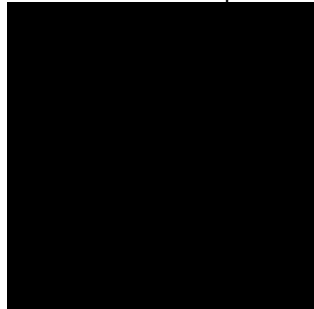
Rg 0.0

Gamut Index (Rg)

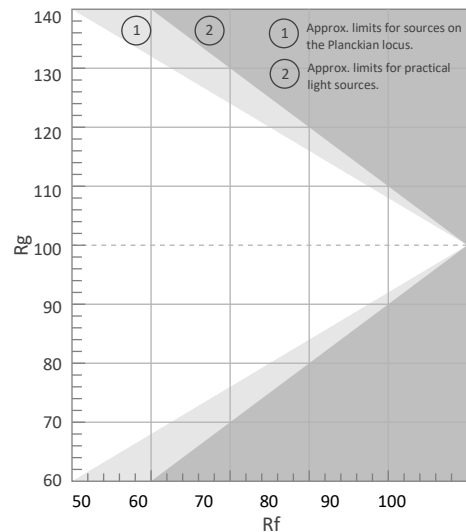
Color Vector Graphic



Color Distortion Graphic



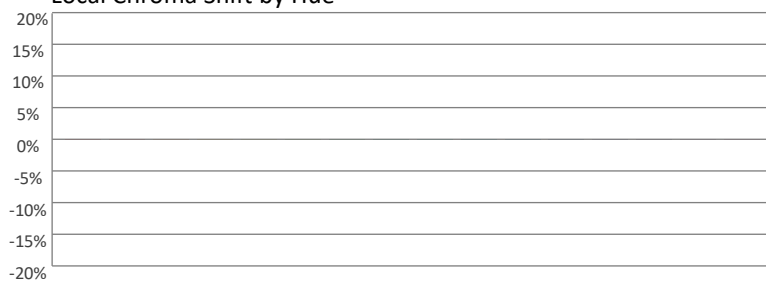
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Green Only

Report Summary

Measurements

Fixture Output: 513 lm

Fixture Peak: 563 cd

Fixture Efficacy: 24 lm/W

Intensity @ 5m: 23 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 50.8°

Field Angle (10%): 97.2°

Cutoff Angle (3%): 125.4°

Conditions

AC Supply: 118 V, 60 Hz

Power: 23.6 W

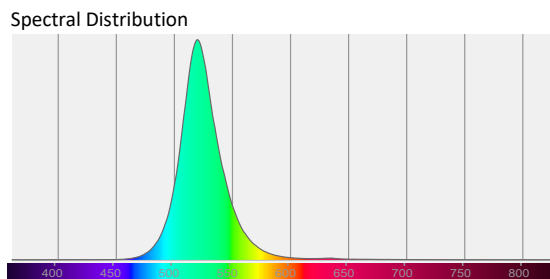
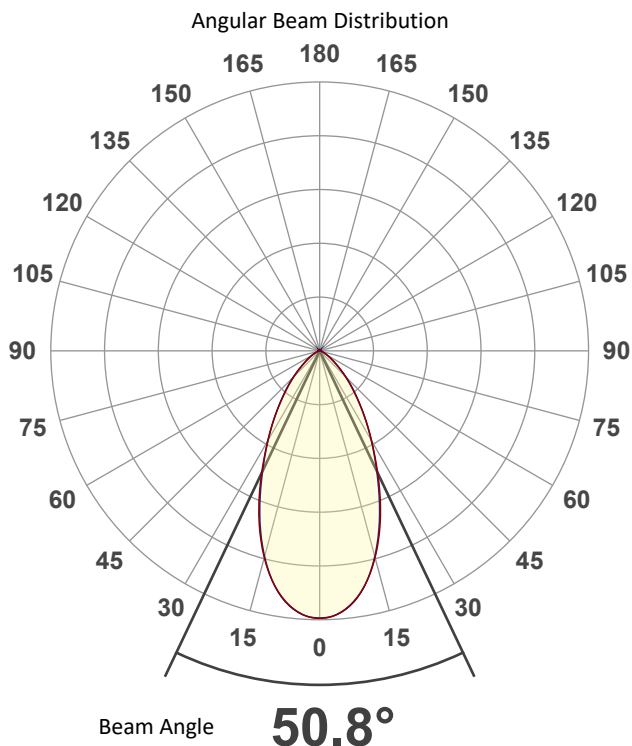
Current: 0.199 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.167

Y: 0.715



Light Quality

CRI: 0.0

Color Temperature

0 K

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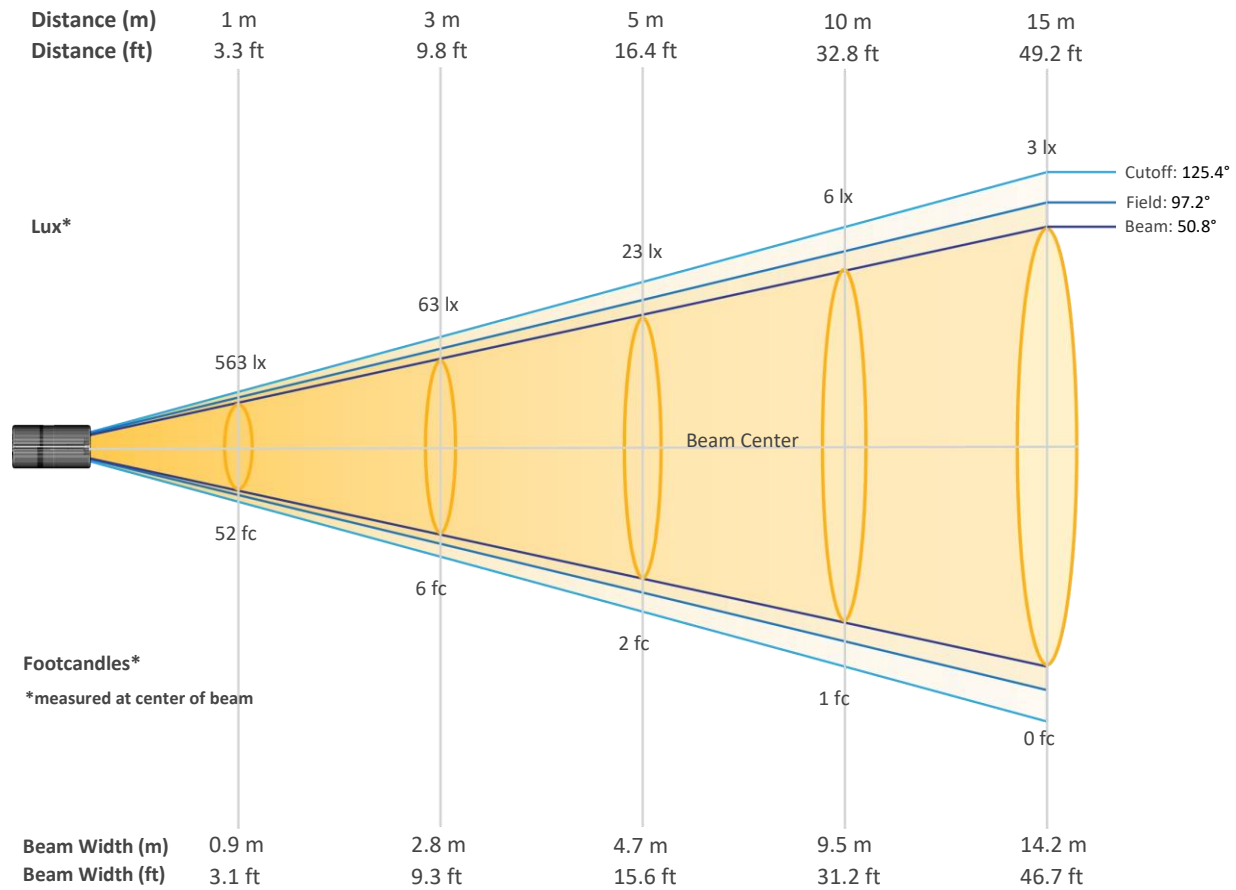
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	563	141	63	35	23	16	11	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	52	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

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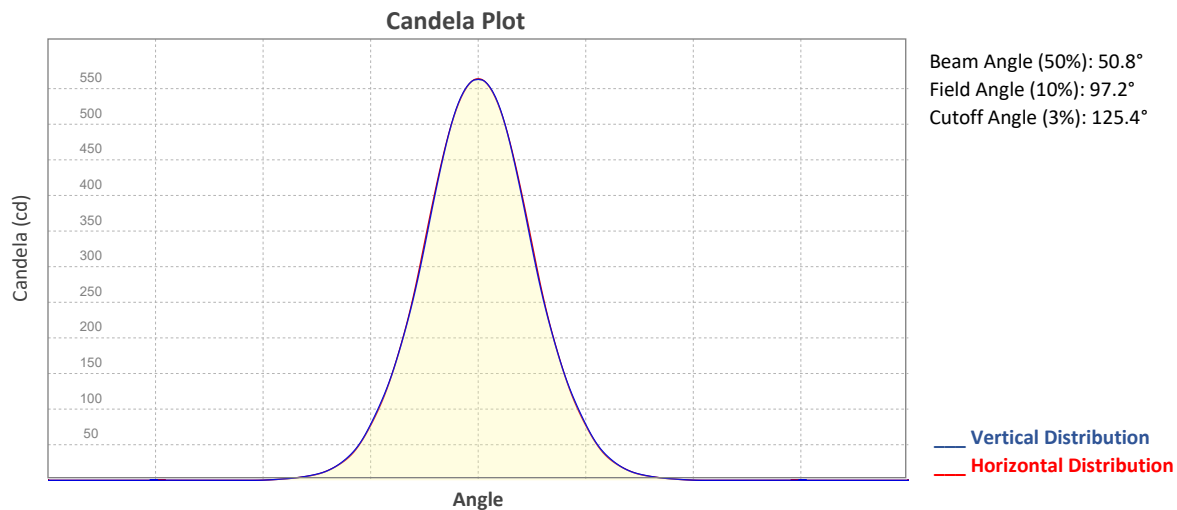
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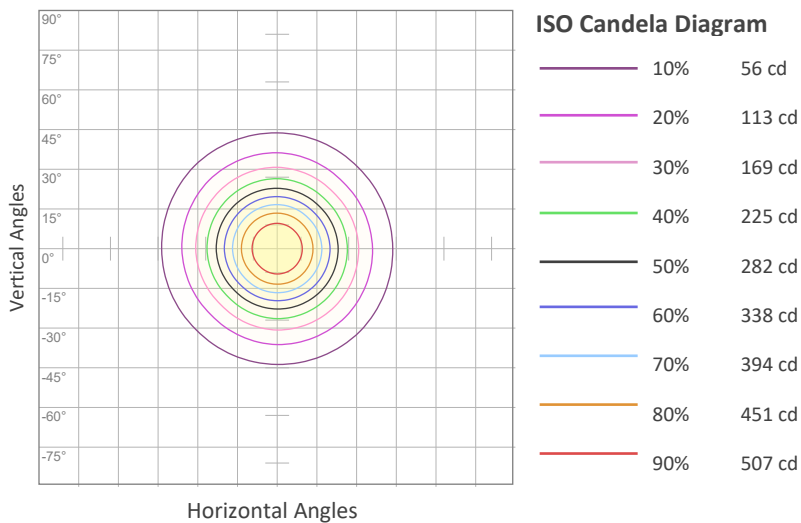
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Photometric & Chromaticity Report

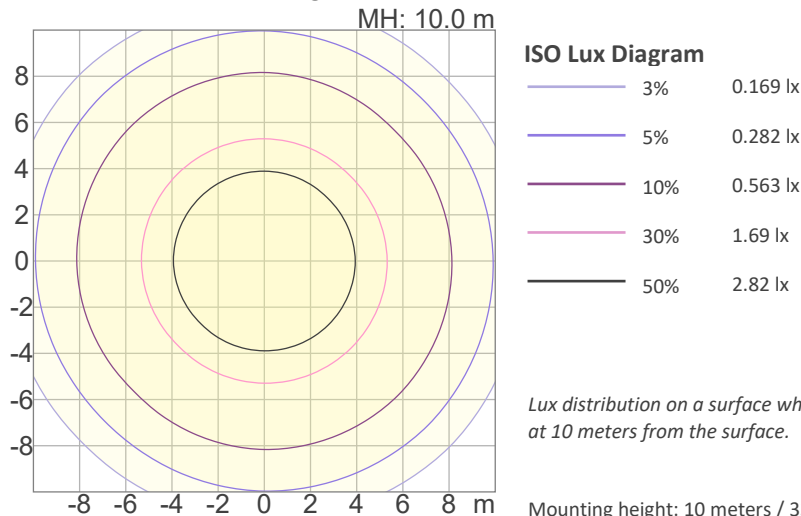
Logic AR111 Downlight M: Medium Filter Lens - Green Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 563 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.63 lx

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

Mounting height: 10 meters / 33 feet

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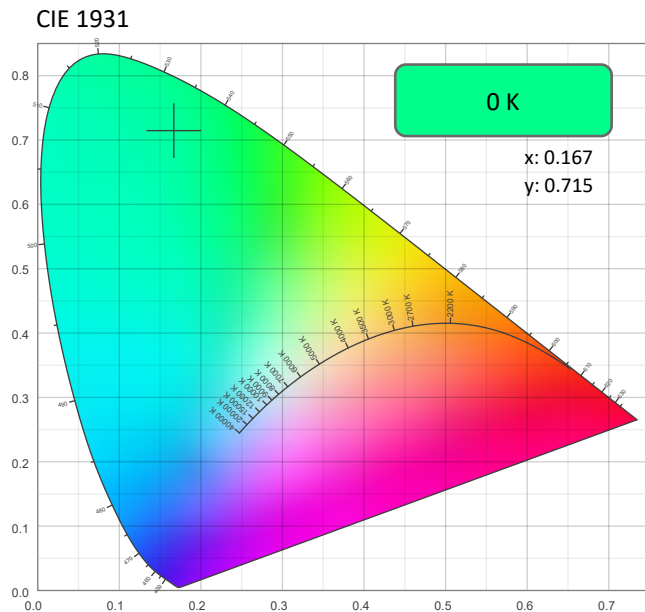
All product specifications, measurements and dimensions are subject to change without notice

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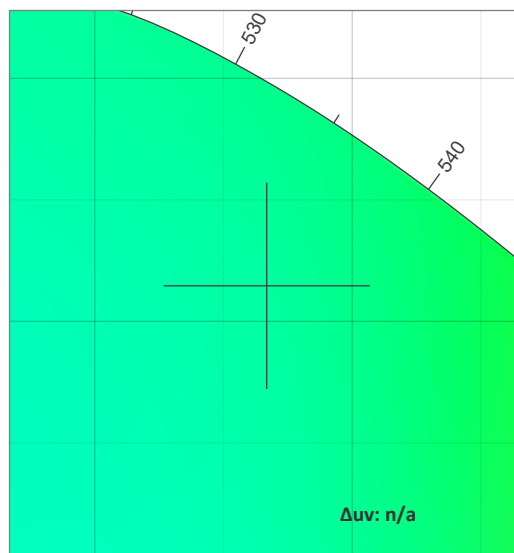
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	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	0.167	0.715

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.715	0.059

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 AR111 Downlight M: Medium Filter Lens - Green Only

TM-30 Details

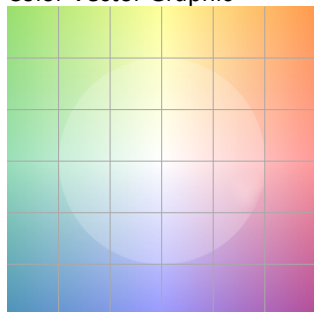
Rf 0.0

Fidelity Index
(Rg)

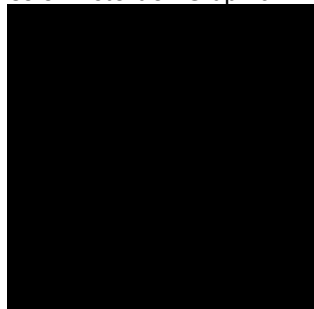
Rg 0.0

Gamut Index (Rg)

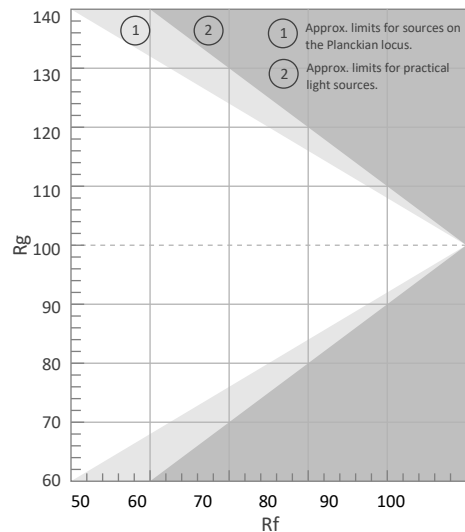
Color Vector Graphic



Color Distortion Graphic



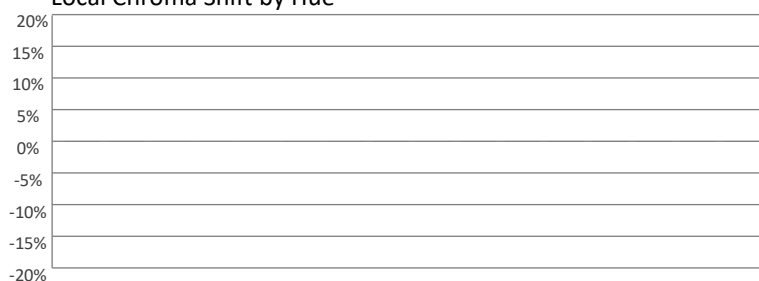
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Blue Only

Report Summary

Measurements

Fixture Output: 158 lm

Fixture Peak: 161 cd

Fixture Efficacy: 8 lm/W

Intensity @ 5m: 6 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 53.5°

Field Angle (10%): 100.6°

Cutoff Angle (3%): 128.9°

Conditions

AC Supply: 118 V, 60 Hz

Power: 23.48 W

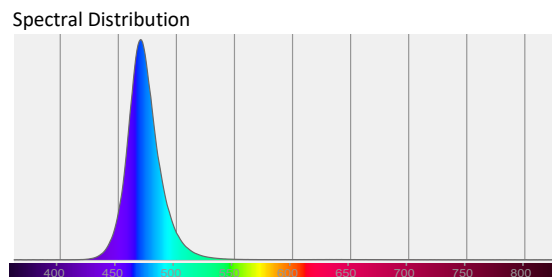
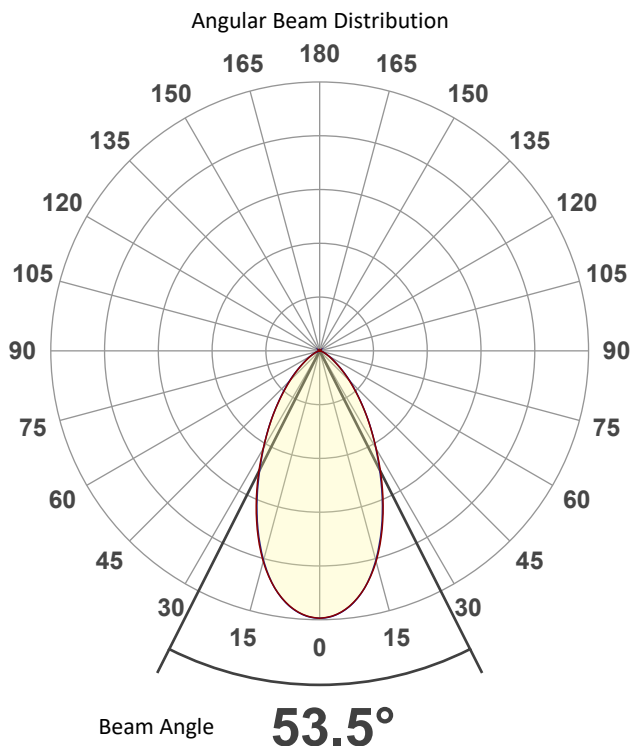
Current: 0.198 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

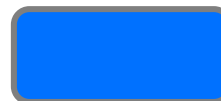
Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.087

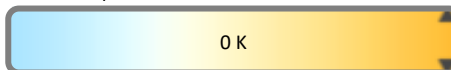


Light Quality

CRI: 0.0

Color Temperature

0 K



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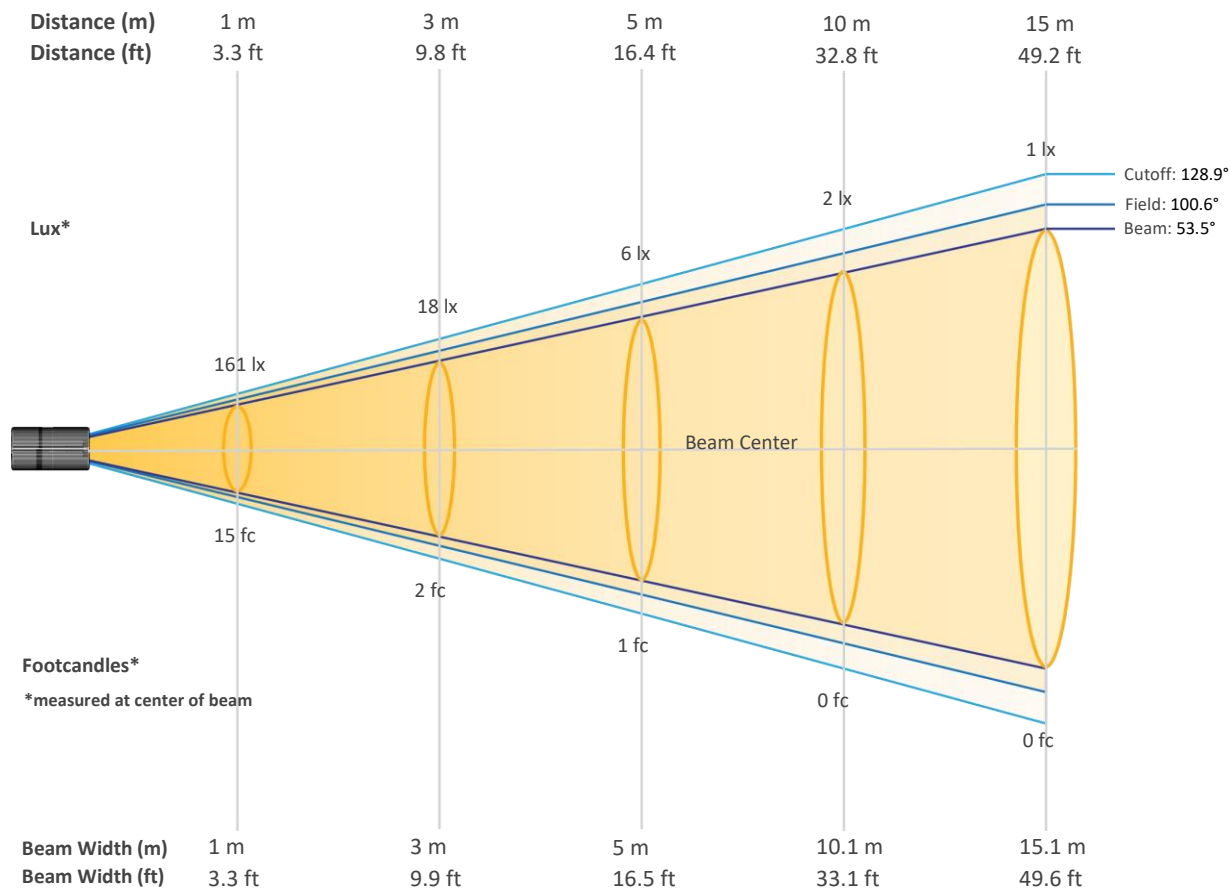
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	161	40	18	10	6	4	3	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	15	4	2	1	1	0	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

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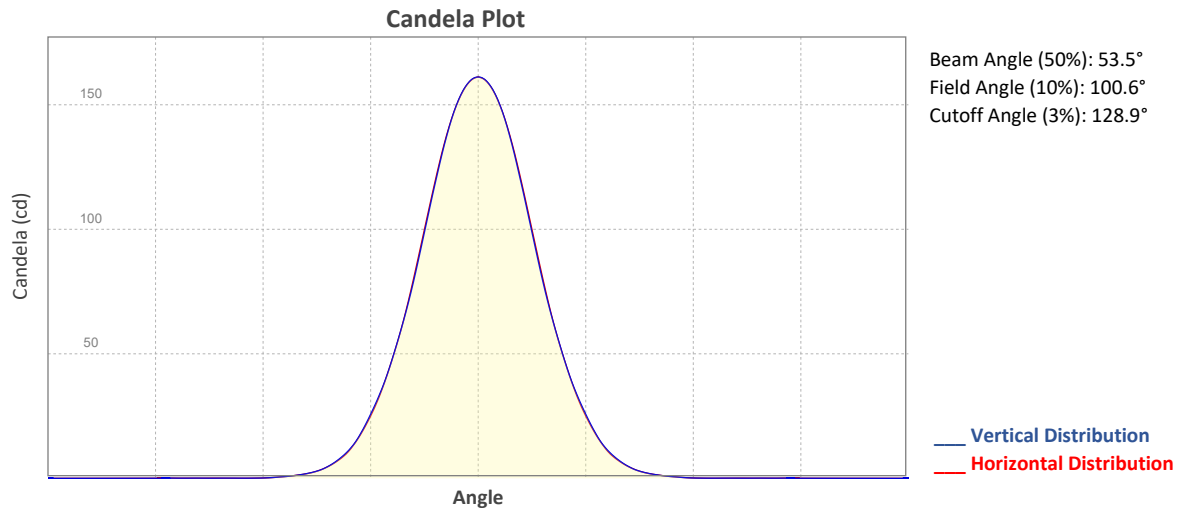
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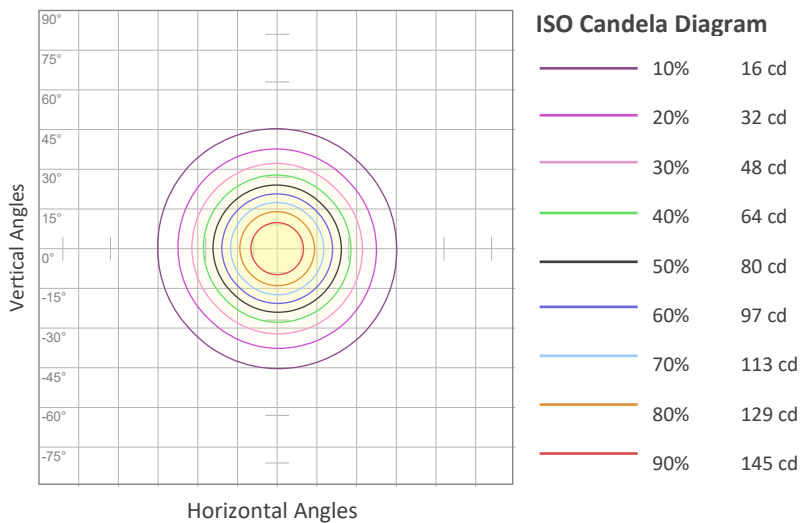
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Photometric & Chromaticity Report

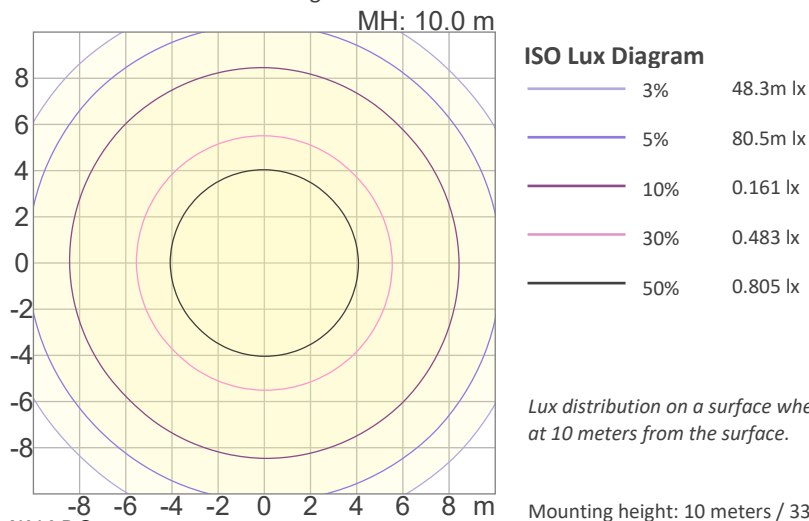
Logic AR111 Downlight M: Medium Filter Lens - Blue Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 161 cd



Conditions:
Number of c-planes: 8
Candela at center: 1.61 lx

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

Mounting height: 10 meters / 33 feet

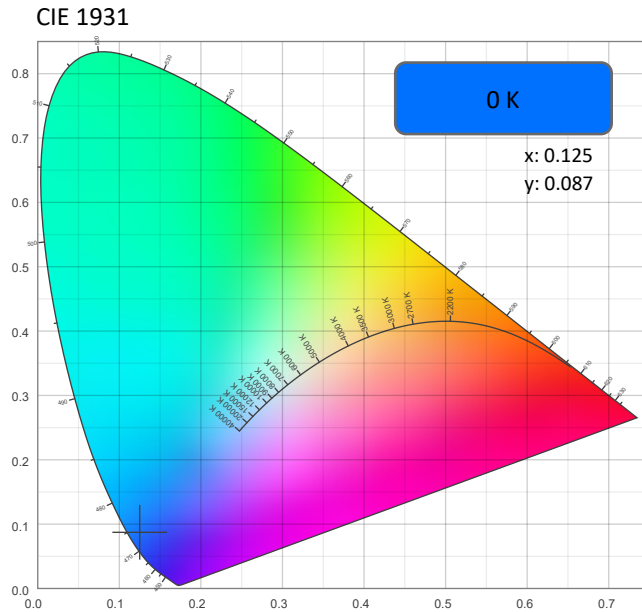
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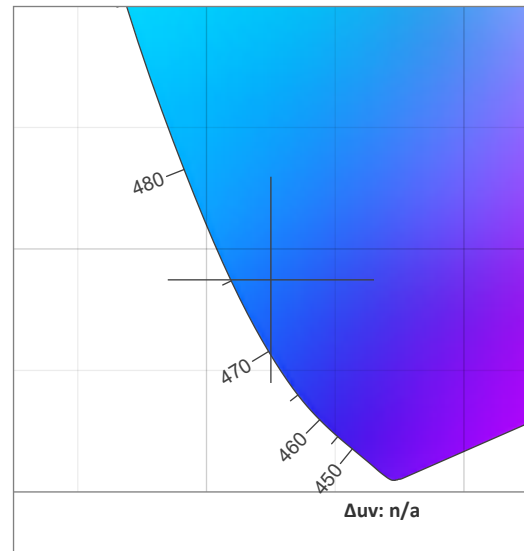
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	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	0.125	0.087

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.087	0.132

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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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Blue Only

TM-30 Details

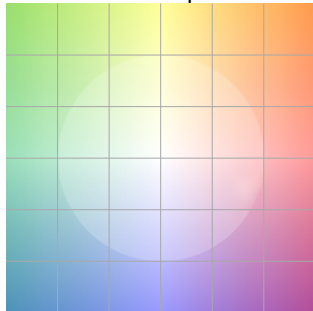
Rf 0.0

Fidelity Index
(Rg)

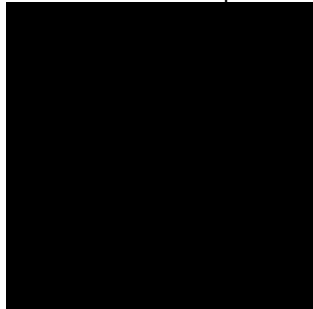
Rg 0.0

Gamut Index (Rg)

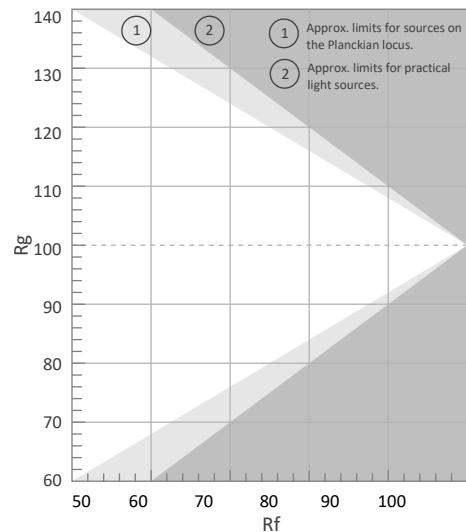
Color Vector Graphic



Color Distortion Graphic



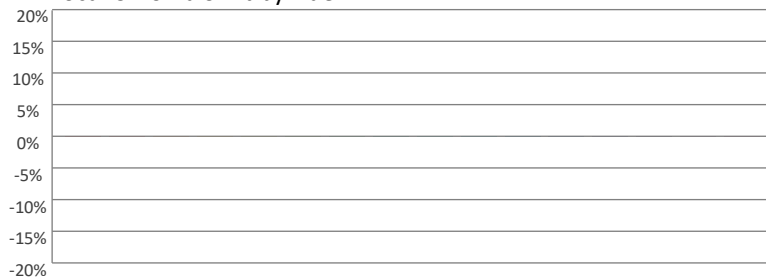
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

Report Summary

Measurements

Fixture Output: 364 lm

Fixture Peak: 424 cd

Fixture Efficacy: 18 lm/W

Intensity @ 5m: 17 lux

Color Temperature: 3004 K

CRI: 93.1 CRI R9 Value: 71.0

CQS: 91.1

TLCI: 92

TM-30 Rf: 91.9

TM-30 Rg: 101.8

Beam Angle (50%): 48.5°

Field Angle (10%): 95°

Cutoff Angle (3%): 123.4°

Conditions

AC Supply: 118 V, 60 Hz

Power: 22.45 W

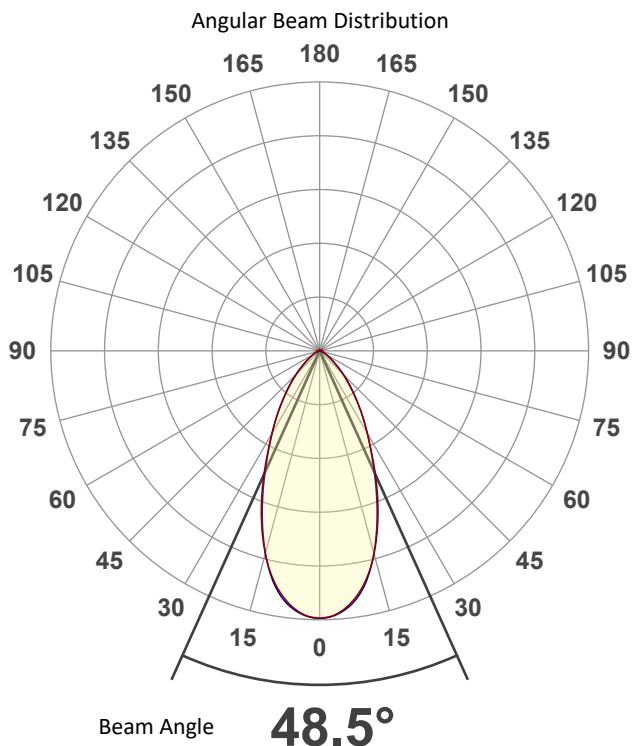
Current: 0.190 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

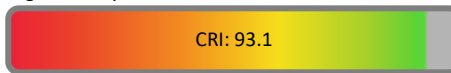
X: 0.438

Y: 0.406



Light Quality

CRI: 93.1



Color Temperature

3004 K



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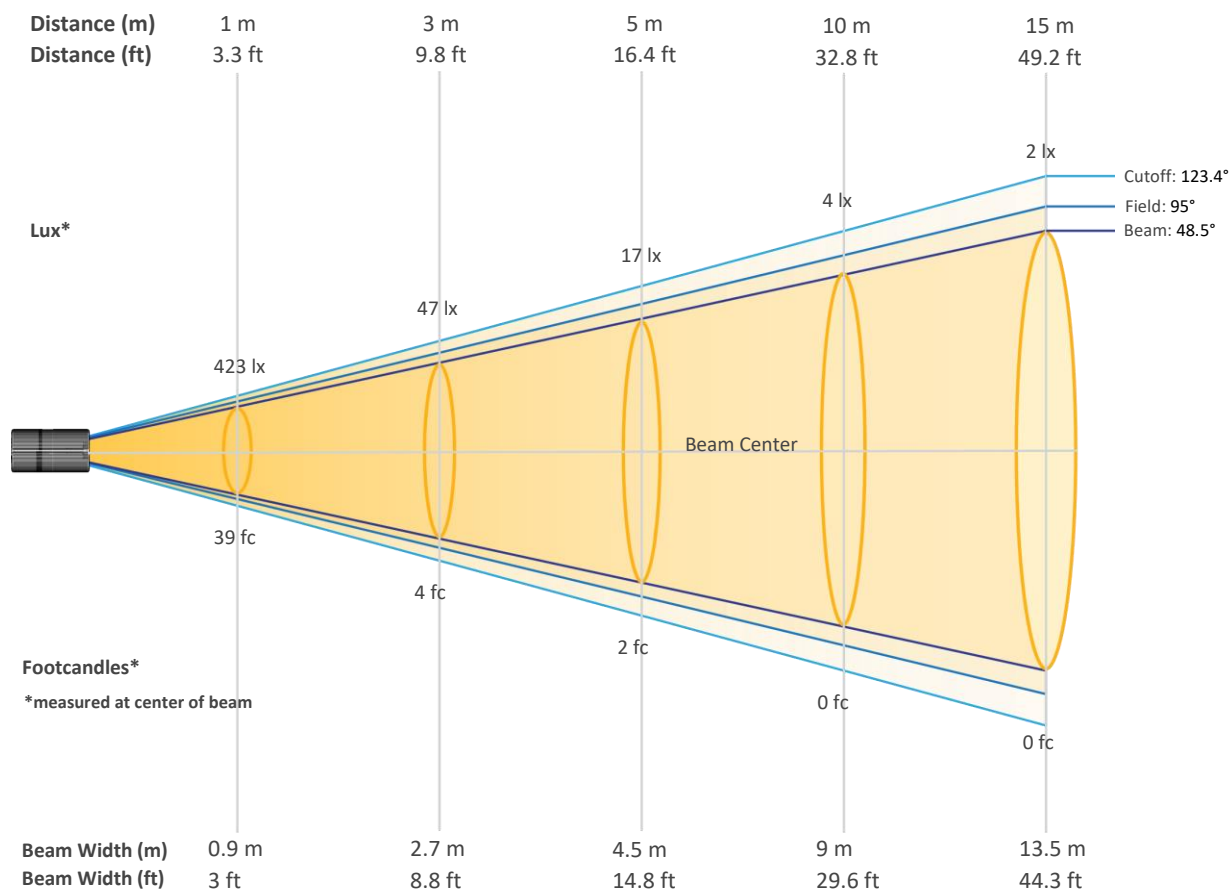
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 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	423	106	47	26	17	12	9	7	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	3	2	2	2	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	39	10	4	2	2	1	1	1	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

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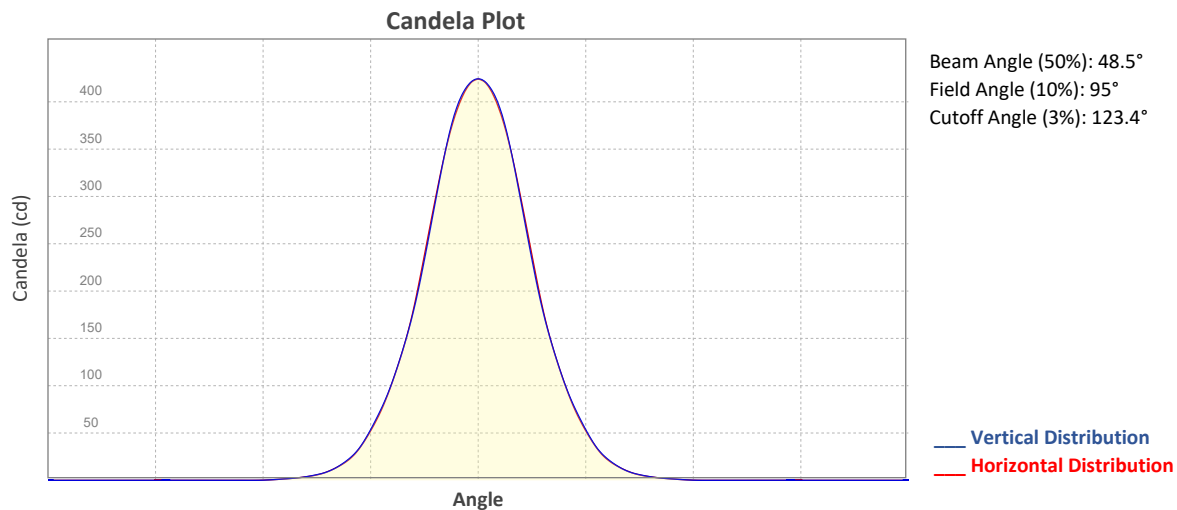
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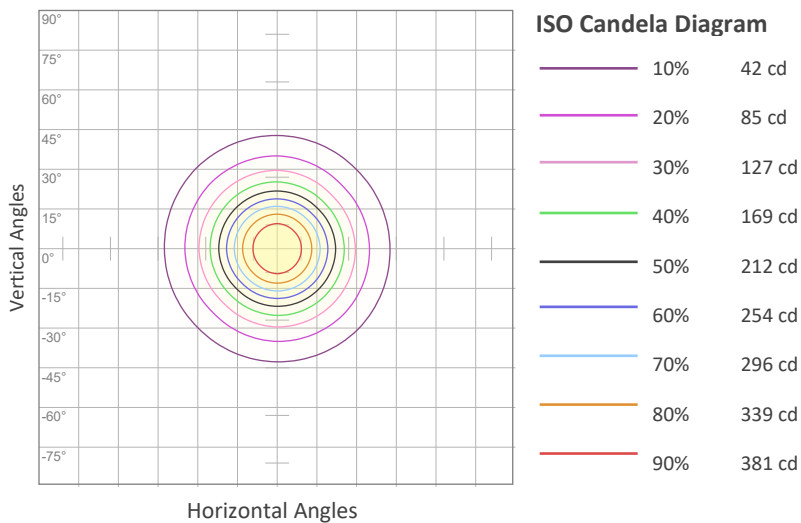
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Photometric & Chromaticity Report

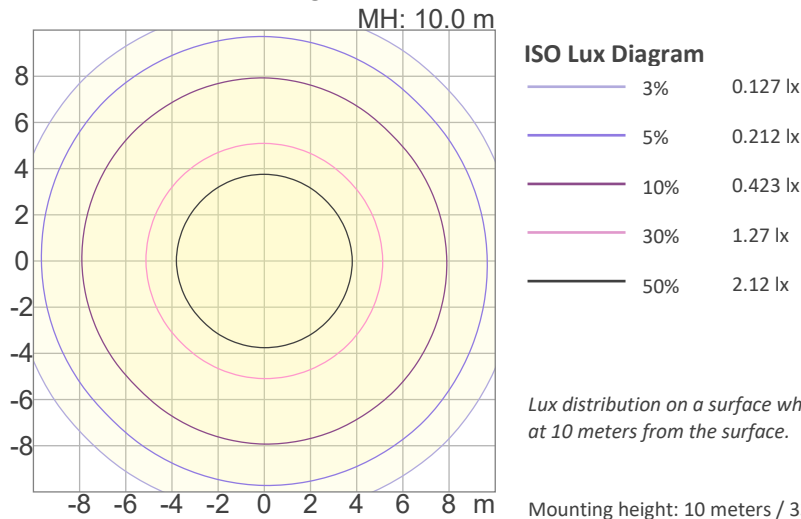
Logic AR111 Downlight M: Medium Filter Lens - Warm White Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 423 cd



Conditions:
Number of c-planes: 8
Candela at center: 4.23 lx

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

Mounting height: 10 meters / 33 feet

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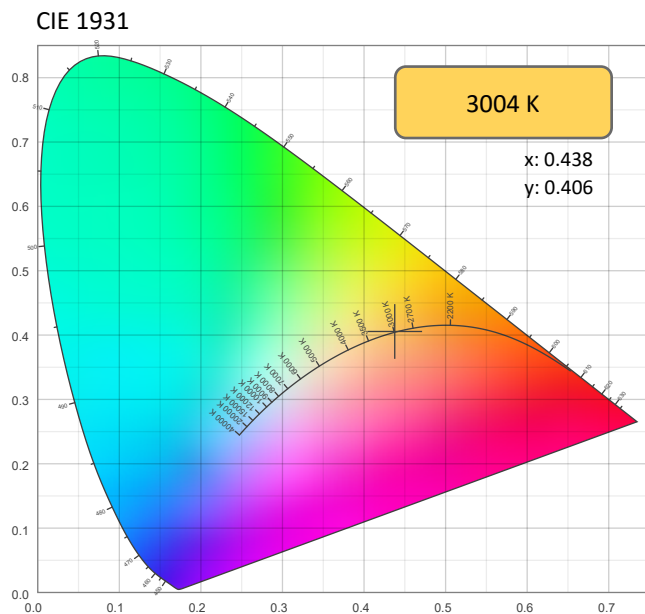
All product specifications, measurements and dimensions are subject to change without notice

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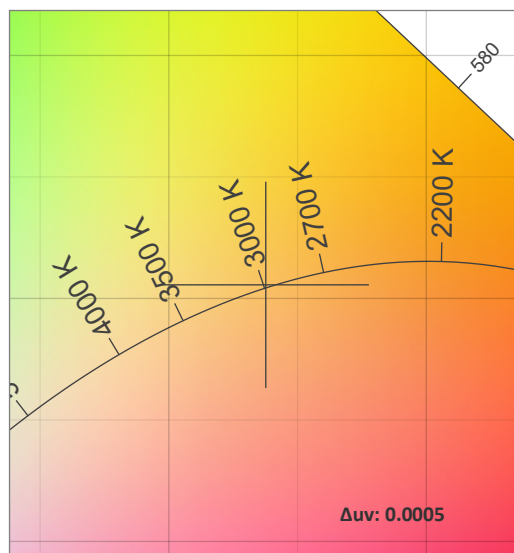
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

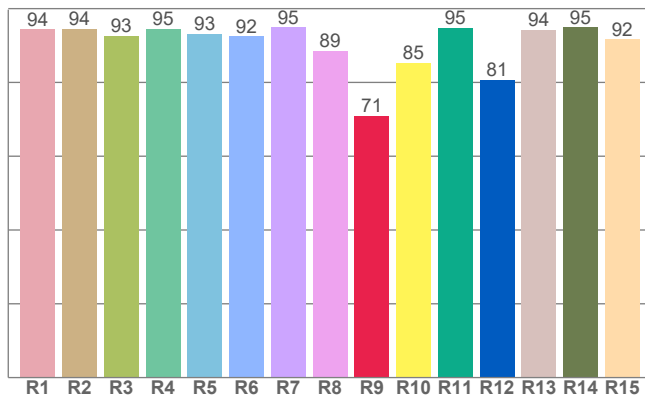
Chromaticity



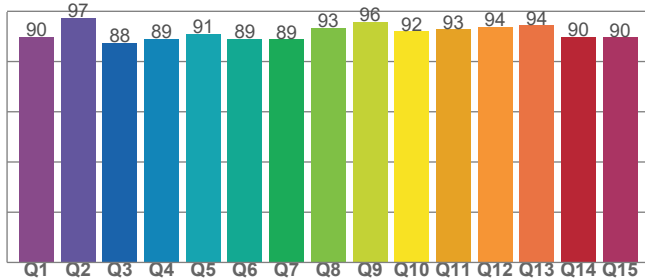
CIE 1931 - Zoom



CRI: 93.1 (R1-R8)



CQS: 91.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3004 K	0.438	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.406	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	71.0	91.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.9	101.8

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

TM-30 Details

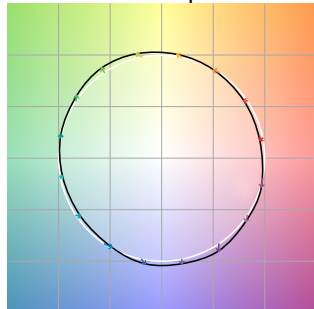
Rf 91.9

Fidelity Index
(Rg)

Rg 101.8

Gamut Index (Rg)

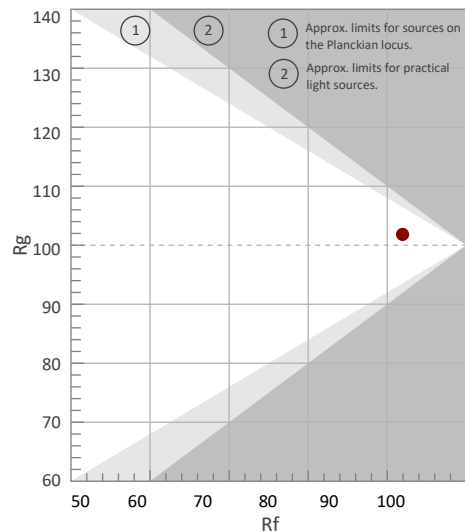
Color Vector Graphic



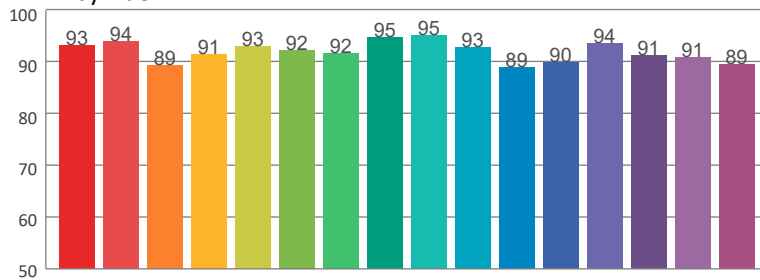
Color Distortion Graphic



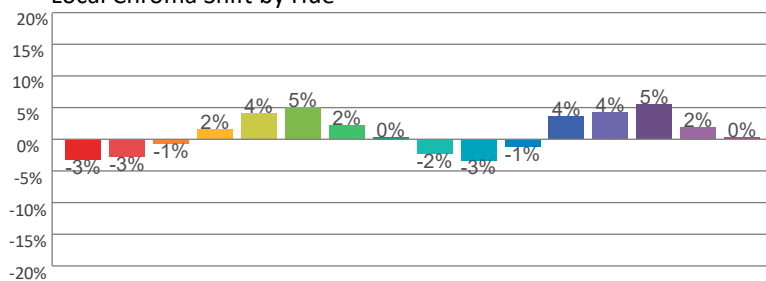
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	91	2%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-4%
9	95	-2%	-2%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	91	2%	-6%
16	89	0%	-8%



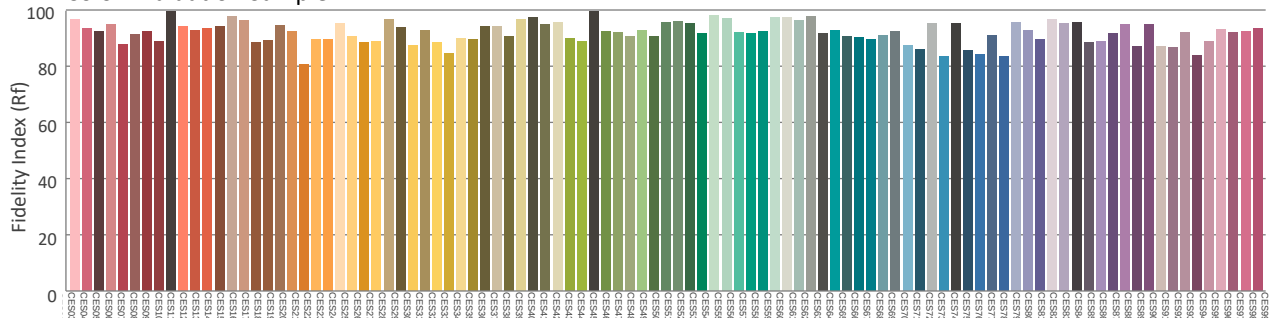
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

Report Summary

Measurements

Fixture Output: 521 lm

Fixture Peak: 600 cd

Fixture Efficacy: 22 lm/W

Intensity @ 5m: 24 lux

Color Temperature: 1816 K

CRI: 69.0 CRI R9 Value: 32.3

CQS: 63.4

TLCI: 46

TM-30 Rf: 72.5

TM-30 Rg: 125.9

Beam Angle (50%): 49°

Field Angle (10%): 95.4°

Cutoff Angle (3%): 123.6°

Conditions

AC Supply: 118 V, 60 Hz

Power: 26.43 W

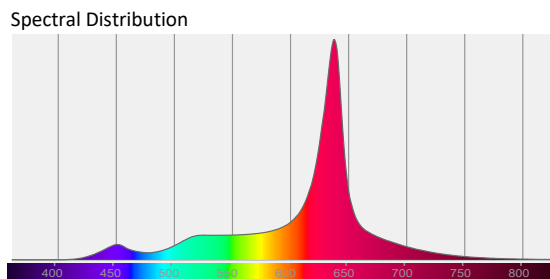
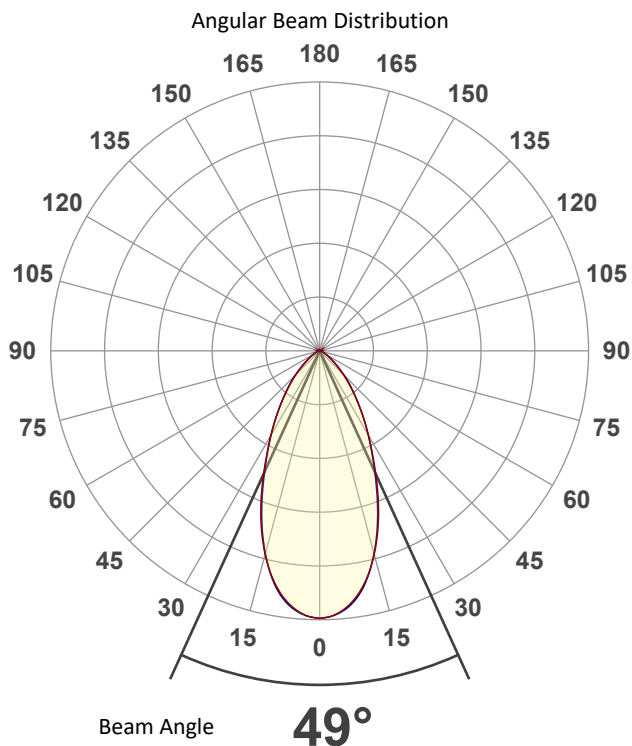
Current: 0.224 A

Power Factor: 0.91



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

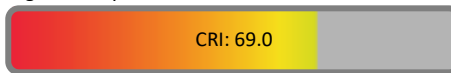
X: 0.521

Y: 0.376



Light Quality

CRI: 69.0



Color Temperature

1816 K



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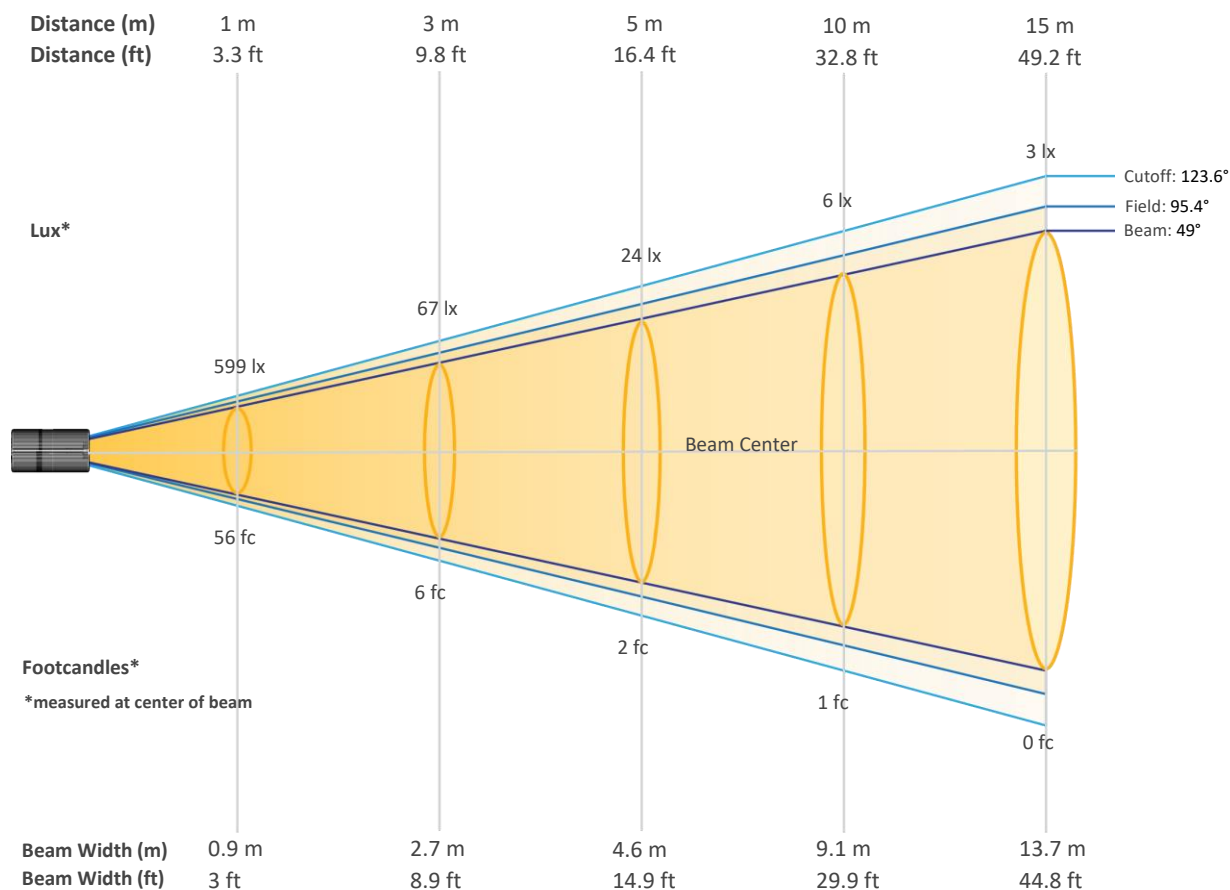
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	599	150	67	37	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	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	3	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

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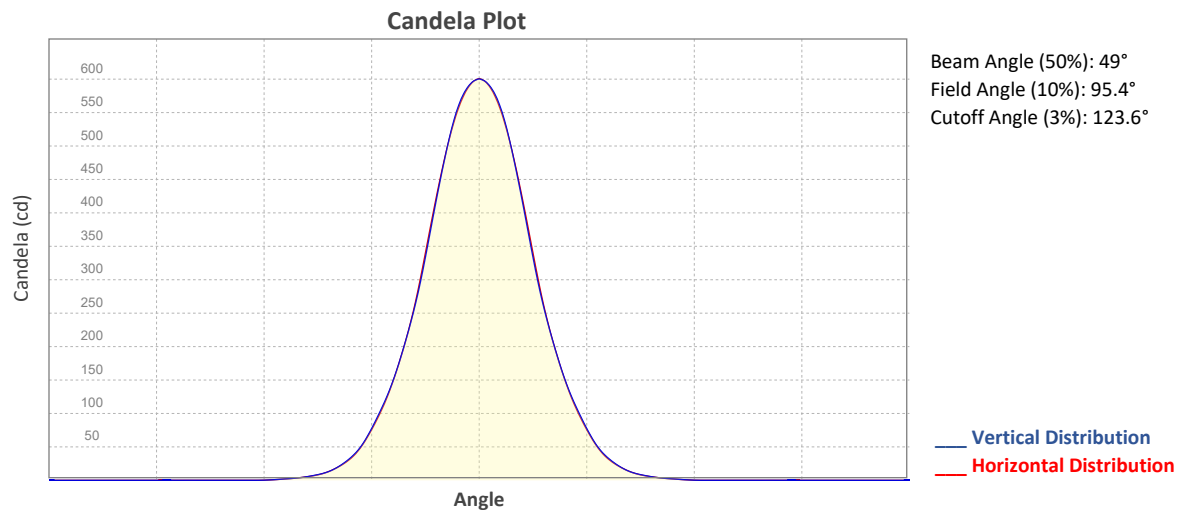
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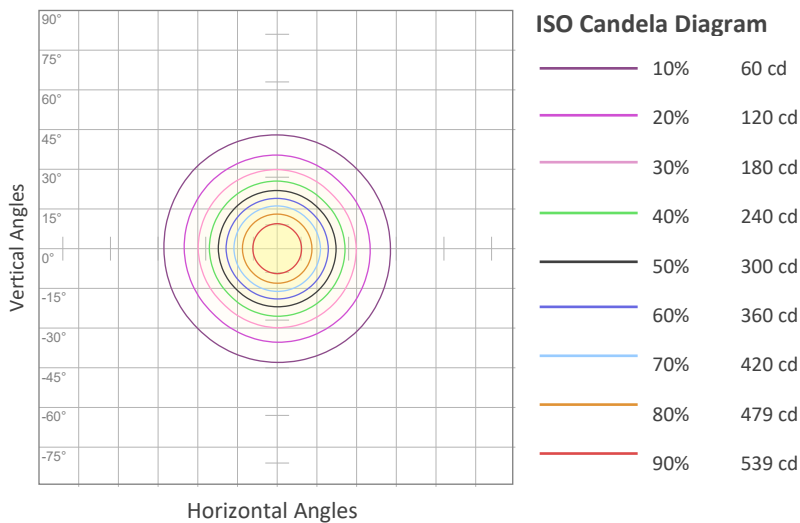
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Photometric & Chromaticity Report

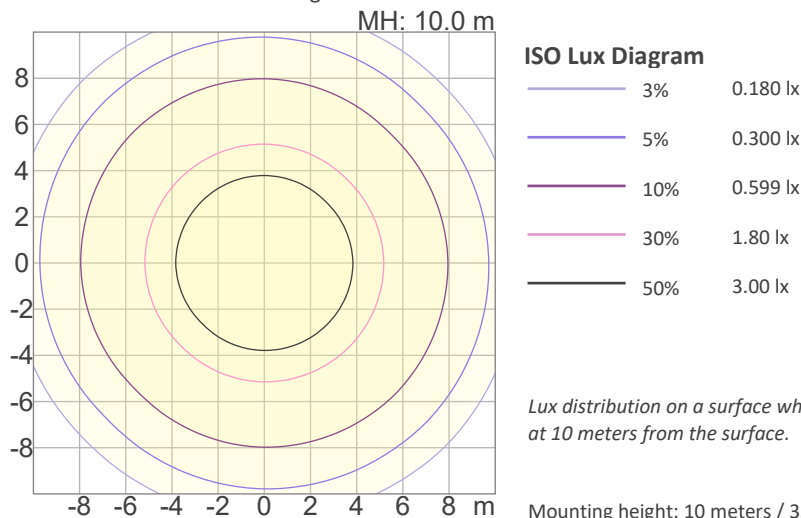
Logic AR111 Downlight M: Medium Filter Lens - 1800K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 599 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.99 lx

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

Mounting height: 10 meters / 33 feet

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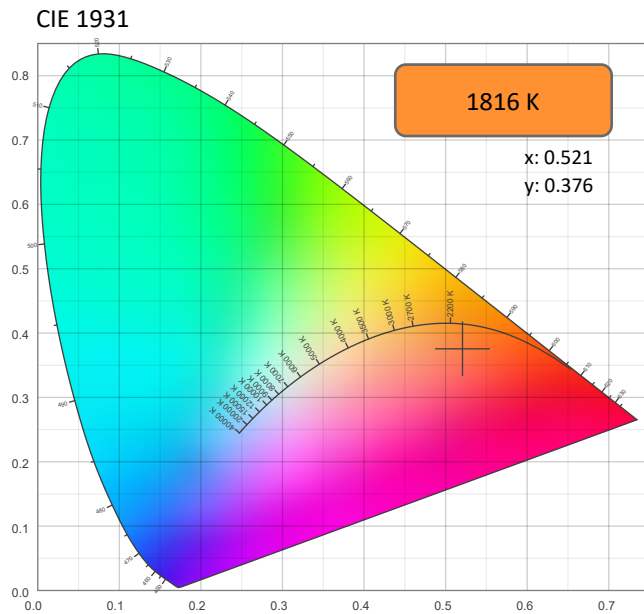
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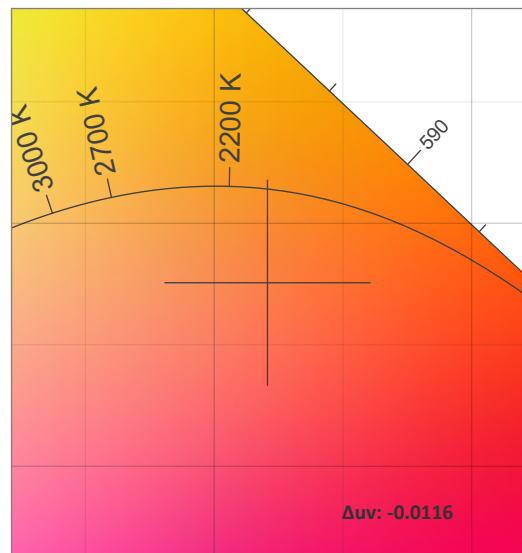
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

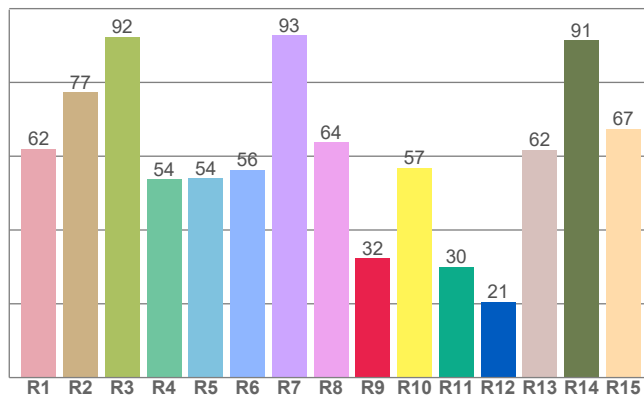
Chromaticity



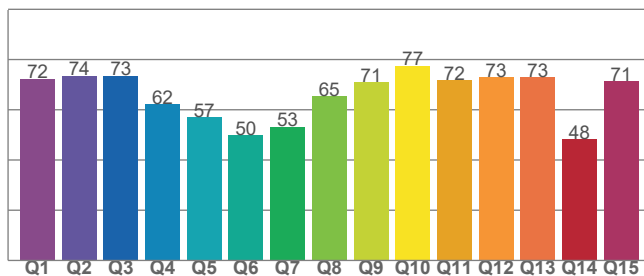
CIE 1931 - Zoom



CRI: 69.0 (R1-R8)



CQS: 63.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1816 K	0.521	0.376

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0116	0.376	0.322

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.0	32.3	63.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
46	72.5	125.9

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

TM-30 Details

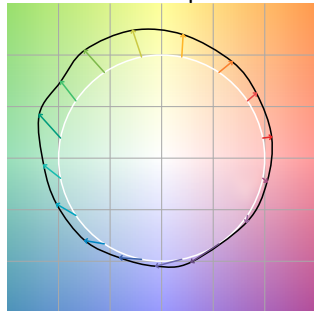
Rf 72.5

Fidelity Index
(Rg)

Rg 125.9

Gamut Index (Rg)

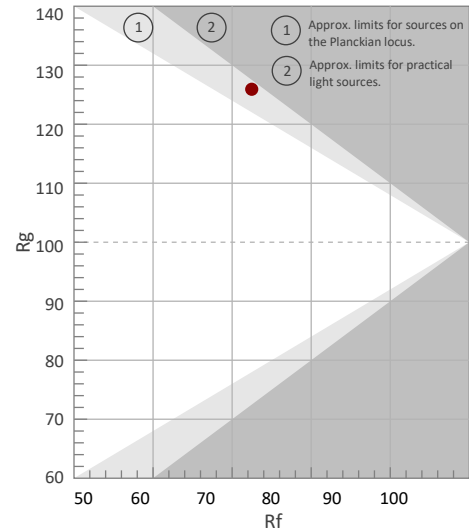
Color Vector Graphic



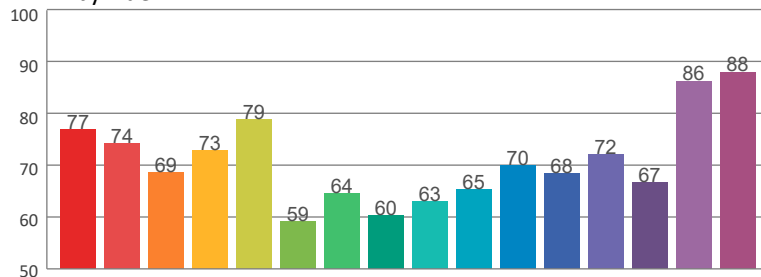
Color Distortion Graphic



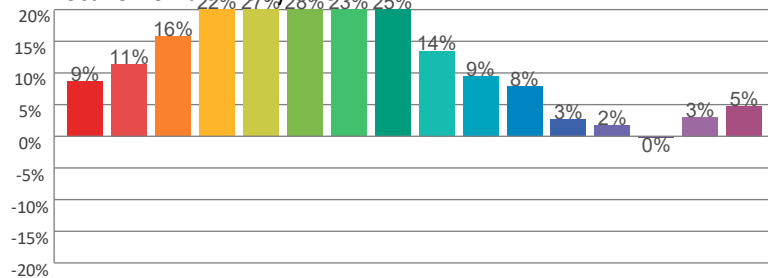
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	77	9%	-1%
2	74	11%	1%
3	69	16%	-5%
4	73	22%	3%
5	79	27%	3%
6	59	28%	4%
7	64	23%	-8%
8	60	25%	-18%
9	63	14%	-16%
10	65	9%	-20%
11	70	8%	-17%
12	68	3%	-21%
13	72	2%	-26%
14	67	0%	-32%
15	86	3%	-6%
16	88	5%	-3%



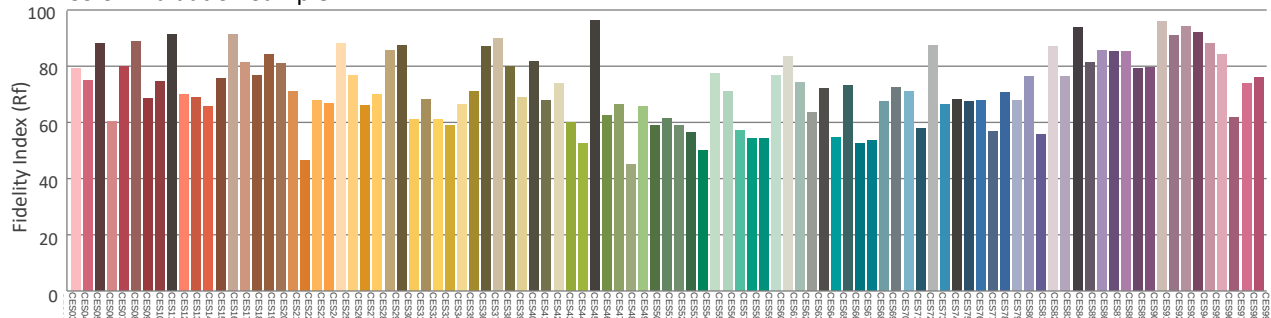
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

Report Summary

Measurements

Fixture Output: 520 lm

Fixture Peak: 598 cd

Fixture Efficacy: 22 lm/W

Intensity @ 5m: 24 lux

Color Temperature: 2241 K

CRI: 68.0 CRI R9 Value: 12.0

CQS: 78.3

TLCI: 56

TM-30 Rf: 79.1

TM-30 Rg: 117.0

Beam Angle (50%): 49°

Field Angle (10%): 95.4°

Cutoff Angle (3%): 123.7°

Conditions

AC Supply: 118 V, 60 Hz

Power: 26.04 W

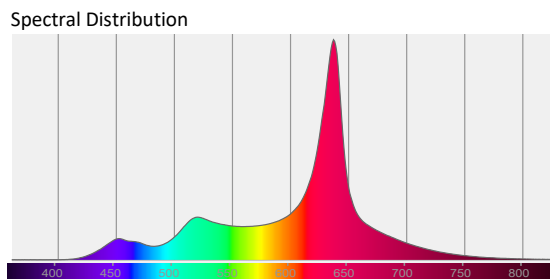
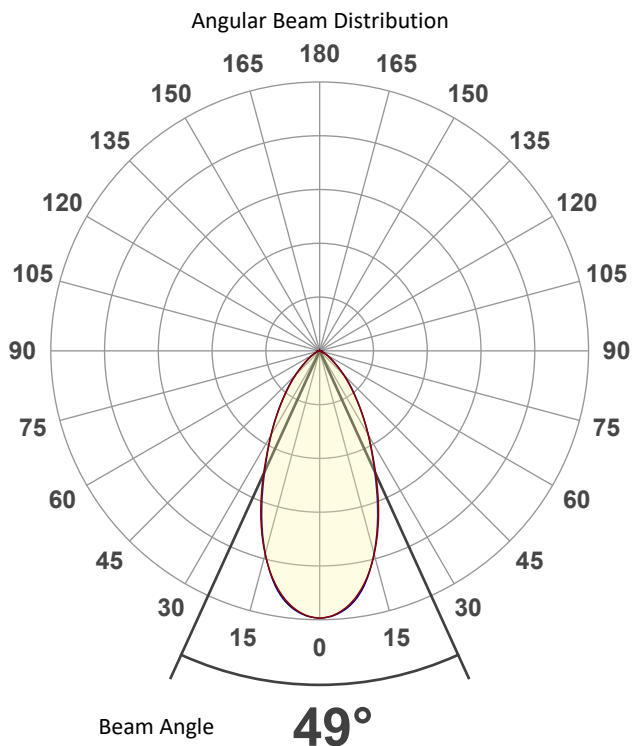
Current: 0.220 A

Power Factor: 0.91



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.482

Y: 0.387

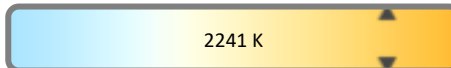


Light Quality

CRI: 68.0

Color Temperature

2241 K



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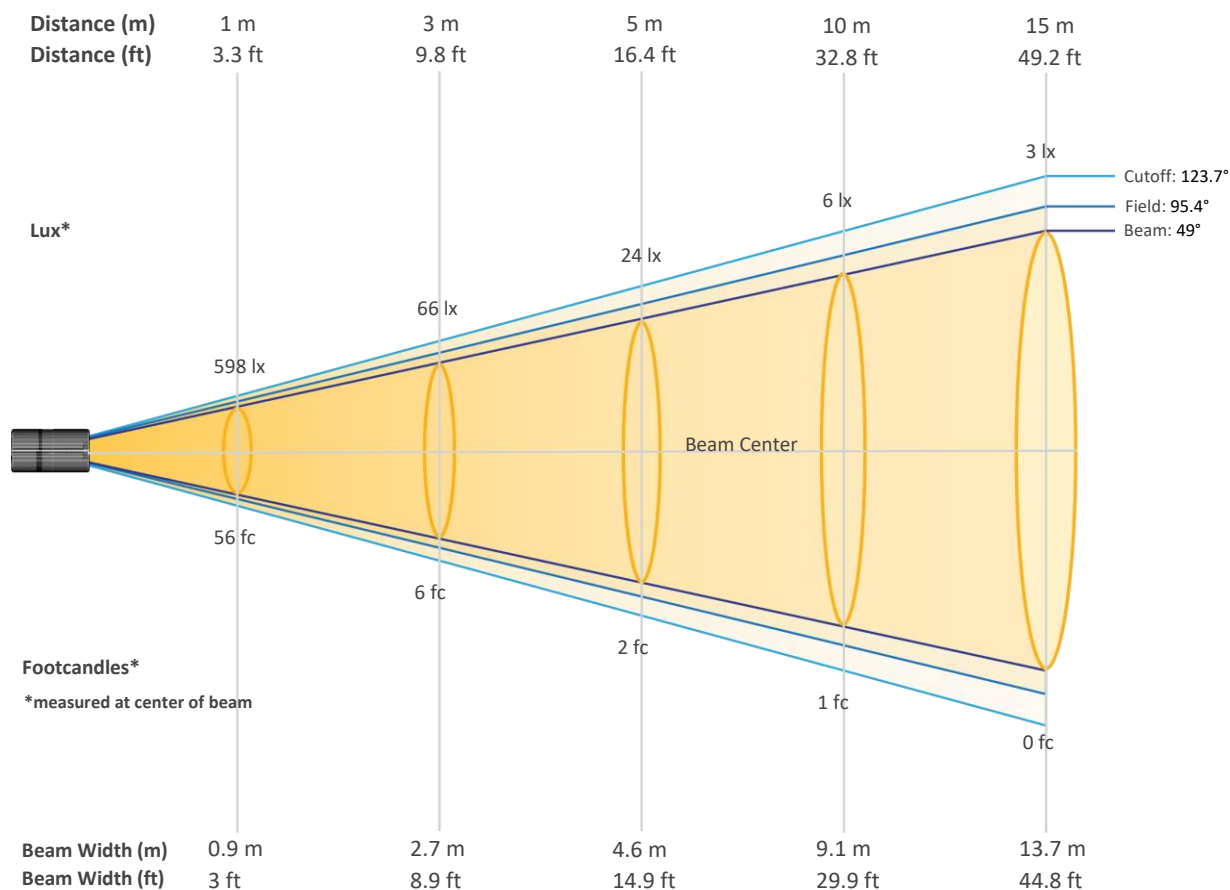
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	598	149	66	37	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	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	3	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

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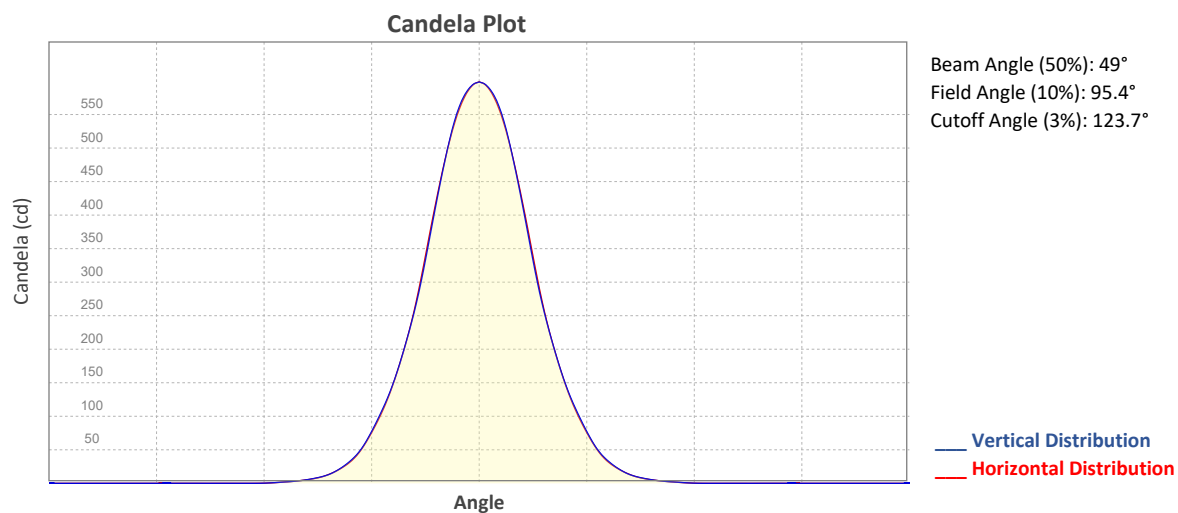
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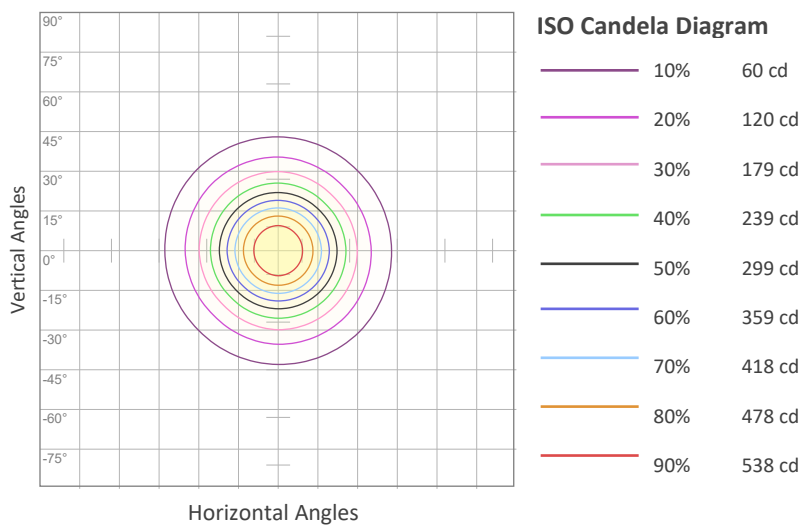
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Photometric & Chromaticity Report

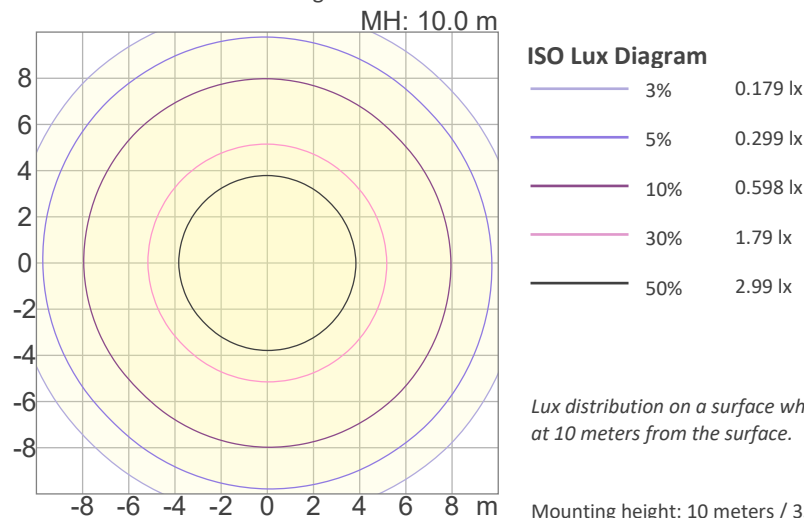
Logic AR111 Downlight M: Medium Filter Lens - 2200K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 598 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.98 lx

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

Mounting height: 10 meters / 33 feet

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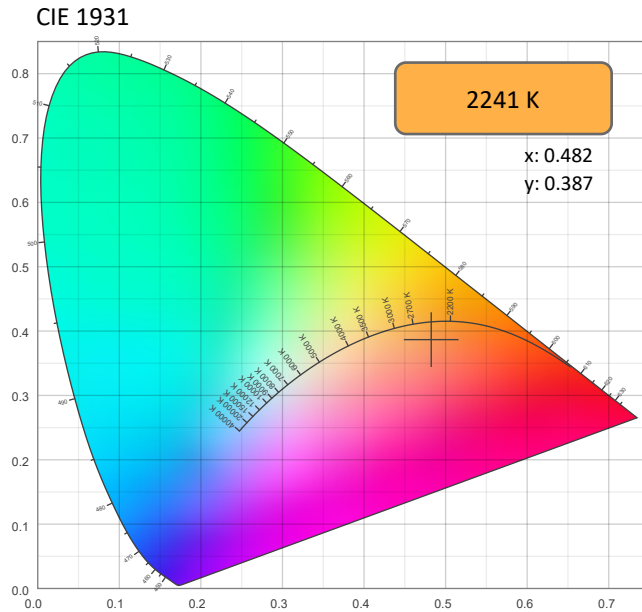
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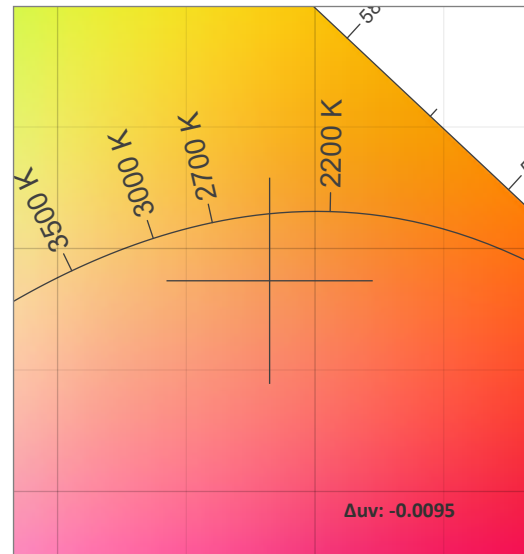
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

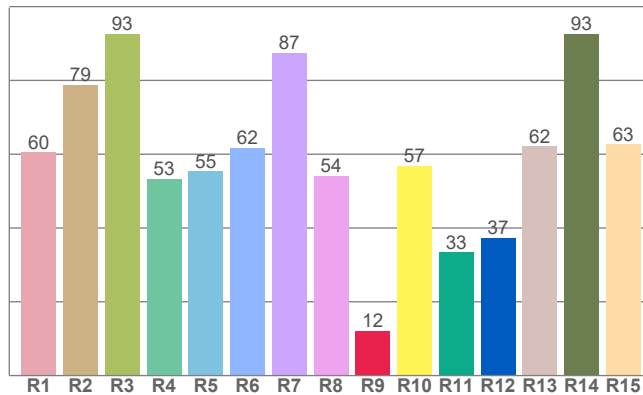
Chromaticity



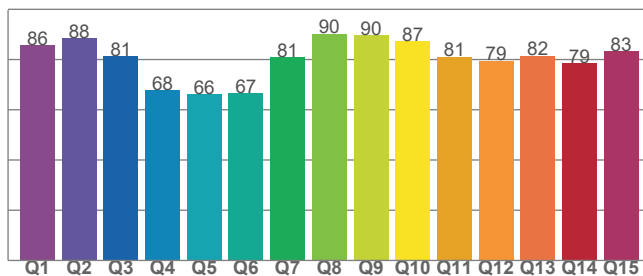
CIE 1931 - Zoom



CRI: 68.0 (R1-R8)



CQS: 78.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2241 K	0.482	0.387

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0095	0.387	0.289

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
68.0	12.0	78.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
56	79.1	117.0

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

TM-30 Details

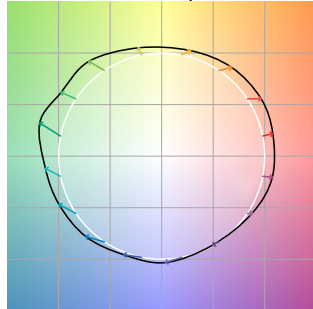
Rf 79.1

Fidelity Index
(R_f)

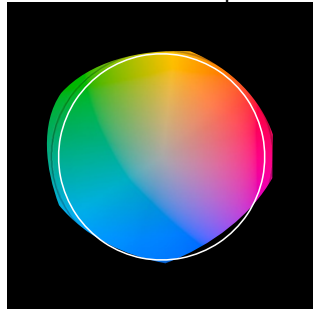
Rg 117.0

Gamut Index (R_g)

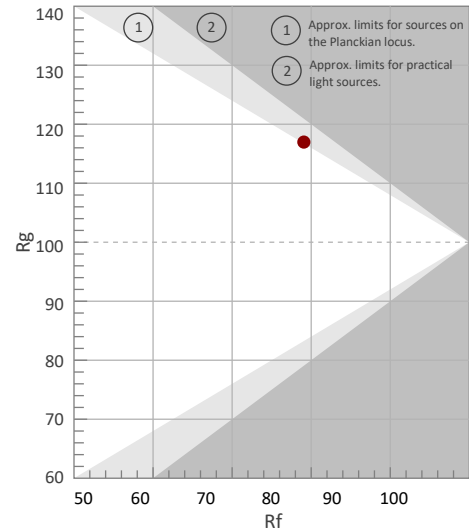
Color Vector Graphic



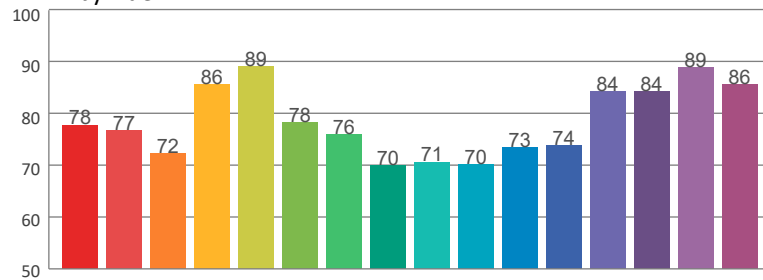
Color Distortion Graphic



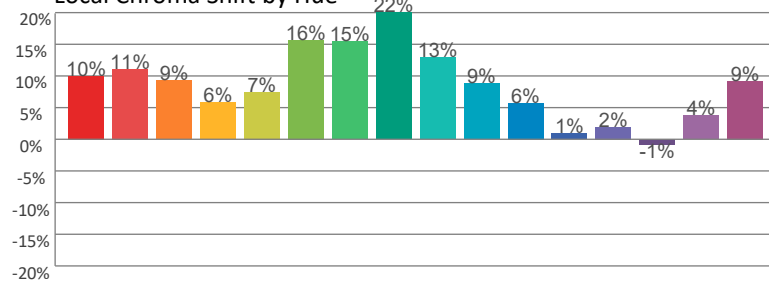
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	78	10%	0%
2	77	11%	-7%
3	72	9%	-9%
4	86	6%	-7%
5	89	7%	2%
6	78	16%	8%
7	76	15%	3%
8	70	22%	-9%
9	71	13%	-10%
10	70	9%	-16%
11	73	6%	-18%
12	74	1%	-17%
13	84	2%	-17%
14	84	-1%	-7%
15	89	4%	3%
16	86	9%	1%



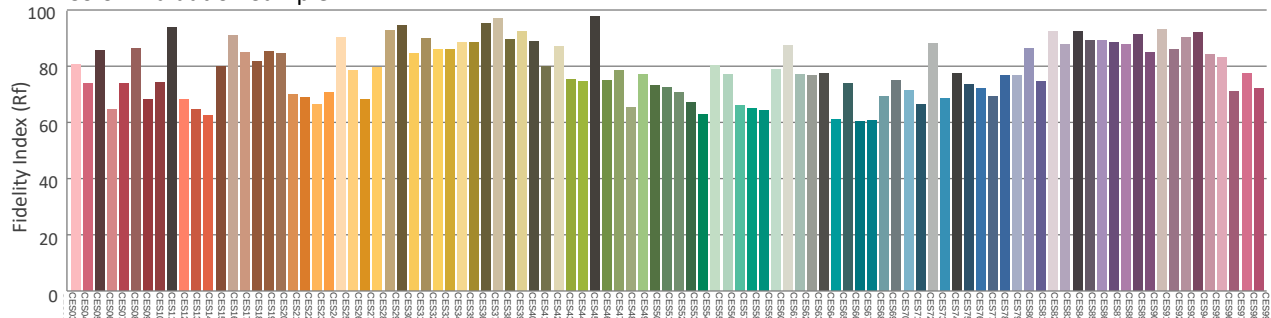
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

Report Summary

Measurements

Fixture Output: 420 lm

Fixture Peak: 485 cd

Fixture Efficacy: 20 lm/W

Intensity @ 5m: 19 lux

Color Temperature: 2683 K

CRI: 81.0 CRI R9 Value: 44.1

CQS: 85.9

TLCI: 75

TM-30 Rf: 87.7

TM-30 Rg: 109.2

Beam Angle (50%): 48.9°

Field Angle (10%): 95.3°

Cutoff Angle (3%): 123.6°

Conditions

AC Supply: 119 V, 60.1 Hz

Power: 23.82 W

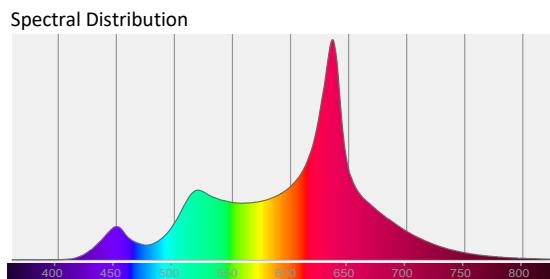
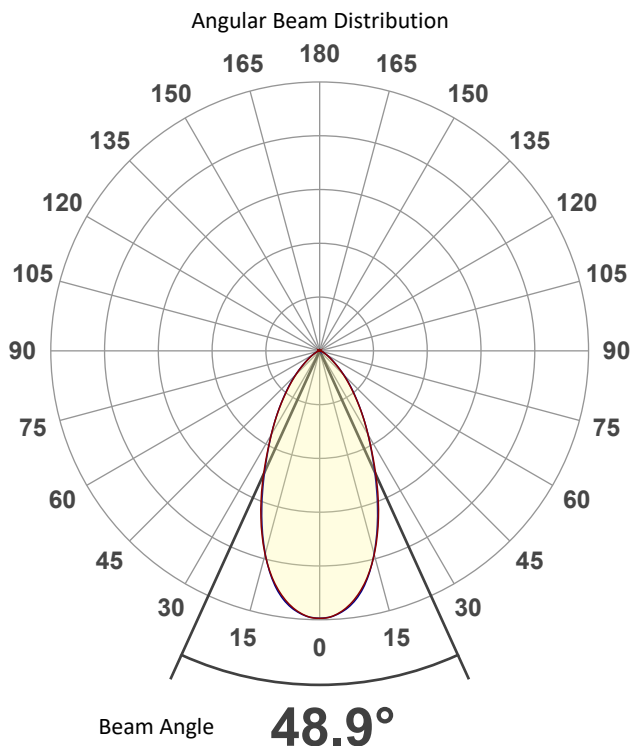
Current: 0.201 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.460

Y: 0.409



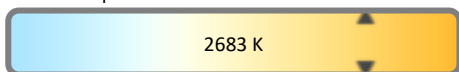
Light Quality

CRI: 81.0



Color Temperature

2683 K



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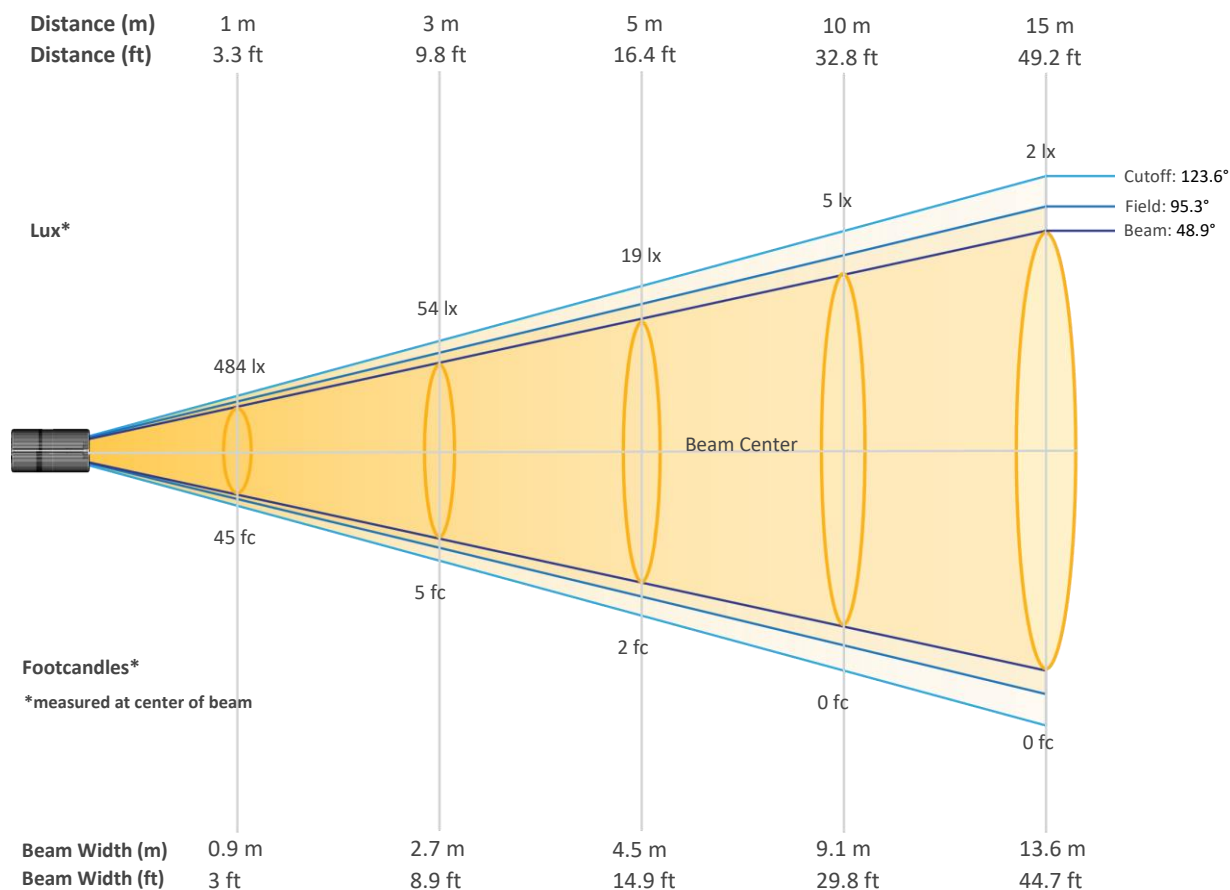
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	484	121	54	30	19	13	10	8	6	5
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	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

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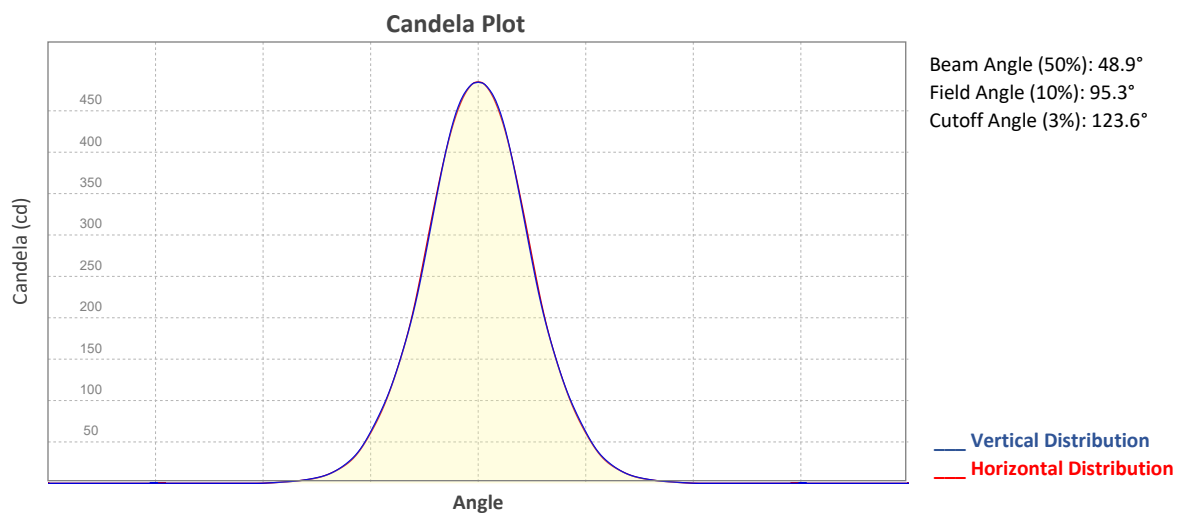
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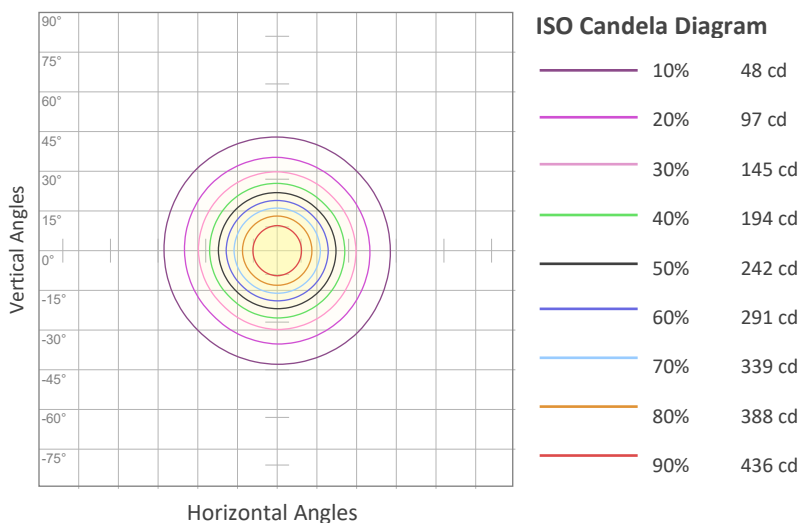
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Photometric & Chromaticity Report

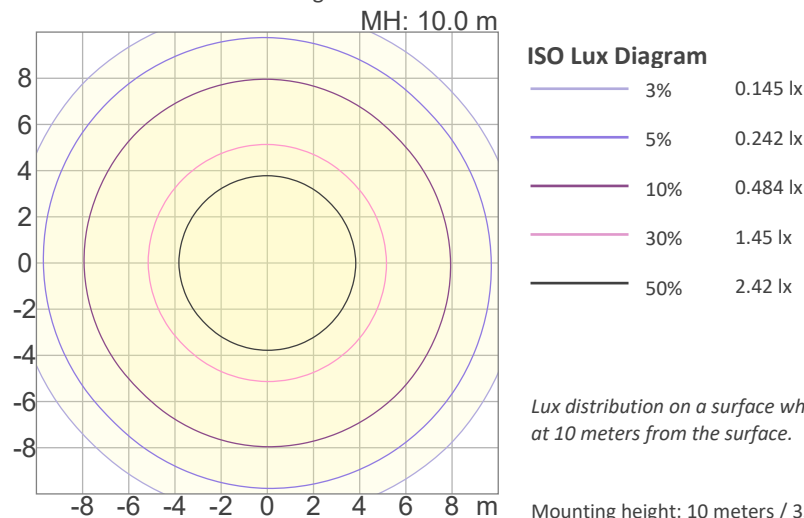
Logic AR111 Downlight M: Medium Filter Lens - 2700K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 484 cd



Conditions:
Number of c-planes: 8
Candela at center: 4.84 lx

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

Mounting height: 10 meters / 33 feet

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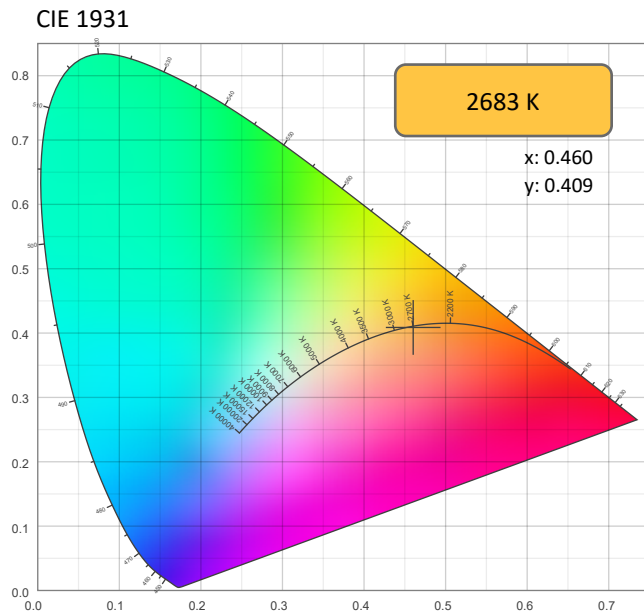
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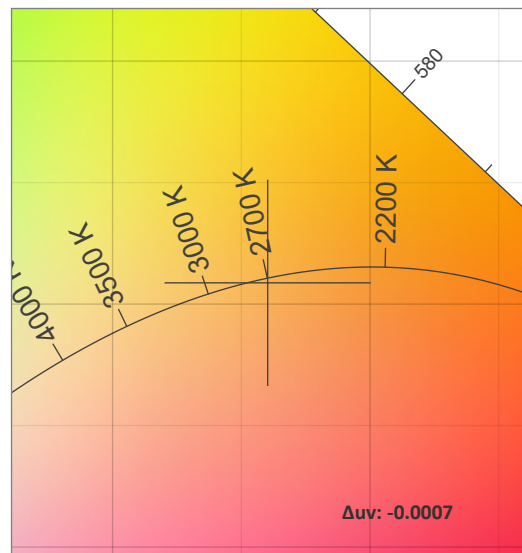
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

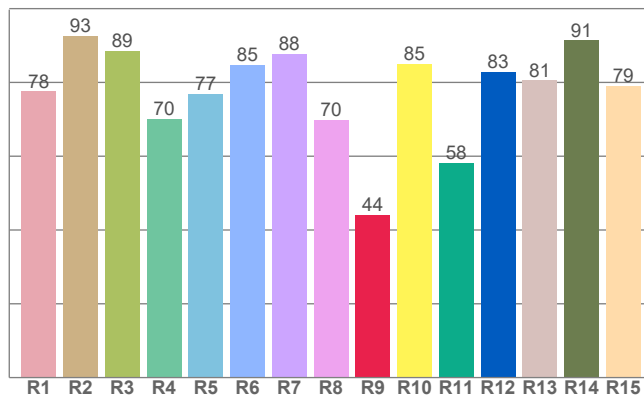
Chromaticity



CIE 1931 - Zoom



CRI: 81.0 (R1-R8)

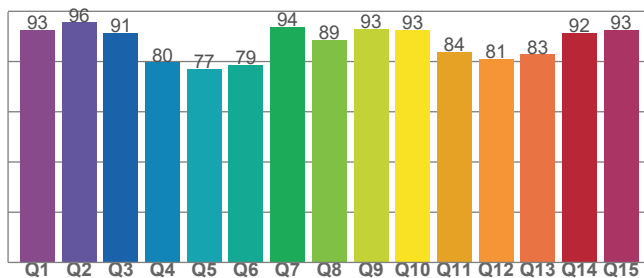


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2683 K	0.460	0.409

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.409	0.264

CQS: 85.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
81.0	44.1	85.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.7	109.2

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

TM-30 Details

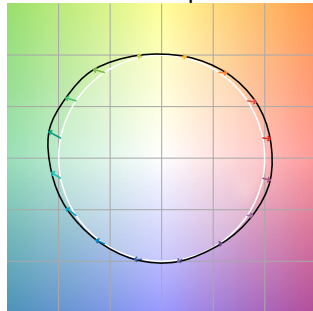
Rf 87.7

Fidelity Index
(Rg)

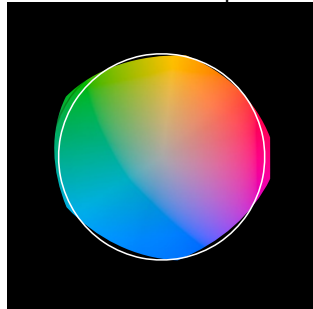
Rg 109.2

Gammut Index (Rg)

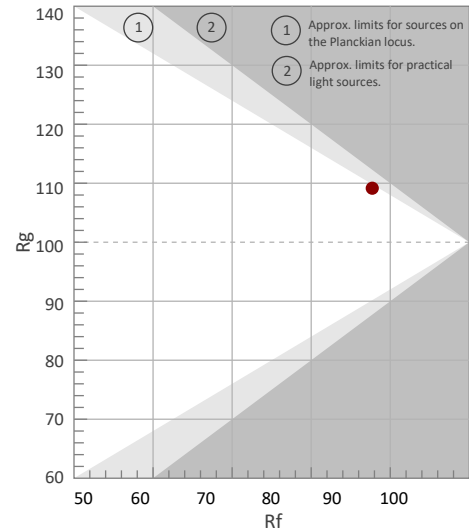
Color Vector Graphic



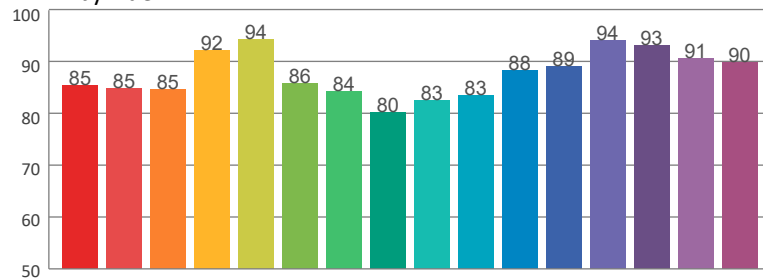
Color Distortion Graphic



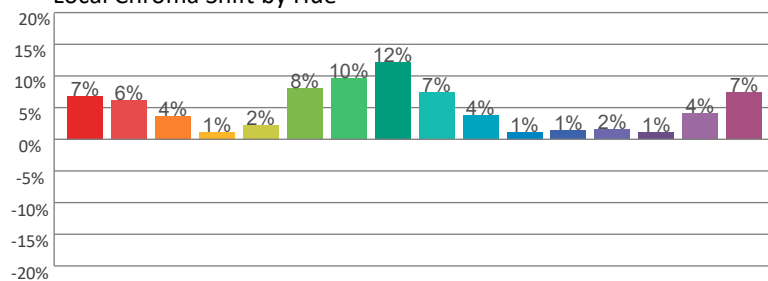
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	85	7%	-2%
2	85	6%	-5%
3	85	4%	-6%
4	92	1%	-4%
5	94	2%	3%
6	86	8%	7%
7	84	10%	3%
8	80	12%	-4%
9	83	7%	-7%
10	83	4%	-11%
11	88	1%	-9%
12	89	1%	-7%
13	94	2%	-4%
14	93	1%	3%
15	91	4%	3%
16	90	7%	0%



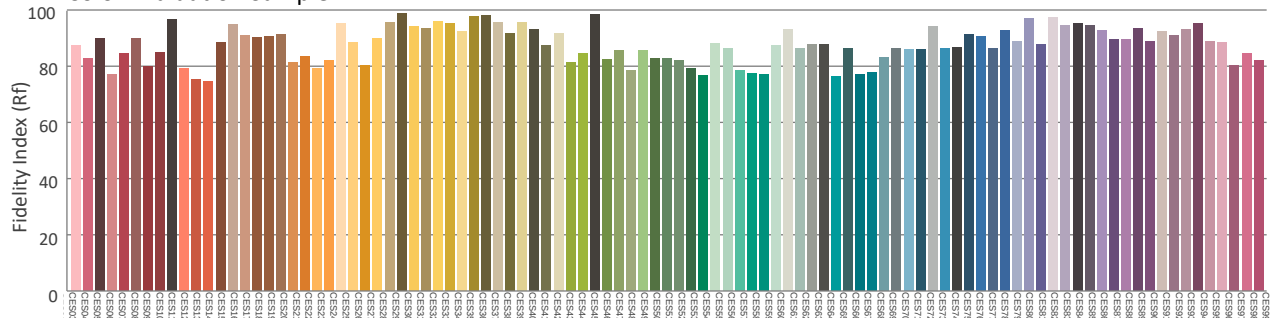
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

Report Summary

Measurements

Fixture Output: 397 lm

Fixture Peak: 462 cd

Fixture Efficacy: 19 lm/W

Intensity @ 5m: 18 lux

Color Temperature: 2973 K

CRI: 94.6 CRI R9 Value: 90.5

CQS: 94.5

TLCI: 95

TM-30 Rf: 95.1

TM-30 Rg: 104.3

Beam Angle (50%): 48.6°

Field Angle (10%): 95°

Cutoff Angle (3%): 123.3°

Conditions

AC Supply: 119 V, 60 Hz

Power: 23.24 W

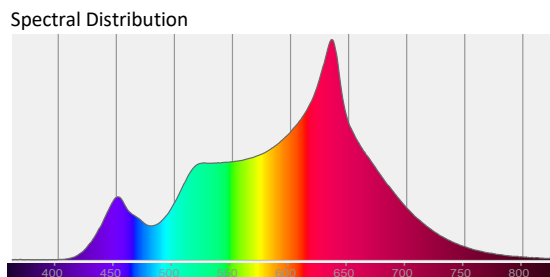
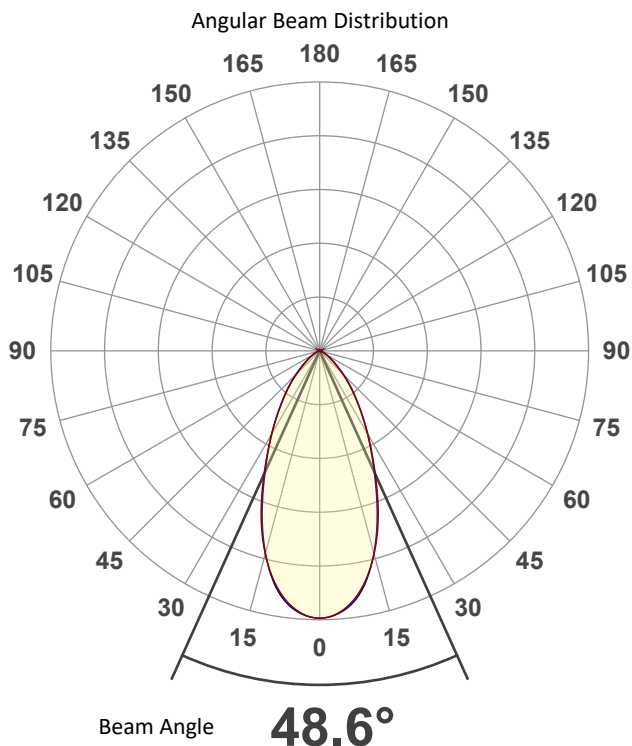
Current: 0.196 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

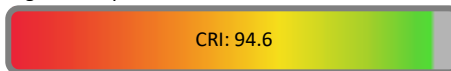
X: 0.439

Y: 0.404



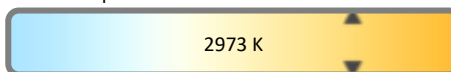
Light Quality

CRI: 94.6



Color Temperature

2973 K



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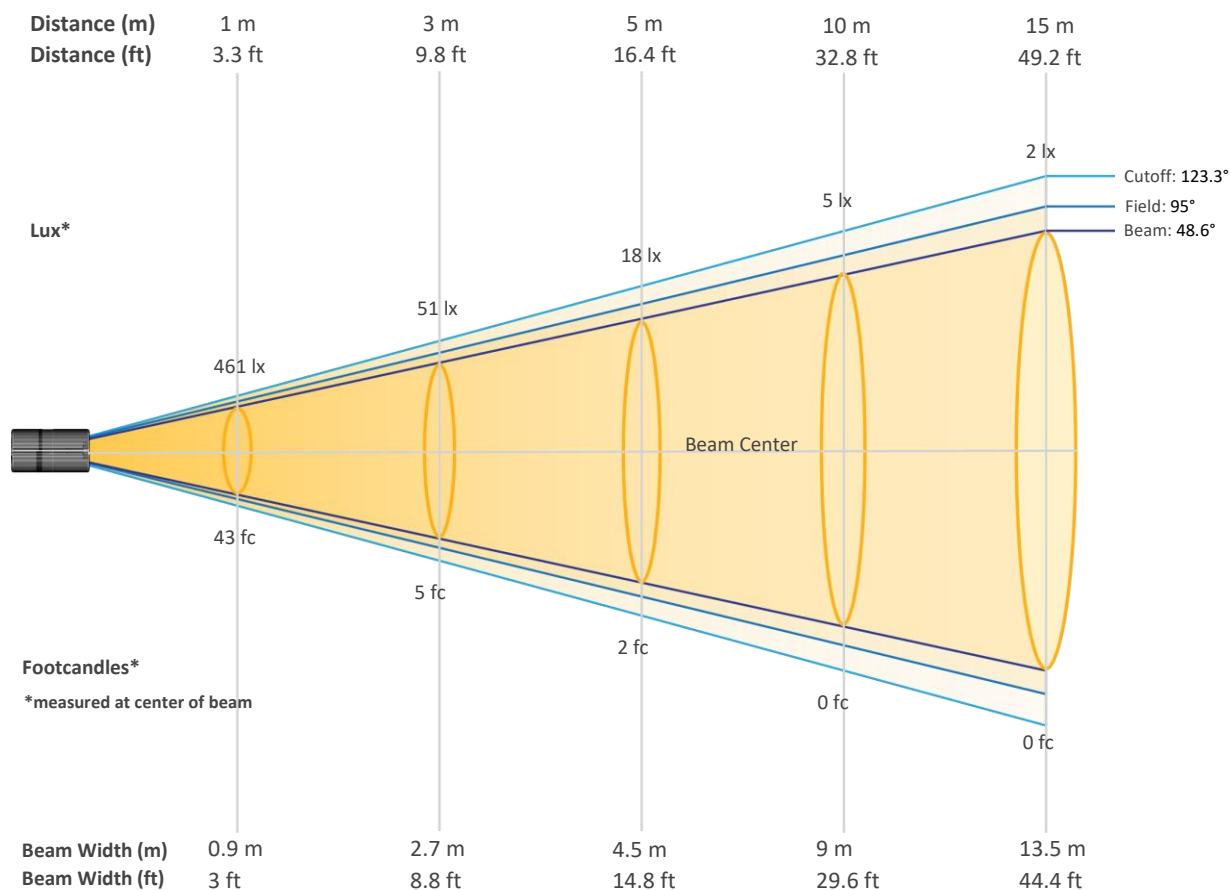
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	461	115	51	29	18	13	9	7	6	5
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	43	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

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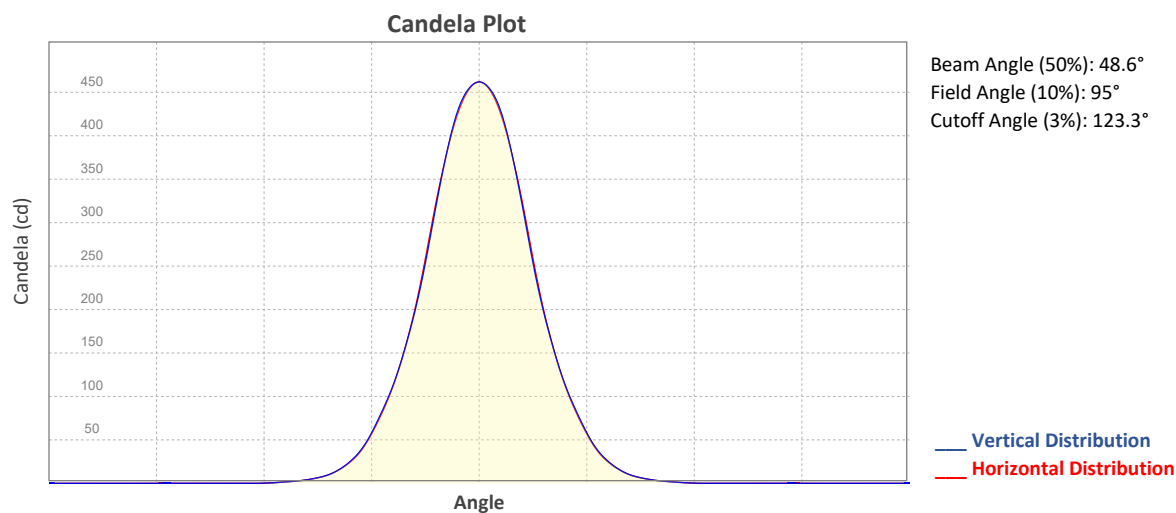
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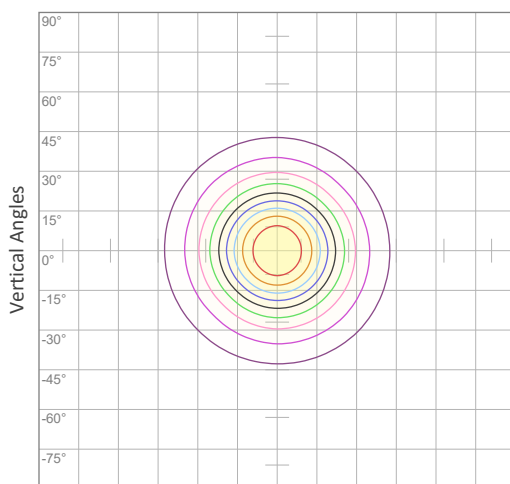
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K



ISO Diagrams



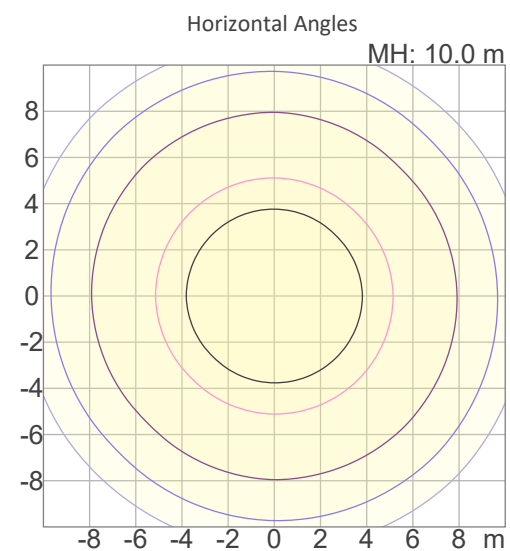
ISO Candela Diagram

10%	46 cd
20%	92 cd
30%	138 cd
40%	184 cd
50%	231 cd
60%	277 cd
70%	323 cd
80%	369 cd
90%	415 cd

Conditions:

Number of c-planes: 8

Candela at center: 461 cd



ISO Lux Diagram

3%	0.138 lx
5%	0.231 lx
10%	0.461 lx
30%	1.38 lx
50%	2.31 lx

Conditions:

Number of c-planes: 8

Candela at center: 4.61 lx

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

Mounting height: 10 meters / 33 feet

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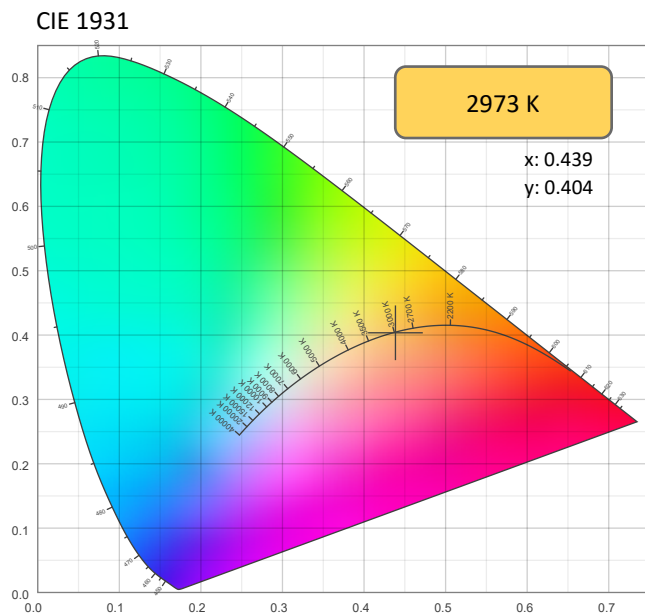
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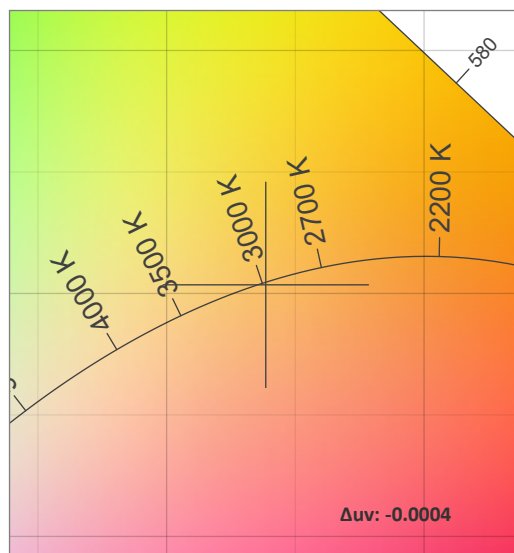
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

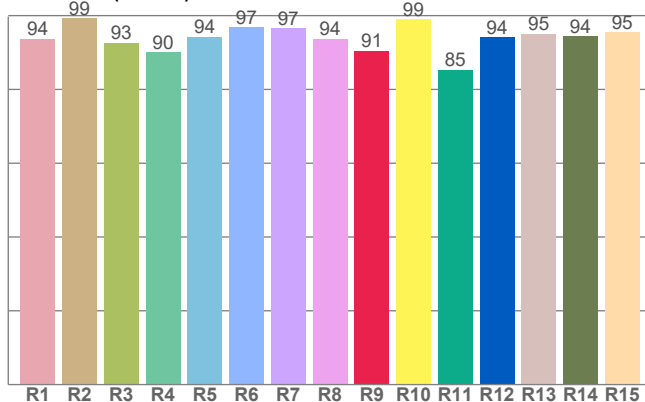
Chromaticity



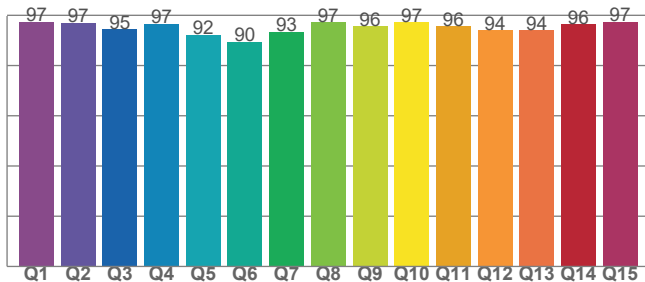
CIE 1931 - Zoom



CRI: 94.6 (R1-R8)



CQS: 94.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2973 K	0.439	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0004	0.404	0.252

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.6	90.5	94.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
95	95.1	104.3

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

TM-30 Details

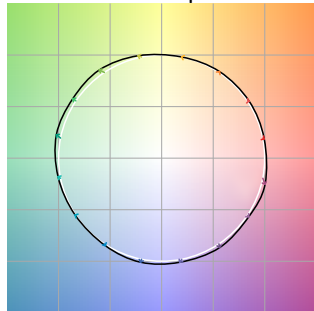
Rf 95.1

Fidelity Index
(Rg)

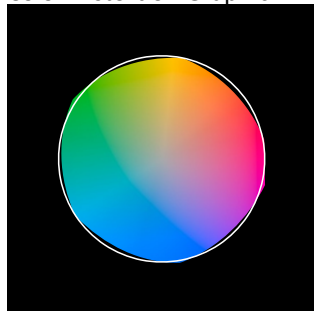
Rg 104.3

Gamut Index (Rg)

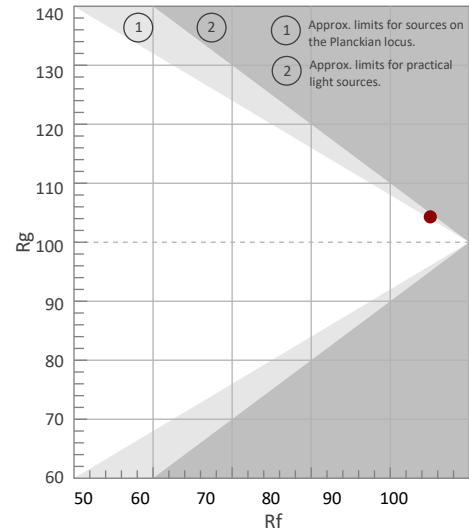
Color Vector Graphic



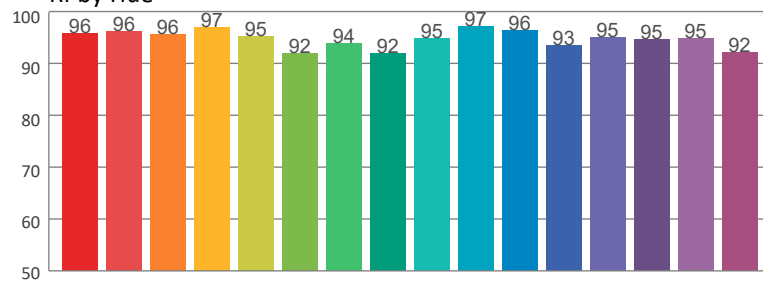
Color Distortion Graphic



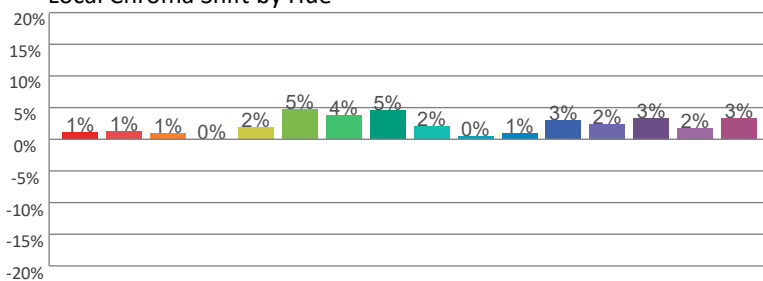
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	96	1%	-1%
2	96	1%	-1%
3	96	1%	0%
4	97	0%	0%
5	95	2%	3%
6	92	5%	3%
7	94	4%	0%
8	92	5%	-2%
9	95	2%	-2%
10	97	0%	-1%
11	96	1%	2%
12	93	3%	0%
13	95	2%	-3%
14	95	3%	-2%
15	95	2%	0%
16	92	3%	-5%



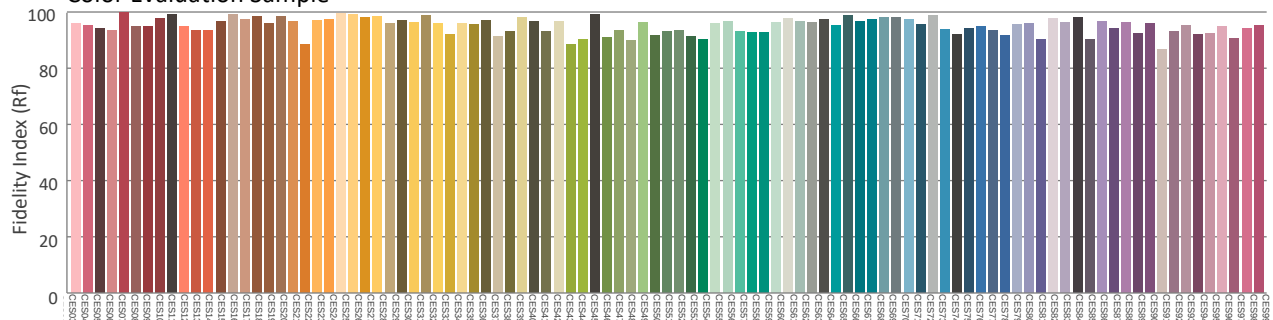
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

Report Summary

Measurements

Fixture Output: 400 lm

Fixture Peak: 464 cd

Fixture Efficacy: 19 lm/W

Intensity @ 5m: 19 lux

Color Temperature: 3142 K

CRI: 94.4 CRI R9 Value: 87.0

CQS: 95.7

TLCI: 97

TM-30 Rf: 95.1

TM-30 Rg: 103.4

Beam Angle (50%): 48.7°

Field Angle (10%): 95.1°

Cutoff Angle (3%): 123.3°

Conditions

AC Supply: 118 V, 60 Hz

Power: 23.32 W

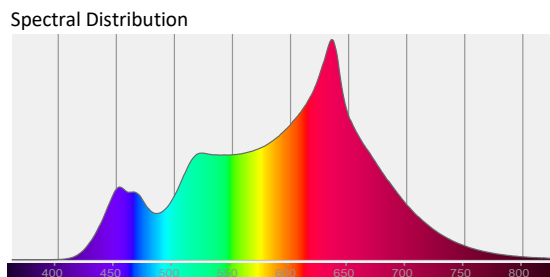
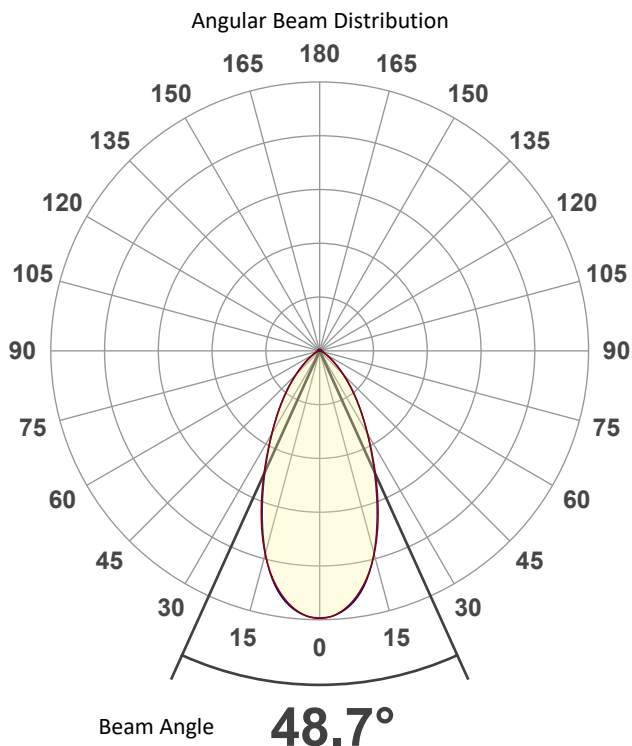
Current: 0.197 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

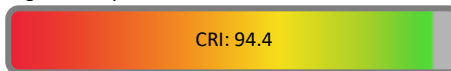
X: 0.425

Y: 0.396



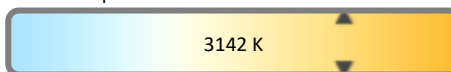
Light Quality

CRI: 94.4



Color Temperature

3142 K



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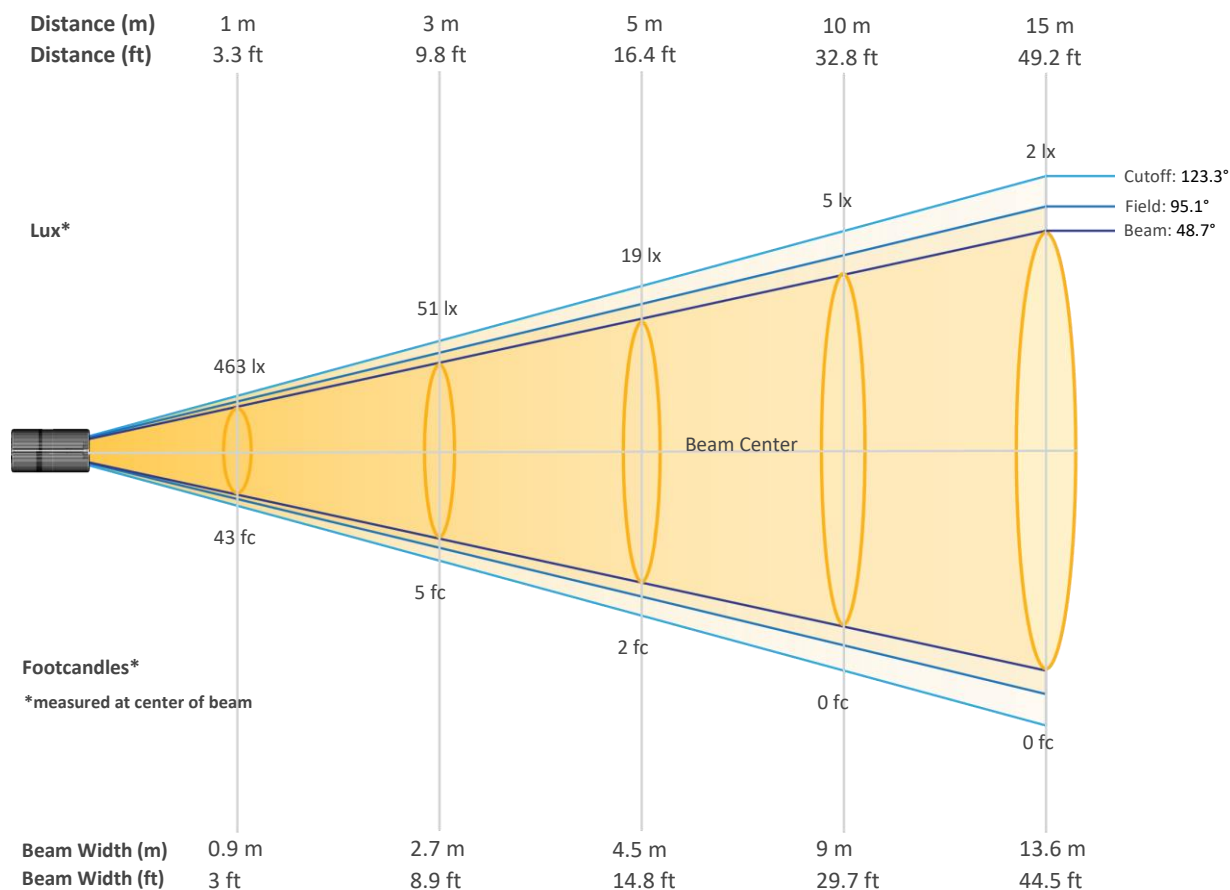
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	463	116	51	29	19	13	9	7	6	5
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	43	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

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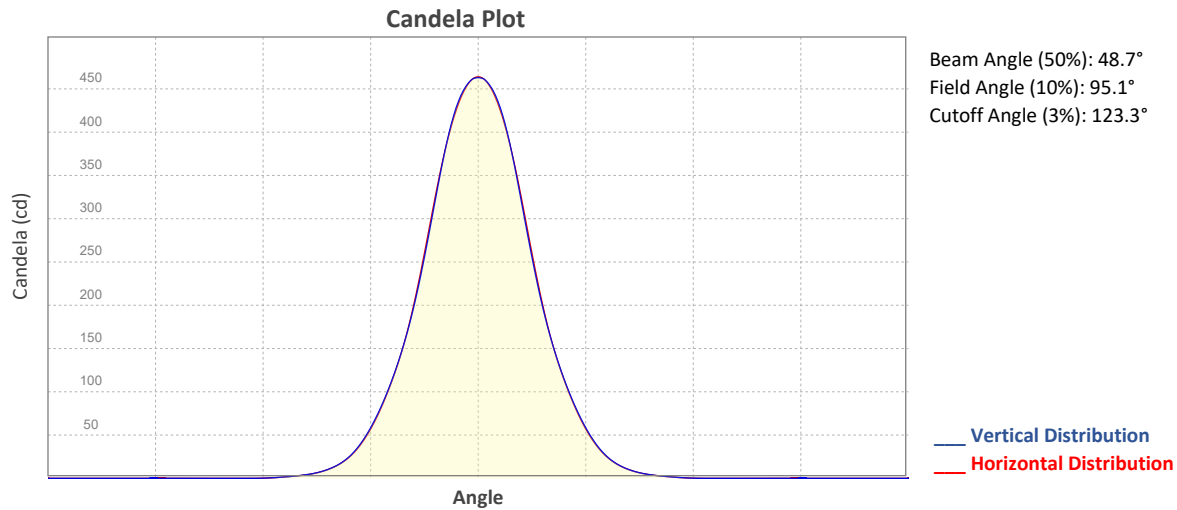
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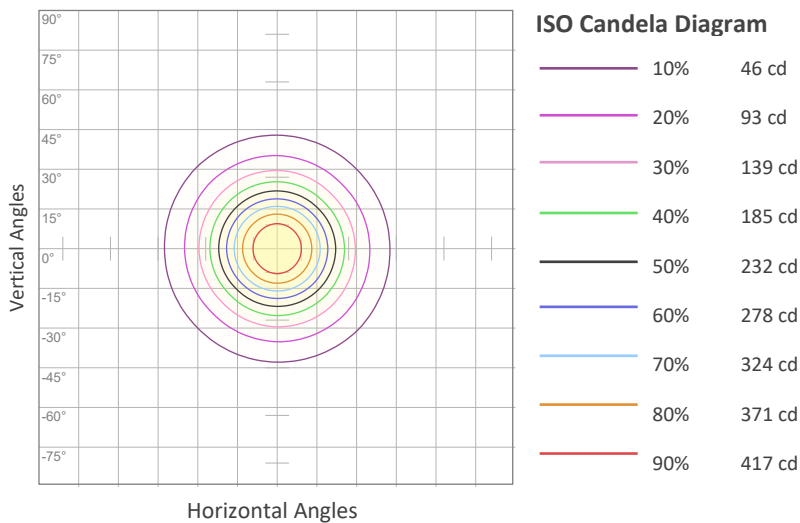
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Photometric & Chromaticity Report

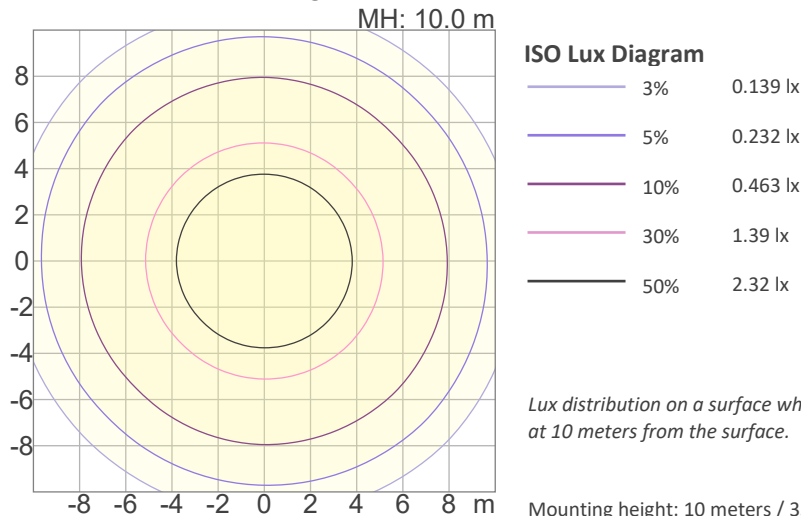
Logic AR111 Downlight M: Medium Filter Lens - 3200K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 463 cd



Conditions:
Number of c-planes: 8
Candela at center: 4.63 lx

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

Mounting height: 10 meters / 33 feet

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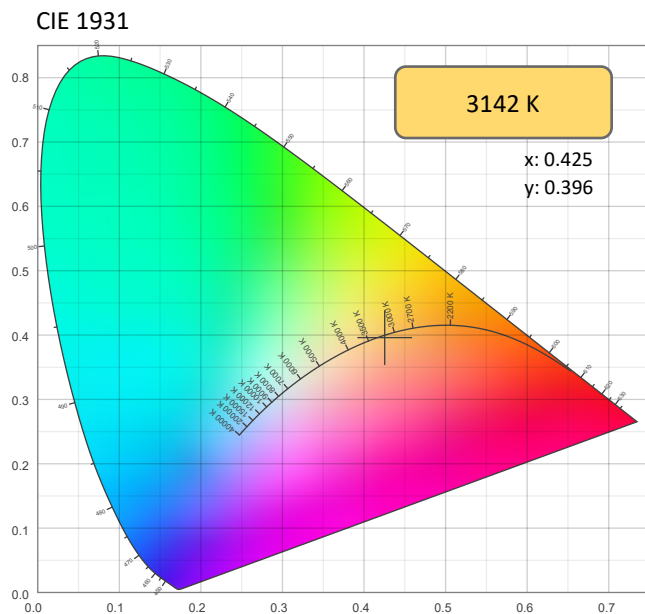
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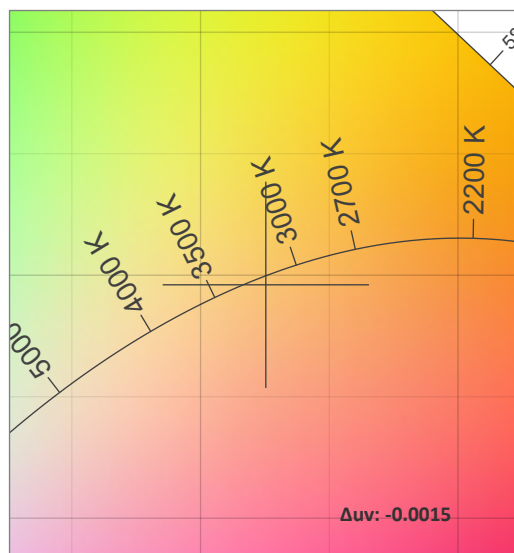
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

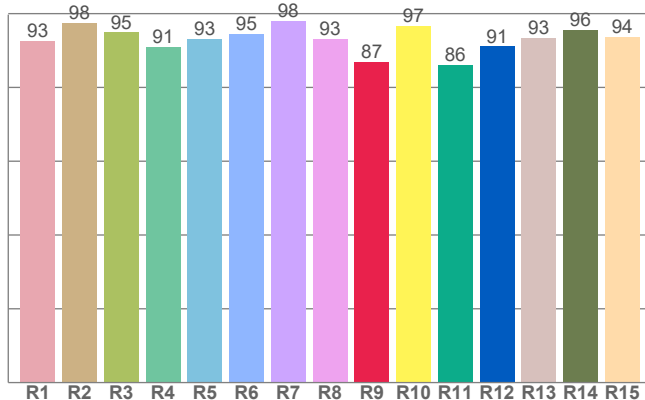
Chromaticity



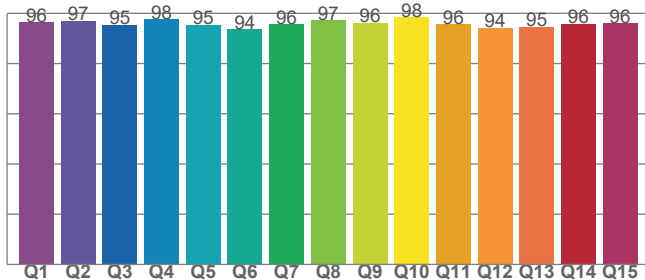
CIE 1931 - Zoom



CRI: 94.4 (R1-R8)



CQS: 95.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3142 K	0.425	0.396

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0015	0.396	0.247

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.4	87.0	95.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	95.1	103.4

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

TM-30 Details

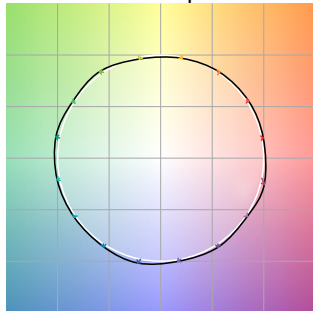
Rf 95.1

Fidelity Index
(Rg)

Rg 103.4

Gamut Index (Rg)

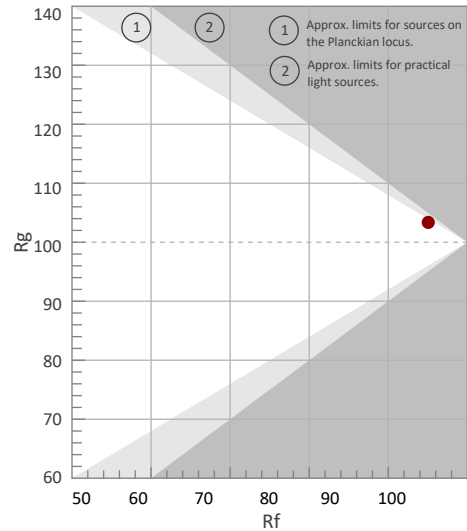
Color Vector Graphic



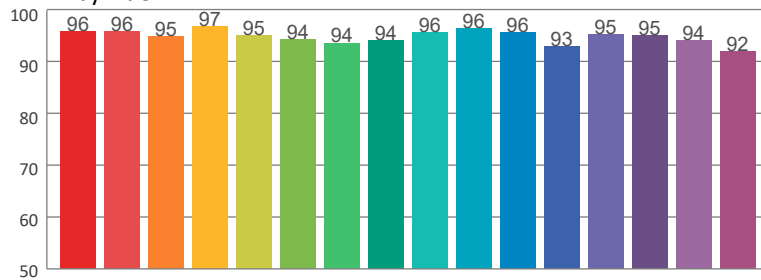
Color Distortion Graphic



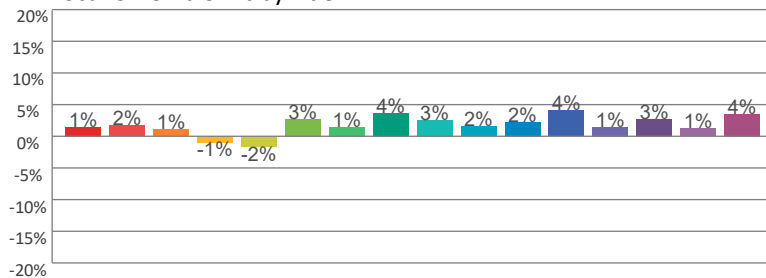
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	96	1%	0%
2	96	2%	-1%
3	95	1%	-1%
4	97	-1%	-1%
5	95	-2%	1%
6	94	3%	3%
7	94	1%	2%
8	94	4%	-1%
9	96	3%	1%
10	96	2%	1%
11	96	2%	2%
12	93	4%	-2%
13	95	1%	-3%
14	95	3%	-2%
15	94	1%	0%
16	92	4%	-5%



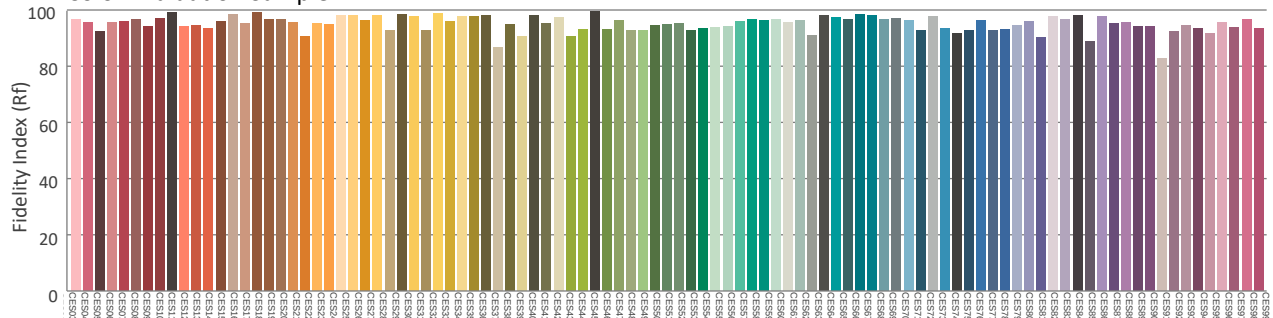
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

Report Summary

Measurements

Fixture Output: 433 lm

Fixture Peak: 499 cd

Fixture Efficacy: 20 lm/W

Intensity @ 5m: 20 lux

Color Temperature: 4158 K

CRI: 92.4 CRI R9 Value: 82.0

CQS: 93.6

TLCI: 97

TM-30 Rf: 89.6

TM-30 Rg: 98.4

Beam Angle (50%): 48.9°

Field Angle (10%): 95.5°

Cutoff Angle (3%): 123.9°

Conditions

AC Supply: 119 V, 60 Hz

Power: 24.44 W

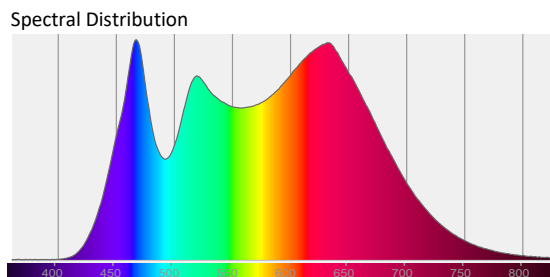
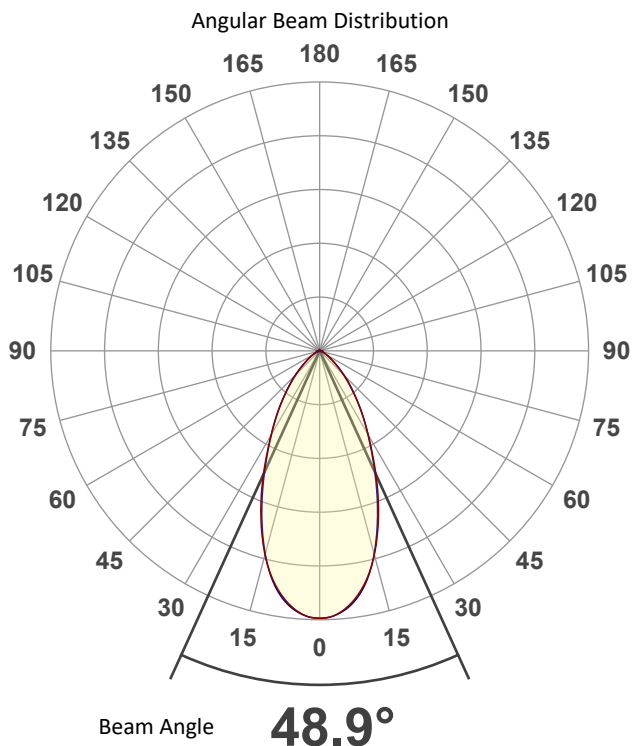
Current: 0.206 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

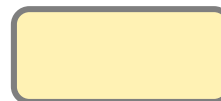
Overall Measurement



Tested Color (CIE 1931):

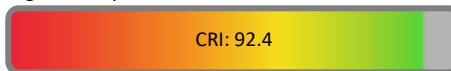
X: 0.373

Y: 0.371



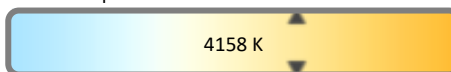
Light Quality

CRI: 92.4



Color Temperature

4158 K



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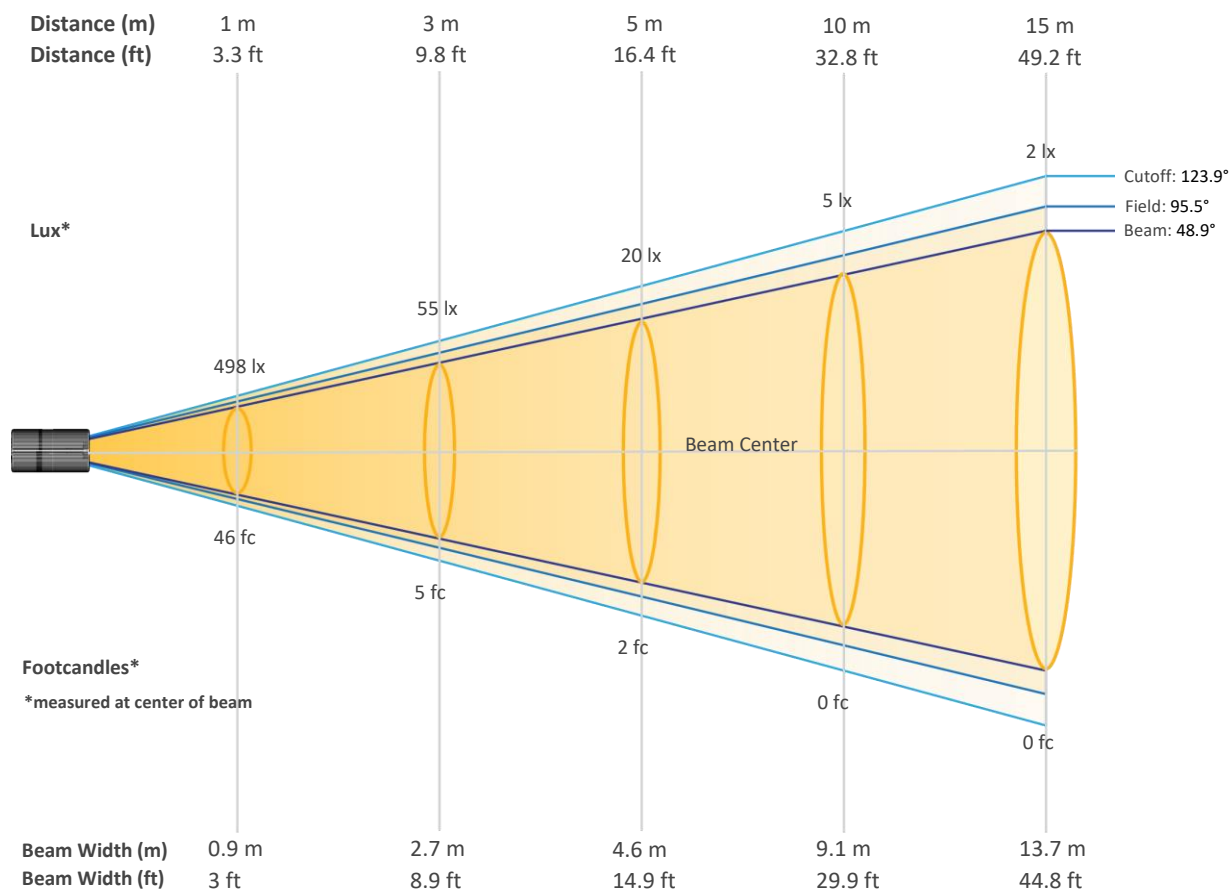
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	498	125	55	31	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	3	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	46	12	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

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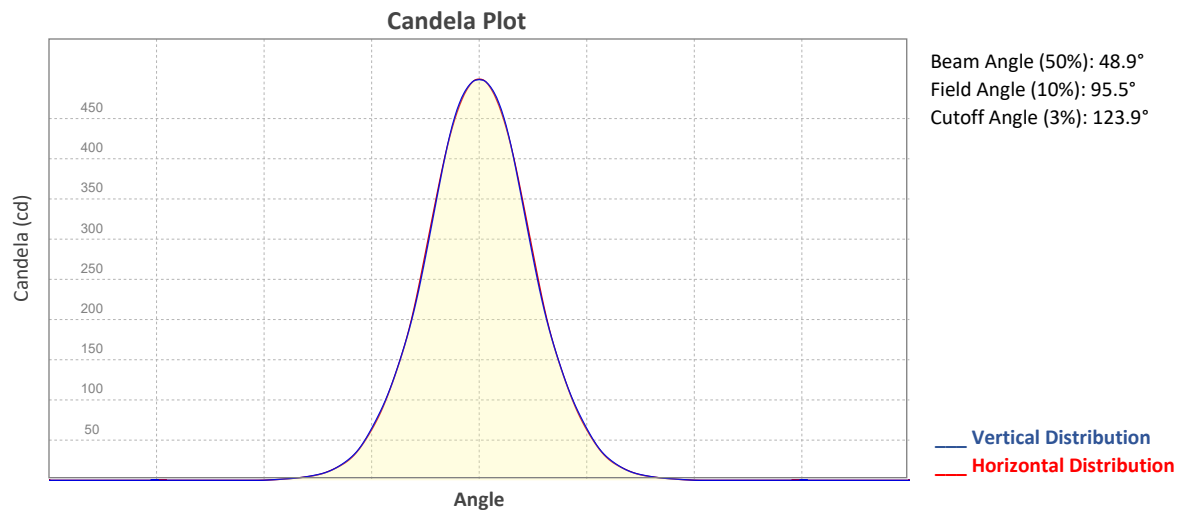
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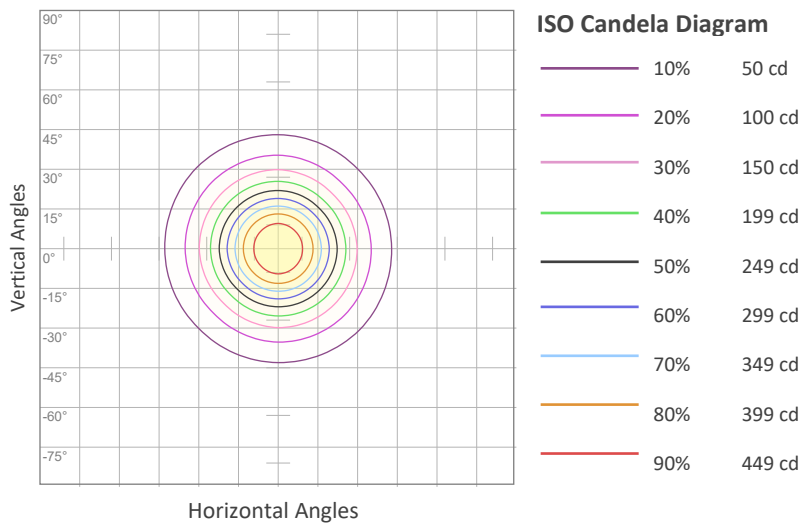
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Photometric & Chromaticity Report

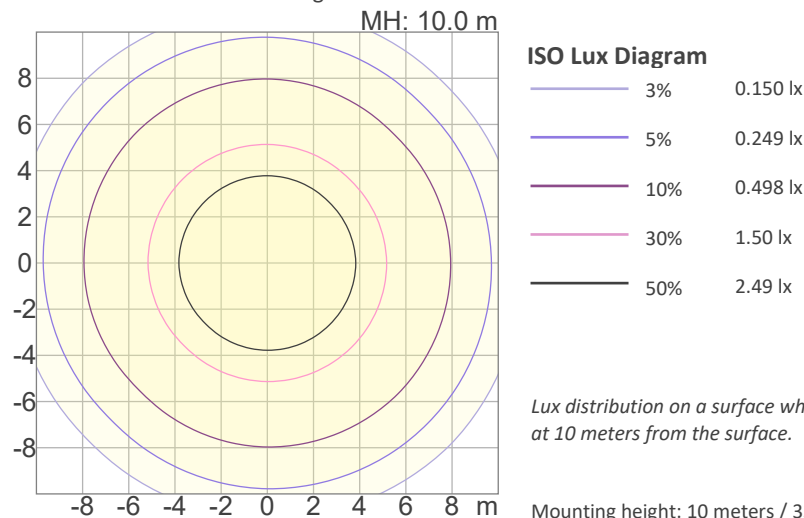
Logic AR111 Downlight M: Medium Filter Lens - 4000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 498 cd



Conditions:
Number of c-planes: 8
Candela at center: 4.98 lx

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

Mounting height: 10 meters / 33 feet

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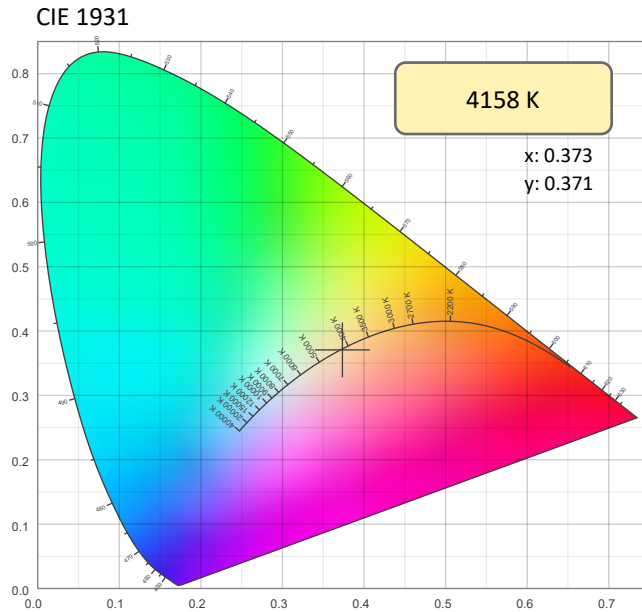
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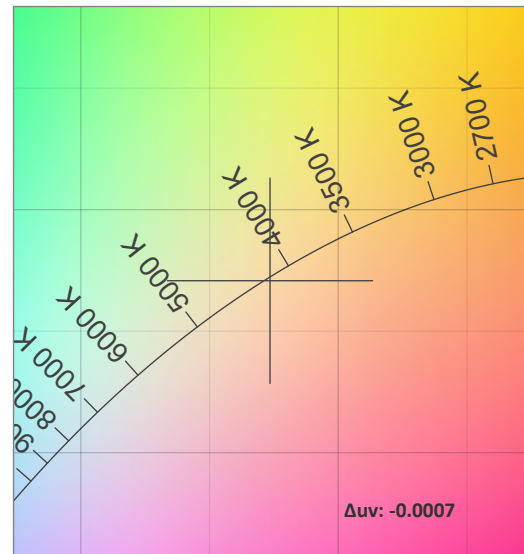
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

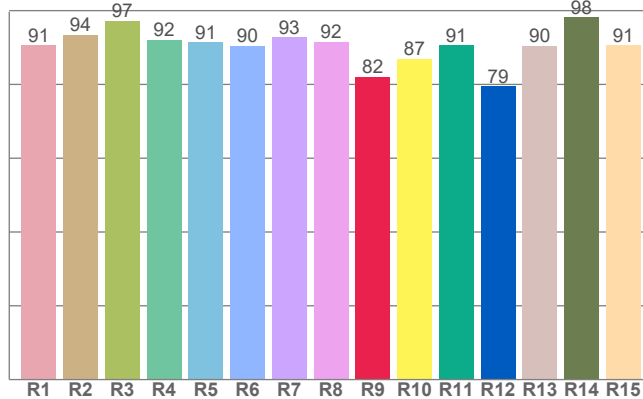
Chromaticity



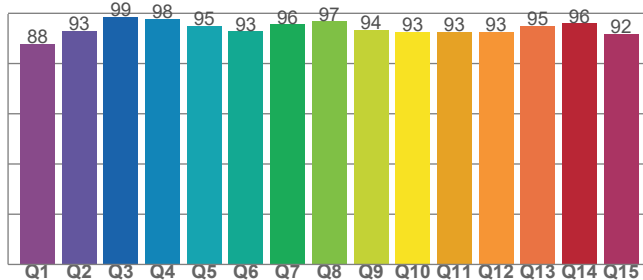
CIE 1931 - Zoom



CRI: 92.4 (R1-R8)



CQS: 93.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4158 K	0.373	0.371

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.371	0.223

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.4	82.0	93.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	89.6	98.4

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

TM-30 Details

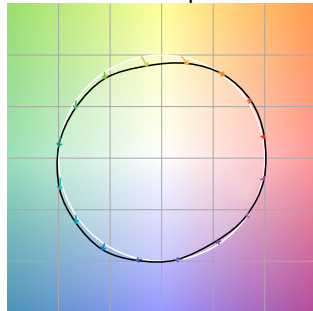
Rf 89.6

Fidelity Index
(Rg)

Rg 98.4

Gamut Index (Rg)

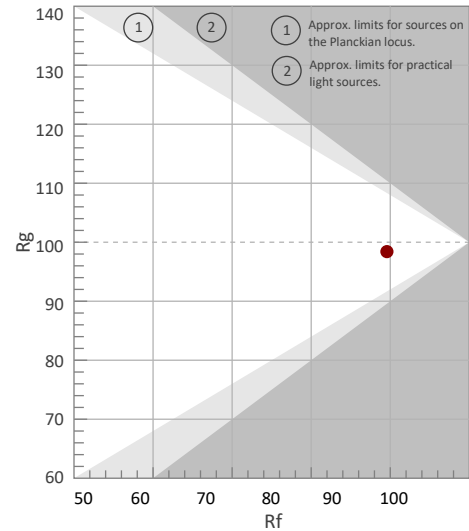
Color Vector Graphic



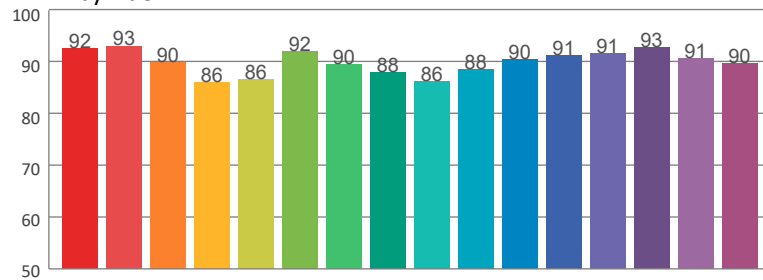
Color Distortion Graphic



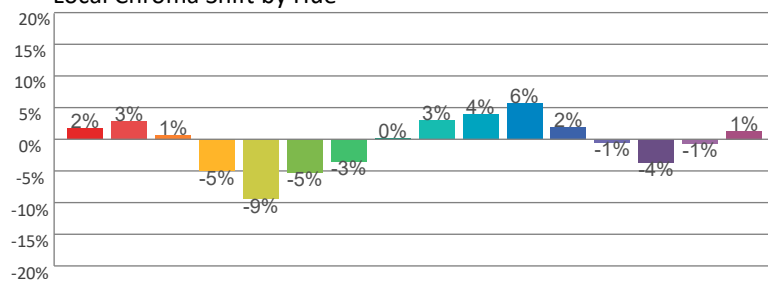
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	2%
2	93	3%	-2%
3	90	1%	-5%
4	86	-5%	-7%
5	86	-9%	-4%
6	92	-5%	2%
7	90	-3%	6%
8	88	0%	8%
9	86	3%	10%
10	88	4%	6%
11	90	6%	1%
12	91	2%	-5%
13	91	-1%	-6%
14	93	-4%	1%
15	91	-1%	-1%
16	90	1%	-1%



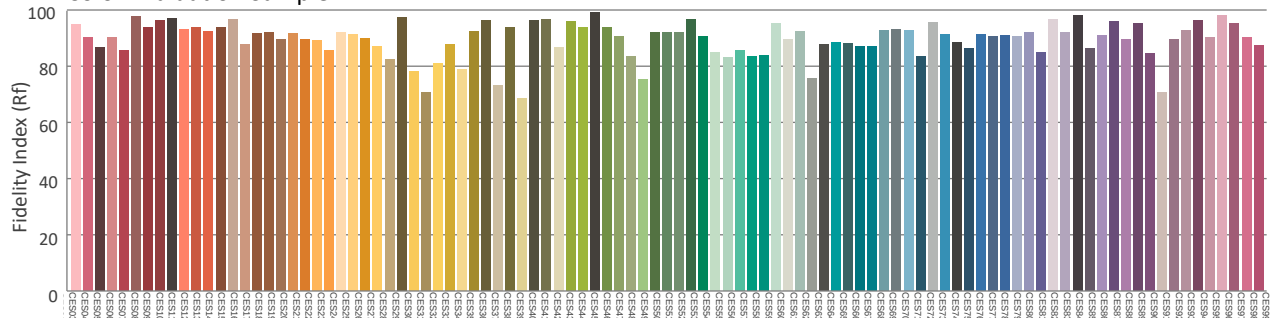
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

Report Summary

Measurements

Fixture Output: 449 lm

Fixture Peak: 515 cd

Fixture Efficacy: 20 lm/W

Intensity @ 5m: 21 lux

Color Temperature: 4700 K

CRI: 88.3 CRI R9 Value: 68.0

CQS: 90.3

TLCI: 95

TM-30 Rf: 87.0

TM-30 Rg: 98.1

Beam Angle (50%): 49°

Field Angle (10%): 95.6°

Cutoff Angle (3%): 124.1°

Conditions

AC Supply: 119 V, 60 Hz

Power: 24.75 W

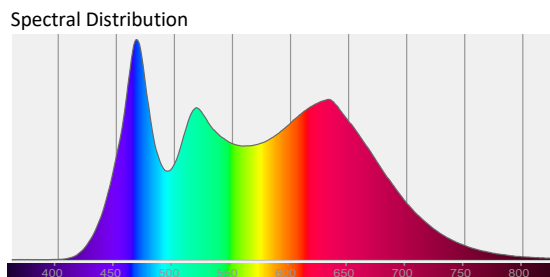
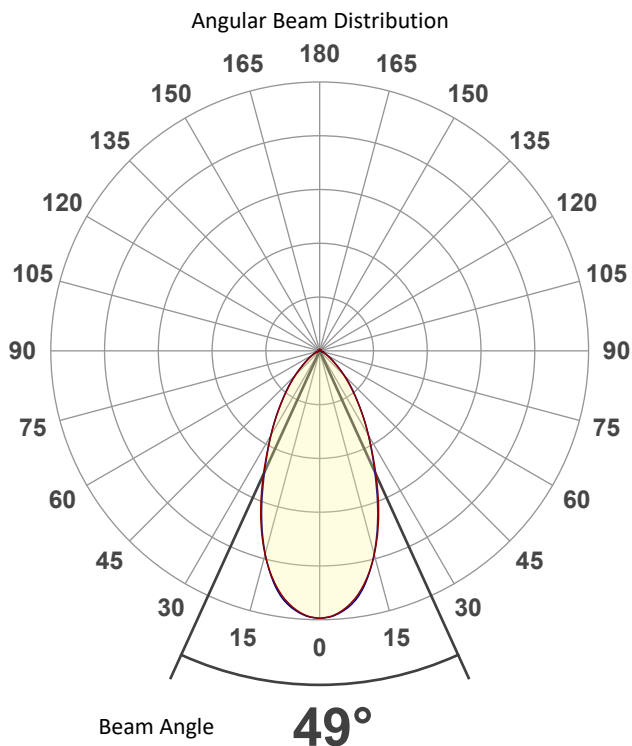
Current: 0.208 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

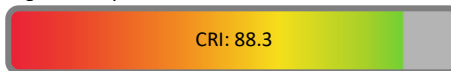
X: 0.354

Y: 0.356



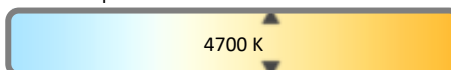
Light Quality

CRI: 88.3



Color Temperature

4700 K



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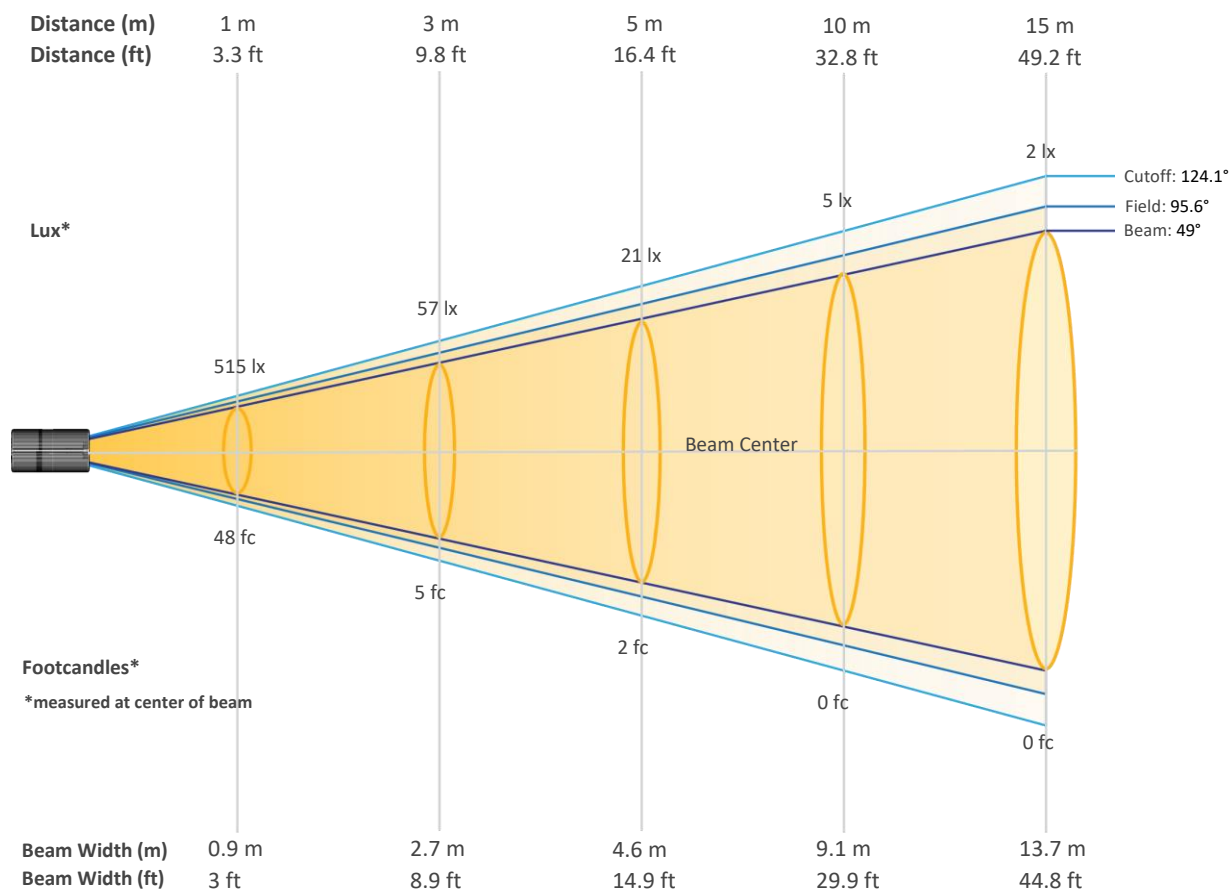
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	515	129	57	32	21	14	11	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	4	3	3	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	48	12	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

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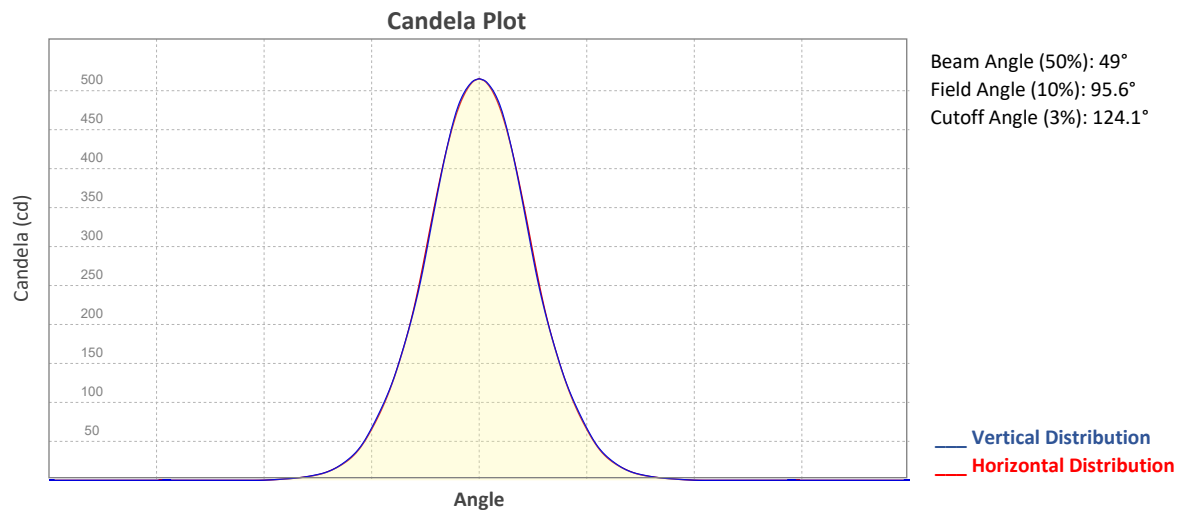
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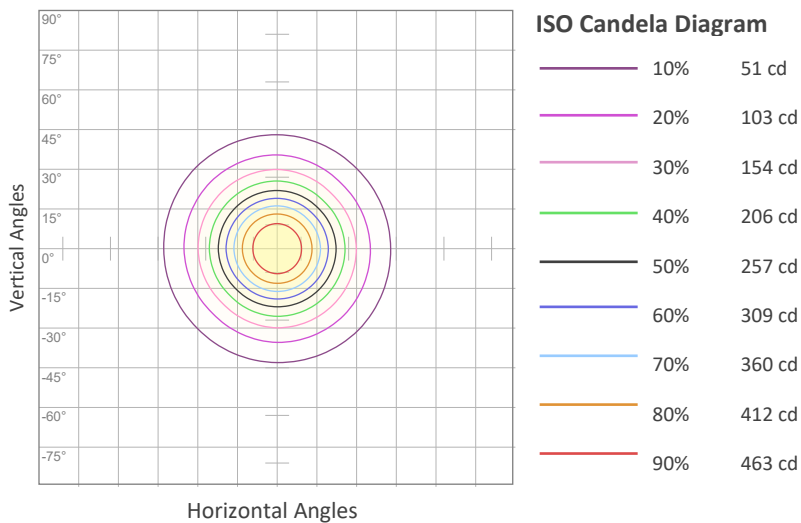
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Photometric & Chromaticity Report

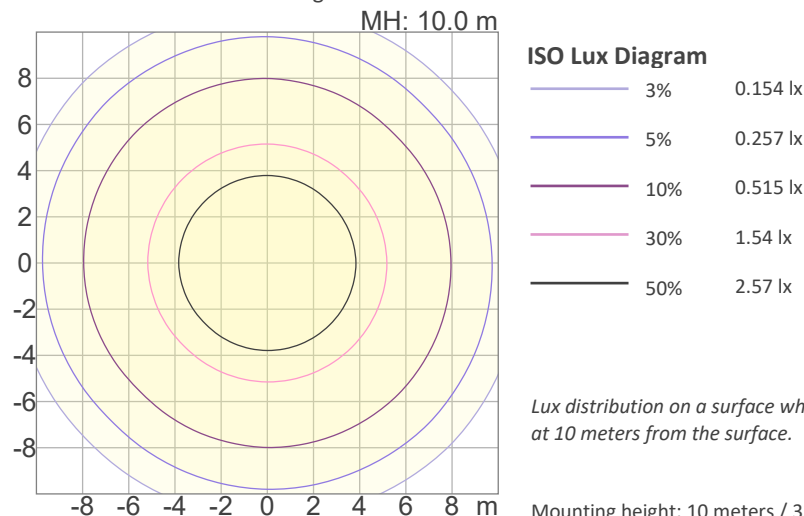
Logic AR111 Downlight M: Medium Filter Lens - 4500K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 515 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.15 lx

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

Mounting height: 10 meters / 33 feet

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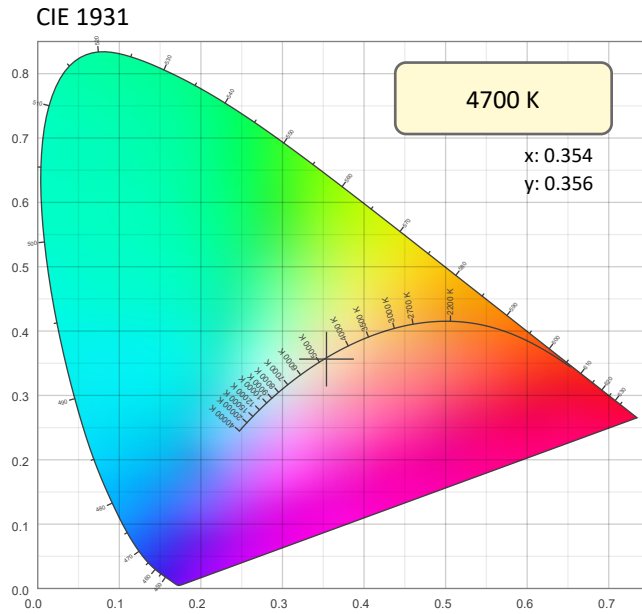
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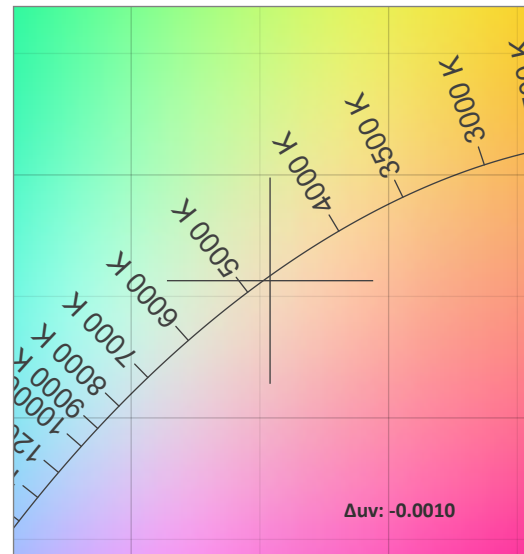
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

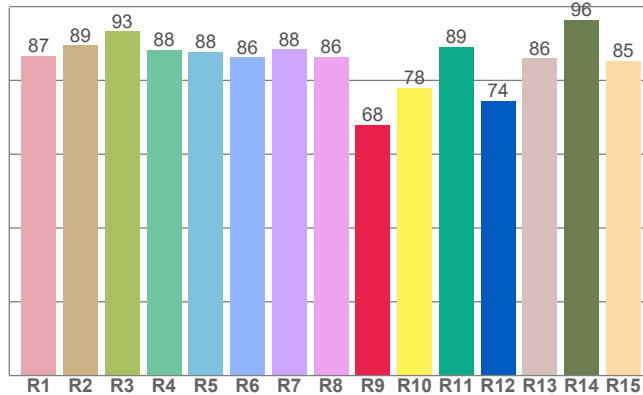
Chromaticity



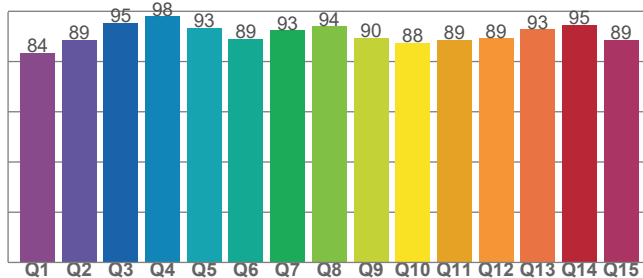
CIE 1931 - Zoom



CRI: 88.3 (R1-R8)



CQS: 90.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4700 K	0.354	0.356

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.356	0.216

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.3	68.0	90.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
95	87.0	98.1

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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

TM-30 Details

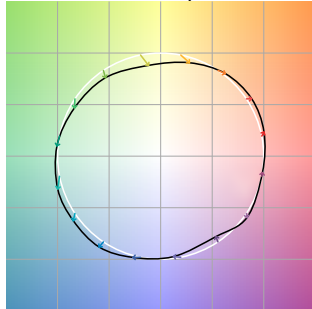
Rf 87.0

Fidelity Index
(R_f)

Rg 98.1

Gamut Index (R_g)

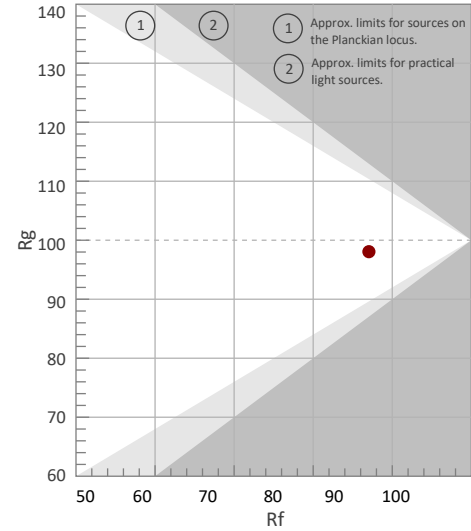
Color Vector Graphic



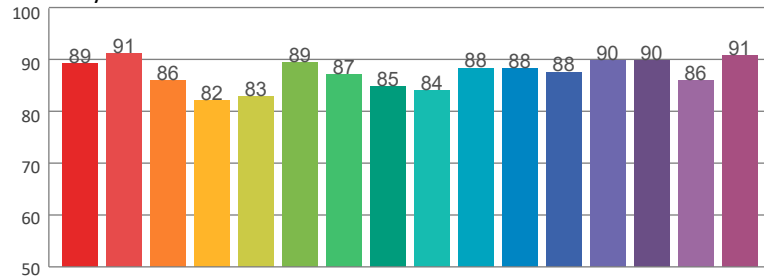
Color Distortion Graphic



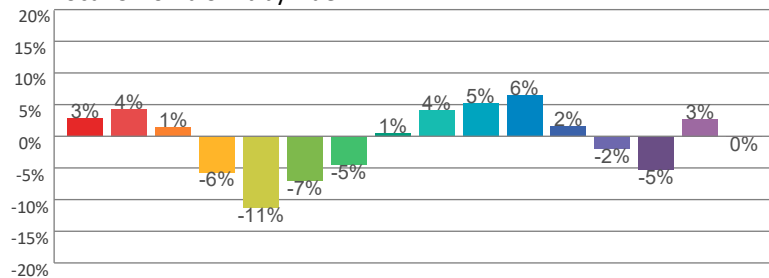
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	89	3%	3%
2	91	4%	-3%
3	86	1%	-8%
4	82	-6%	-10%
5	83	-11%	-6%
6	89	-7%	2%
7	87	-5%	7%
8	85	1%	10%
9	84	4%	12%
10	88	5%	5%
11	88	6%	-1%
12	88	2%	-7%
13	90	-2%	-7%
14	90	-5%	1%
15	86	3%	-3%
16	91	0%	4%



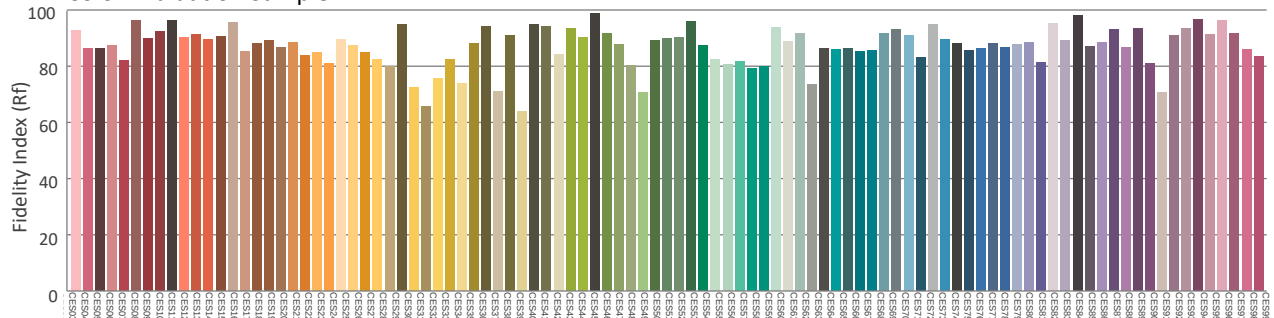
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

Report Summary

Measurements

Fixture Output: 475 lm

Fixture Peak: 544 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 22 lux

Color Temperature: 5332 K

CRI: 82.8 CRI R9 Value: 43.1

CQS: 88.4

TLCI: 87

TM-30 Rf: 83.0

TM-30 Rg: 97.9

Beam Angle (50%): 49.2°

Field Angle (10%): 95.8°

Cutoff Angle (3%): 124.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 25.54 W

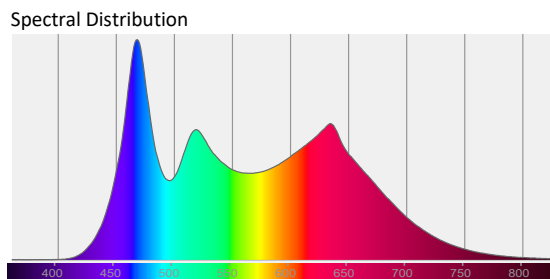
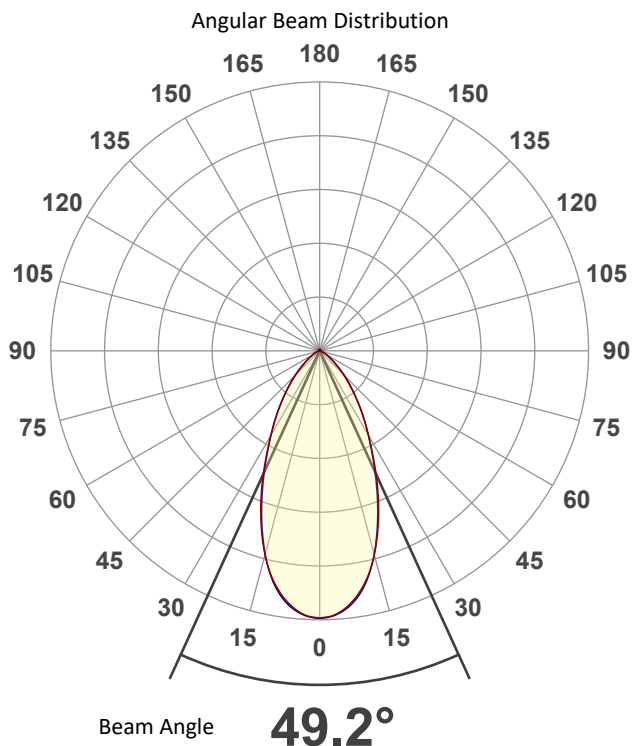
Current: 0.214 A

Power Factor: 0.9



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.336

Y: 0.341



Light Quality

CRI: 82.8

Color Temperature

5332 K

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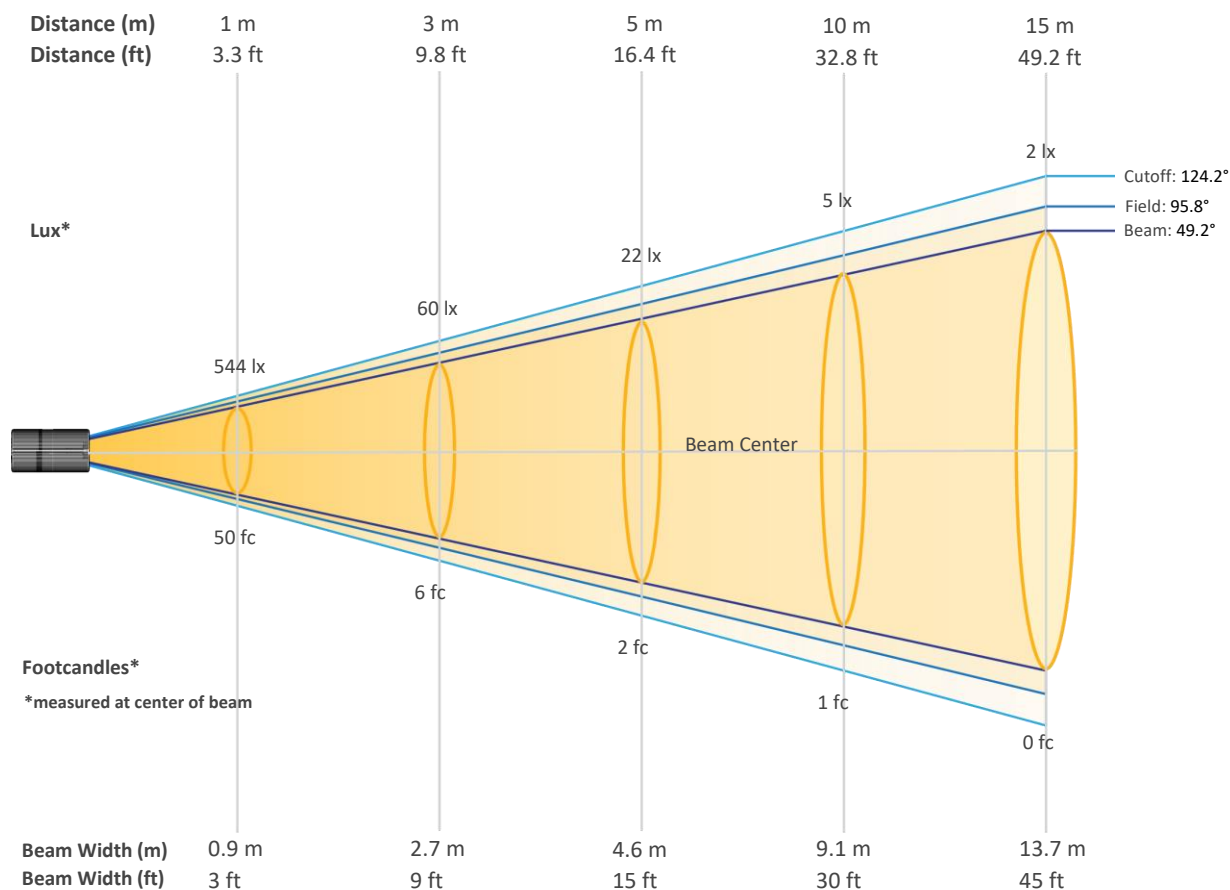
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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	544	136	60	34	22	15	11	8	7	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	4	3	3	2	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	50	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

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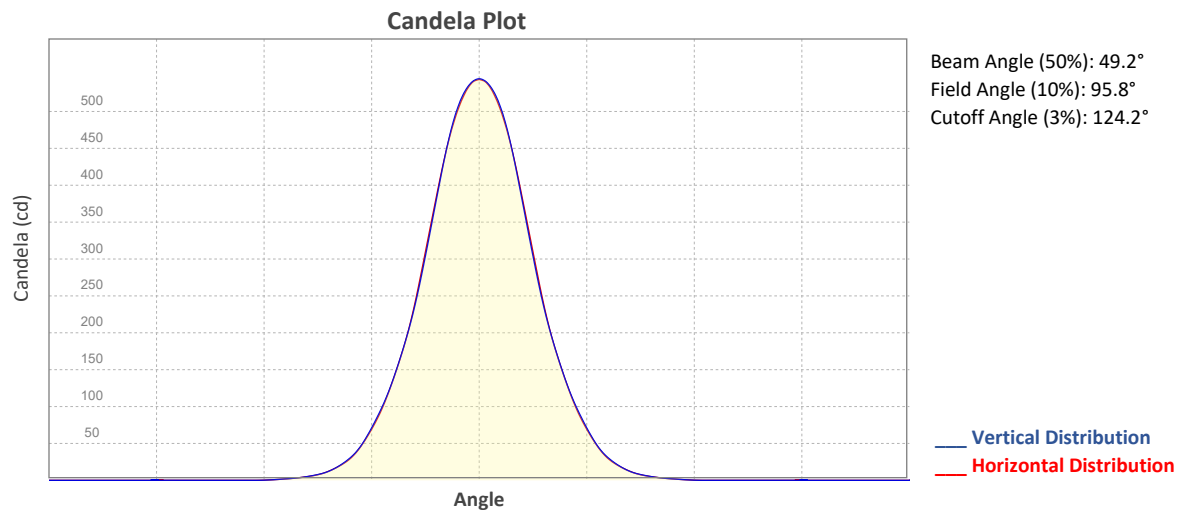
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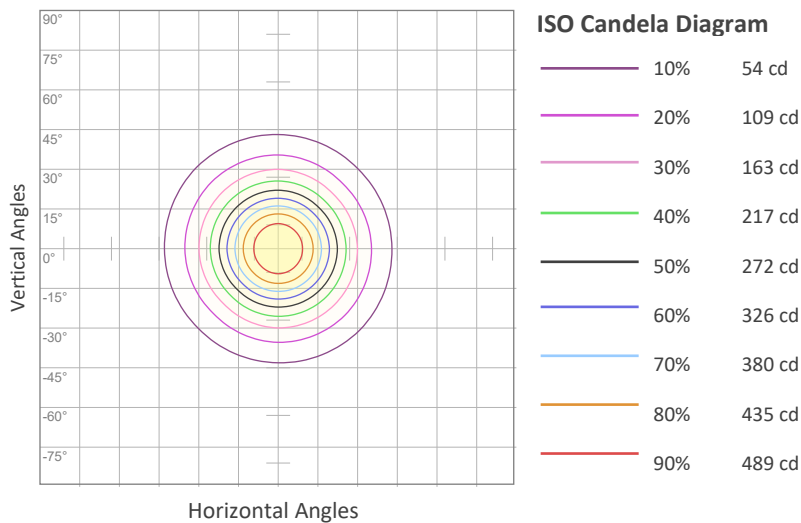
ILUMINARC

Photometric & Chromaticity Report

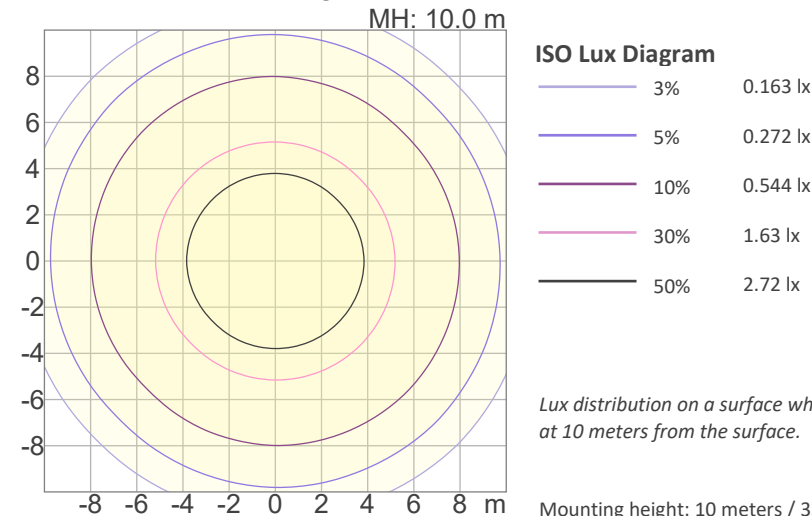
Logic AR111 Downlight M: Medium Filter Lens - 5000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 544 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.44 lx

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

Mounting height: 10 meters / 33 feet

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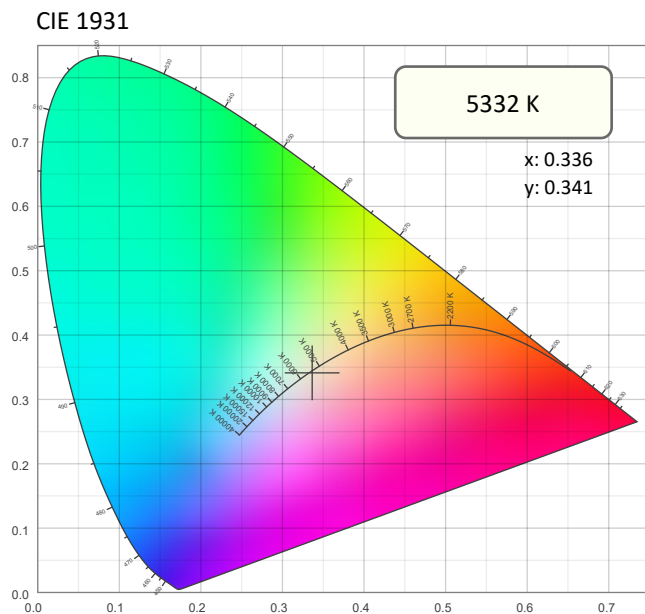
All product specifications, measurements and dimensions are subject to change without notice

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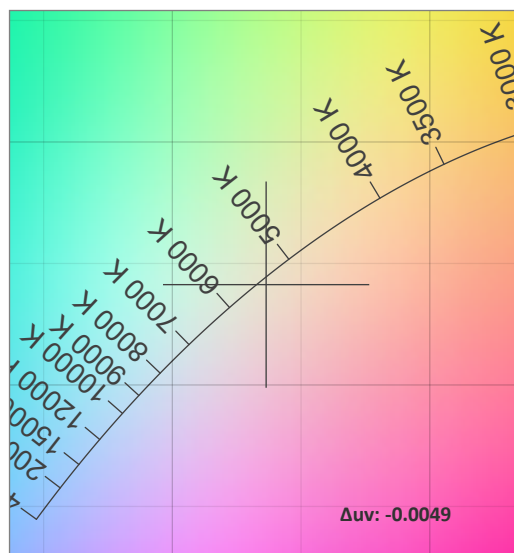
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

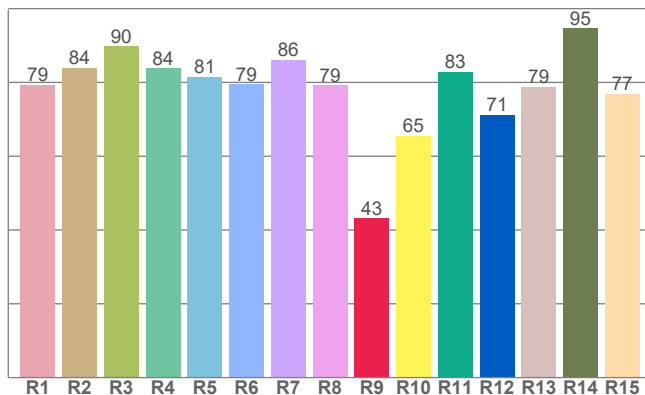
Chromaticity



CIE 1931 - Zoom



CRI: 82.8 (R1-R8)

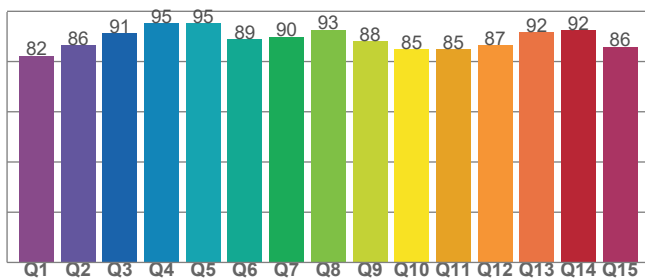


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5332 K	0.336	0.341

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0049	0.341	0.210

CQS: 88.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
82.8	43.1	88.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	83.0	97.9

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

TM-30 Details

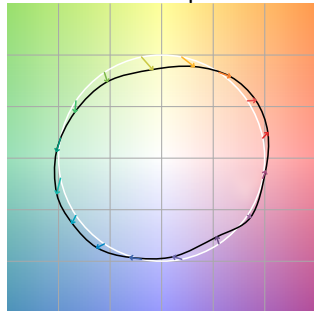
Rf 83.0

Fidelity Index
(Rg)

Rg 97.9

Gamut Index (Rg)

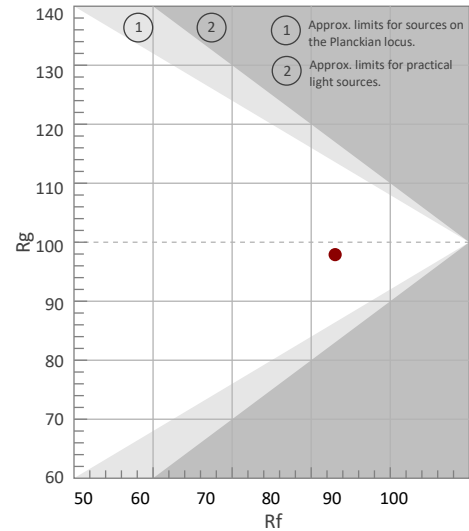
Color Vector Graphic



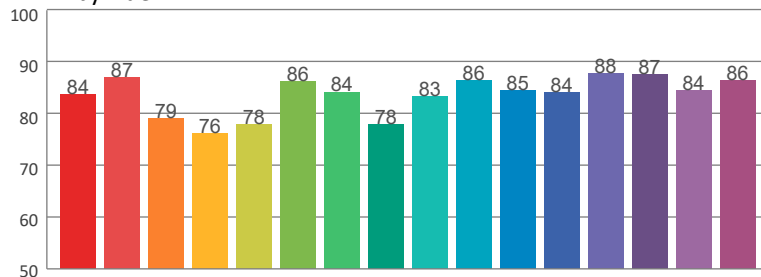
Color Distortion Graphic



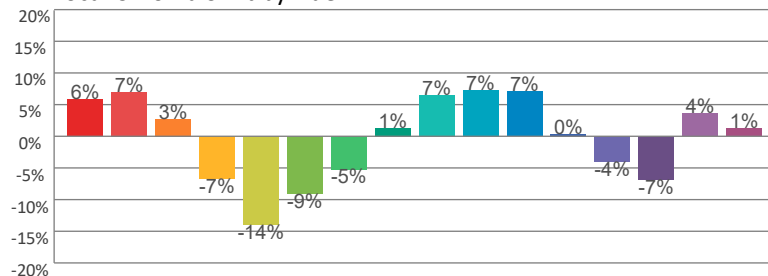
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	84	6%	4%
2	87	7%	-4%
3	79	3%	-11%
4	76	-7%	-13%
5	78	-14%	-8%
6	86	-9%	3%
7	84	-5%	9%
8	78	1%	13%
9	83	7%	14%
10	86	7%	4%
11	85	7%	-4%
12	84	0%	-11%
13	88	-4%	-8%
14	87	-7%	2%
15	84	4%	0%
16	86	1%	7%



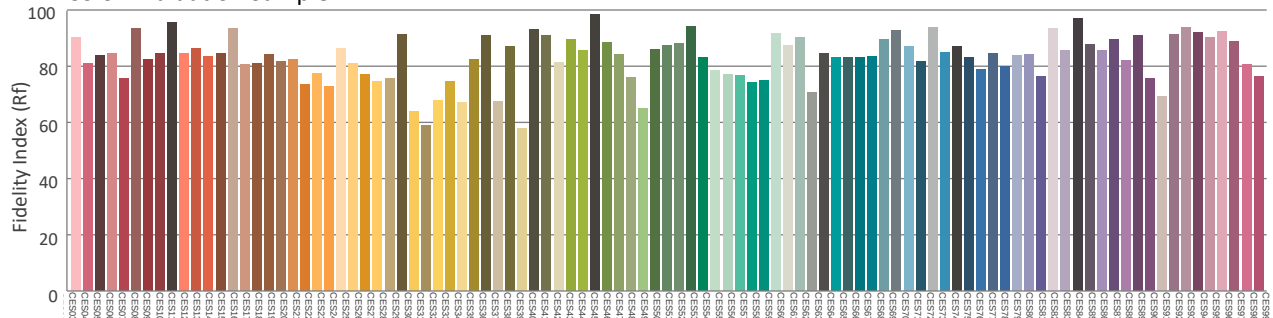
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

Report Summary

Measurements

Fixture Output: 498 lm

Fixture Peak: 568 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 23 lux

Color Temperature: 6284 K

CRI: 78.9 CRI R9 Value: 27.6

CQS: 84.4

TLCI: 81

TM-30 Rf: 78.8

TM-30 Rg: 96.2

Beam Angle (50%): 49.2°

Field Angle (10%): 95.8°

Cutoff Angle (3%): 124.3°

Conditions

AC Supply: 119 V, 60 Hz

Power: 26.2 W

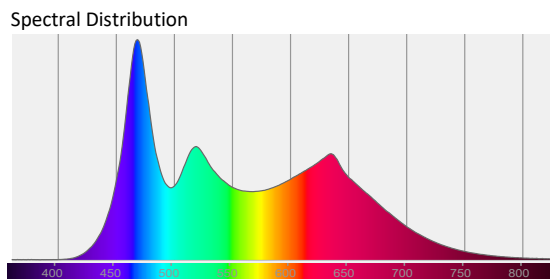
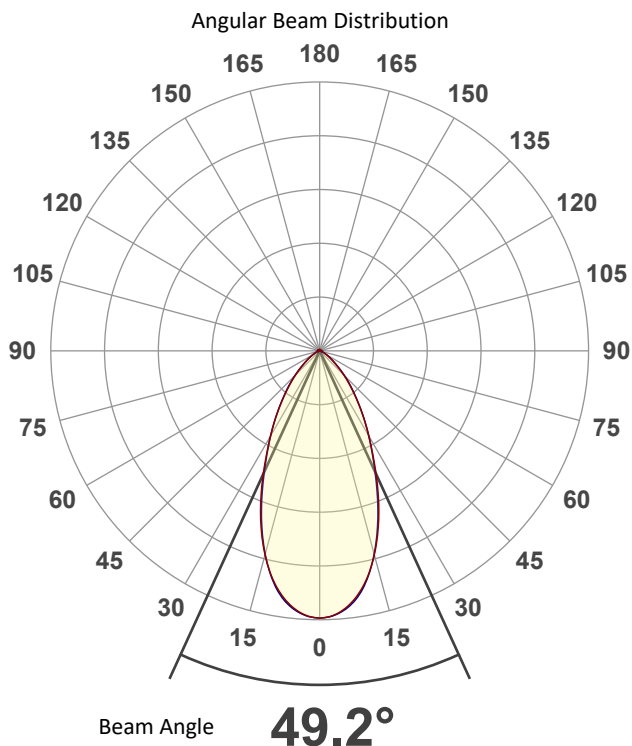
Current: 0.220 A

Power Factor: 0.91



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 5/20/2022 to LM-63-2002 Standards.

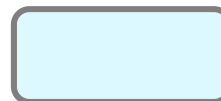
Overall Measurement



Tested Color (CIE 1931):

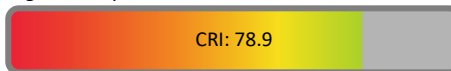
X: 0.317

Y: 0.326



Light Quality

CRI: 78.9



Color Temperature

6284 K



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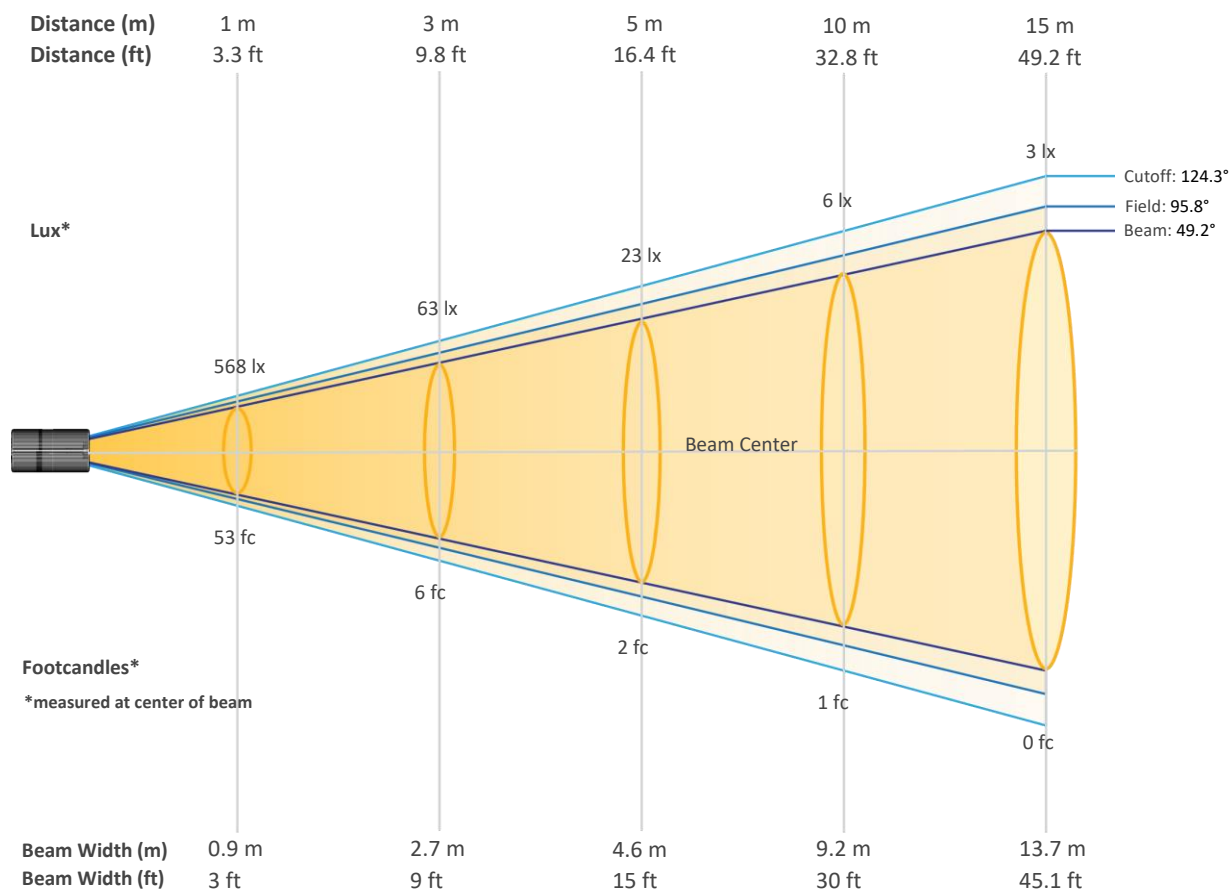
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	568	142	63	35	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	53	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

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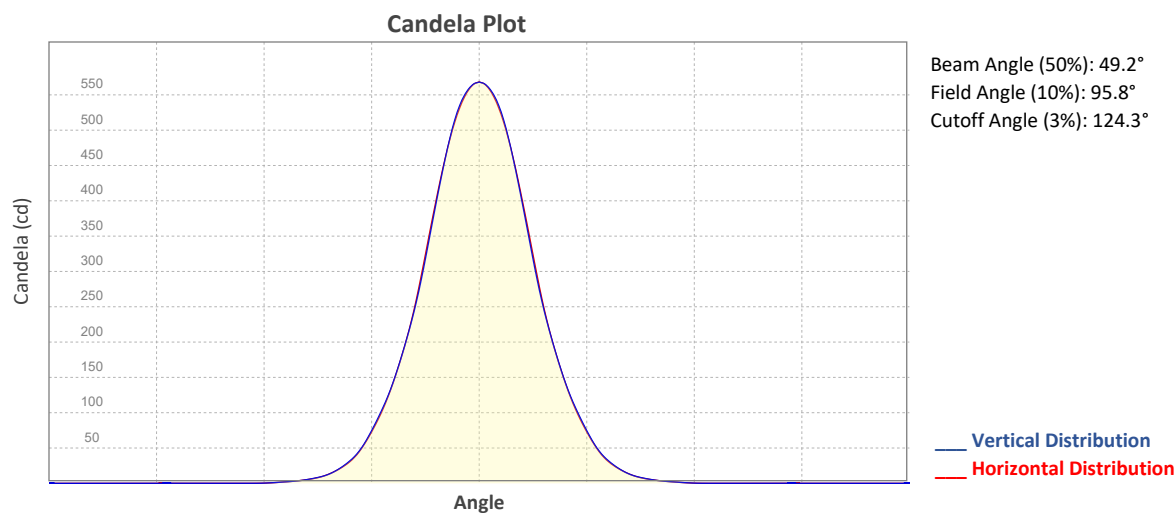
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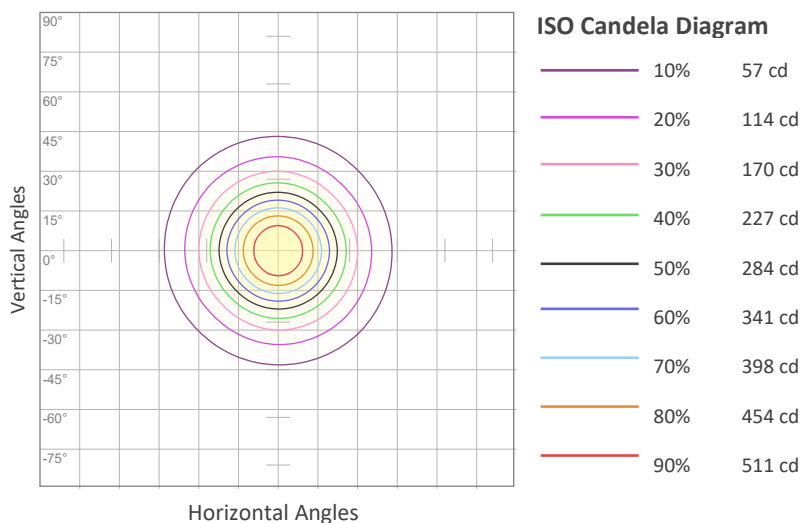
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Photometric & Chromaticity Report

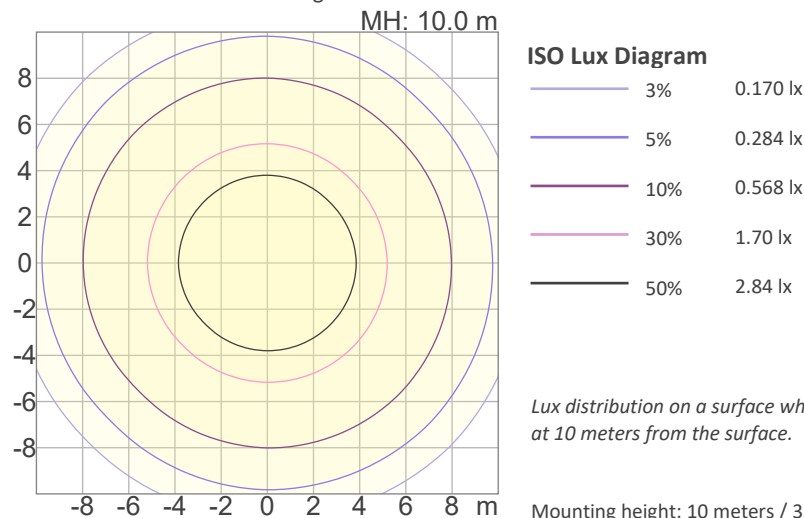
Logic AR111 Downlight M: Medium Filter Lens - 5600K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 568 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.68 lx

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

Mounting height: 10 meters / 33 feet

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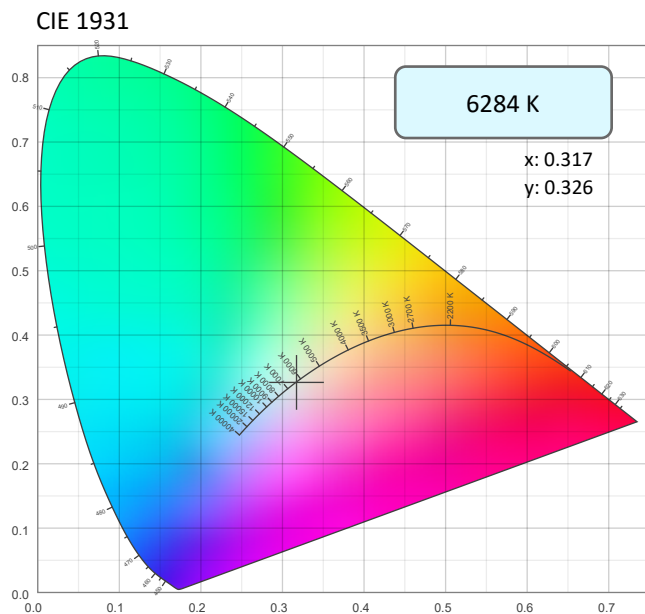
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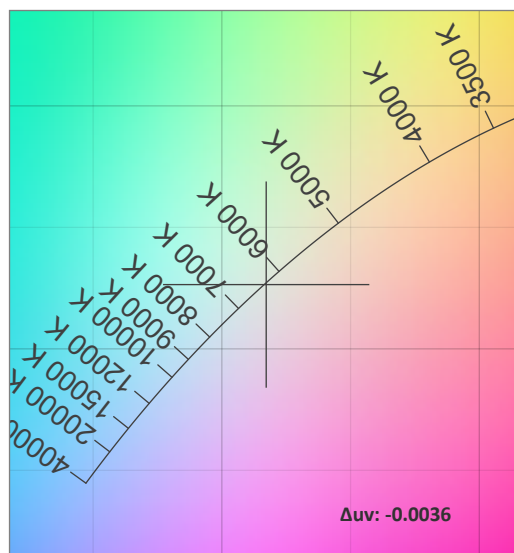
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

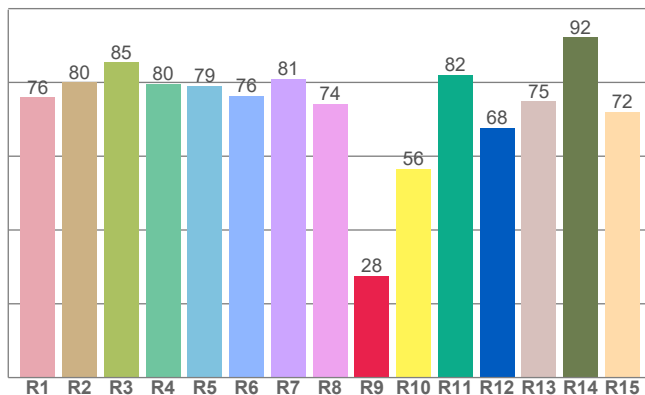
Chromaticity



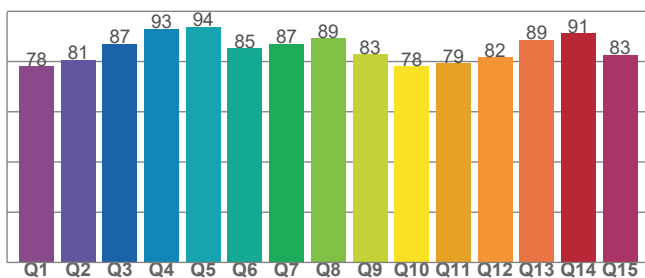
CIE 1931 - Zoom



CRI: 78.9 (R1-R8)



CQS: 84.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6284 K	0.317	0.326

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0036	0.326	0.202

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
78.9	27.6	84.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
81	78.8	96.2

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

TM-30 Details

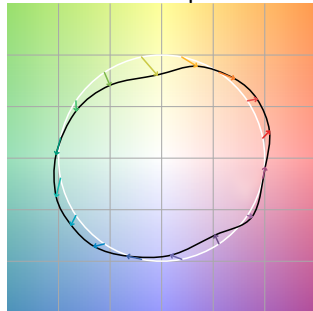
Rf 78.8

Fidelity Index
(Rg)

Rg 96.2

Gammut Index (Rg)

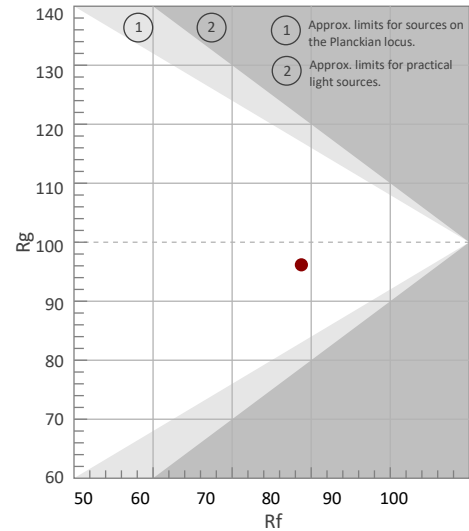
Color Vector Graphic



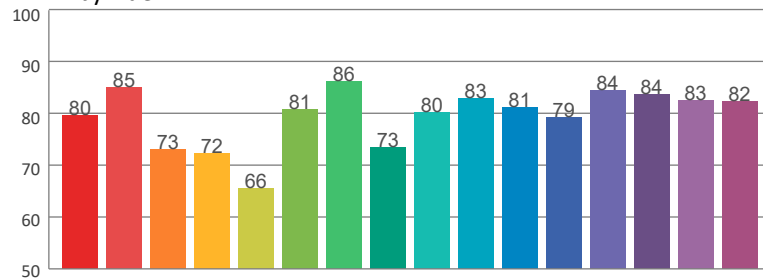
Color Distortion Graphic



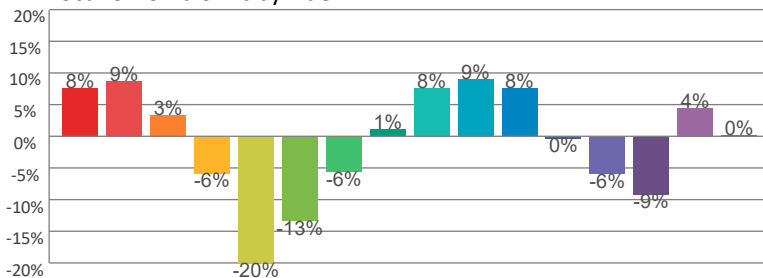
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	80	8%	5%
2	85	9%	-4%
3	73	3%	-16%
4	72	-6%	-16%
5	66	-20%	-11%
6	81	-13%	2%
7	86	-6%	8%
8	73	1%	16%
9	80	8%	16%
10	83	9%	5%
11	81	8%	-7%
12	79	0%	-14%
13	84	-6%	-10%
14	84	-9%	1%
15	83	4%	2%
16	82	0%	11%



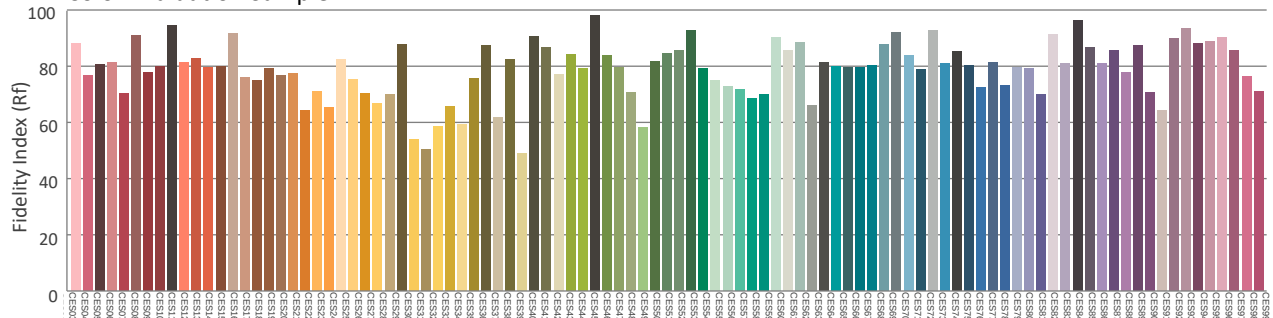
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

Report Summary

Measurements

Fixture Output: 504 lm

Fixture Peak: 575 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 23 lux

Color Temperature: 6749 K

CRI: 77.2 CRI R9 Value: 21.3

CQS: 82.9

TLCI: 79

TM-30 Rf: 77.0

TM-30 Rg: 95.6

Beam Angle (50%): 49.2°

Field Angle (10%): 95.8°

Cutoff Angle (3%): 124.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 26.44 W

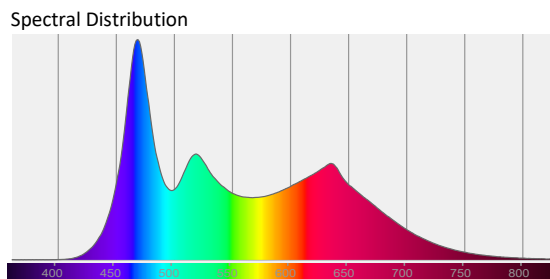
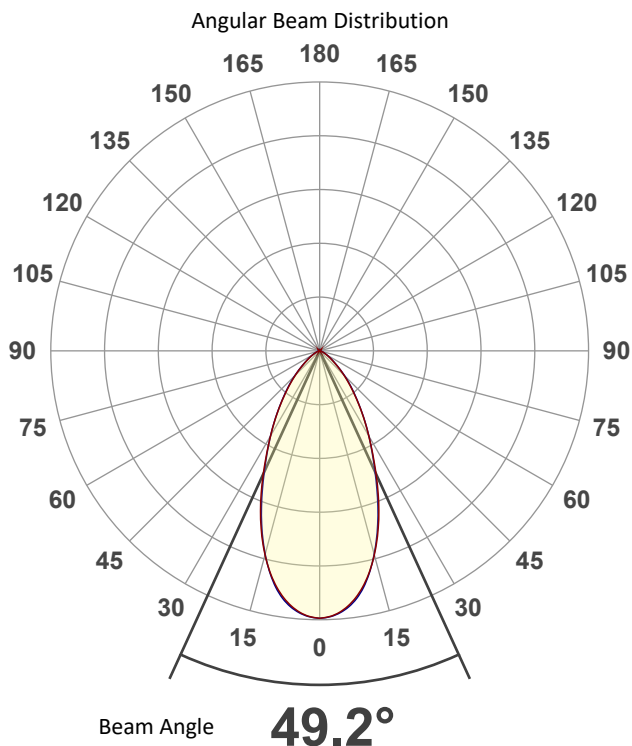
Current: 0.222 A

Power Factor: 0.91



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 5/20/2022 to LM-63-2002 Standards.

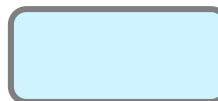
Overall Measurement



Tested Color (CIE 1931):

X: 0.310

Y: 0.319

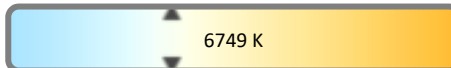


Light Quality

CRI: 77.2

Color Temperature

6749 K



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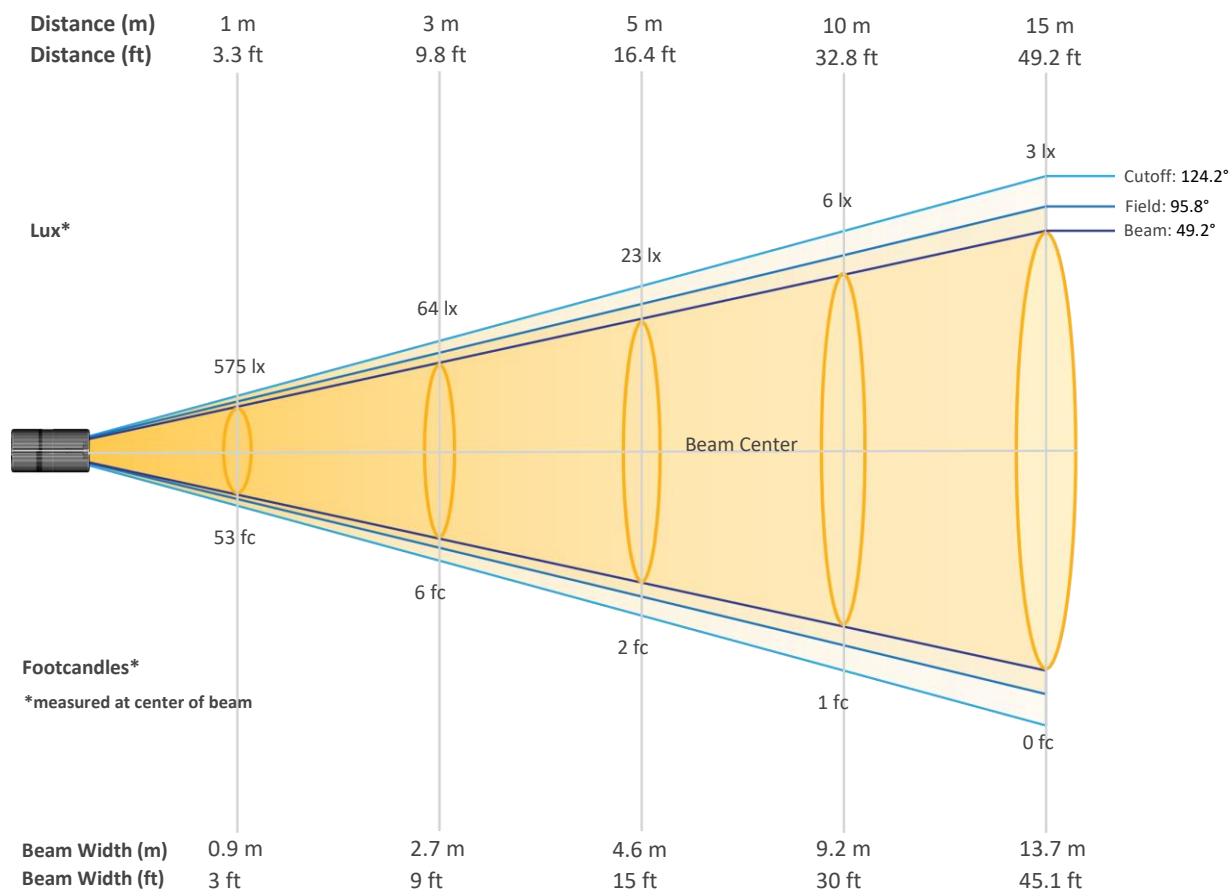
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	575	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	53	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

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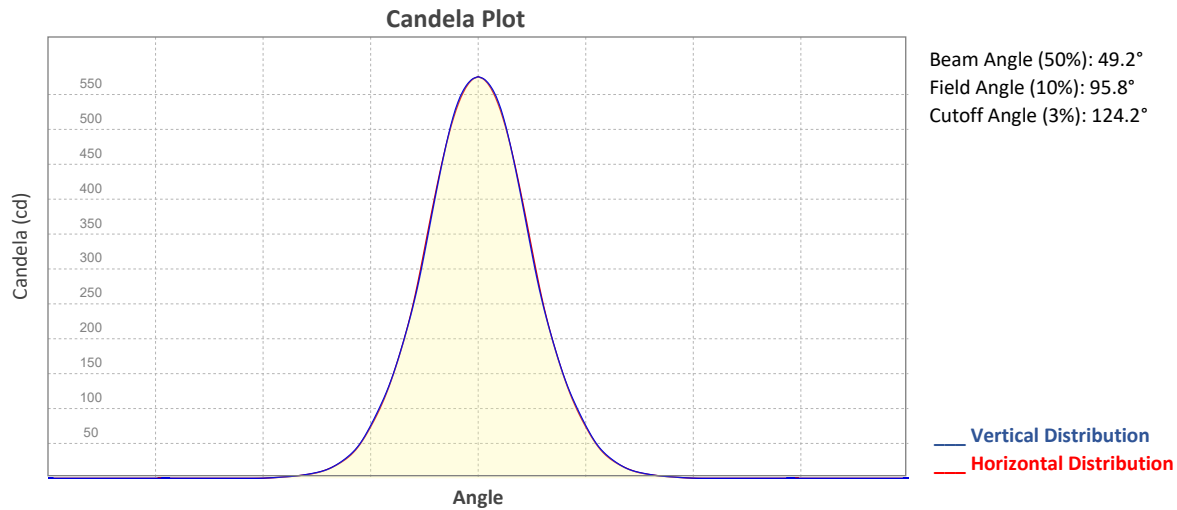
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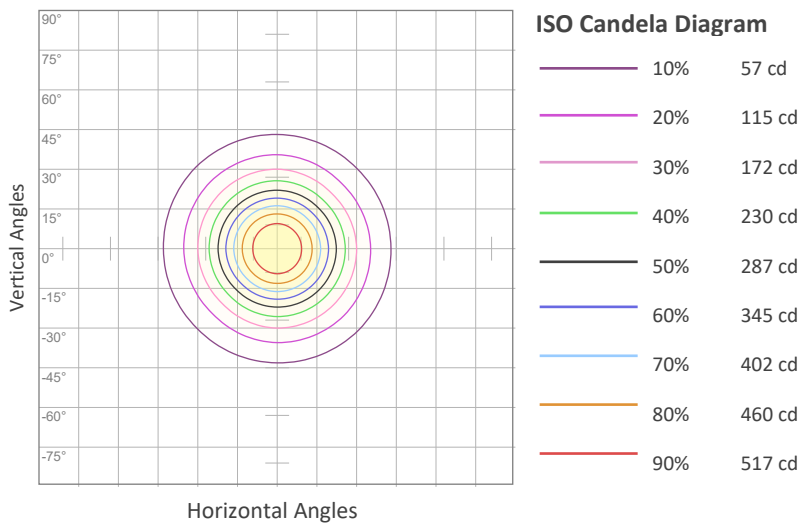
ILUMINARC

Photometric & Chromaticity Report

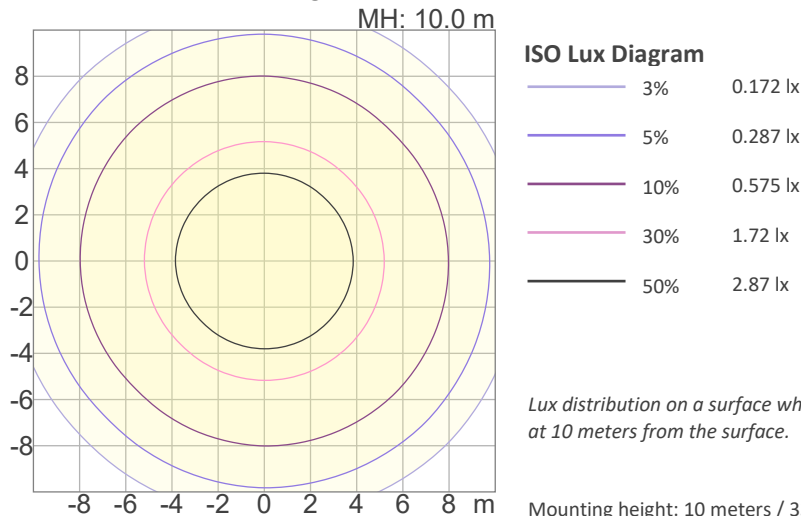
Logic AR111 Downlight M: Medium Filter Lens - 6000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 575 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.75 lx

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

Mounting height: 10 meters / 33 feet

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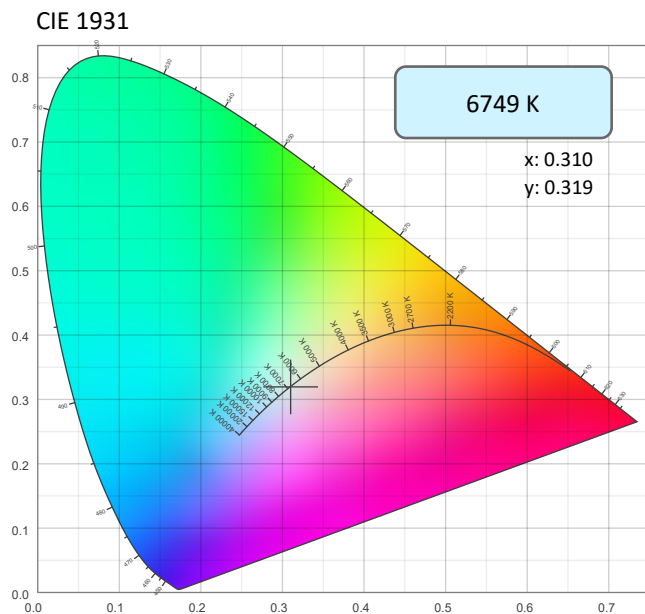
All product specifications, measurements and dimensions are subject to change without notice

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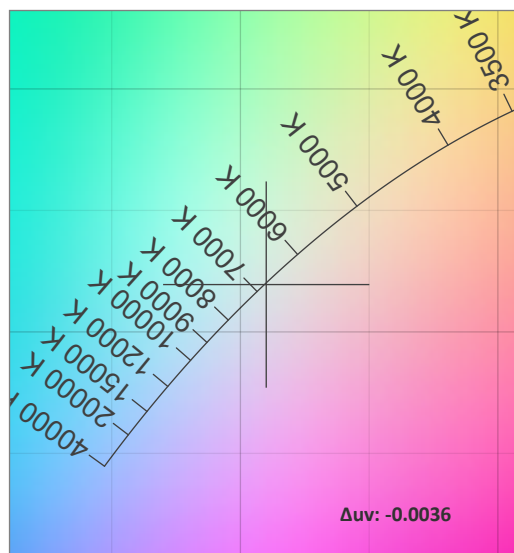
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

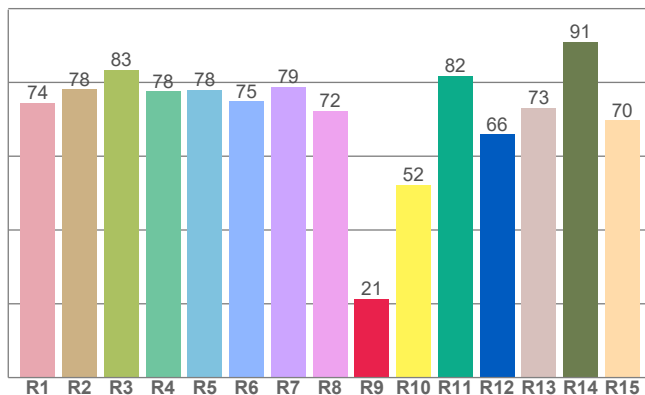
Chromaticity



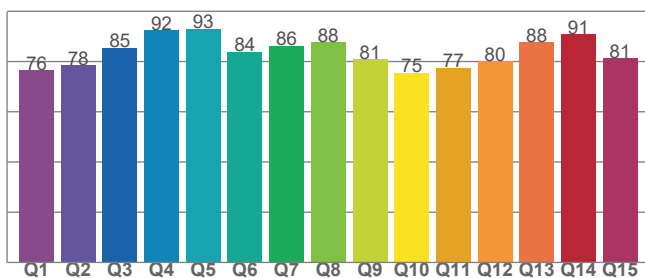
CIE 1931 - Zoom



CRI: 77.2 (R1-R8)



CQS: 82.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6749 K	0.310	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0036	0.319	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
77.2	21.3	82.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	77.0	95.6

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

TM-30 Details

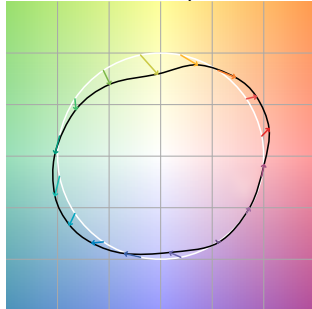
Rf 77.0

Fidelity Index
(Rg)

Rg 95.6

Gamut Index (Rg)

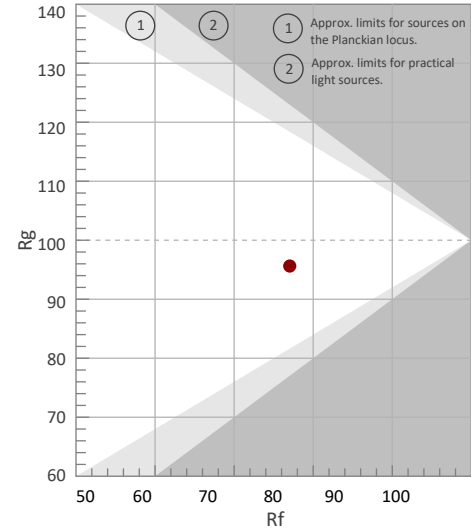
Color Vector Graphic



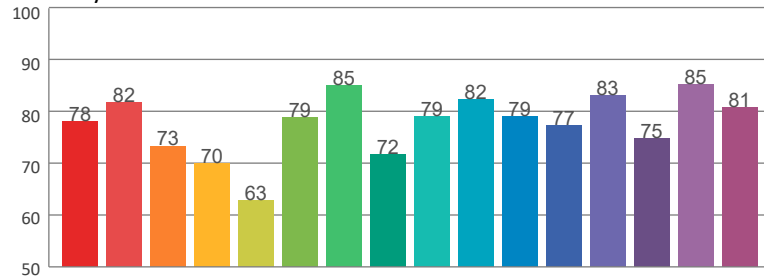
Color Distortion Graphic



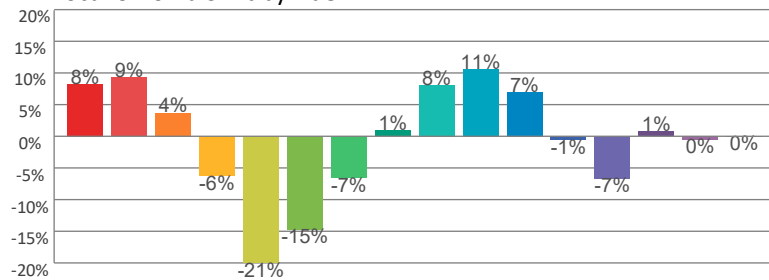
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	78	8%	6%
2	82	9%	-3%
3	73	4%	-17%
4	70	-6%	-18%
5	63	-21%	-13%
6	79	-15%	2%
7	85	-7%	8%
8	72	1%	17%
9	79	8%	17%
10	82	11%	6%
11	79	7%	-8%
12	77	-1%	-16%
13	83	-7%	-10%
14	75	1%	-1%
15	85	0%	6%
16	81	0%	12%



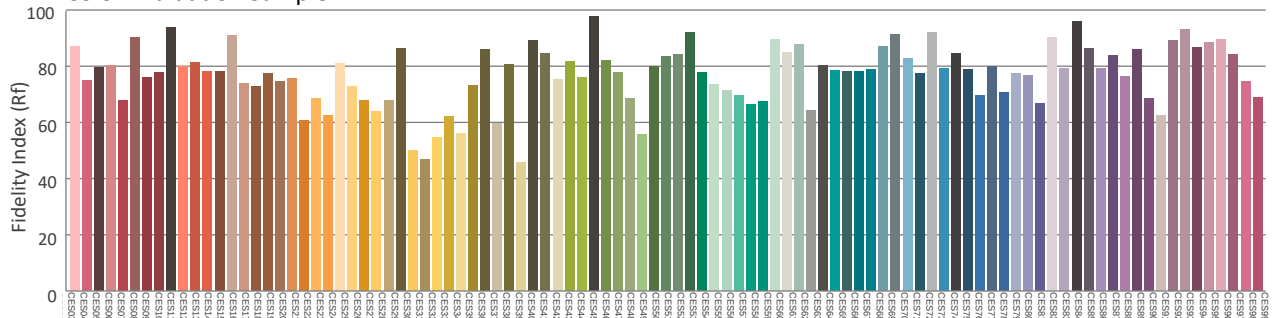
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

Report Summary

Measurements

Fixture Output: 508 lm

Fixture Peak: 580 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 23 lux

Color Temperature: 7476 K

CRI: 74.2 CRI R9 Value: 10.8

CQS: 81.0

TLCI: 76

TM-30 Rf: 74.6

TM-30 Rg: 94.1

Beam Angle (50%): 49.3°

Field Angle (10%): 95.9°

Cutoff Angle (3%): 124.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 26.64 W

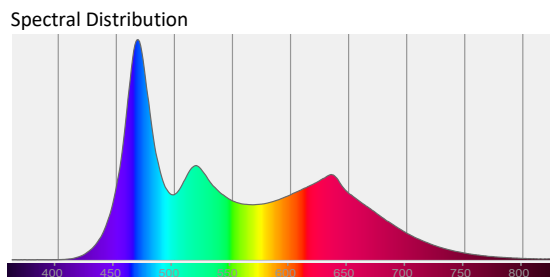
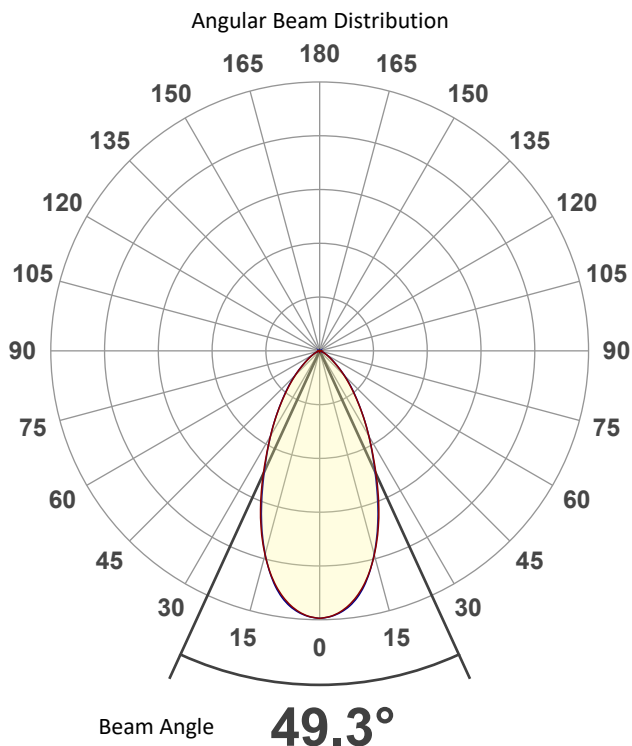
Current: 0.224 A

Power Factor: 0.91



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 5/20/2022 to LM-63-2002 Standards.

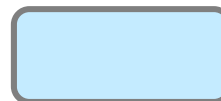
Overall Measurement



Tested Color (CIE 1931):

X: 0.301

Y: 0.309

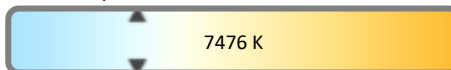


Light Quality

CRI: 74.2

Color Temperature

7476 K



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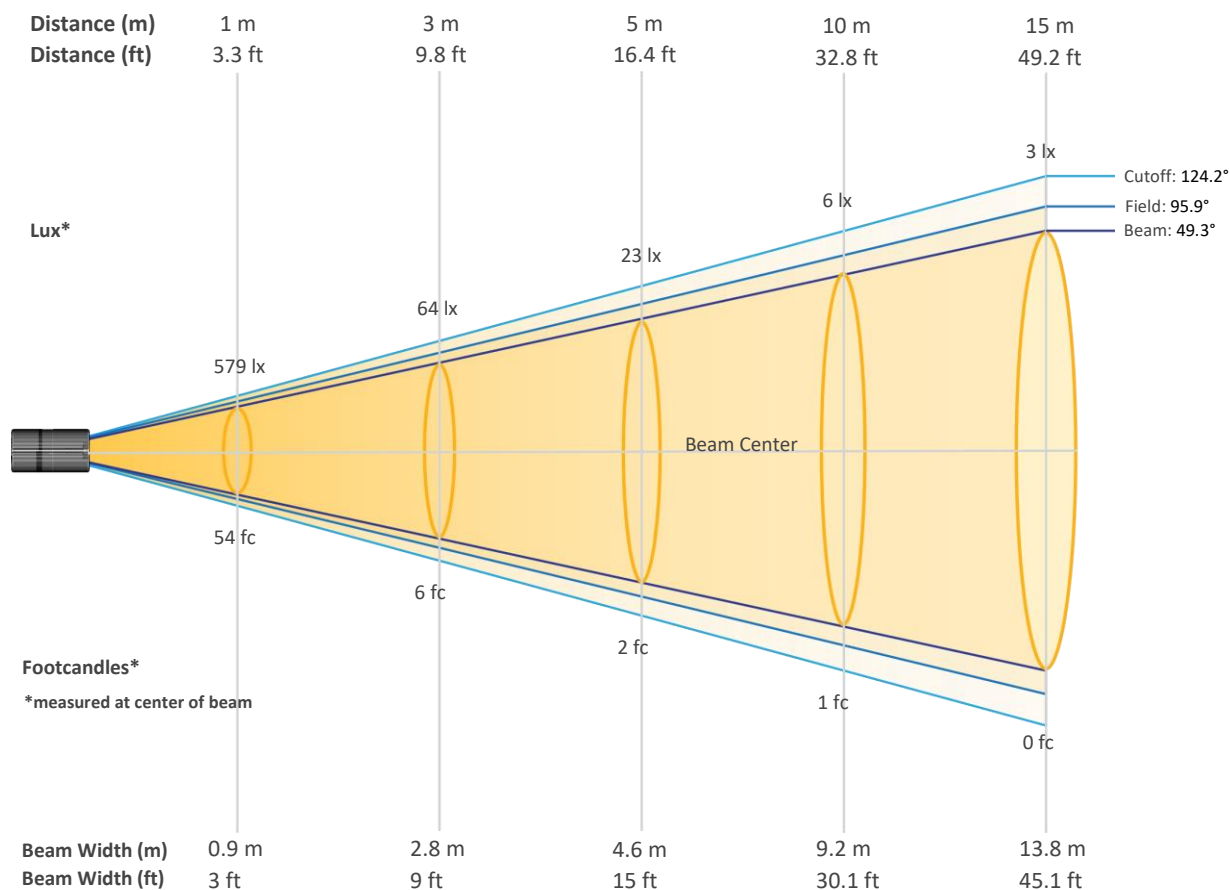
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	579	145	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

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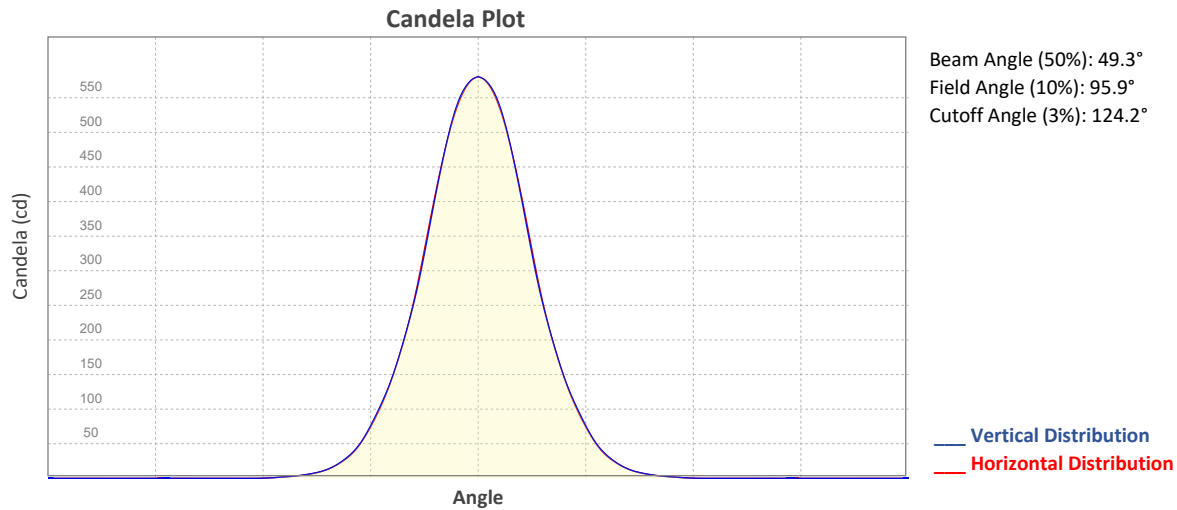
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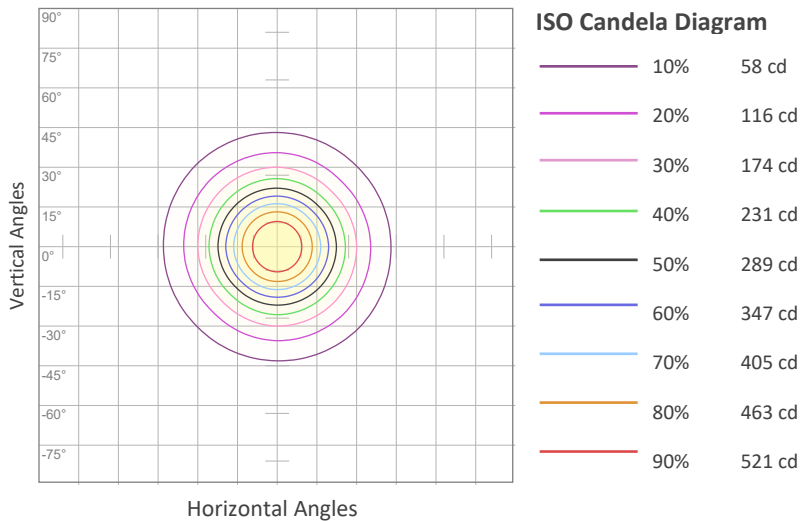
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Photometric & Chromaticity Report

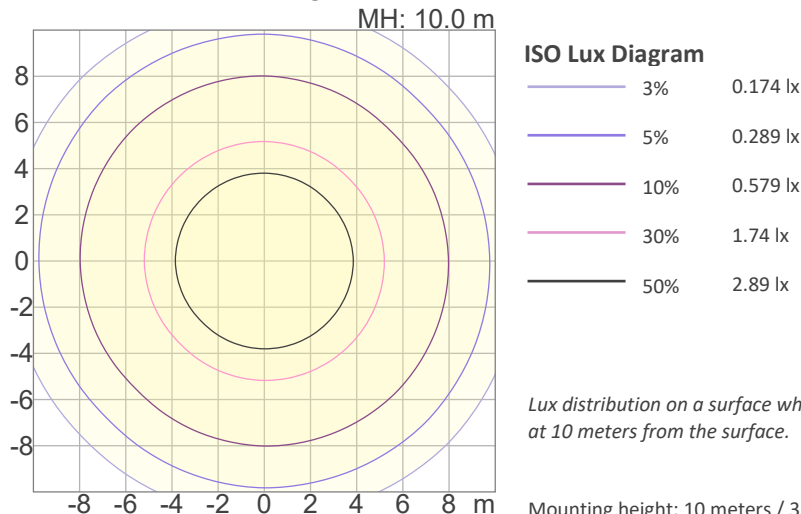
Logic AR111 Downlight M: Medium Filter Lens - 6500K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 579 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.79 lx

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

Mounting height: 10 meters / 33 feet

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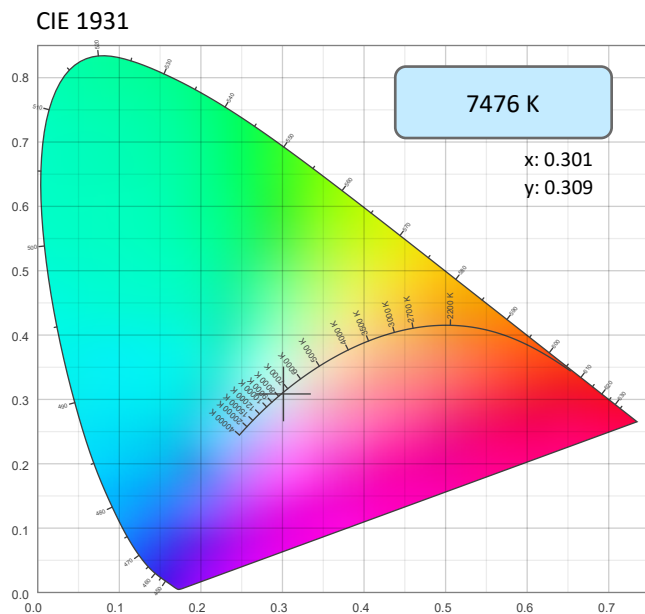
All product specifications, measurements and dimensions are subject to change without notice

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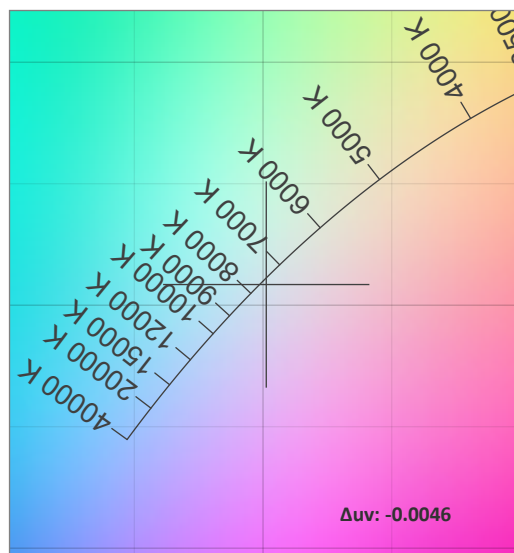
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

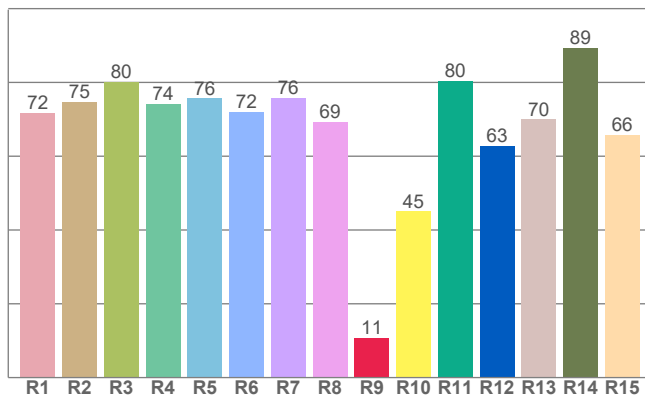
Chromaticity



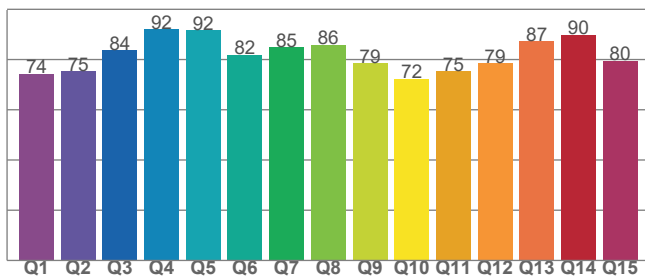
CIE 1931 - Zoom



CRI: 74.2 (R1-R8)



CQS: 81.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7476 K	0.301	0.309

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0046	0.309	0.198

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.2	10.8	81.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
76	74.6	94.1

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

TM-30 Details

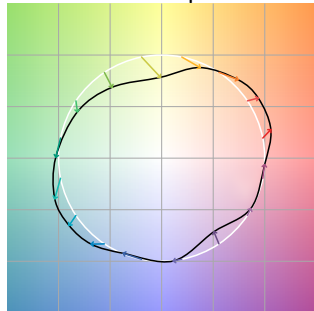
Rf 74.6

Fidelity Index
(Rg)

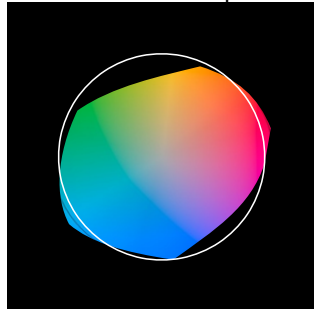
Rg 94.1

Gammut Index (Rg)

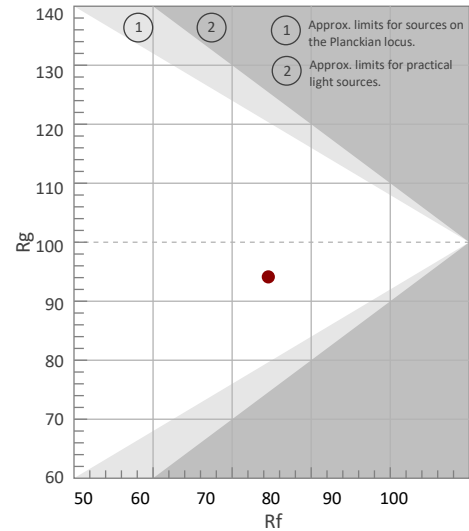
Color Vector Graphic



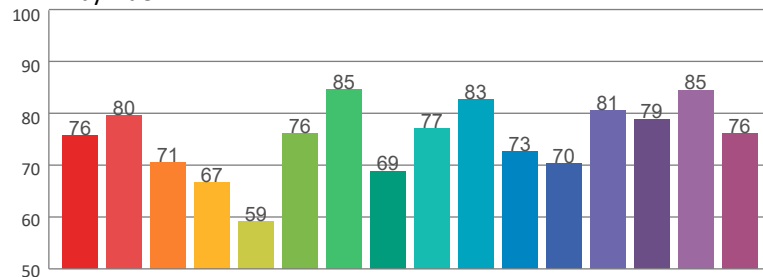
Color Distortion Graphic



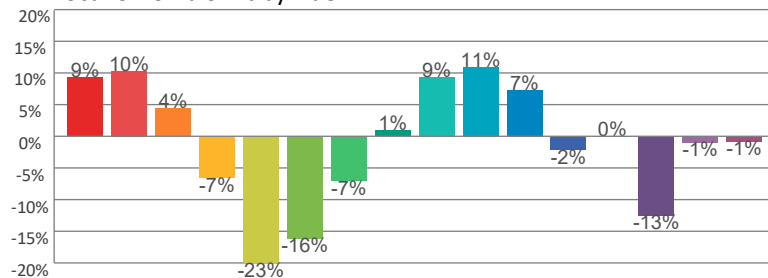
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	76	9%	7%
2	80	10%	-4%
3	71	4%	-19%
4	67	-7%	-19%
5	59	-23%	-14%
6	76	-16%	2%
7	85	-7%	8%
8	69	1%	19%
9	77	9%	18%
10	83	11%	4%
11	73	7%	-11%
12	70	-2%	-19%
13	81	0%	-8%
14	79	-13%	2%
15	85	-1%	7%
16	76	-1%	13%



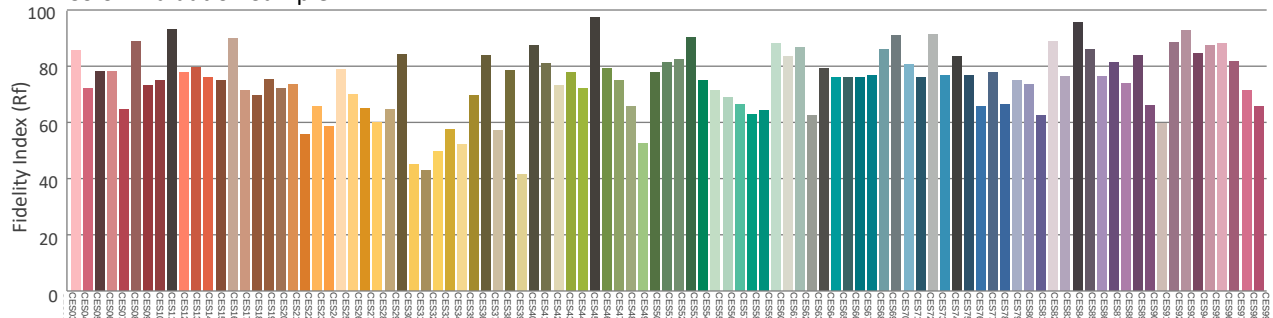
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

Report Summary

Measurements

Fixture Output: 522 lm

Fixture Peak: 594 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 24 lux

Color Temperature: 7924 K

CRI: 72.9 CRI R9 Value: 4.0

CQS: 79.6

TLCI: 74

TM-30 Rf: 73.3

TM-30 Rg: 93.6

Beam Angle (50%): 49.3°

Field Angle (10%): 95.9°

Cutoff Angle (3%): 124.3°

Conditions

AC Supply: 119 V, 60 Hz

Power: 27.14 W

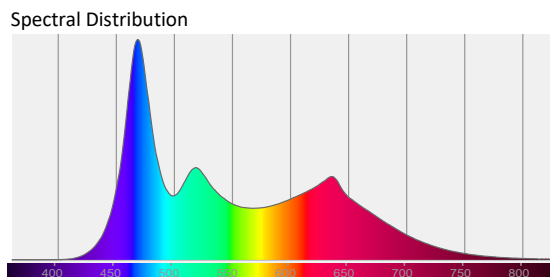
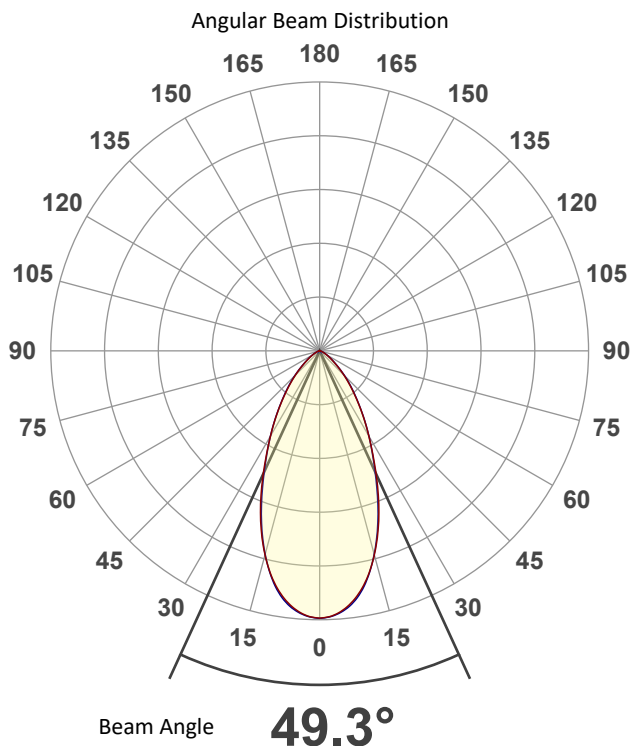
Current: 0.228 A

Power Factor: 0.92



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 5/20/2022 to LM-63-2002 Standards.

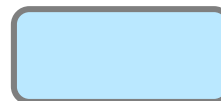
Overall Measurement



Tested Color (CIE 1931):

X: 0.296

Y: 0.305



Light Quality

CRI: 72.9

Color Temperature

7924 K

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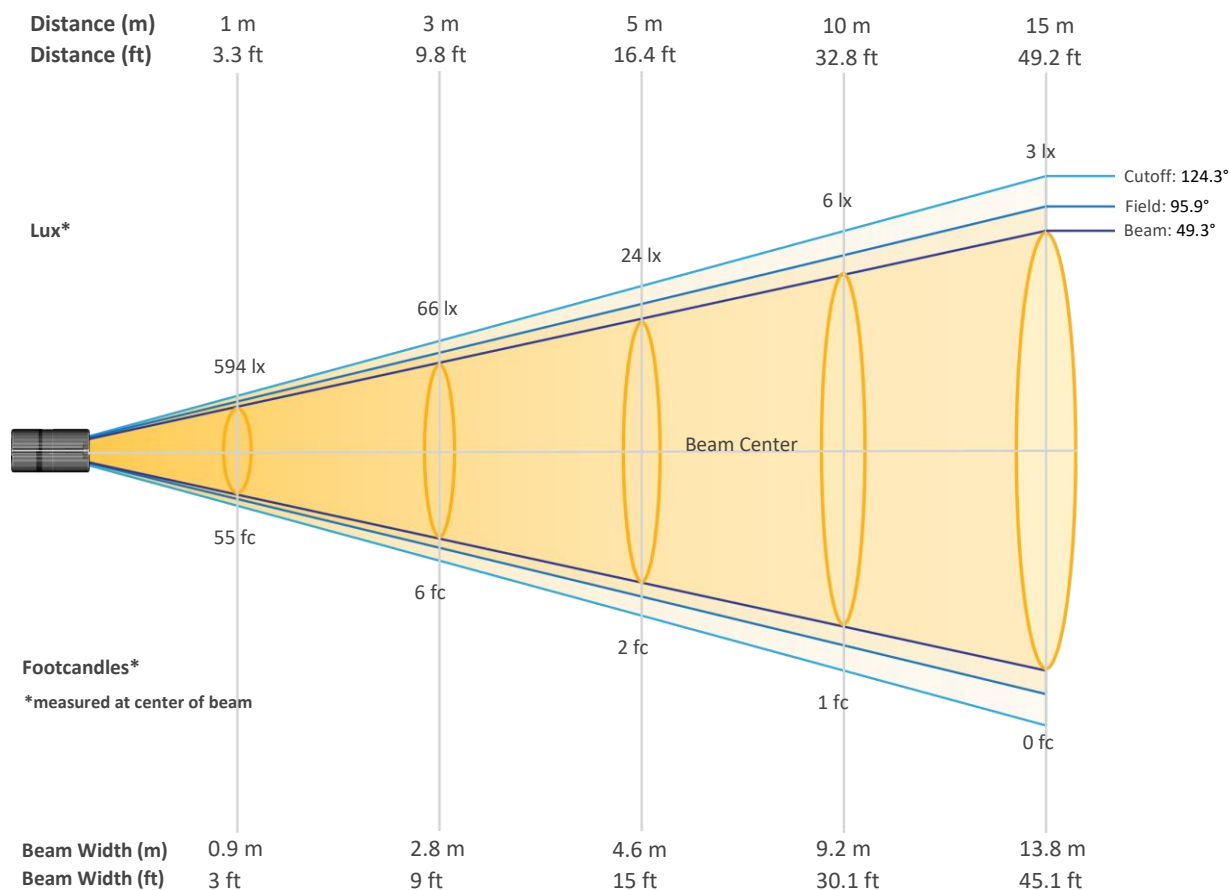
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	594	149	66	37	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	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	55	14	6	3	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

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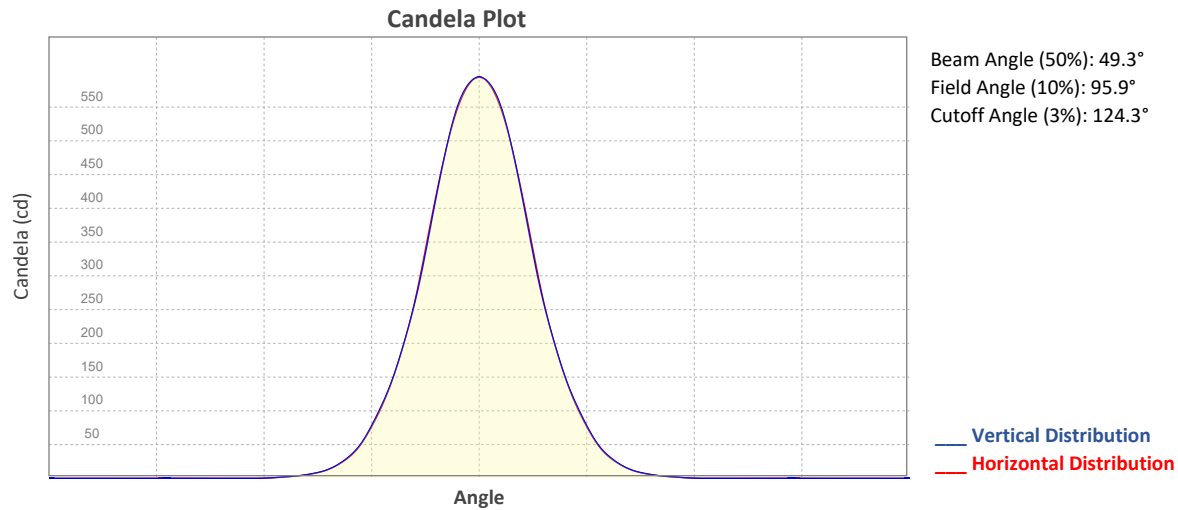
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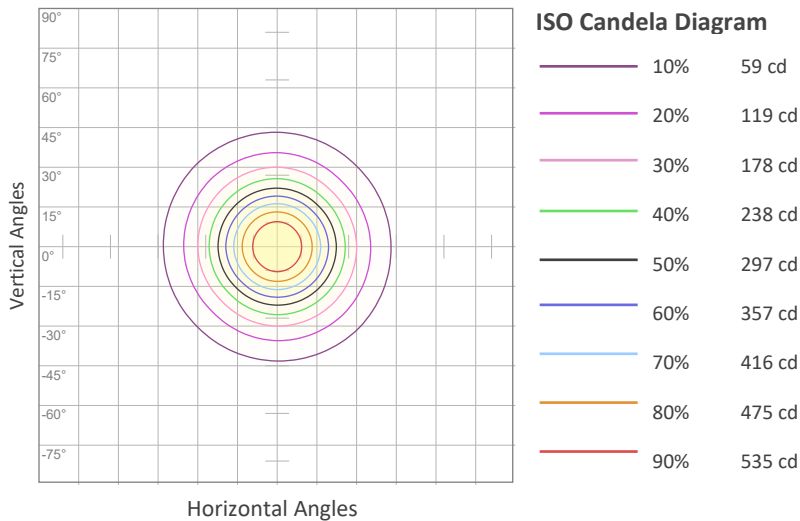
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Photometric & Chromaticity Report

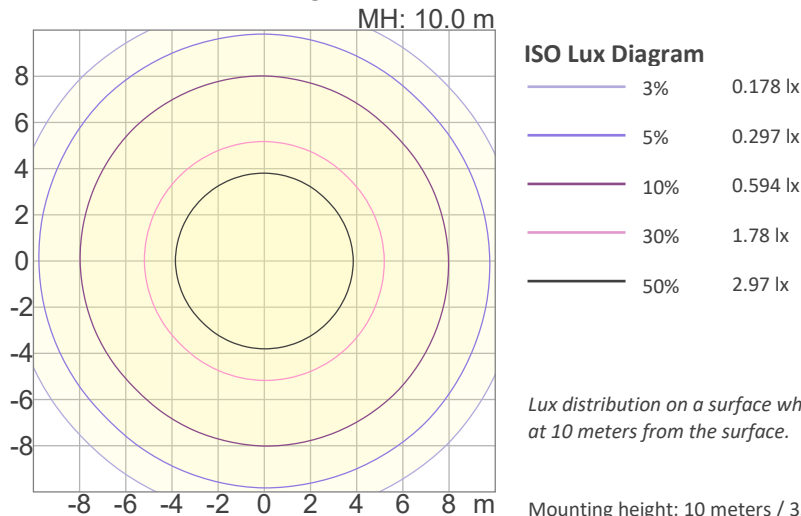
Logic AR111 Downlight M: Medium Filter Lens - 7000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 594 cd



Conditions:
Number of c-planes: 8
Candela at center: 5.94 lx

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

Mounting height: 10 meters / 33 feet

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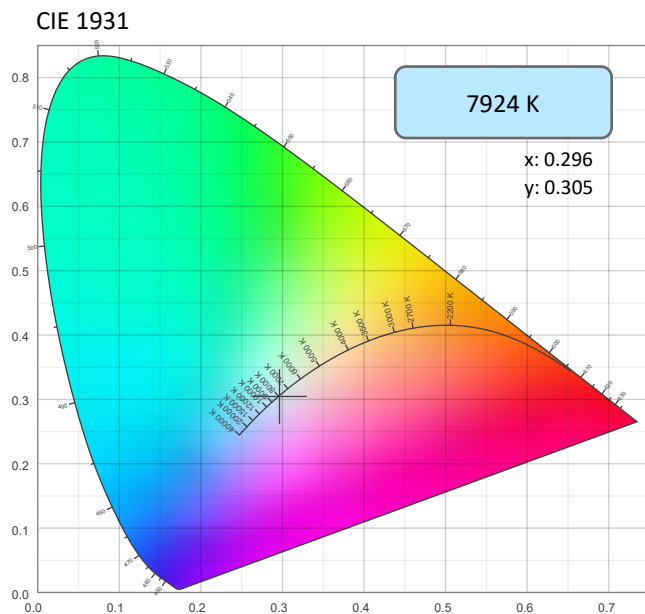
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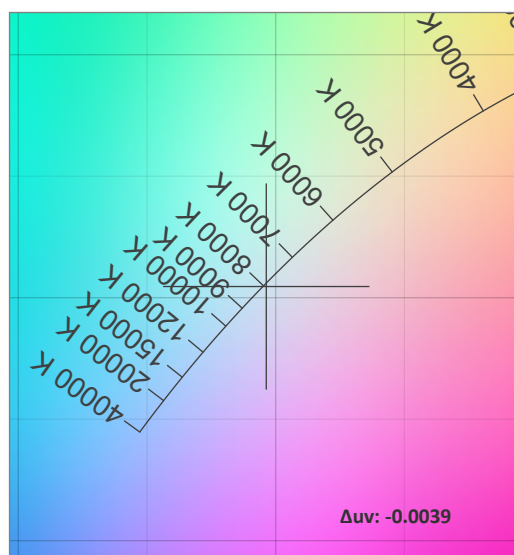
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

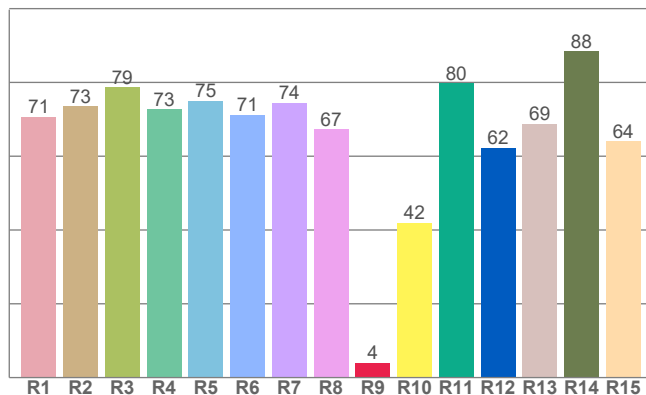
Chromaticity



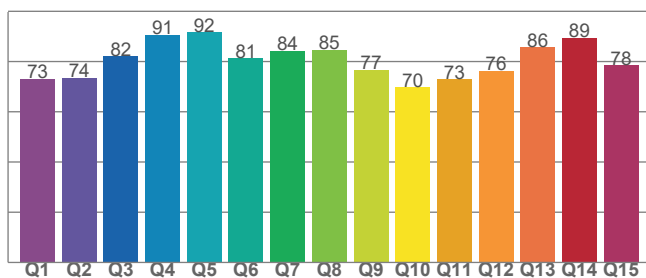
CIE 1931 - Zoom



CRI: 72.9 (R1-R8)



CQS: 79.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7924 K	0.296	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0039	0.305	0.196

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.9	4.0	79.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	73.3	93.6

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

TM-30 Details

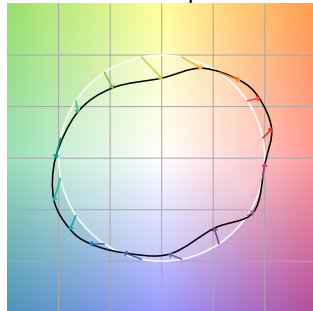
Rf 73.3

Fidelity Index
(Rg)

Rg 93.6

Gammut Index (Rg)

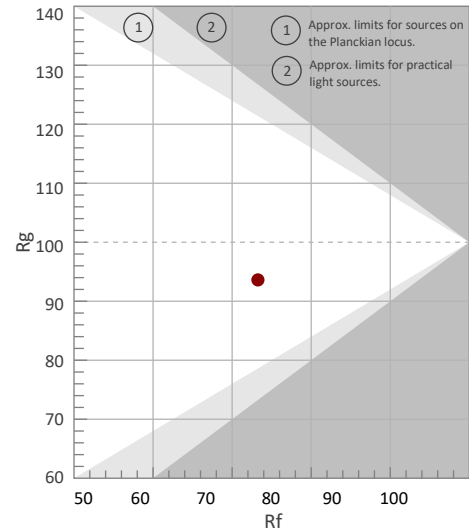
Color Vector Graphic



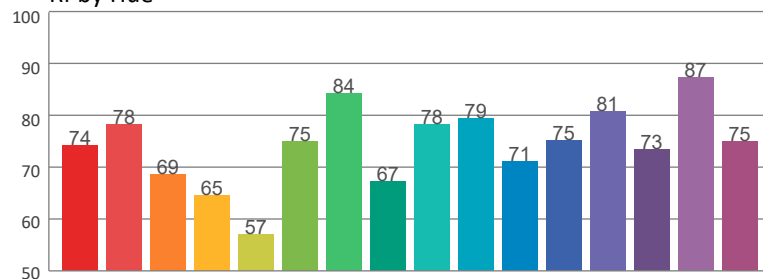
Color Distortion Graphic



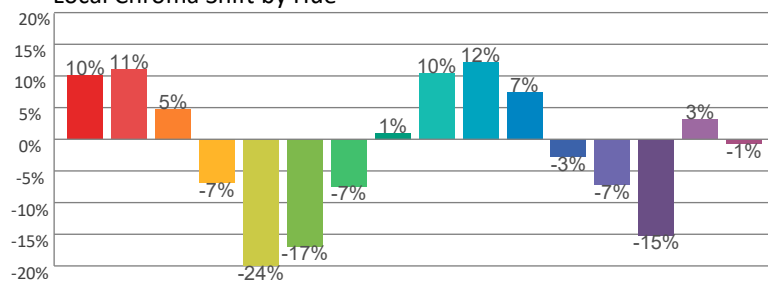
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	74	10%	7%
2	78	11%	-4%
3	69	5%	-21%
4	65	-7%	-21%
5	57	-24%	-15%
6	75	-17%	2%
7	84	-7%	8%
8	67	1%	19%
9	78	10%	19%
10	79	12%	8%
11	71	7%	-11%
12	75	-3%	-18%
13	81	-7%	-11%
14	73	-15%	5%
15	87	3%	6%
16	75	-1%	14%



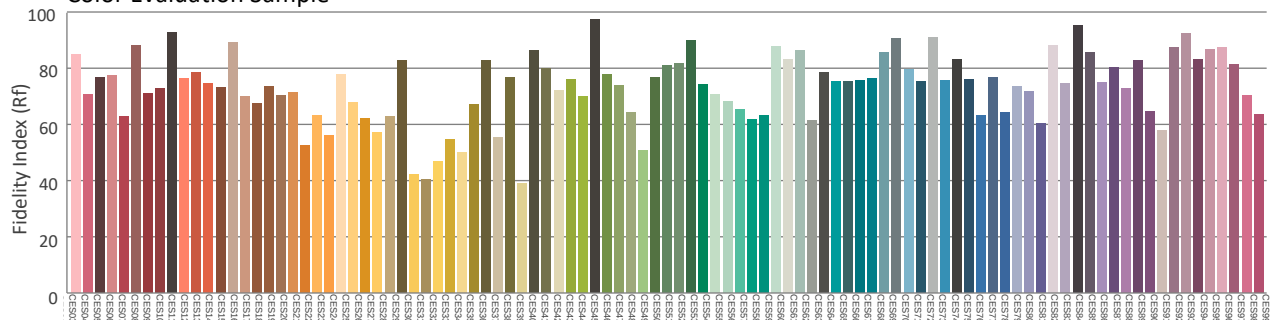
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

Report Summary

Measurements

Fixture Output: 529 lm

Fixture Peak: 602 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 24 lux

Color Temperature: 9472 K

CRI: 72.1 CRI R9 Value: 11.0

CQS: 77.4

TLCI: 74

TM-30 Rf: 71.2

TM-30 Rg: 91.1

Beam Angle (50%): 49.3°

Field Angle (10%): 95.9°

Cutoff Angle (3%): 124.3°

Conditions

AC Supply: 119 V, 60 Hz

Power: 27.47 W

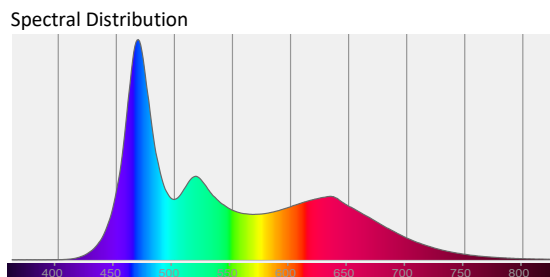
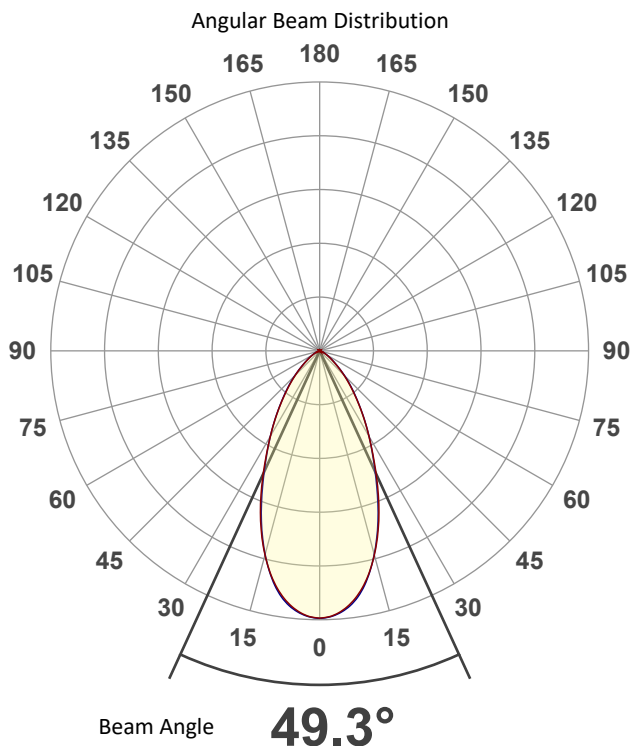
Current: 0.231 A

Power Factor: 0.92



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 5/20/2022 to LM-63-2002 Standards.

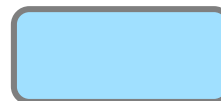
Overall Measurement



Tested Color (CIE 1931):

X: 0.283

Y: 0.294



Light Quality

CRI: 72.1

Color Temperature

9472 K

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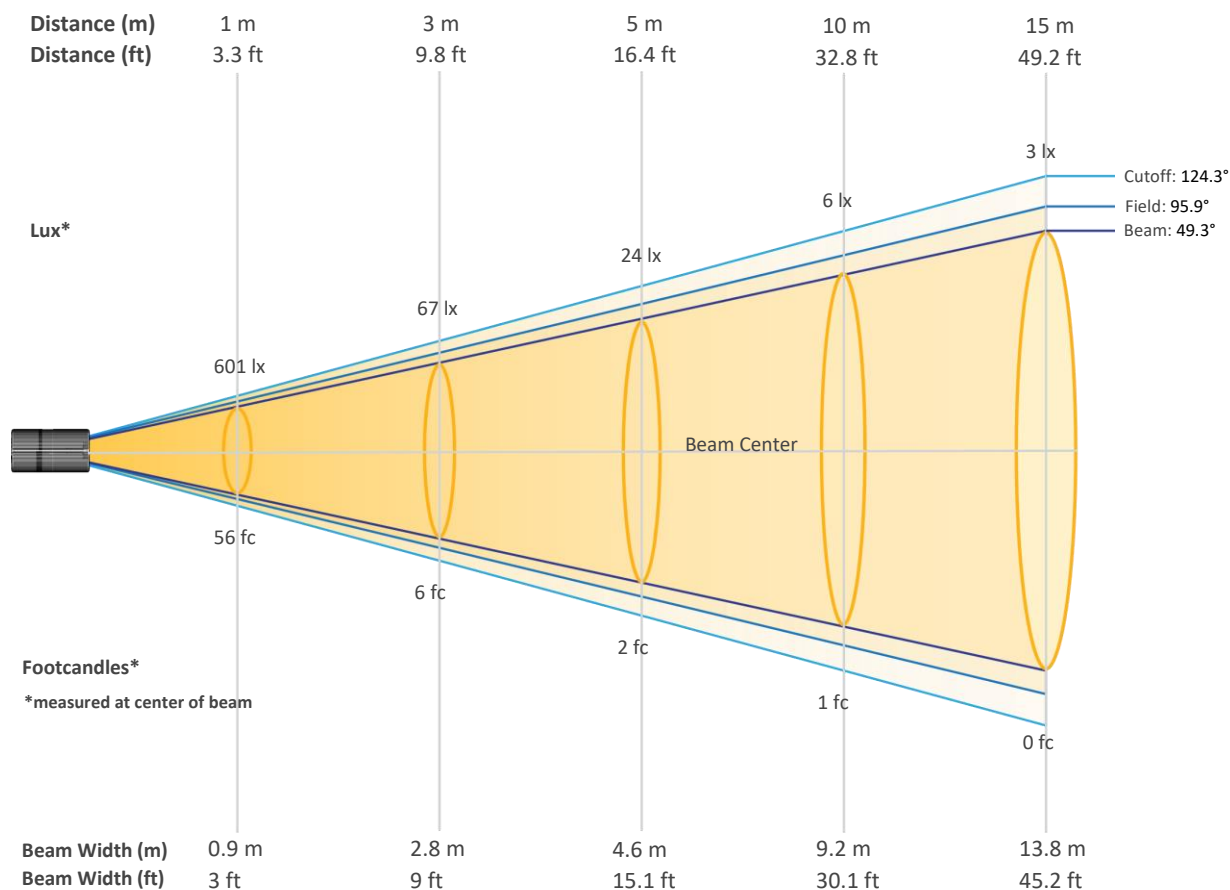
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	601	150	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	3	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

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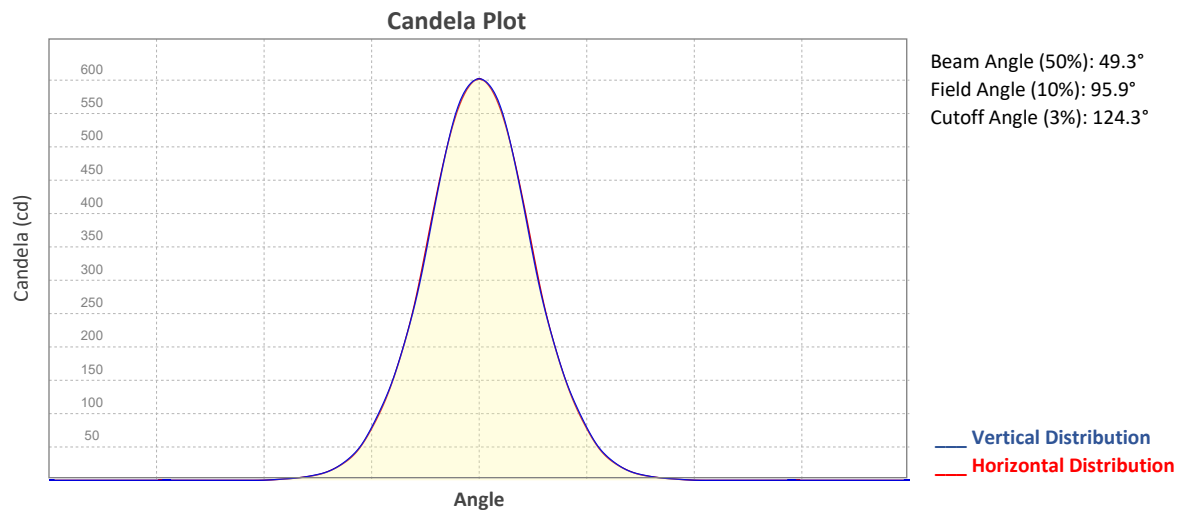
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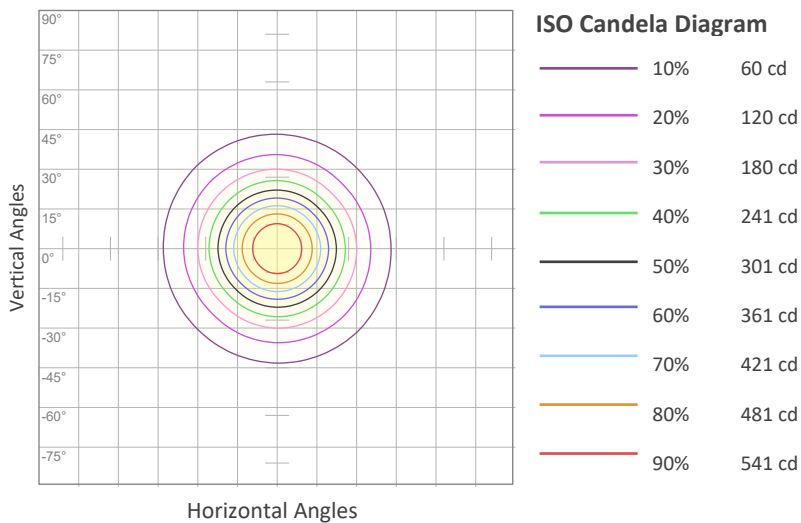
ILUMINARC

Photometric & Chromaticity Report

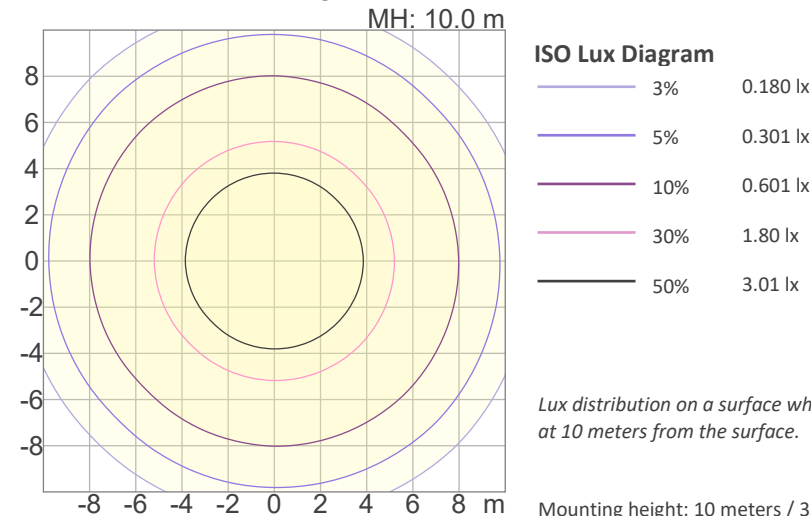
Logic AR111 Downlight M: Medium Filter Lens - 8000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 601 cd



Conditions:
Number of c-planes: 8
Candela at center: 6.01 lx

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

Mounting height: 10 meters / 33 feet

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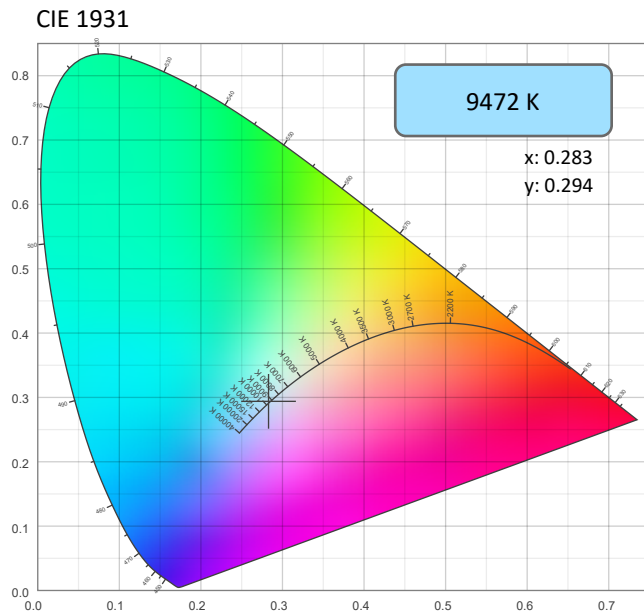
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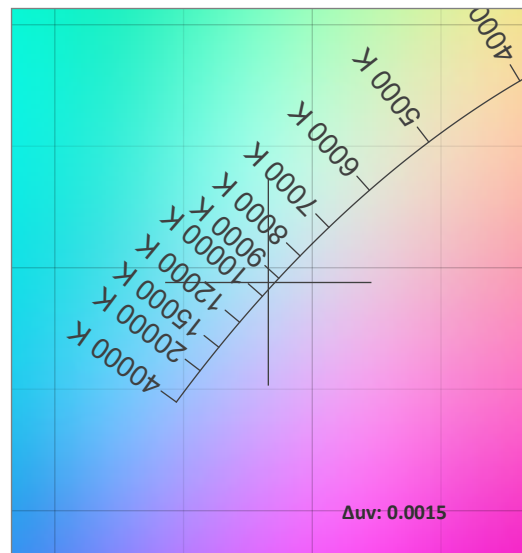
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

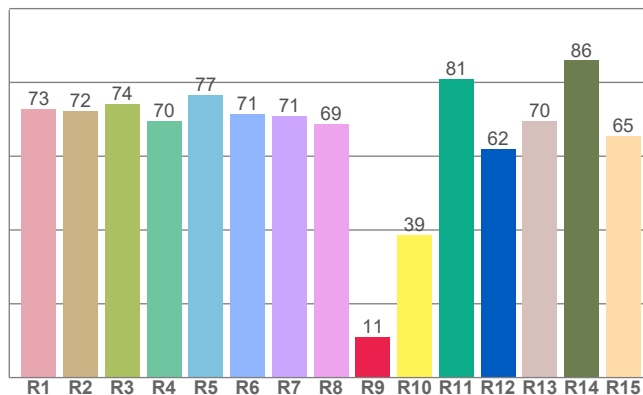
Chromaticity



CIE 1931 - Zoom



CRI: 72.1 (R1-R8)

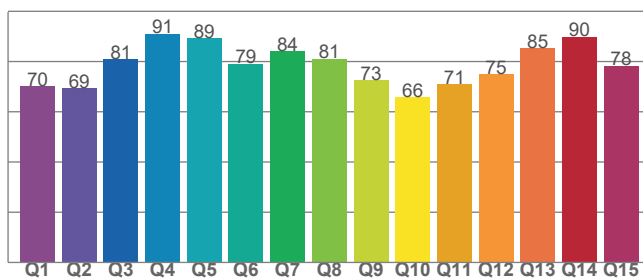


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
9472 K	0.283	0.294

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0015	0.294	0.190

CQS: 77.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.1	11.0	77.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	71.2	91.1

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

TM-30 Details

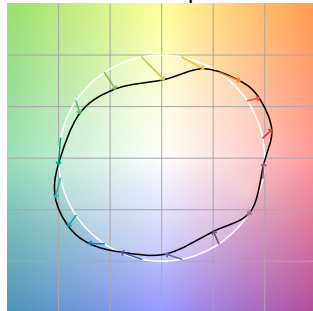
Rf 71.2

Fidelity Index
(Rg)

Rg 91.1

Gamut Index (Rg)

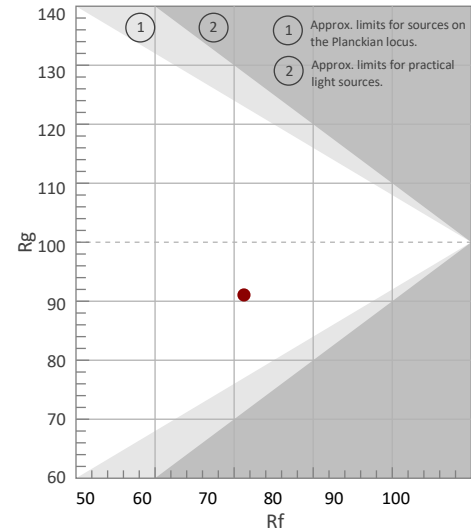
Color Vector Graphic



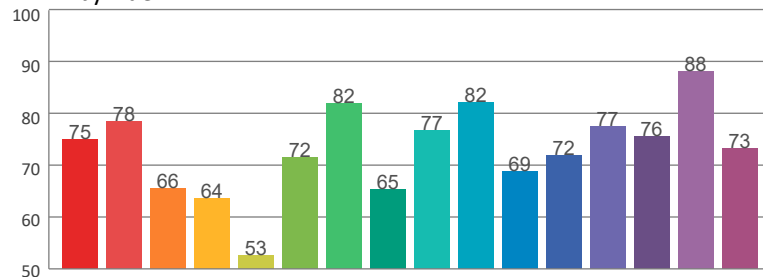
Color Distortion Graphic



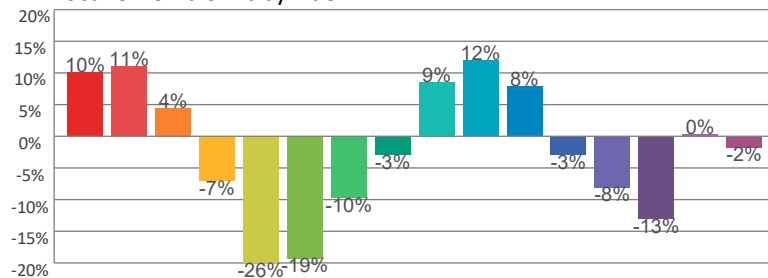
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	75	10%	6%
2	78	11%	-4%
3	66	4%	-21%
4	64	-7%	-23%
5	53	-26%	-17%
6	72	-19%	0%
7	82	-10%	8%
8	65	-3%	26%
9	77	9%	17%
10	82	12%	4%
11	69	8%	-12%
12	72	-3%	-21%
13	77	-8%	-14%
14	76	-13%	2%
15	88	0%	5%
16	73	-2%	14%



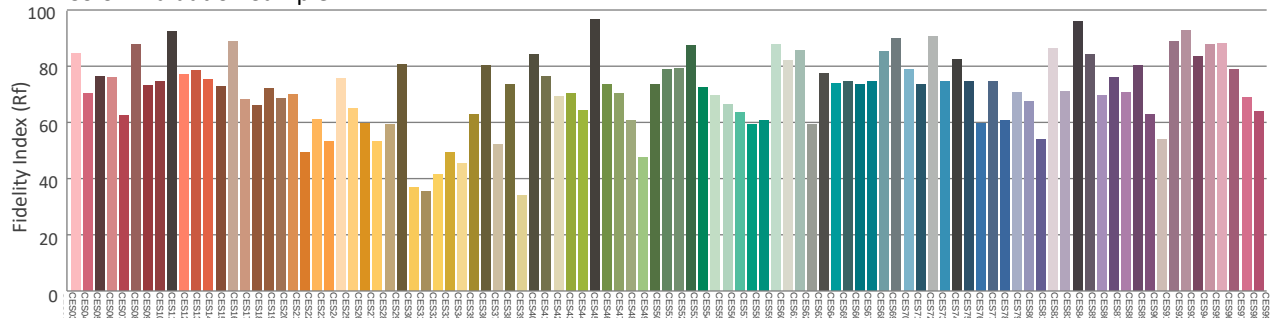
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

Report Summary

Measurements

Fixture Output: 543 lm

Fixture Peak: 617 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 25 lux

Color Temperature: 12963 K

CRI: 66.9 CRI R9 Value: -3.3

CQS: 73.4

TLCI: 71

TM-30 Rf: 66.8

TM-30 Rg: 88.0

Beam Angle (50%): 49.4°

Field Angle (10%): 96.1°

Cutoff Angle (3%): 124.5°

Conditions

AC Supply: 119 V, 60 Hz

Power: 28.27 W

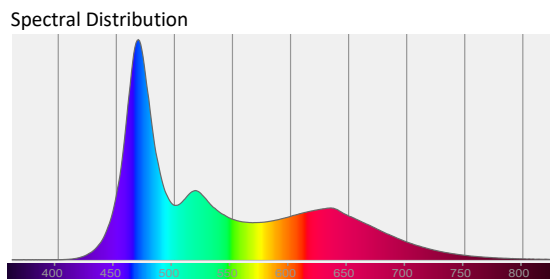
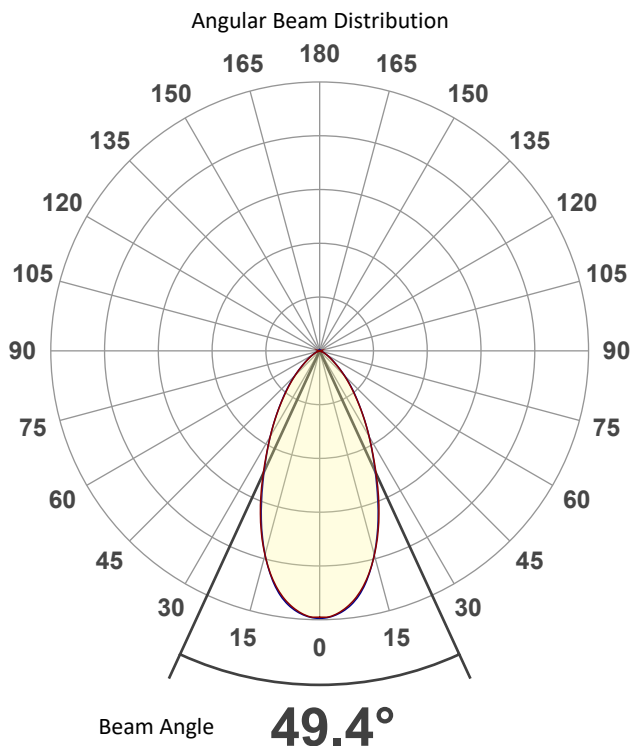
Current: 0.238 A

Power Factor: 0.92



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 5/20/2022 to LM-63-2002 Standards.

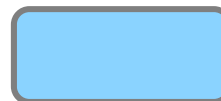
Overall Measurement



Tested Color (CIE 1931):

X: 0.268

Y: 0.275



Light Quality

CRI: 66.9

Color Temperature

12963 K

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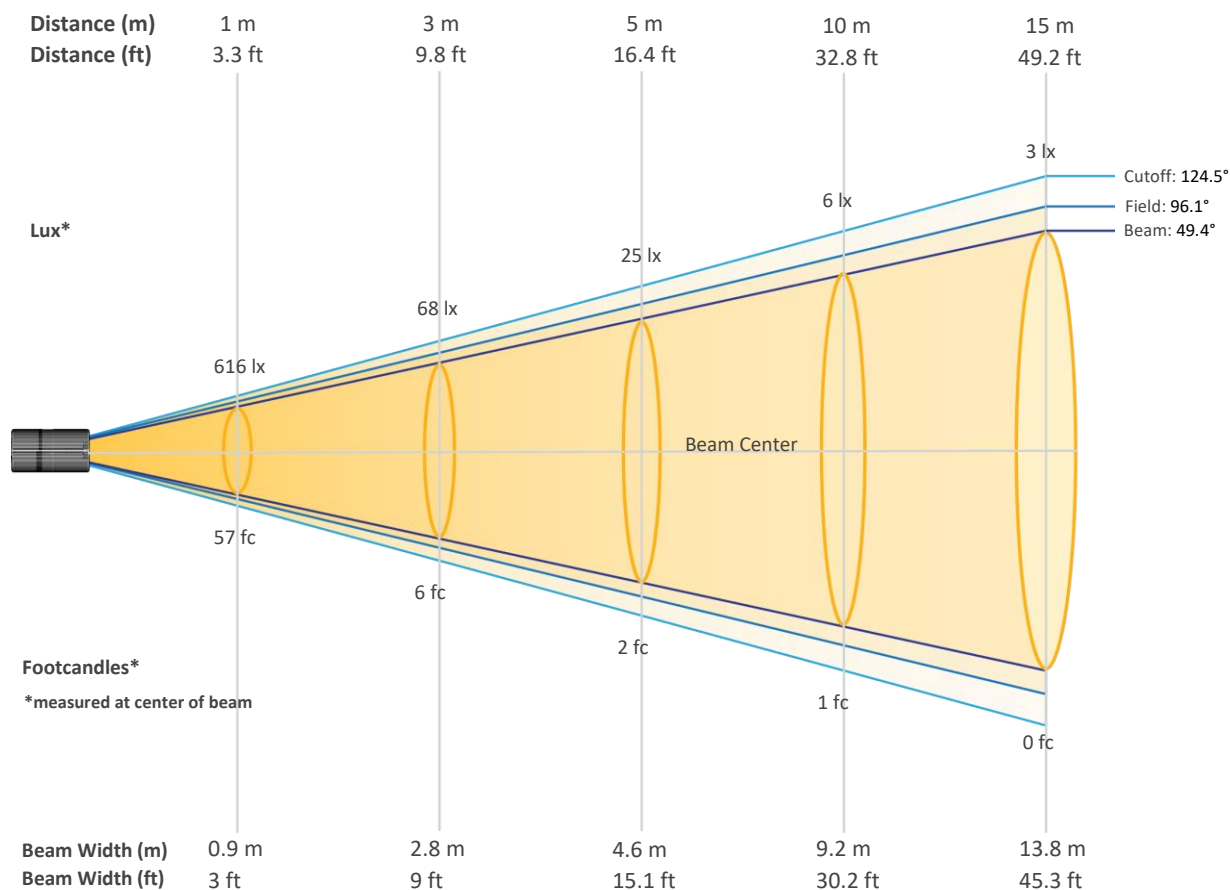
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	616	154	68	39	25	17	13	10	8	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	57	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

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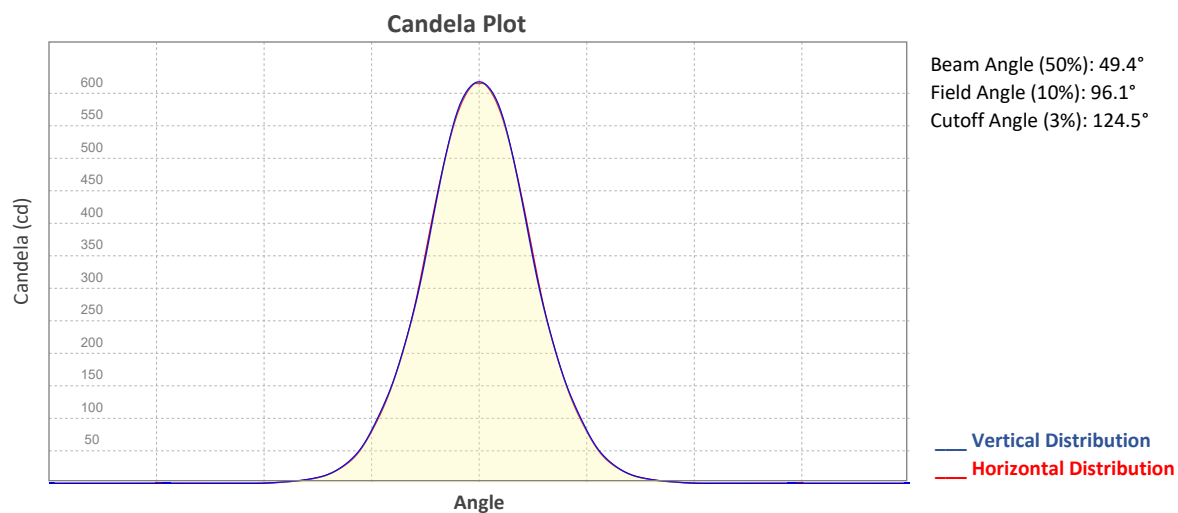
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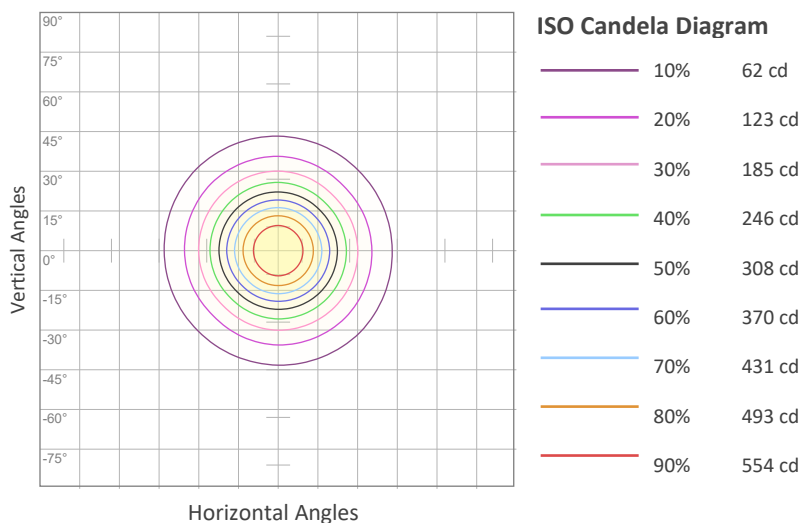
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Photometric & Chromaticity Report

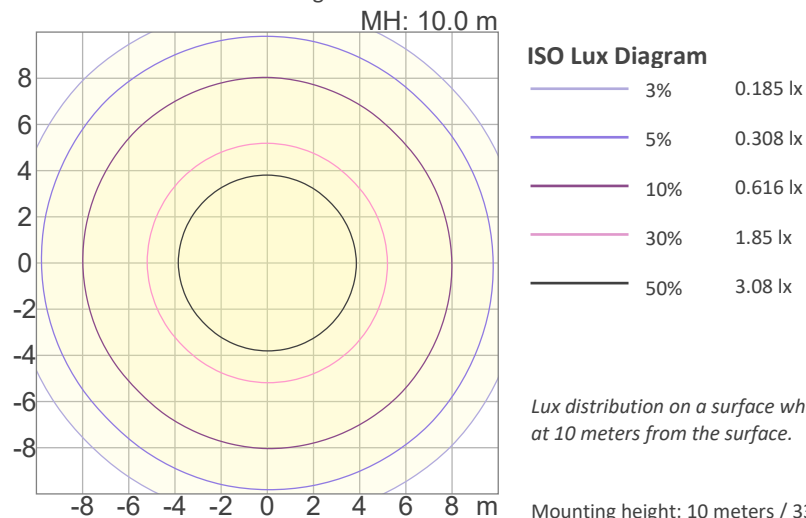
Logic AR111 Downlight M: Medium Filter Lens - 10000K



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 616 cd



Conditions:
Number of c-planes: 8
Candela at center: 6.16 lx

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

Mounting height: 10 meters / 33 feet

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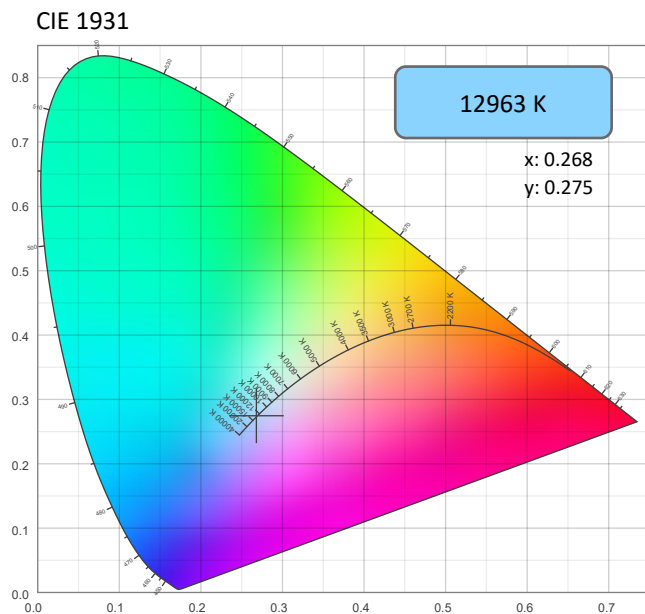
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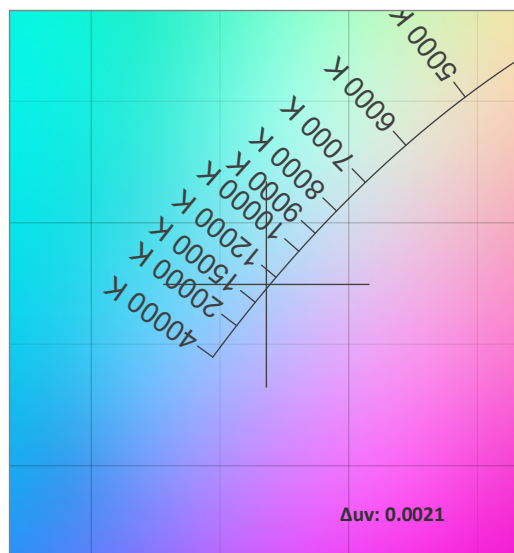
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

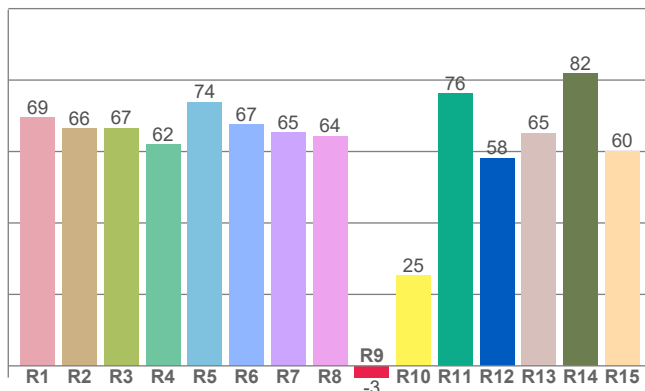
Chromaticity



CIE 1931 - Zoom



CRI: 66.9 (R1-R8)

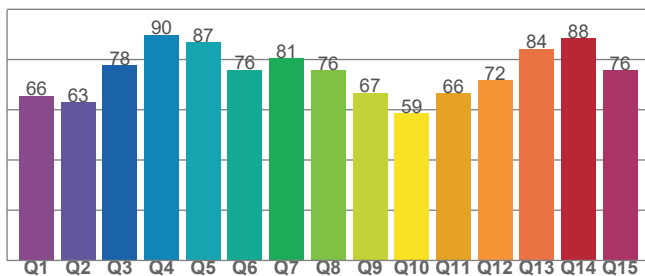


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
12963 K	0.268	0.275

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0021	0.275	0.186

CQS: 73.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
66.9	-3.3	73.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
71	66.8	88.0

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

TM-30 Details

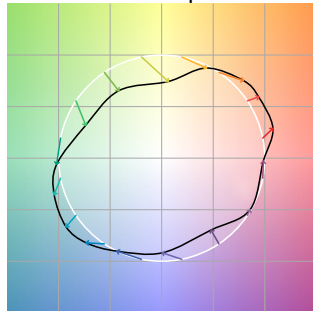
Rf 66.8

Fidelity Index
(Rf)

Rg 88.0

Gamut Index (Rg)

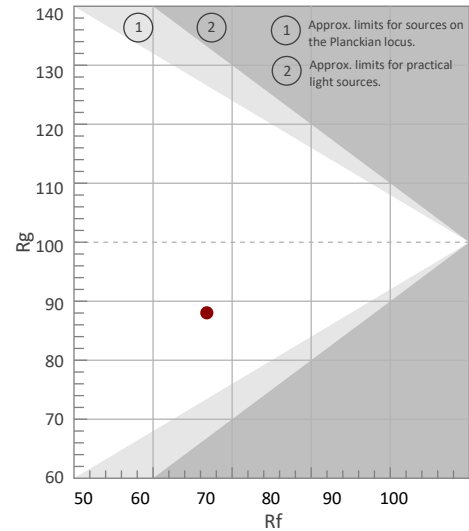
Color Vector Graphic



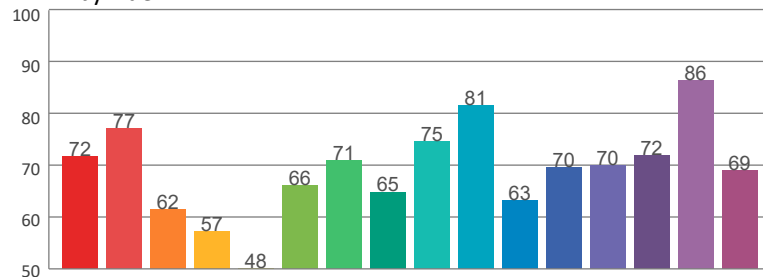
Color Distortion Graphic



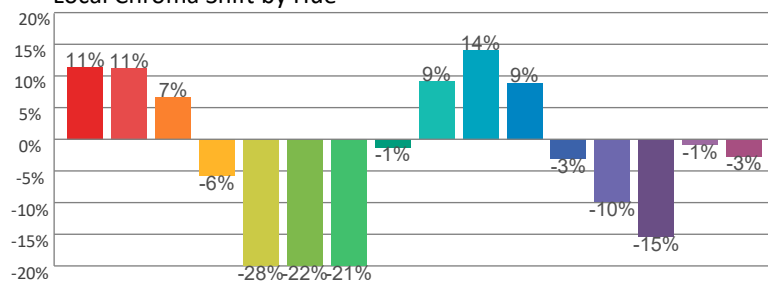
		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	72	11%	7%
2	77	11%	-3%
3	62	7%	-24%
4	57	-6%	-26%
5	48	-28%	-21%
6	66	-22%	-2%
7	71	-21%	14%
8	65	-1%	26%
9	75	9%	14%
10	81	14%	4%
11	63	9%	-15%
12	70	-3%	-25%
13	70	-10%	-17%
14	72	-15%	1%
15	86	-1%	6%
16	69	-3%	16%



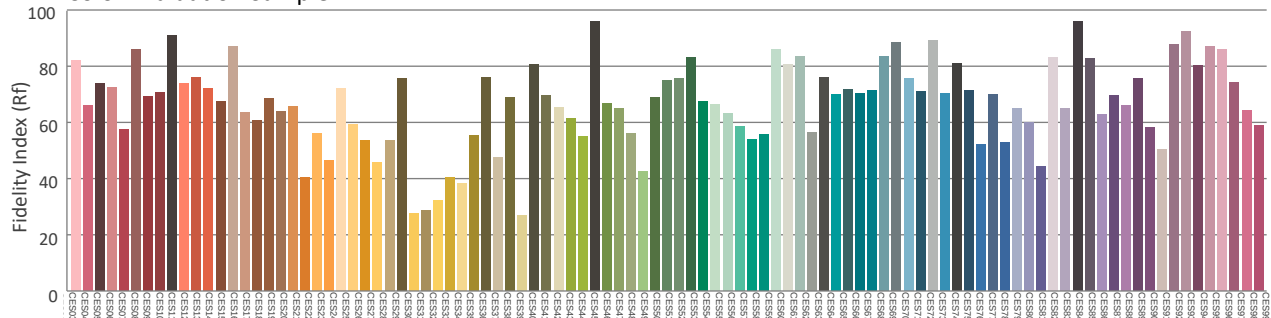
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 621 lm

Fixture Peak: 1055 cd

Fixture Efficacy: 16 lm/W

Intensity @ 5m: 42 lux

Color Temperature: 6331 K

CRI: 48.9 CRI R9 Value: -159.1

CQS: 61.7

TLCI: 26

TM-30 Rf: 60.6

TM-30 Rg: 102.6

Beam Angle (50%): 41.2°

Field Angle (10%): 77.6°

Cutoff Angle (3%): 97.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 40.53 W

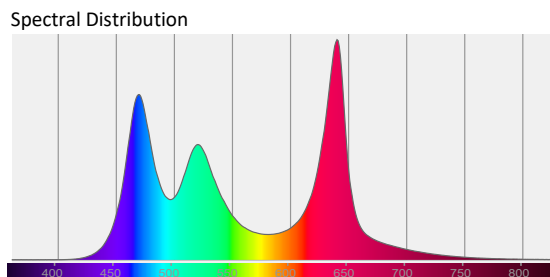
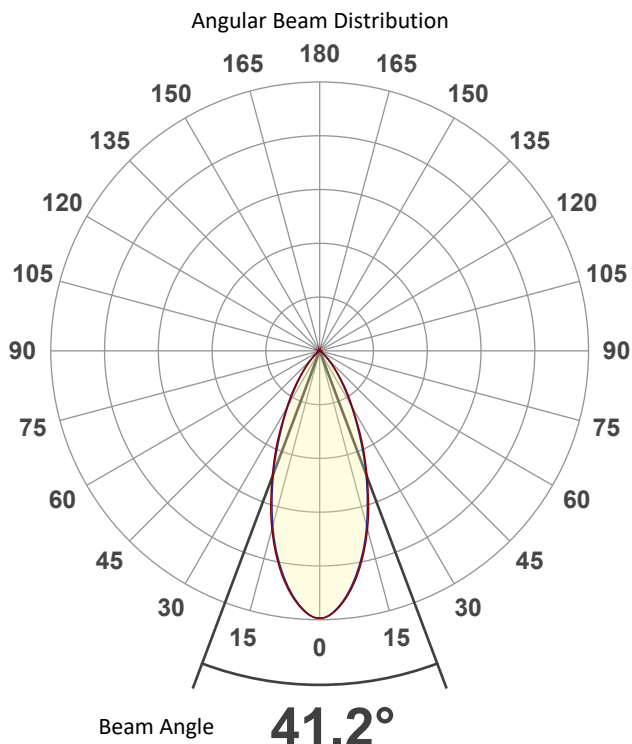
Current: 0.337 A

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 5/20/2022 to LM-63-2002 Standards.

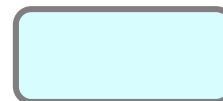
Overall Measurement



Tested Color (CIE 1931):

X: 0.316

Y: 0.332



Light Quality

CRI: 48.9

Color Temperature

6331 K



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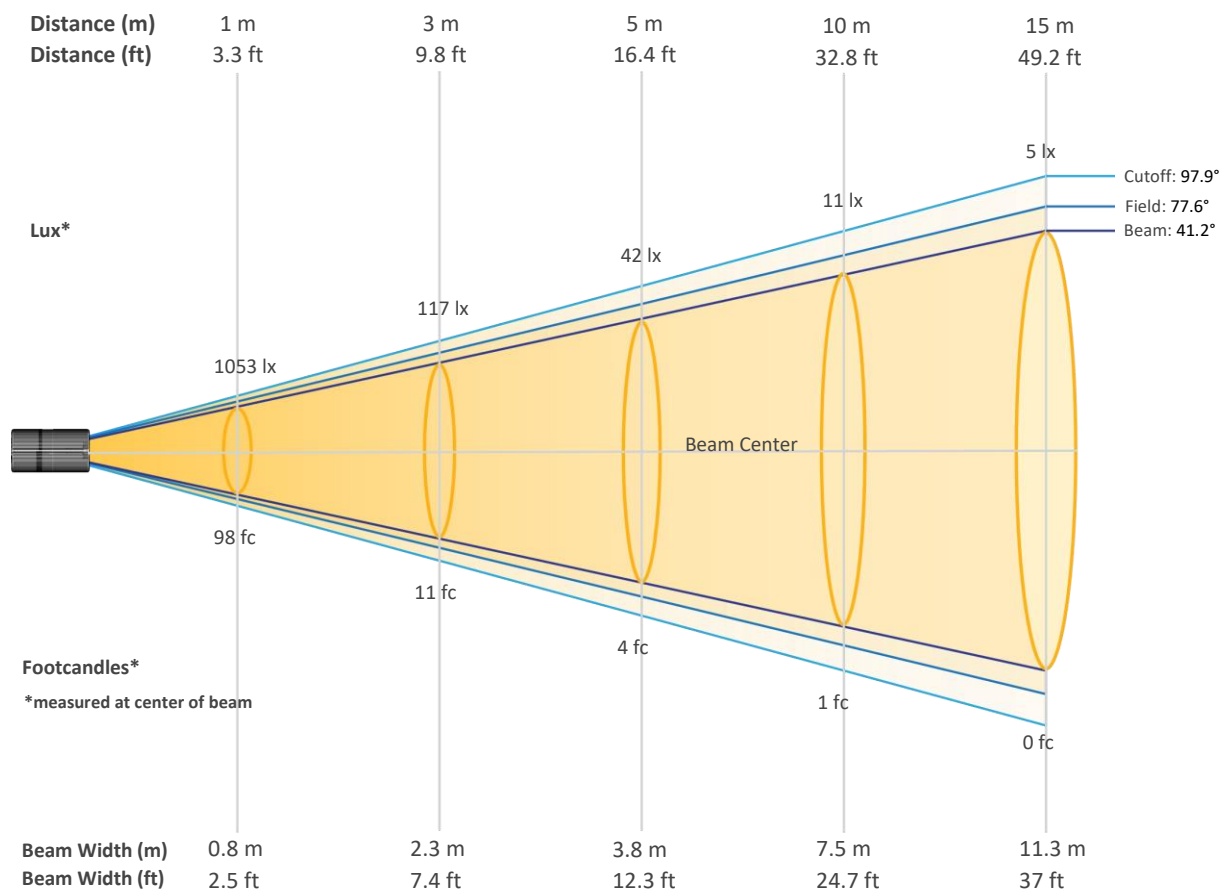
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	1053	263	117	66	42	29	21	16	13	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	7	6	5	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	98	24	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	0	0	0	0	0	0	0

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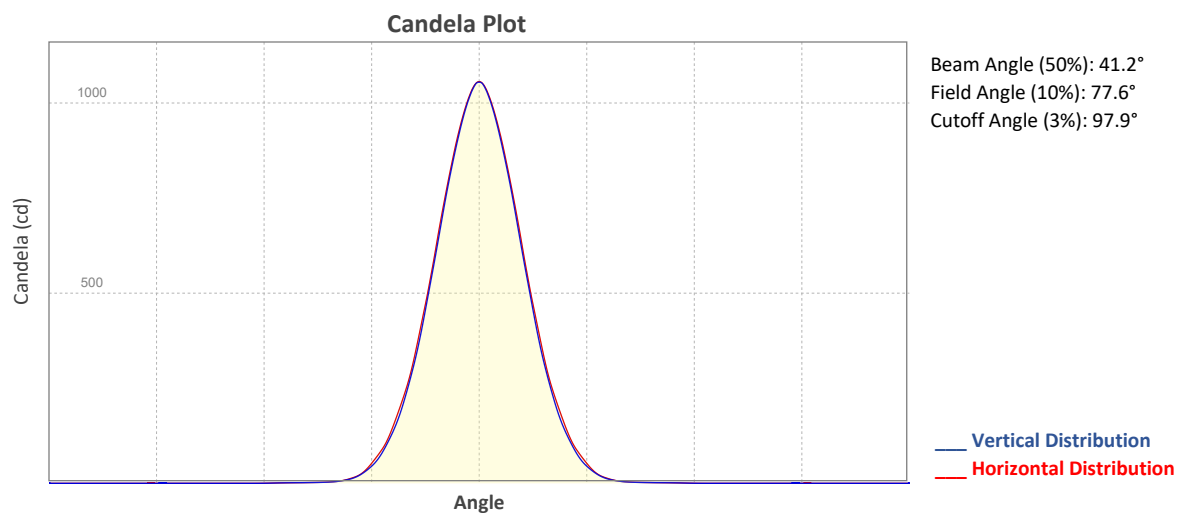
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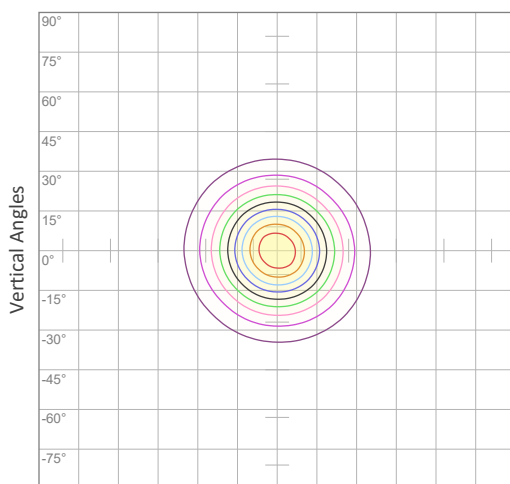
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power



ISO Diagrams



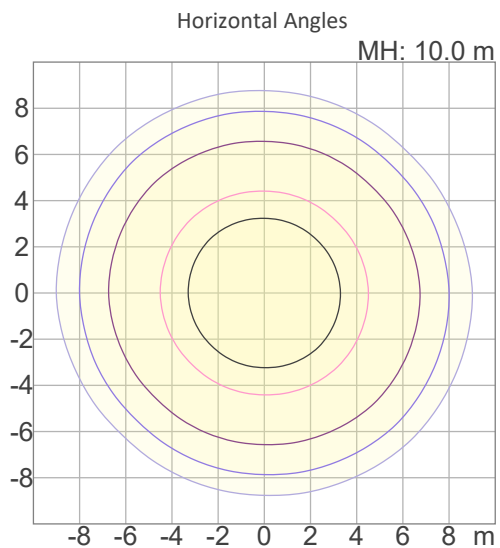
ISO Candela Diagram

10%	105 cd
20%	211 cd
30%	316 cd
40%	421 cd
50%	527 cd
60%	632 cd
70%	737 cd
80%	843 cd
90%	948 cd

Conditions:

Number of c-planes: 8

Candela at center: 1053 cd



ISO Lux Diagram

3%	0.316 lx
5%	0.527 lx
10%	1.05 lx
30%	3.16 lx
50%	5.27 lx

Conditions:

Number of c-planes: 8

Candela at center: 10.5 lx

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

Mounting height: 10 meters / 33 feet

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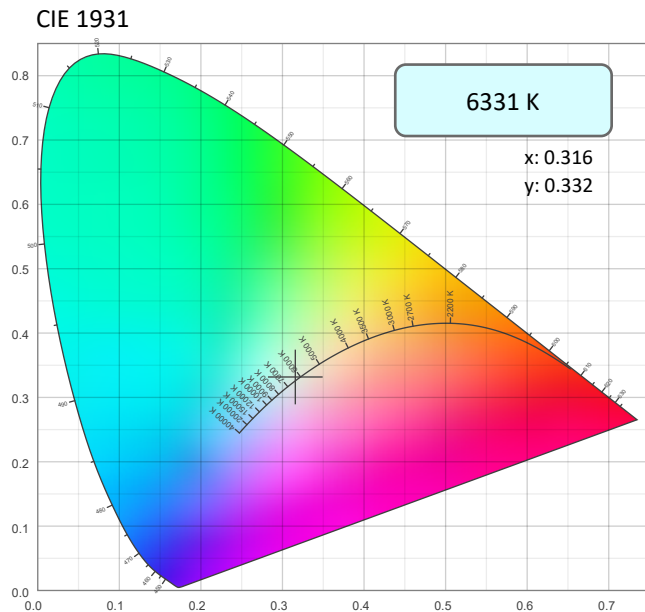
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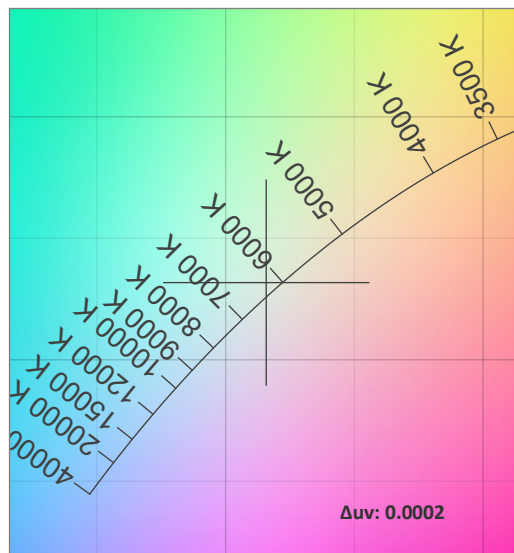
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

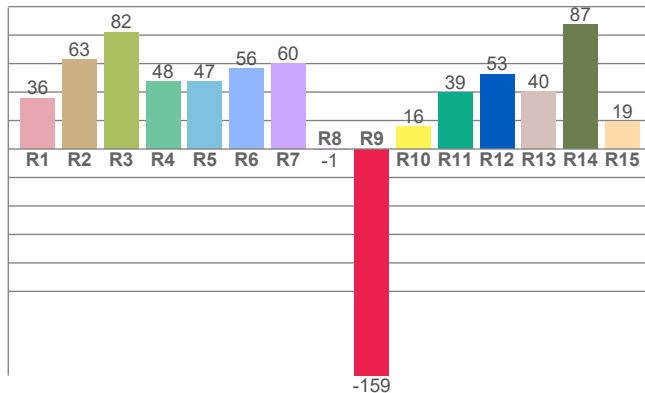
Chromaticity



CIE 1931 - Zoom



CRI: 48.9 (R1-R8)

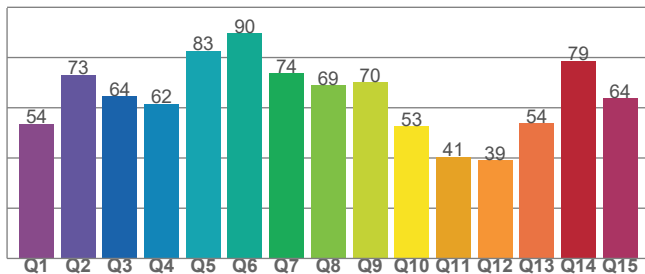


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6331 K	0.316	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.332	0.199

CQS: 61.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.9	-159.1	61.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.6	102.6

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

TM-30 Details

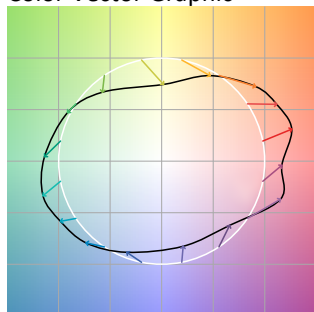
Rf 60.6

Fidelity Index
(Rg)

Rg 102.6

Gamut Index (Rg)

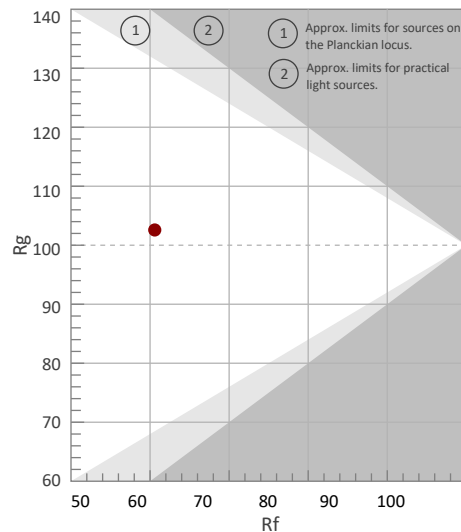
Color Vector Graphic



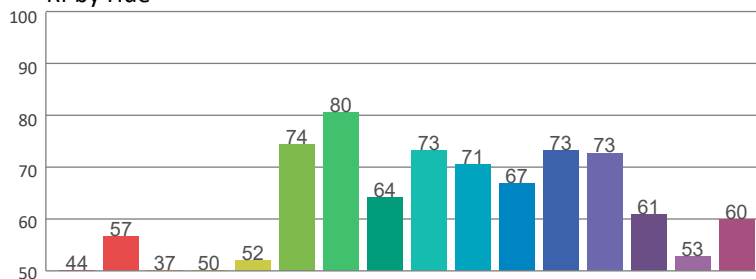
Color Distortion Graphic



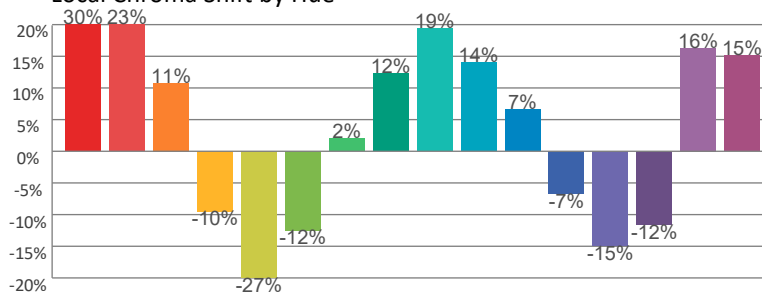
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	44	30%	6%
2	57	23%	-16%
3	37	11%	-35%
4	50	-10%	-30%
5	52	-27%	-16%
6	74	-12%	11%
7	80	2%	11%
8	64	12%	18%
9	73	19%	10%
10	71	14%	-6%
11	67	7%	-17%
12	73	-7%	-16%
13	73	-15%	4%
14	61	-12%	20%
15	53	16%	33%
16	60	15%	19%



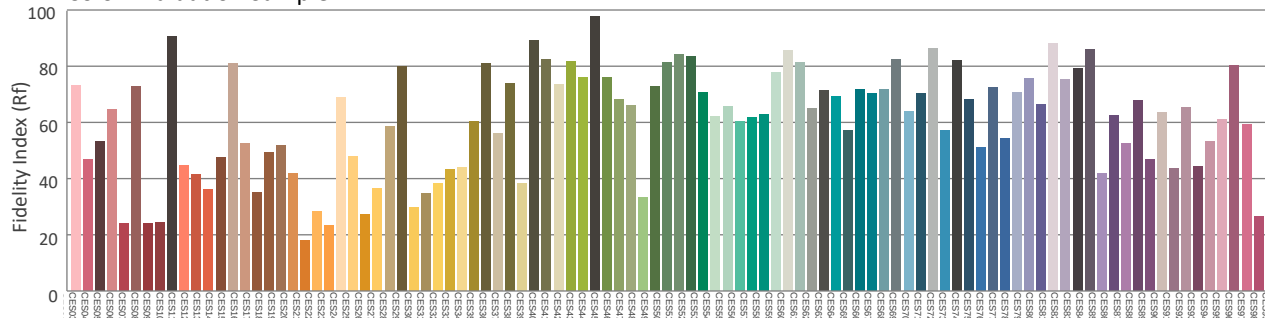
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

Report Summary

Measurements

Fixture Output: 136 lm

Fixture Peak: 230 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 9 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 41.3°

Field Angle (10%): 77.6°

Cutoff Angle (3%): 97.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 21.71 W

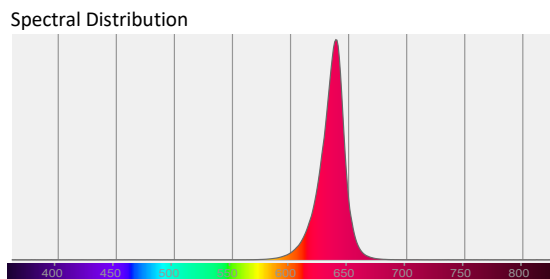
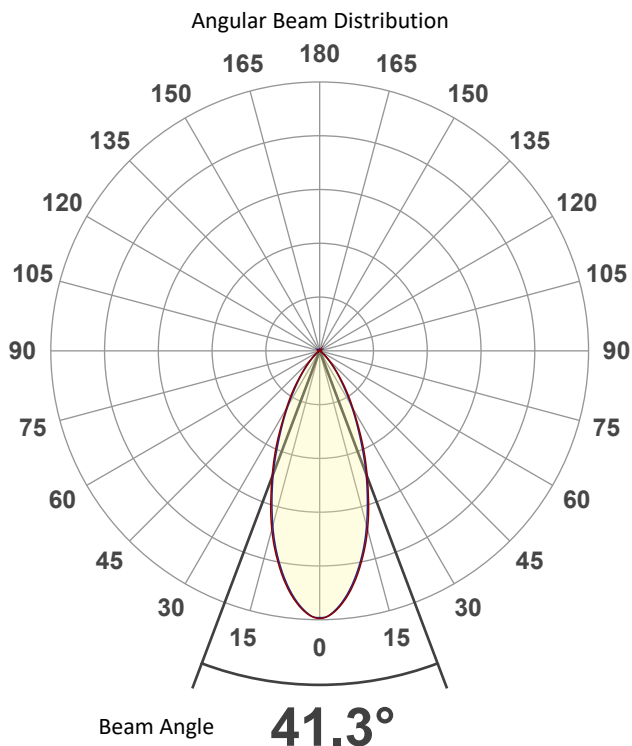
Current: 0.180 A

Power Factor: 0.88



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.701

Y: 0.298

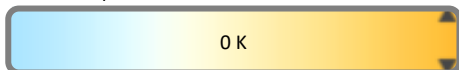


Light Quality

CRI: 0.0

Color Temperature

0 K



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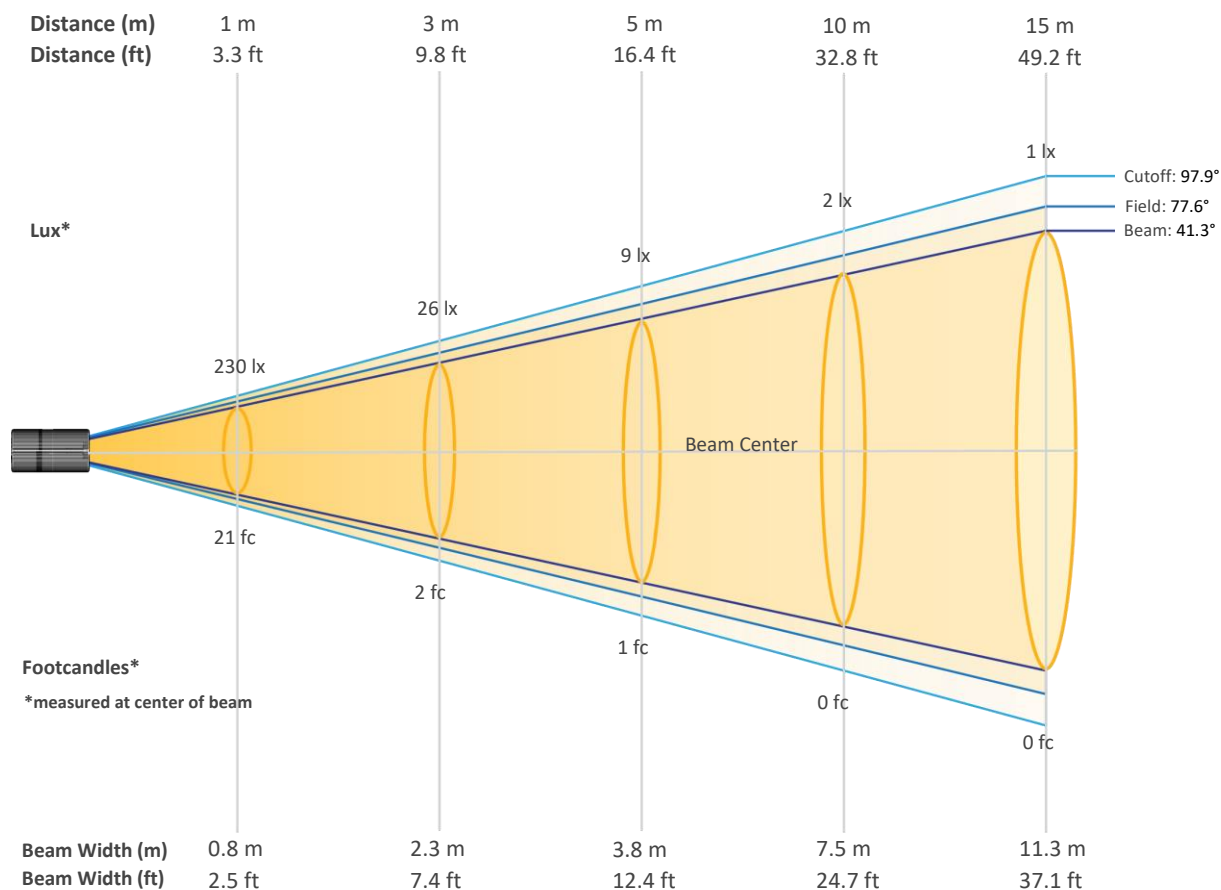
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	230	57	26	14	9	6	5	4	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	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	21	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

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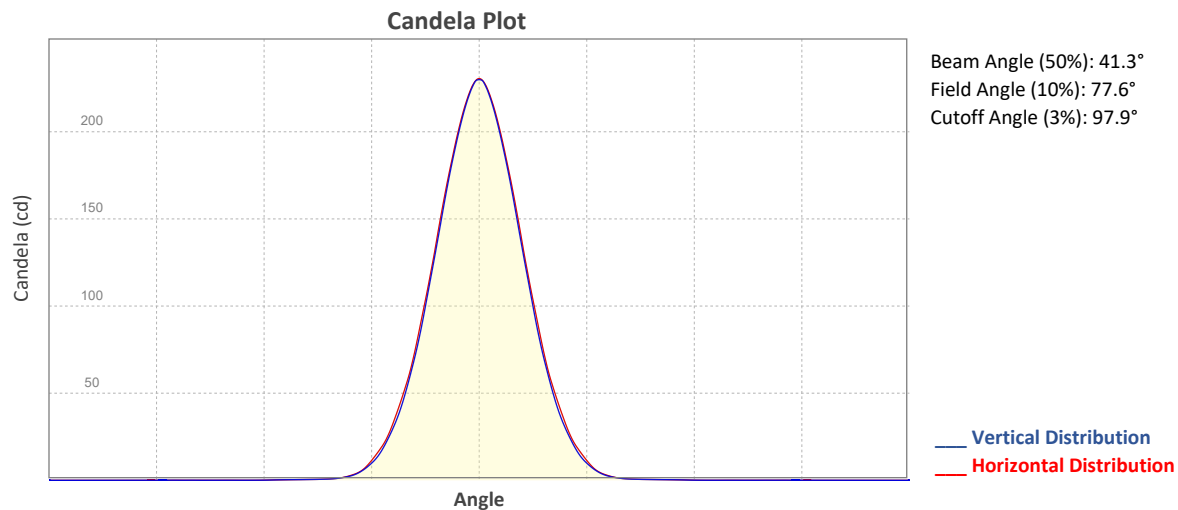
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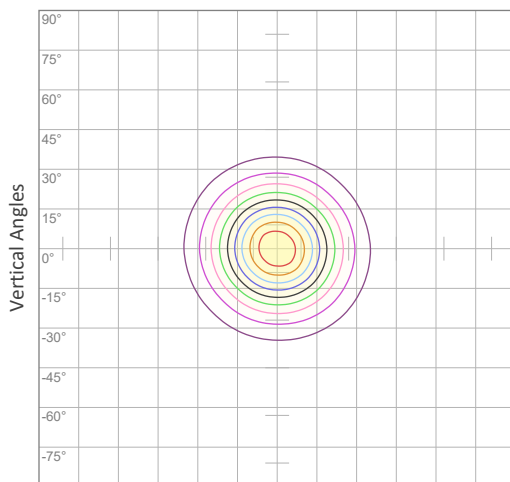
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only



ISO Diagrams



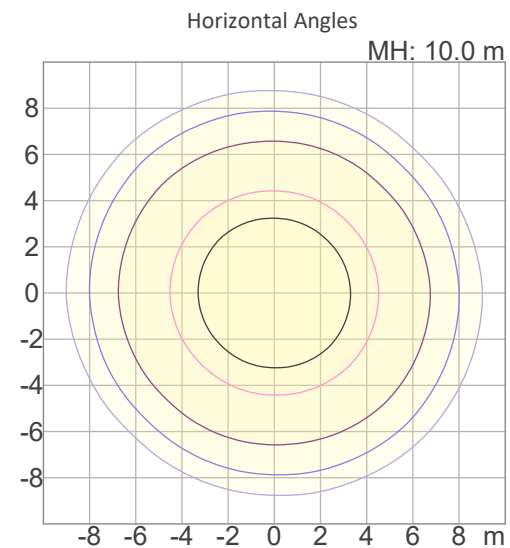
ISO Candela Diagram

10%	23 cd
20%	46 cd
30%	69 cd
40%	92 cd
50%	115 cd
60%	138 cd
70%	161 cd
80%	184 cd
90%	207 cd

Conditions:

Number of c-planes: 8

Candela at center: 230 cd



ISO Lux Diagram

3%	68.9m lx
5%	0.115 lx
10%	0.230 lx
30%	0.689 lx
50%	1.15 lx

Conditions:

Number of c-planes: 8

Candela at center: 2.30 lx

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

Mounting height: 10 meters / 33 feet

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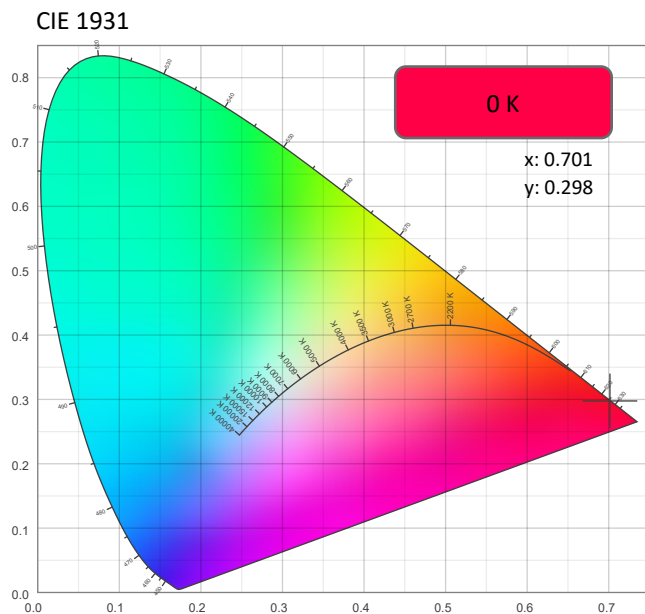
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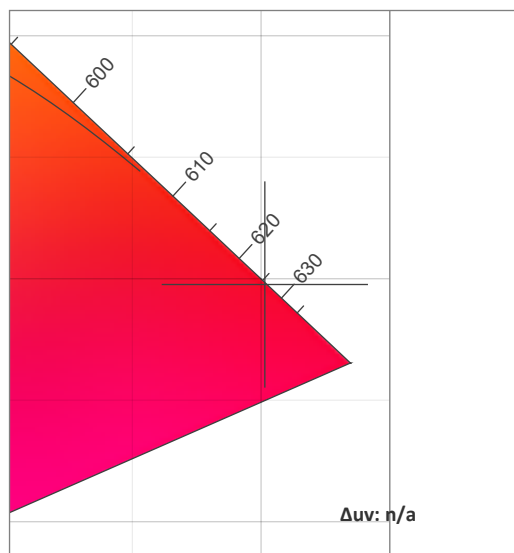
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red 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	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	0.701	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.543

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

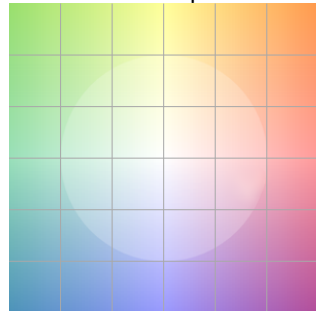
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

TM-30 Details

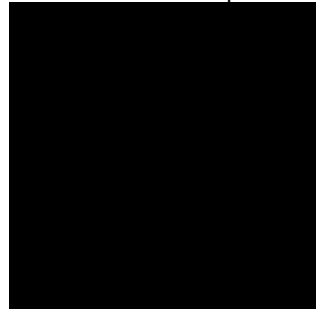
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gamut Index (Rg)

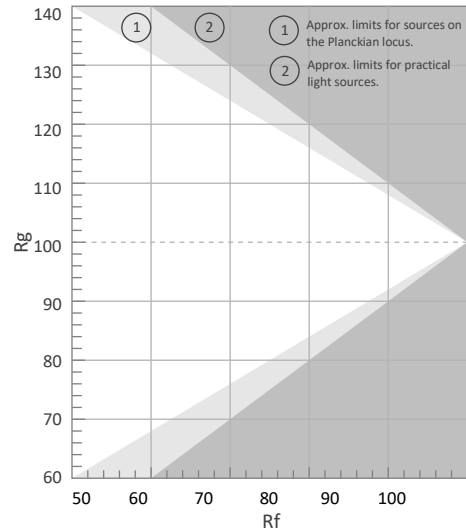
Color Vector Graphic



Color Distortion Graphic



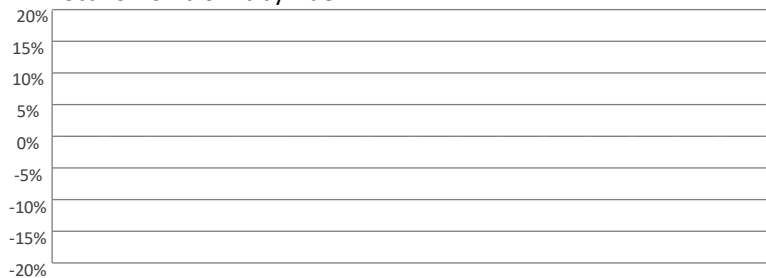
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

Report Summary

Measurements

Fixture Output: 293 lm

Fixture Peak: 492 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

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 41.6°

Field Angle (10%): 77.9°

Cutoff Angle (3%): 98.3°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.46 W

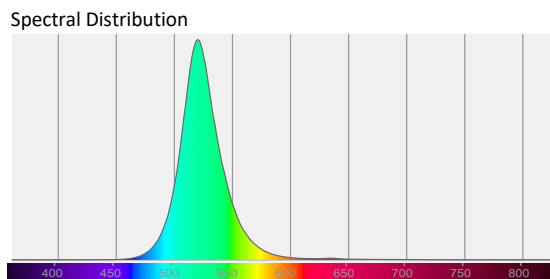
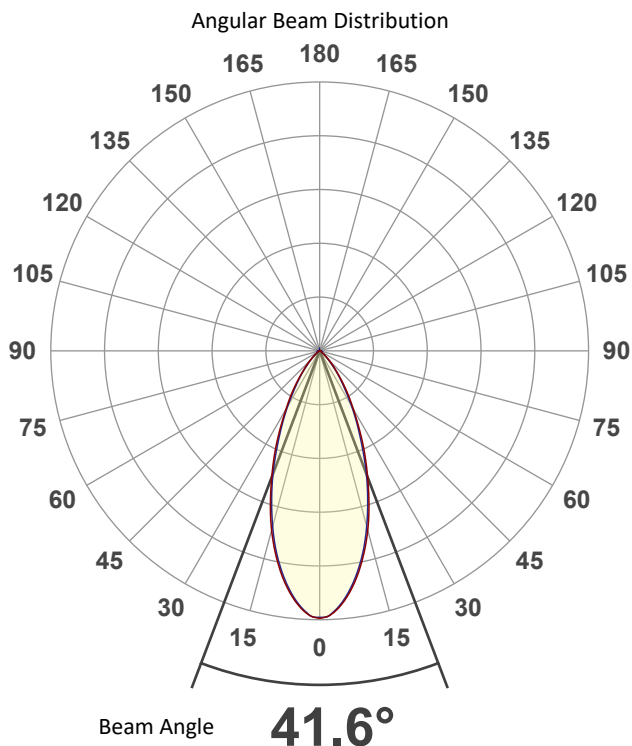
Current: 0.196 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.169

Y: 0.713

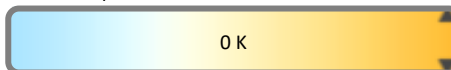


Light Quality

CRI: 0.0

Color Temperature

0 K



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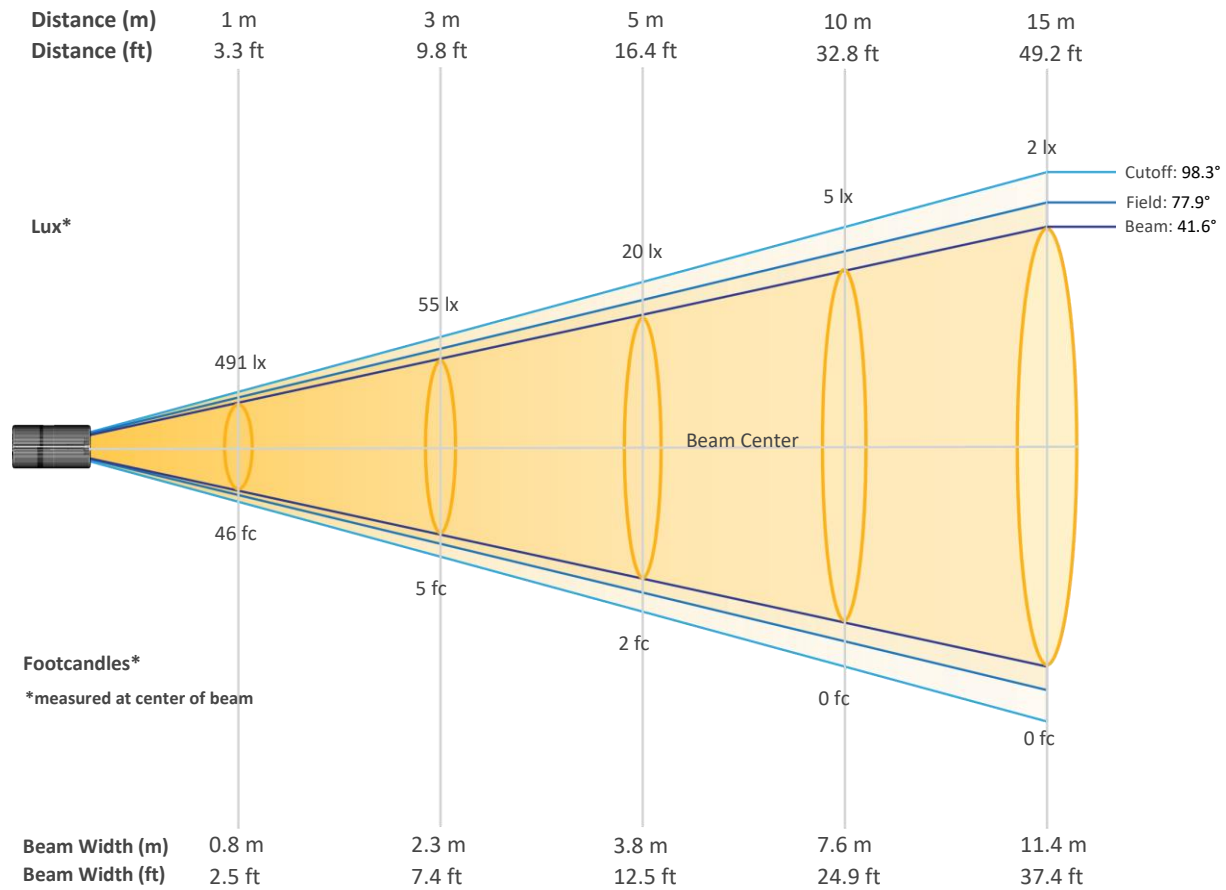
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	491	123	55	31	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	3	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	46	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

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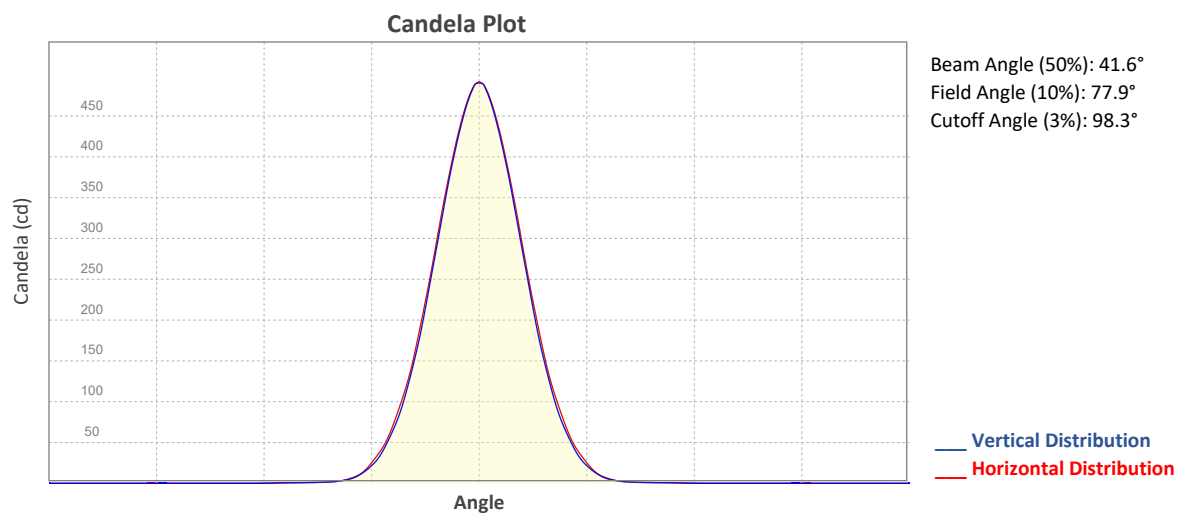
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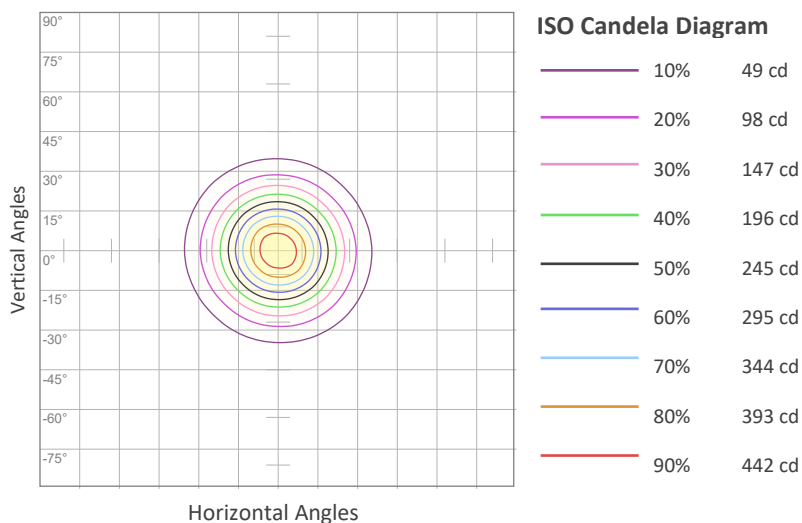
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Photometric & Chromaticity Report

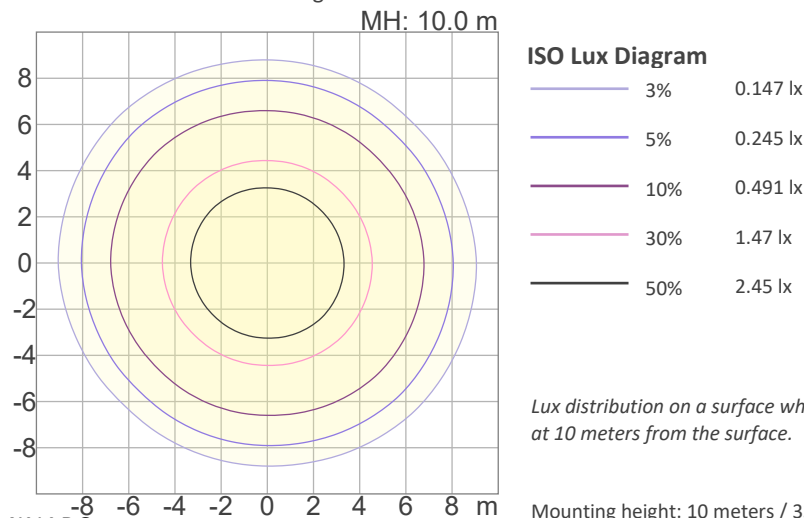
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 491 cd



Conditions:
Number of c-planes: 8
Candela at center: 4.91 lx

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

Mounting height: 10 meters / 33 feet

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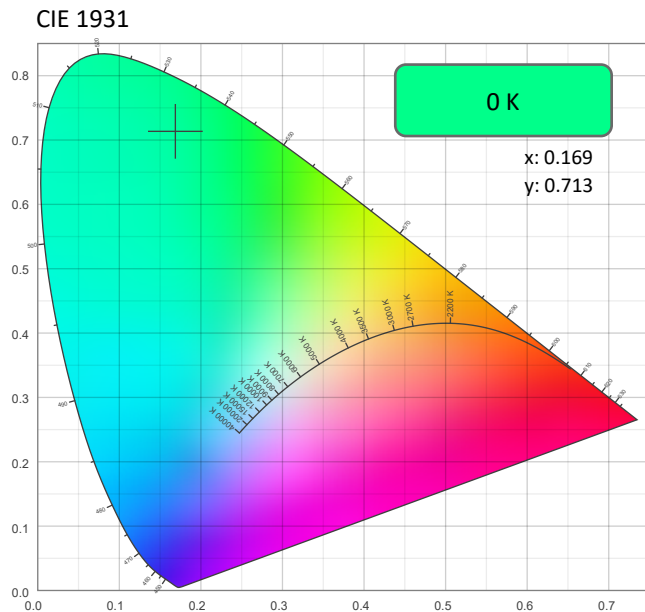
All product specifications, measurements and dimensions are subject to change without notice

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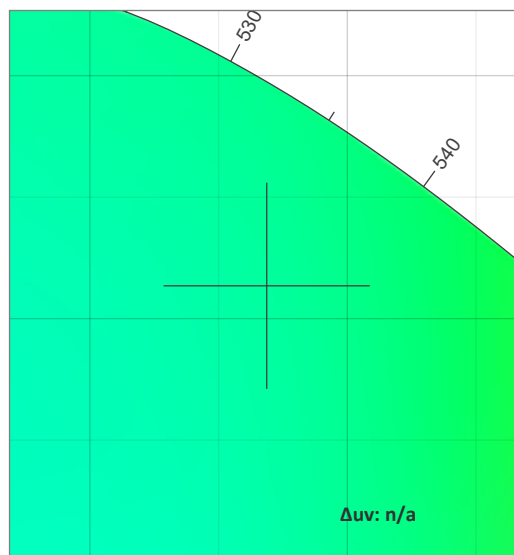
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	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	0.169	0.713

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.713	0.060

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

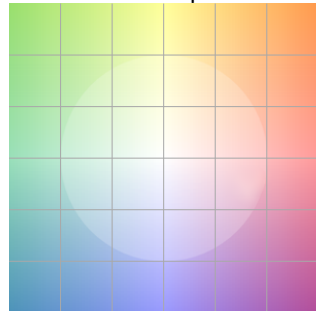
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

TM-30 Details

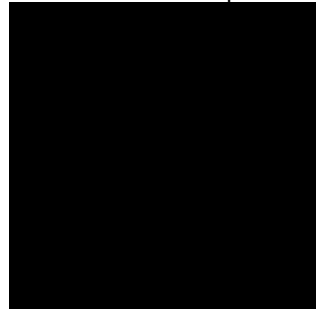
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

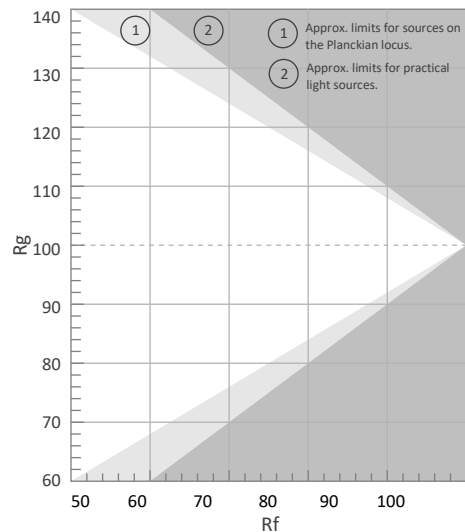
Color Vector Graphic



Color Distortion Graphic



		Graphic shifts (%)	
Hue Bin	R _f	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



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

Report Summary

Measurements

Fixture Output: 89.5 lm

Fixture Peak: 142 cd

Fixture Efficacy: 4 lm/W

Intensity @ 5m: 6 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 43°

Field Angle (10%): 79.8°

Cutoff Angle (3%): 100.2°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.4 W

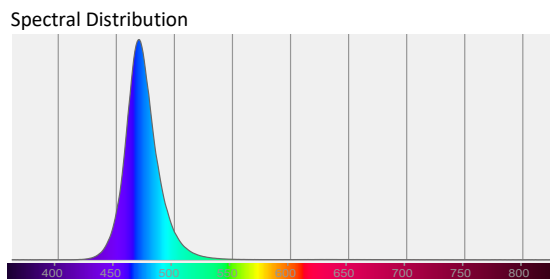
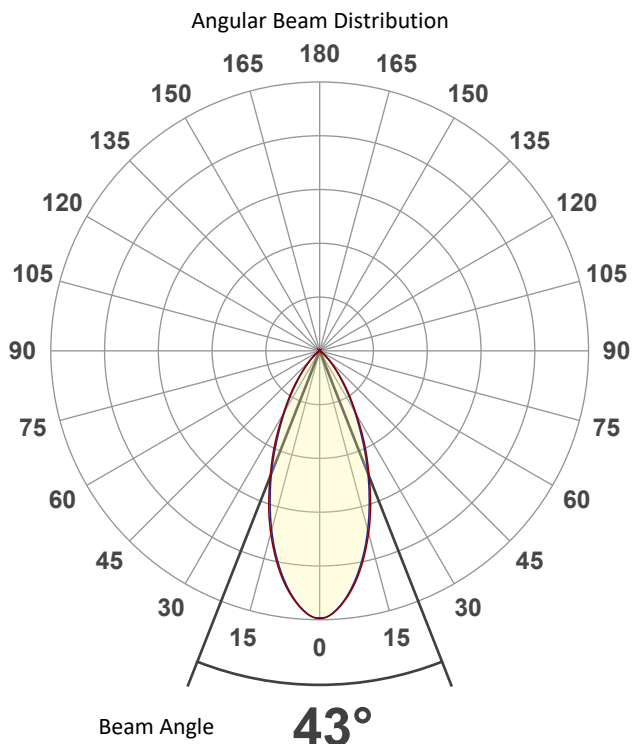
Current: 0.195 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

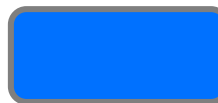
Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.088

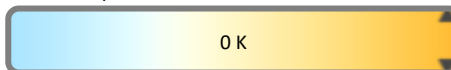


Light Quality

CRI: 0.0

Color Temperature

0 K



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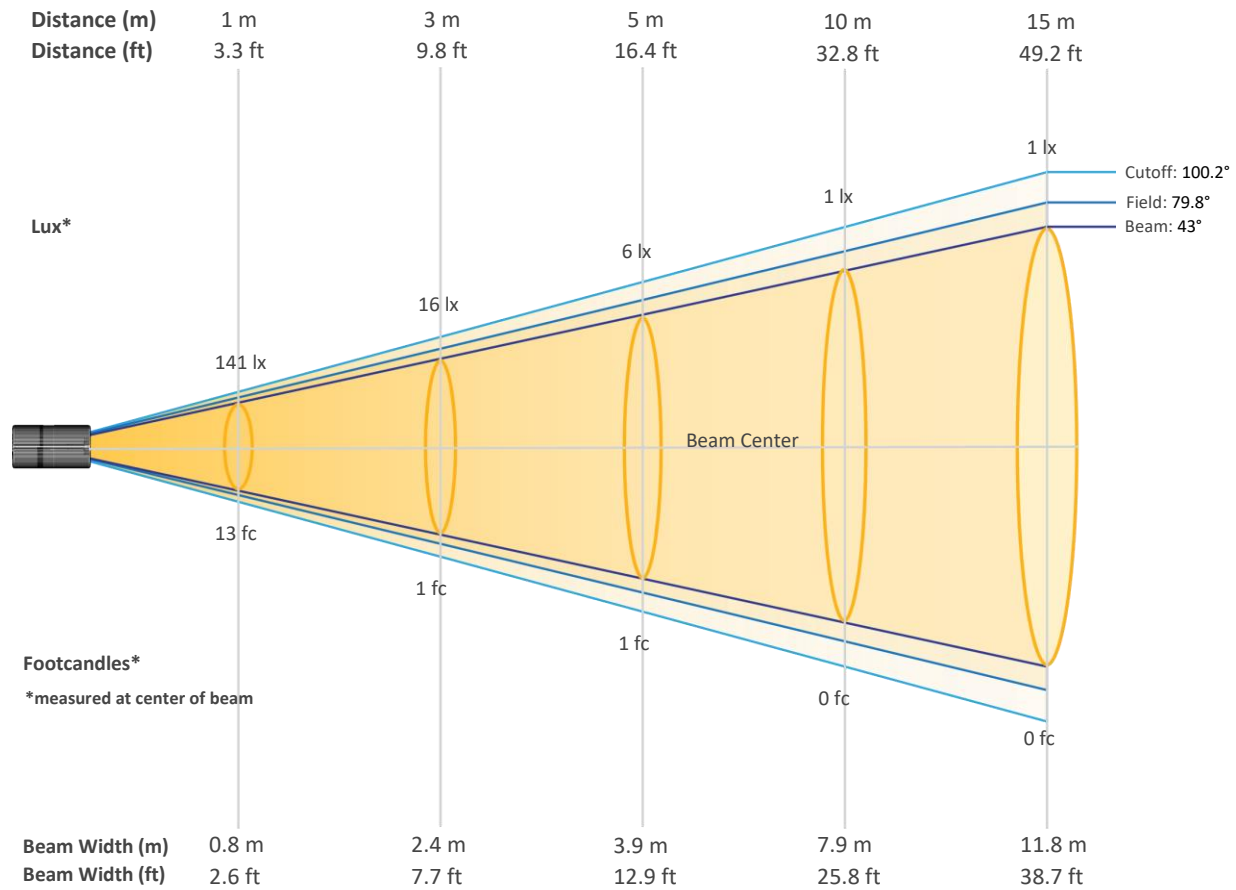
All product specifications, measurements and dimensions are subject to change without notice

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	141	35	16	9	6	4	3	2	2	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	13	3	1	1	1	0	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

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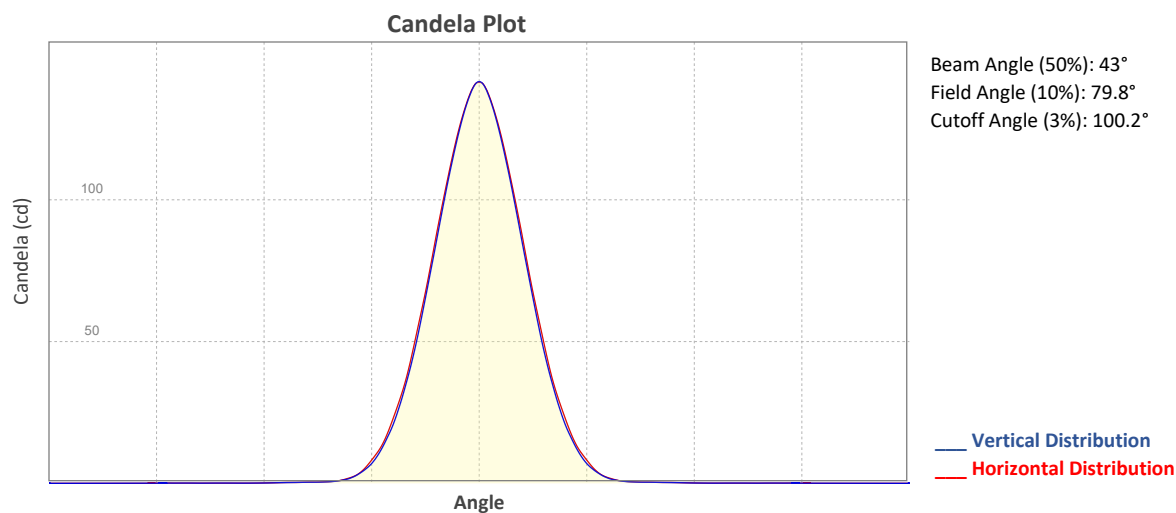
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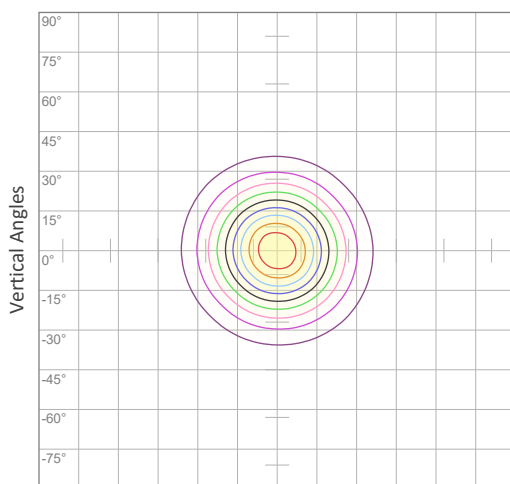
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only



ISO Diagrams



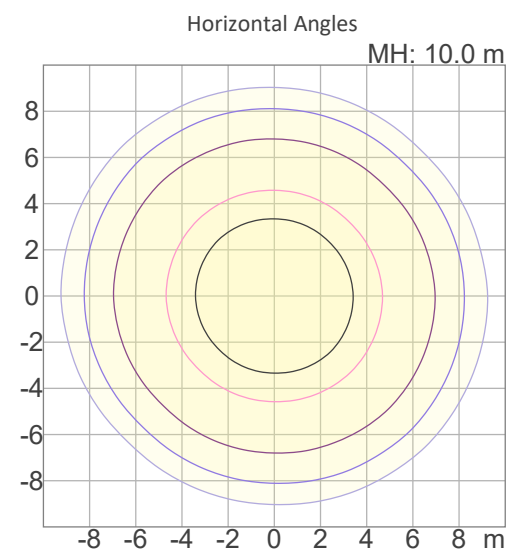
ISO Candela Diagram

10%	14 cd
20%	28 cd
30%	42 cd
40%	57 cd
50%	71 cd
60%	85 cd
70%	99 cd
80%	113 cd
90%	127 cd

Conditions:

Number of c-planes: 8

Candela at center: 141 cd



ISO Lux Diagram

3%	42.4m lx
5%	70.7m lx
10%	0.141 lx
30%	0.424 lx
50%	0.707 lx

Conditions:

Number of c-planes: 8

Candela at center: 1.41 lx

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

Mounting height: 10 meters / 33 feet

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Photometric & Chromaticity Report

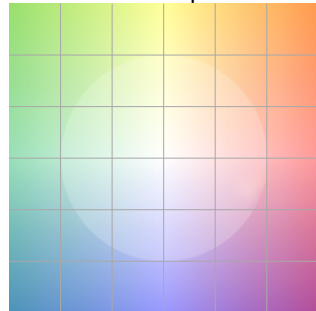
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

TM-30 Details

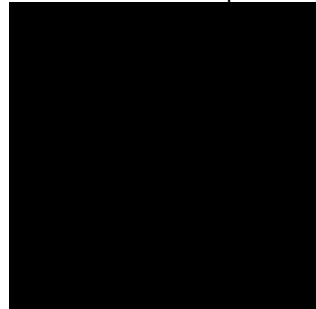
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gamut Index (Rg)

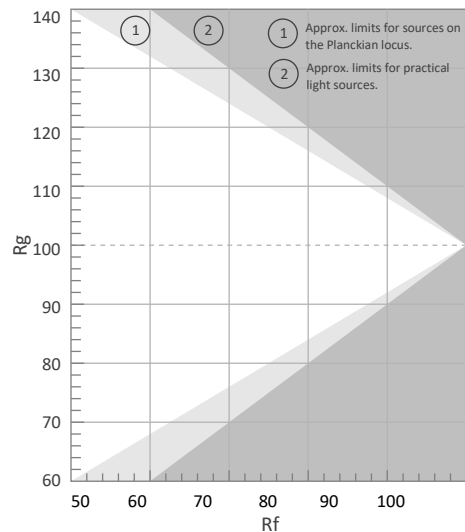
Color Vector Graphic



Color Distortion Graphic



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



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

Report Summary

Measurements

Fixture Output: 211 lm

Fixture Peak: 371 cd

Fixture Efficacy: 11 lm/W

Intensity @ 5m: 15 lux

Color Temperature: 2992 K

CRI: 93.2 CRI R9 Value: 70.7

CQS: 91.2

TLCI: 92

TM-30 Rf: 92.0

TM-30 Rg: 101.6

Beam Angle (50%): 40.3°

Field Angle (10%): 76.4°

Cutoff Angle (3%): 96.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 22.53 W

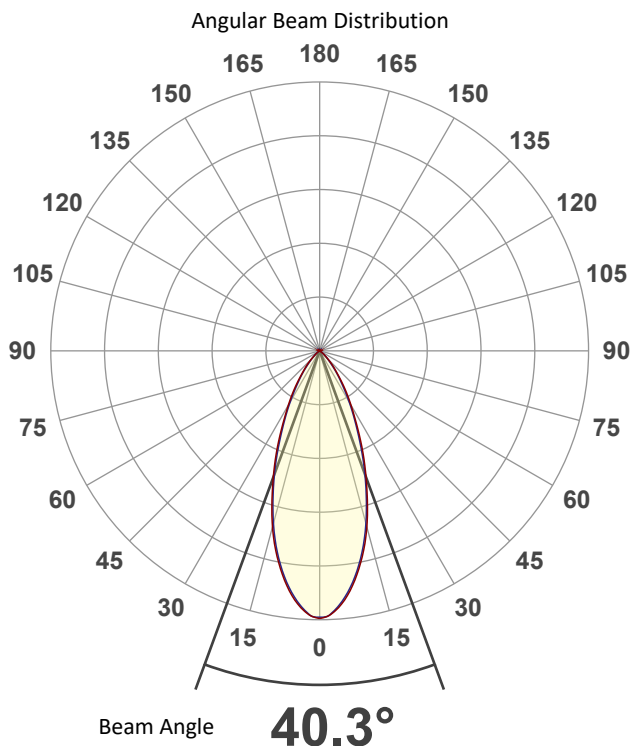
Current: 0.188 A

Power Factor: 0.88



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

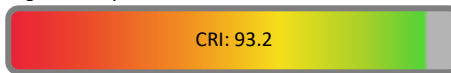
X: 0.439

Y: 0.406



Light Quality

CRI: 93.2



Color Temperature

2992 K



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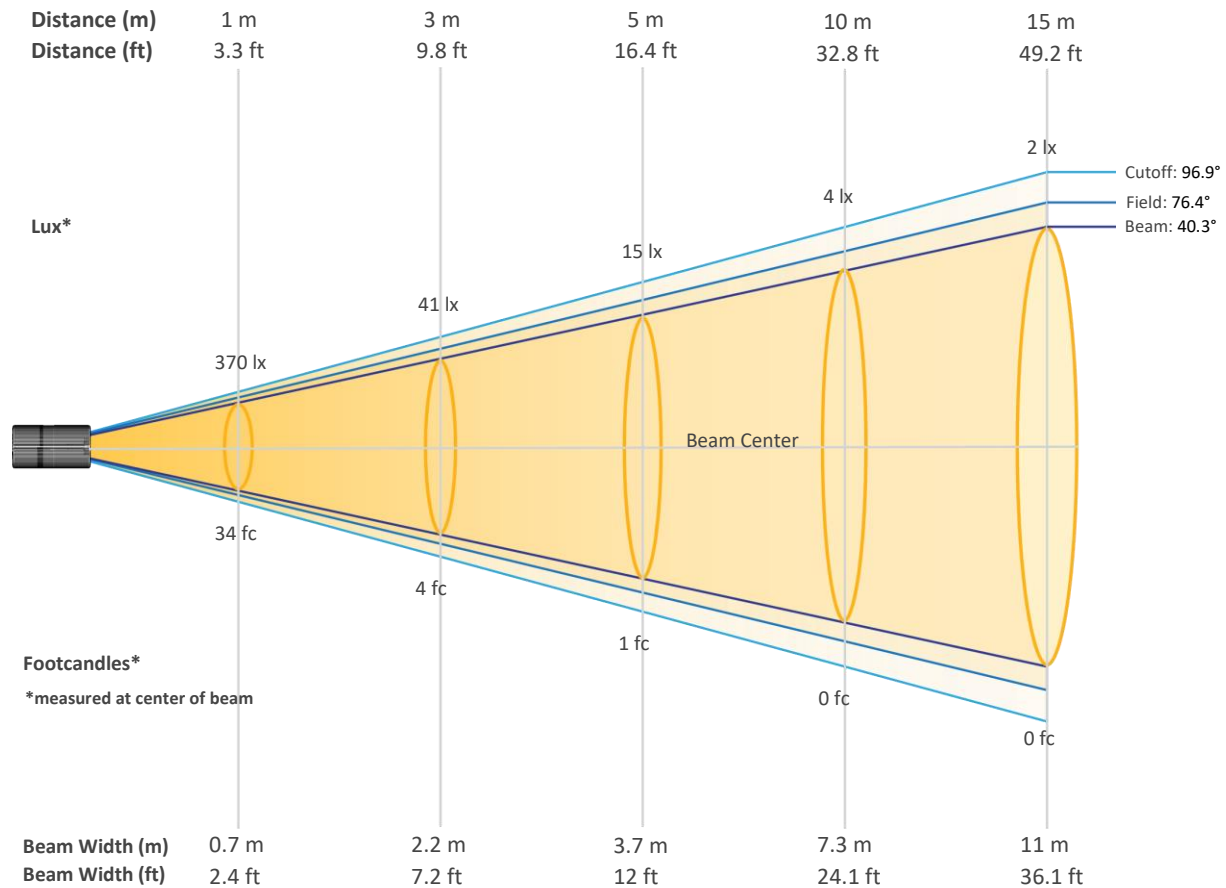
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - 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	370	93	41	23	15	10	8	6	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	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	34	9	4	2	1	1	1	1	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

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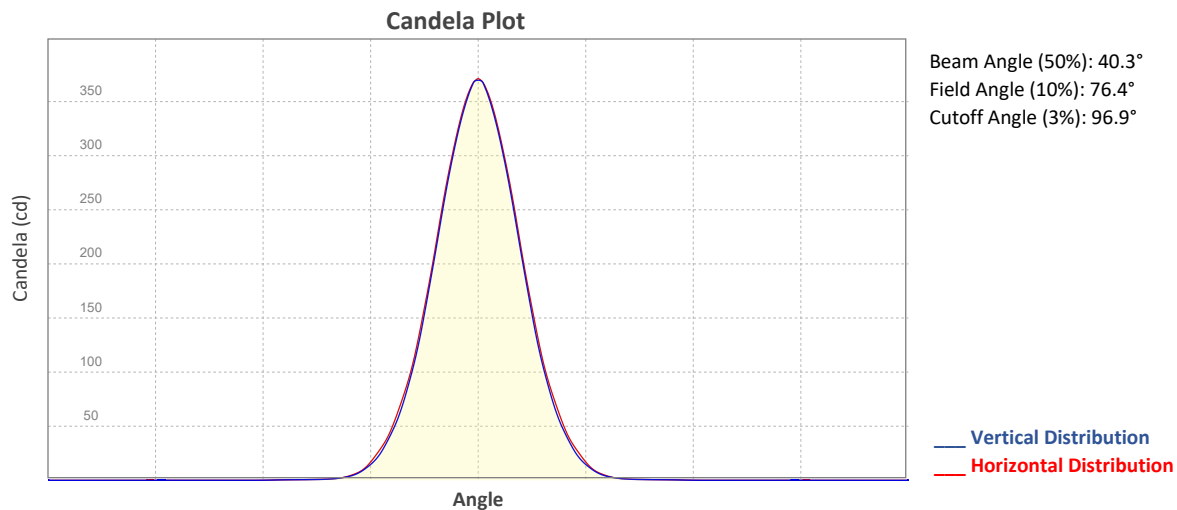
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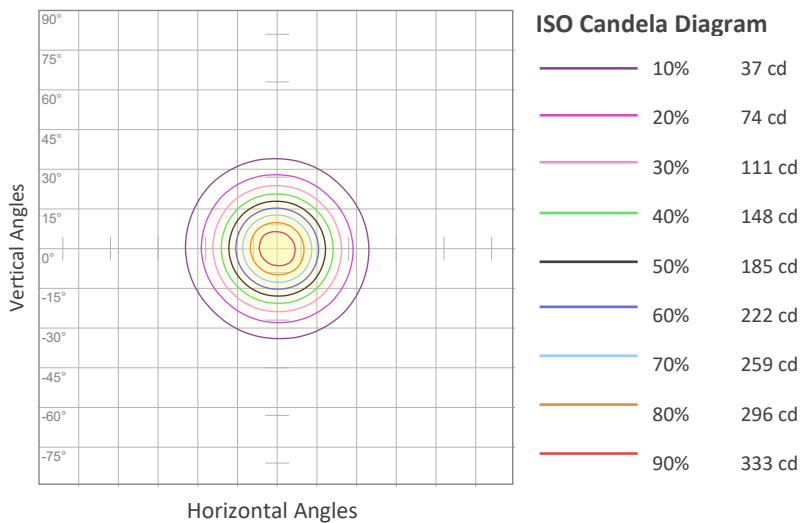
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Photometric & Chromaticity Report

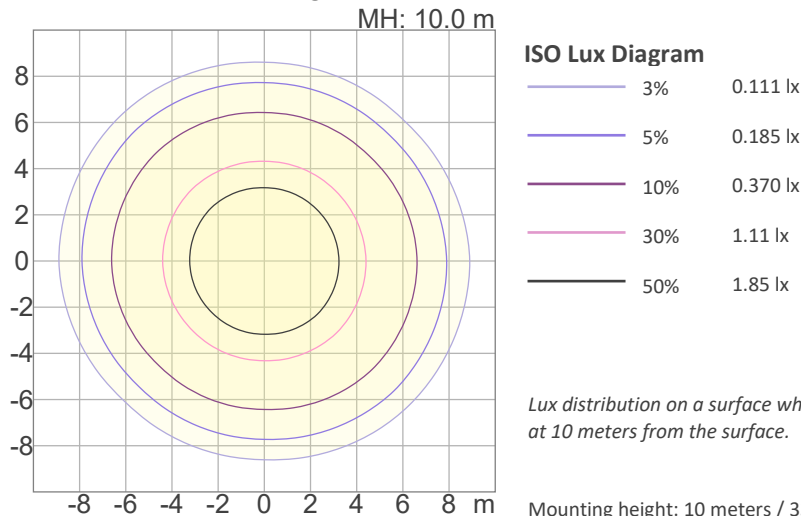
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 370 cd



Conditions:
Number of c-planes: 8
Candela at center: 3.70 lx

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

Mounting height: 10 meters / 33 feet

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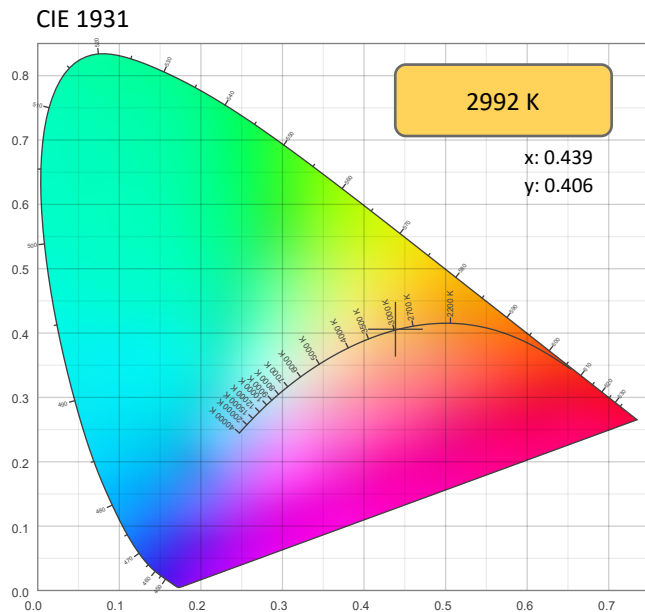
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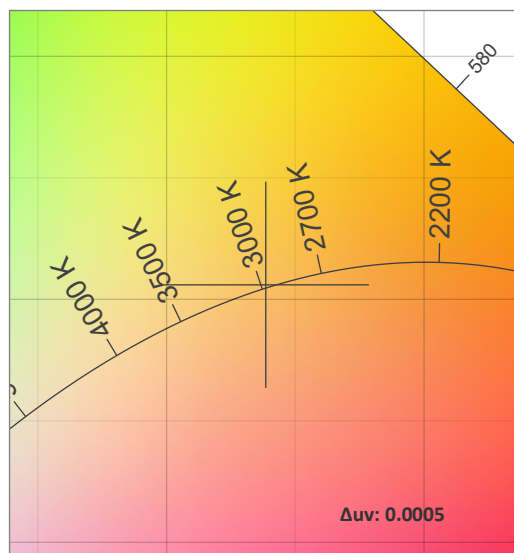
Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

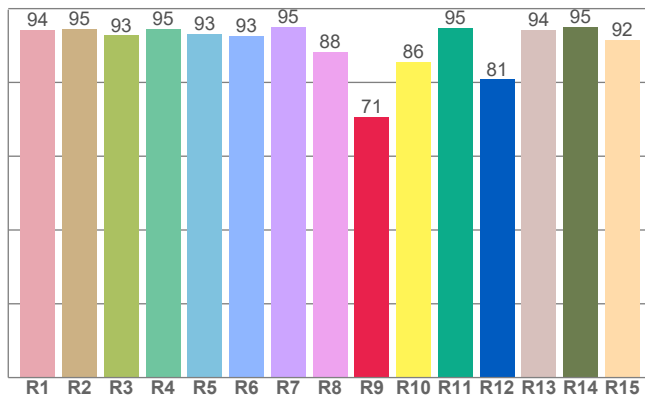
Chromaticity



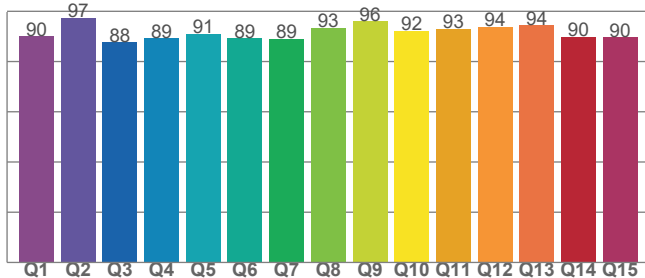
CIE 1931 - Zoom



CRI: 93.2 (R1-R8)



CQS: 91.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2992 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.2	70.7	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.6

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

TM-30 Details

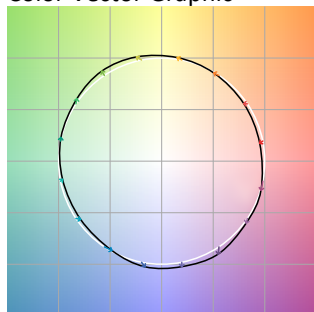
Rf 92.0

Fidelity Index
(Rg)

Rg 101.6

Gamut Index (Rg)

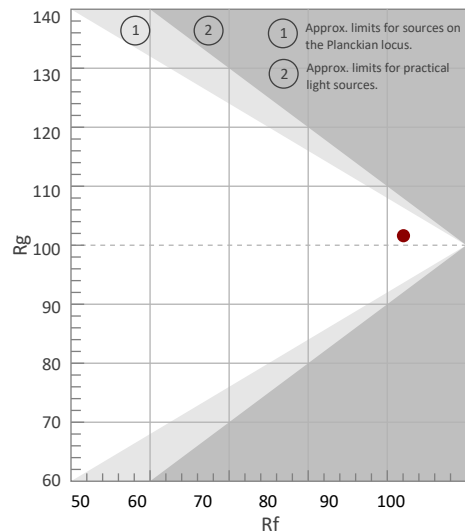
Color Vector Graphic



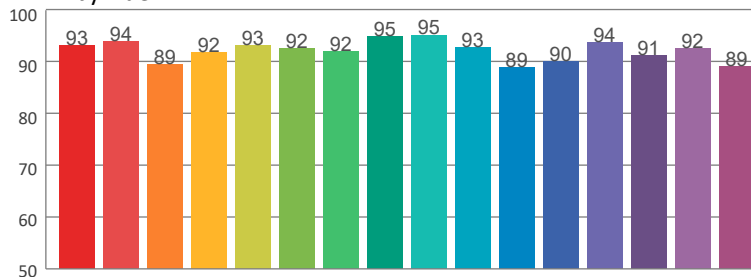
Color Distortion Graphic



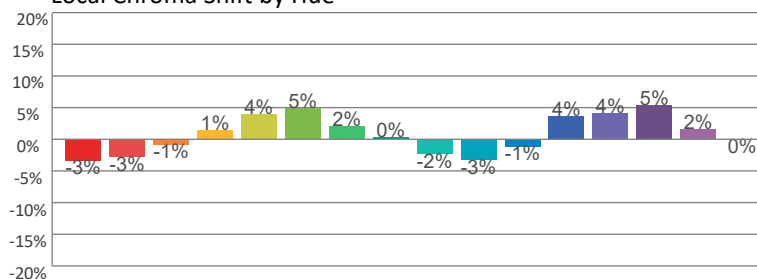
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	5%
4	92	1%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	92	2%	-4%
16	89	0%	-9%



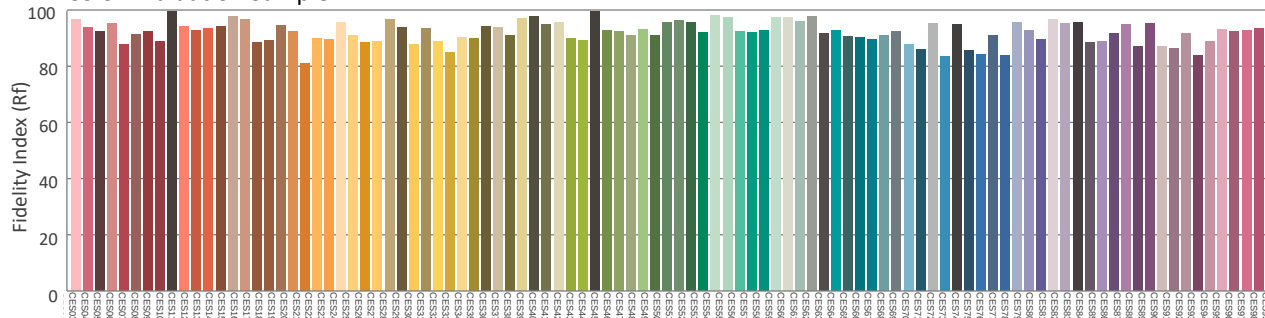
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 1062 lm

Fixture Peak: 876 cd

Fixture Efficacy: 27 lm/W

Intensity @ 5m: 35 lux

Color Temperature: 6522 K

CRI: 48.7 CRI R9 Value: -161.7

CQS: 61.4

TLCI: 26

TM-30 Rf: 60.2

TM-30 Rg: 102.4

Beam Angle (50%): 61.8°

Field Angle (10%): 111.4°

Cutoff Angle (3%): 137.8°

Conditions

AC Supply: 120 V, 60 Hz

Power: 40.89 W

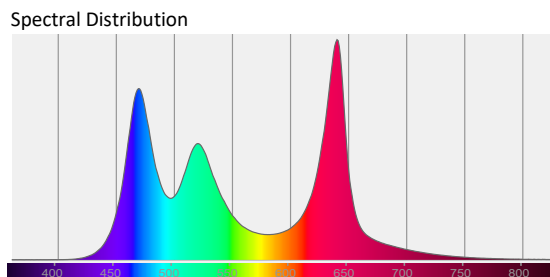
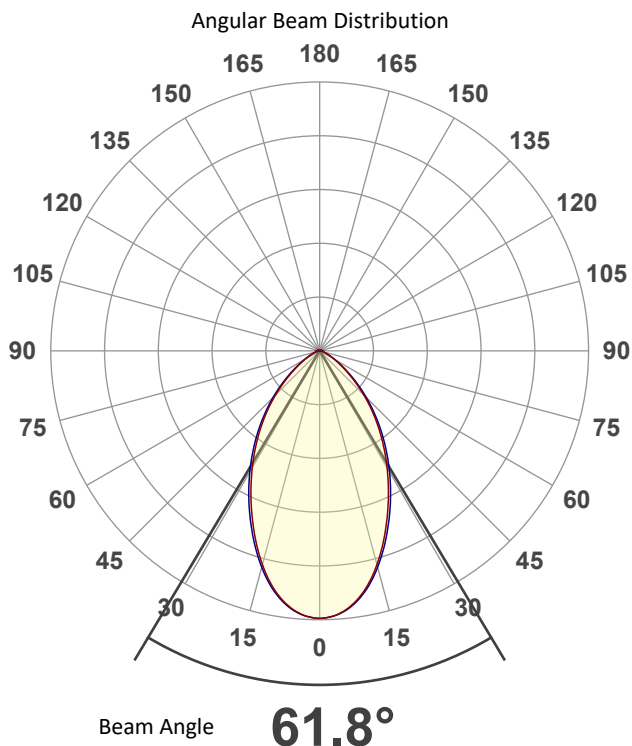
Current: 0.342 A

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 5/20/2022 to LM-63-2002 Standards.

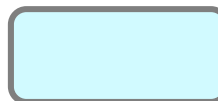
Overall Measurement



Tested Color (CIE 1931):

X: 0.313

Y: 0.329

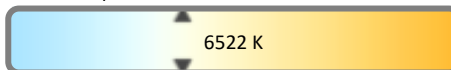


Light Quality

CRI: 48.7

Color Temperature

6522 K



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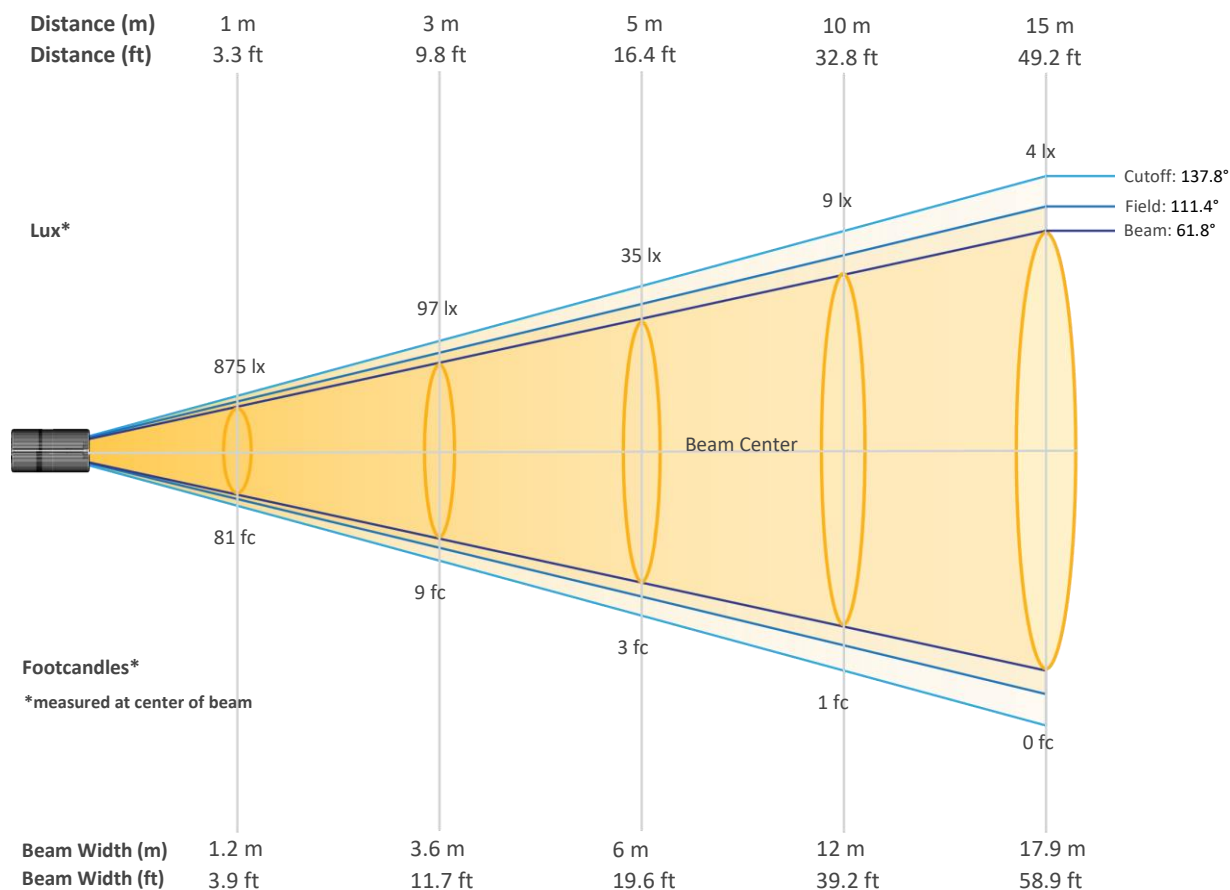
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	875	219	97	55	35	24	18	14	11	9
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	81	20	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

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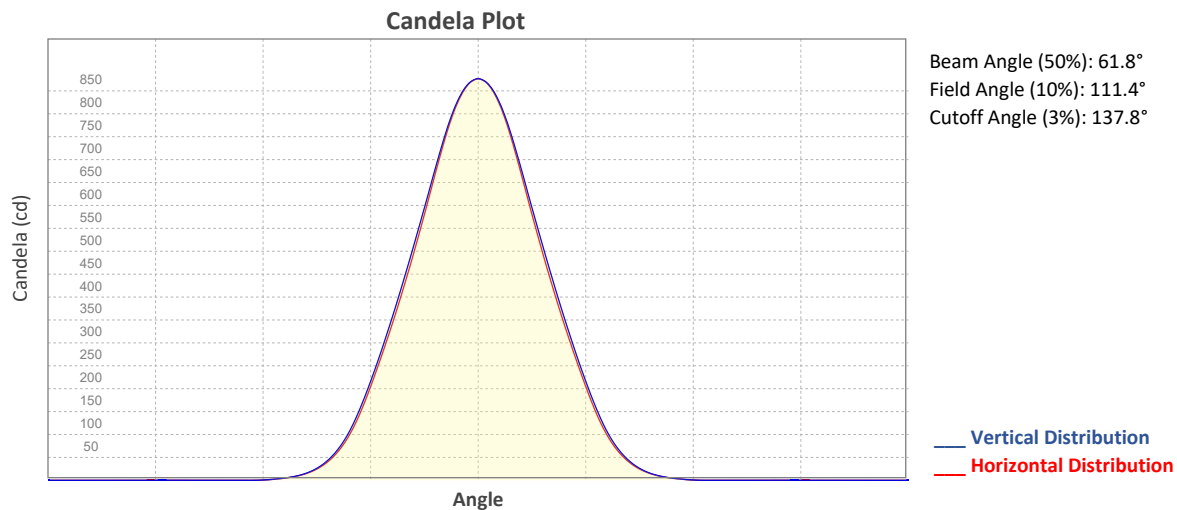
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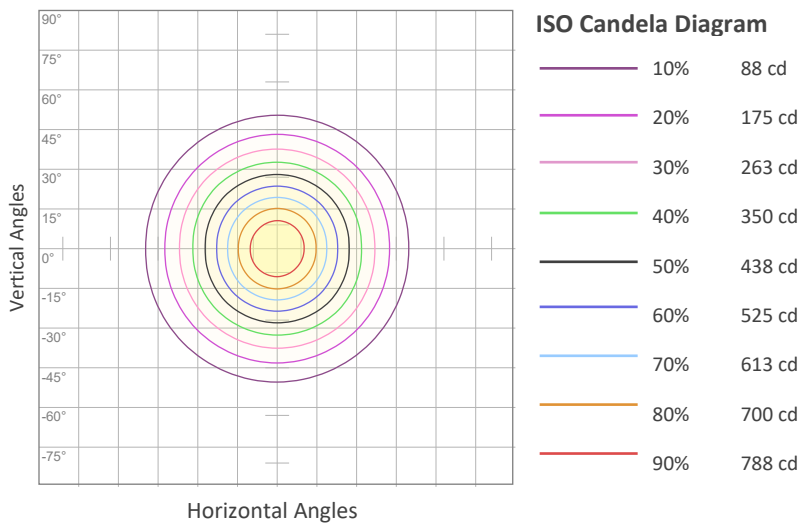
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Photometric & Chromaticity Report

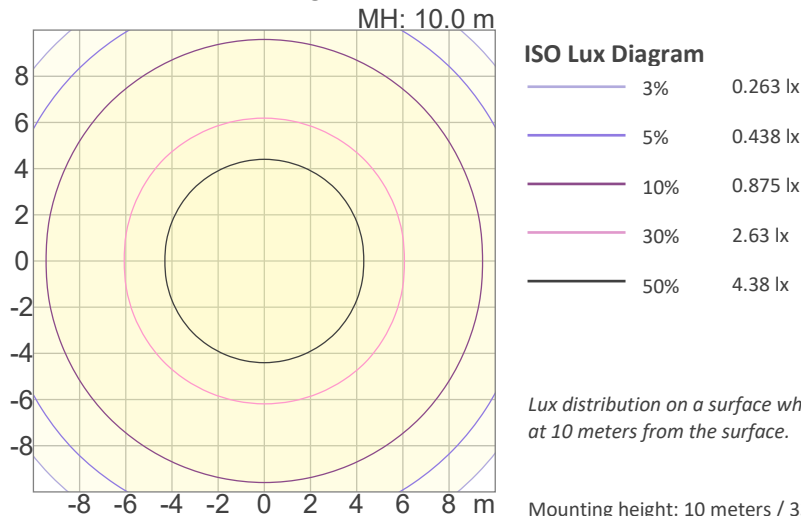
Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 875 cd



Conditions:
Number of c-planes: 8
Candela at center: 8.75 lx

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

Mounting height: 10 meters / 33 feet

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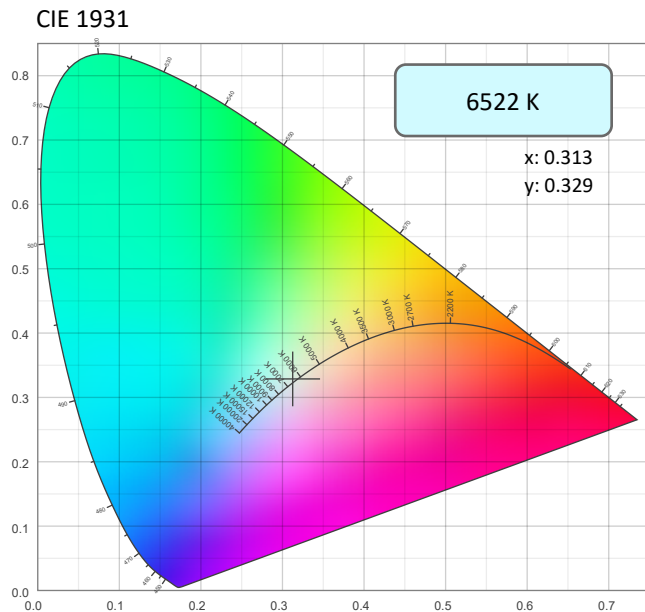
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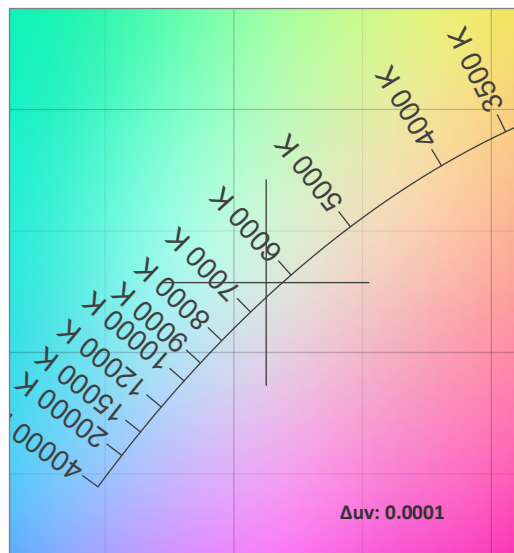
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

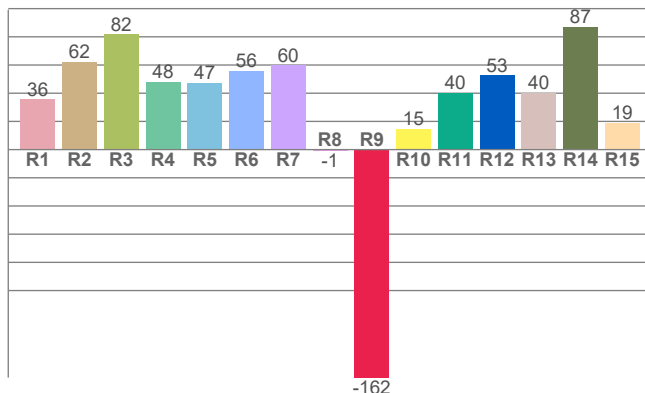
Chromaticity



CIE 1931 - Zoom



CRI: 48.7 (R1-R8)

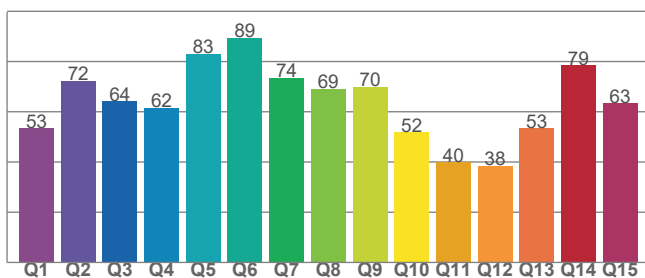


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6522 K	0.313	0.329

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.329	0.198

CQS: 61.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.7	-161.7	61.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.2	102.4

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

TM-30 Details

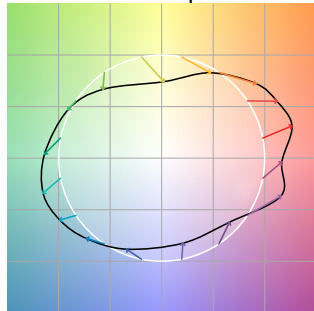
Rf 60.2

Fidelity Index
(Rg)

Rg 102.4

Gamut Index (Rg)

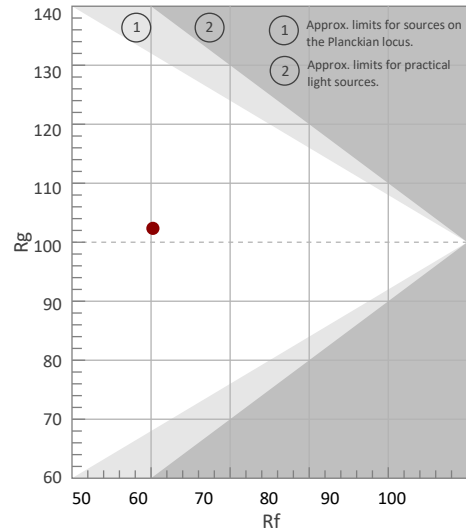
Color Vector Graphic



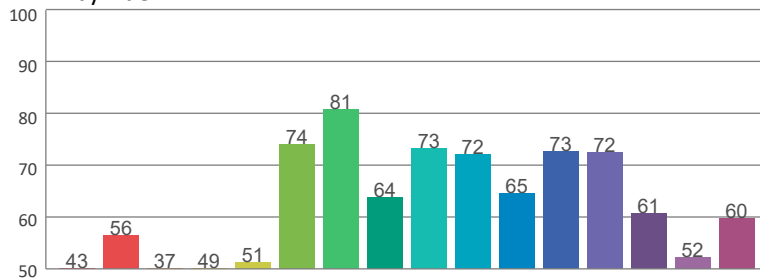
Color Distortion Graphic



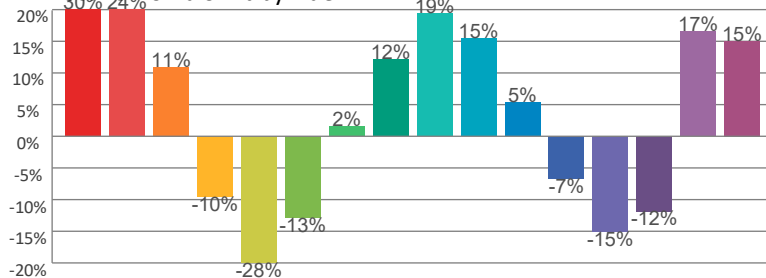
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	43	30%	6%
2	56	24%	-16%
3	37	11%	-36%
4	49	-10%	-30%
5	51	-28%	-17%
6	74	-13%	10%
7	81	2%	11%
8	64	12%	18%
9	73	19%	11%
10	72	15%	-5%
11	65	5%	-17%
12	73	-7%	-16%
13	72	-15%	4%
14	61	-12%	20%
15	52	17%	34%
16	60	15%	19%



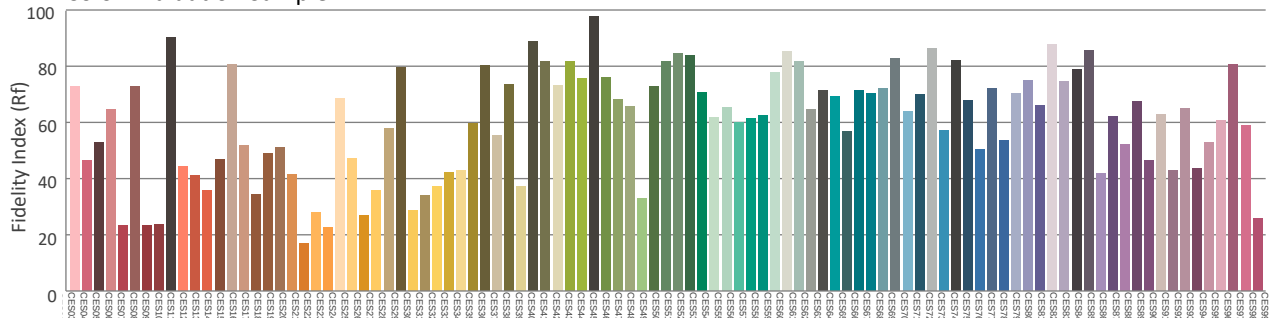
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only

Report Summary

Measurements

Fixture Output: 231 lm

Fixture Peak: 190 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

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 62.1°

Field Angle (10%): 111.3°

Cutoff Angle (3%): 137.3°

Conditions

AC Supply: 120 V, 60 Hz

Power: 21.69 W

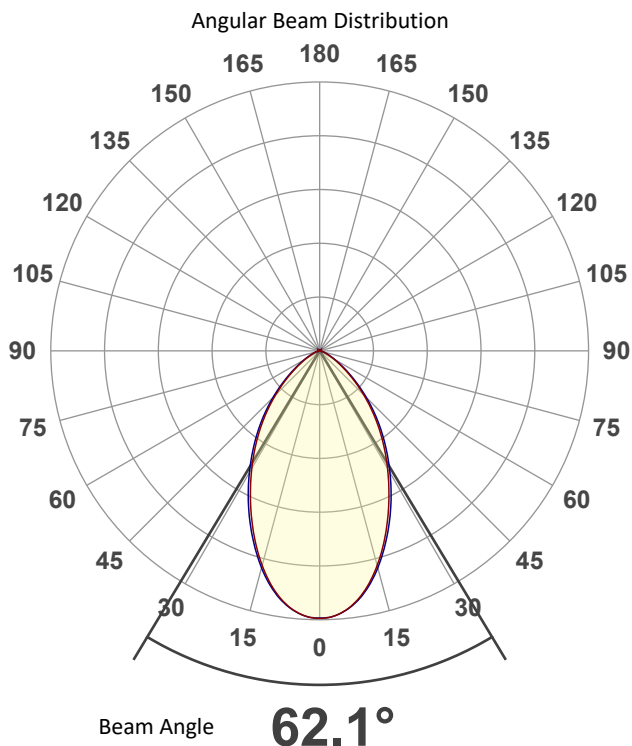
Current: 0.181 A

Power Factor: 0.88

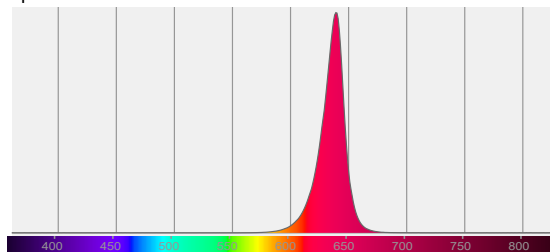


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

X: 0.702

Y: 0.298



Light Quality

CRI: 0.0

Color Temperature

0 K

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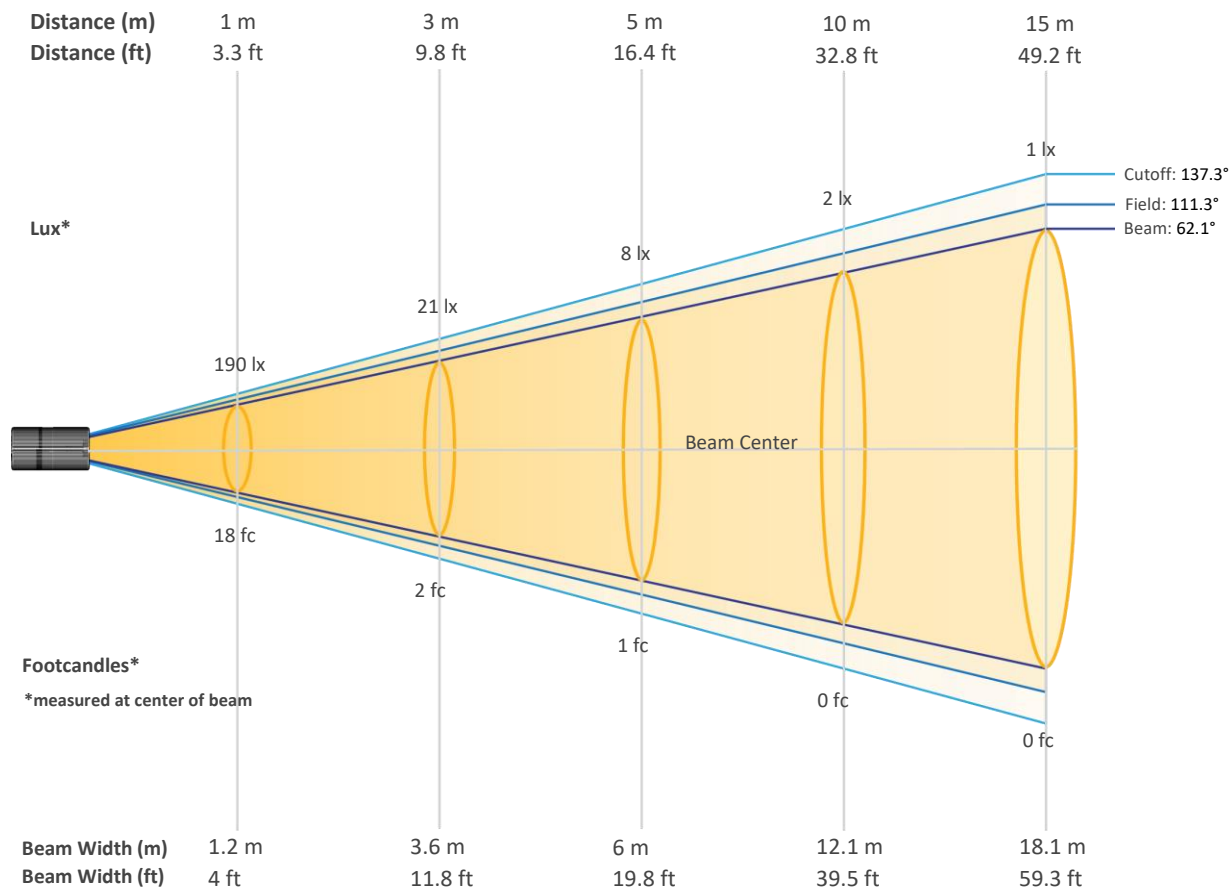
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	190	47	21	12	8	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	18	4	2	1	1	0	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

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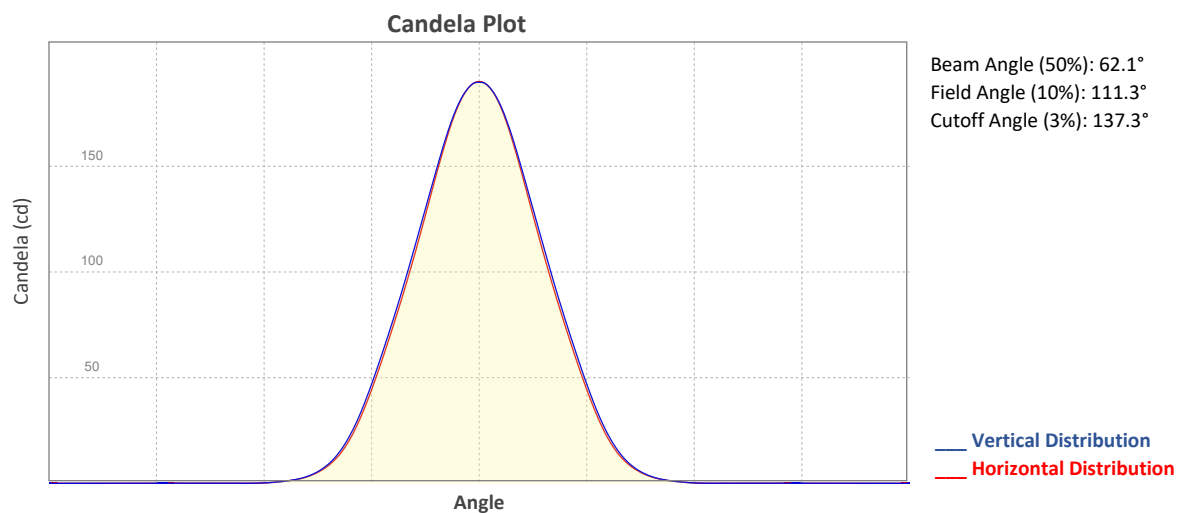
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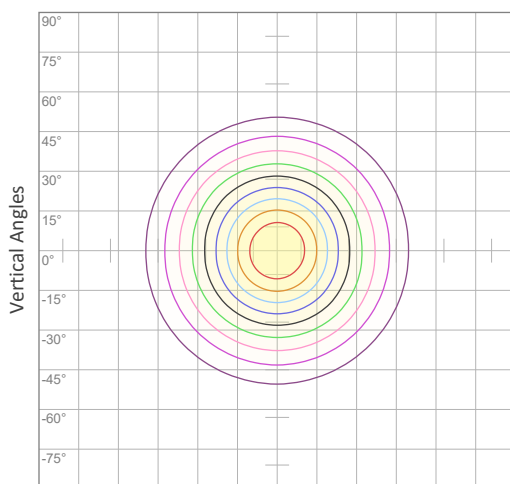
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only



ISO Diagrams



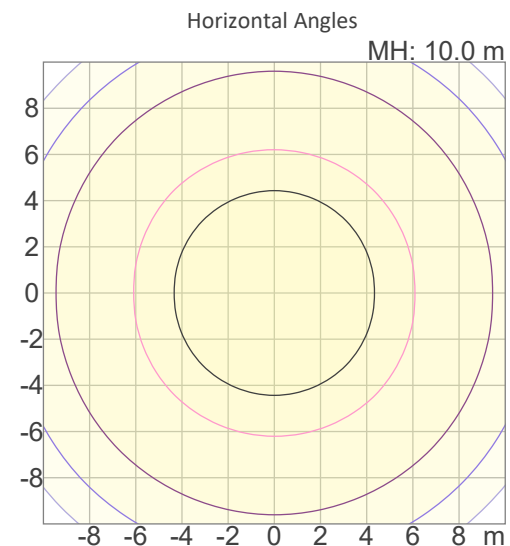
ISO Candela Diagram

10%	19 cd
20%	38 cd
30%	57 cd
40%	76 cd
50%	95 cd
60%	114 cd
70%	133 cd
80%	152 cd
90%	171 cd

Conditions:

Number of c-planes: 8

Candela at center: 190 cd



ISO Lux Diagram

3%	56.9m lx
5%	94.8m lx
10%	0.190 lx
30%	0.569 lx
50%	0.948 lx

Conditions:

Number of c-planes: 8

Candela at center: 1.90 lx

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

Mounting height: 10 meters / 33 feet

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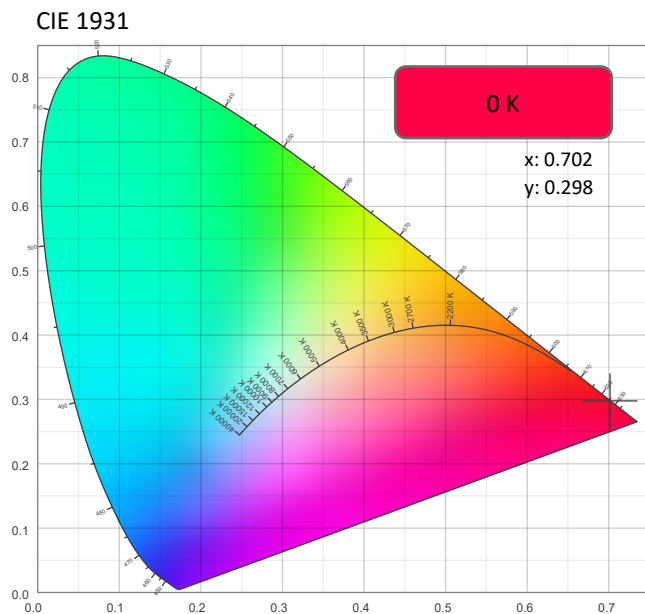
All product specifications, measurements and dimensions are subject to change without notice

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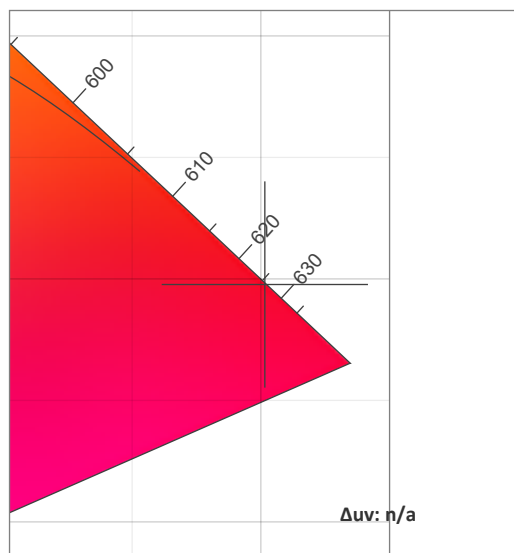
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red 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	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	0.702	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.543

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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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only

TM-30 Details

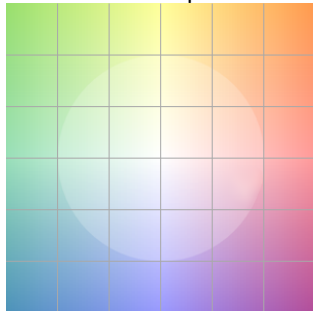
Rf 0.0

Fidelity Index
(Rg)

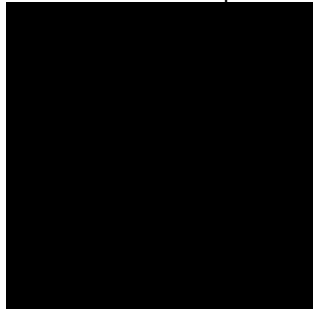
Rg 0.0

Gamut Index (Rg)

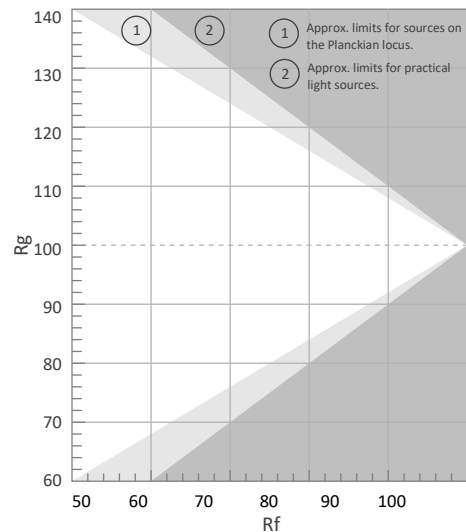
Color Vector Graphic



Color Distortion Graphic



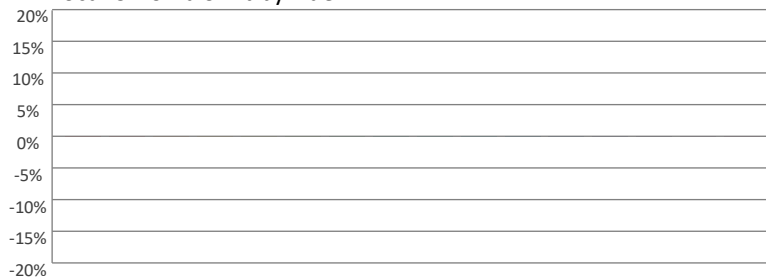
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only

Report Summary

Measurements

Fixture Output: 502 lm

Fixture Peak: 408 cd

Fixture Efficacy: 24 lm/W

Intensity @ 5m: 16 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 62.5°

Field Angle (10%): 112°

Cutoff Angle (3%): 138.3°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.48 W

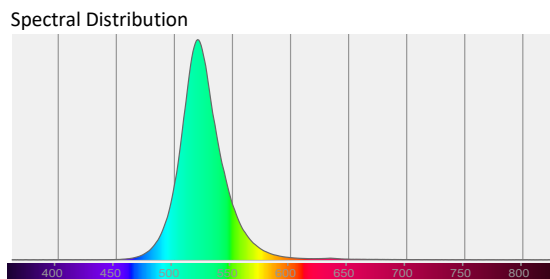
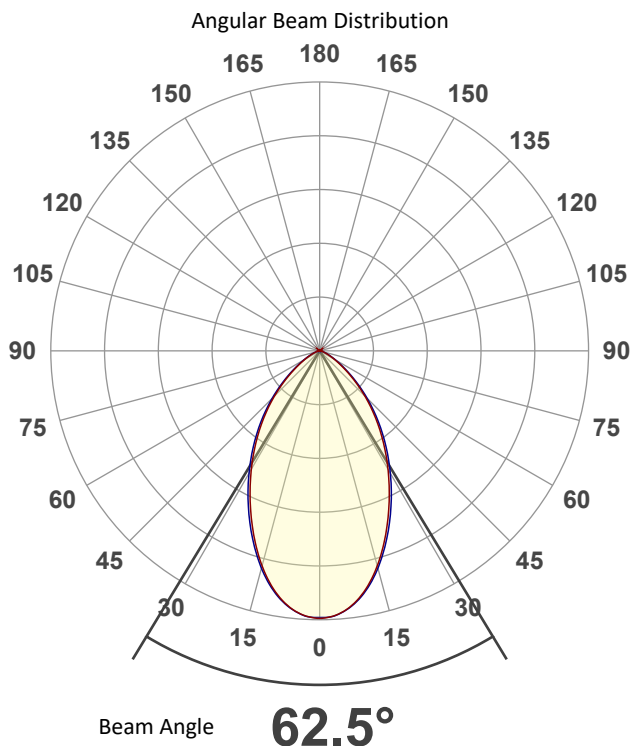
Current: 0.196 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.168

Y: 0.714

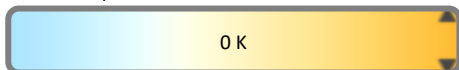


Light Quality

CRI: 0.0

Color Temperature

0 K



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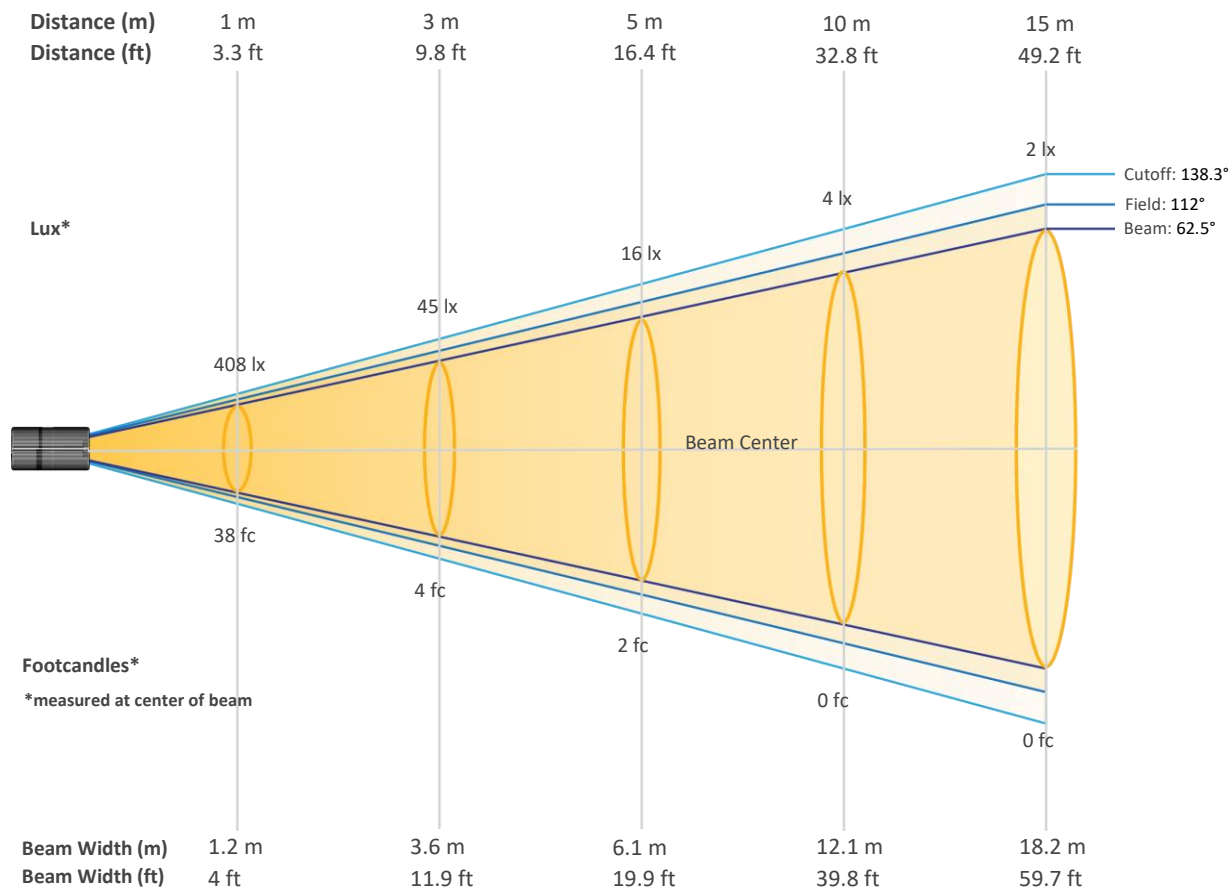
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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	408	102	45	25	16	11	8	6	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	2	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	38	9	4	2	2	1	1	1	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

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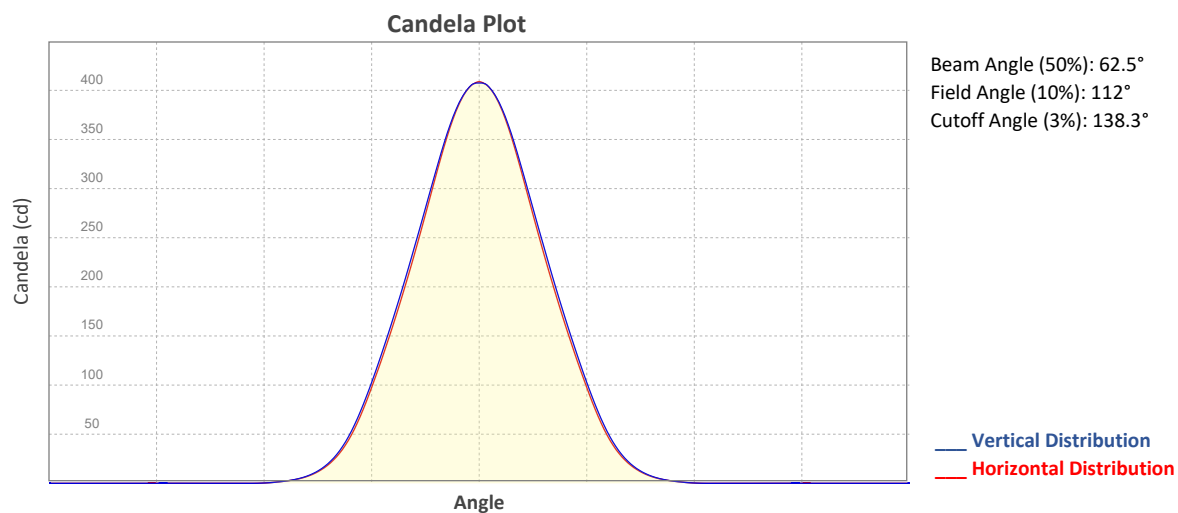
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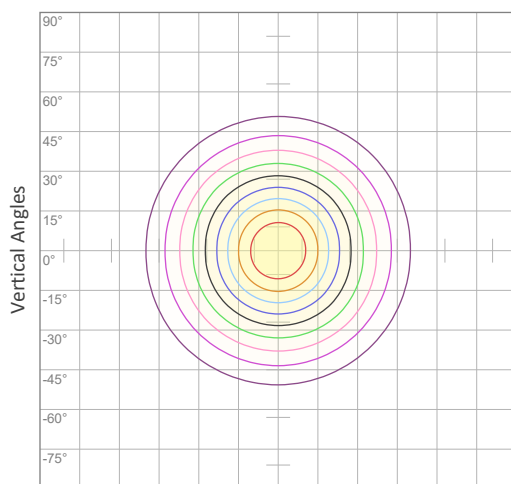
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only



ISO Diagrams



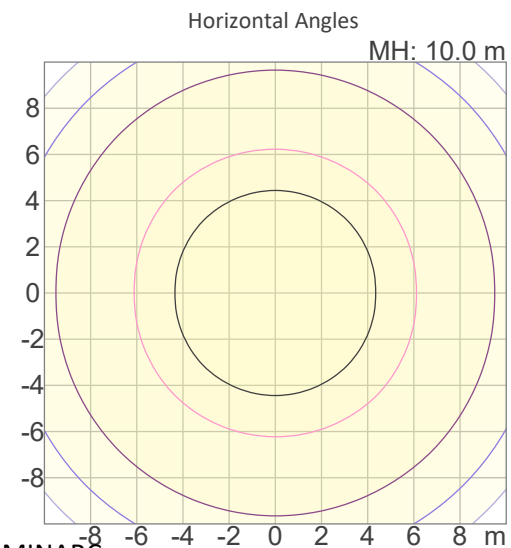
ISO Candela Diagram

10%	41 cd
20%	82 cd
30%	122 cd
40%	163 cd
50%	204 cd
60%	245 cd
70%	286 cd
80%	326 cd
90%	367 cd

Conditions:

Number of c-planes: 8

Candela at center: 408 cd



ISO Lux Diagram

3%	0.122 lx
5%	0.204 lx
10%	0.408 lx
30%	1.22 lx
50%	2.04 lx

Conditions:

Number of c-planes: 8

Candela at center: 4.08 lx

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

Mounting height: 10 meters / 33 feet

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Photometric & Chromaticity Report

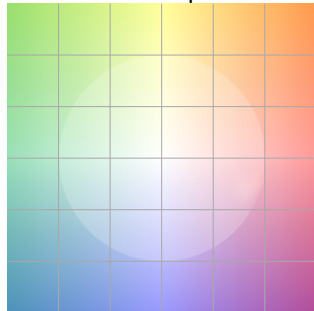
Logic AR111 Downlight M: Wide Filter Lens - Green Only

TM-30 Details

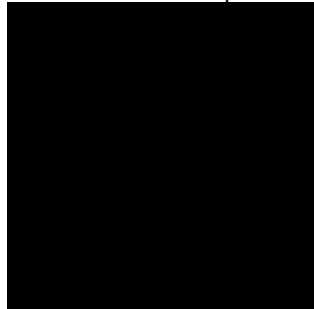
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

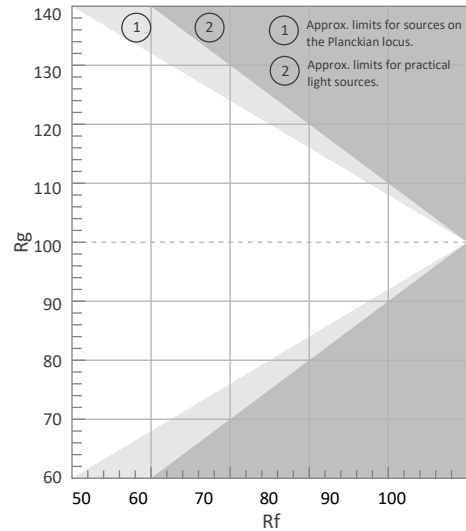
Color Vector Graphic



Color Distortion Graphic



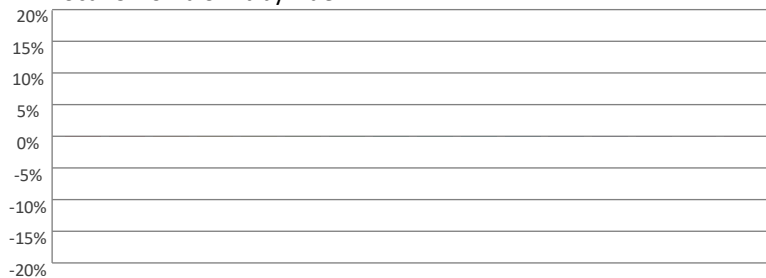
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only

Report Summary

Measurements

Fixture Output: 156 lm

Fixture Peak: 119 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 5 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 65.6°

Field Angle (10%): 115.5°

Cutoff Angle (3%): 141.1°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.41 W

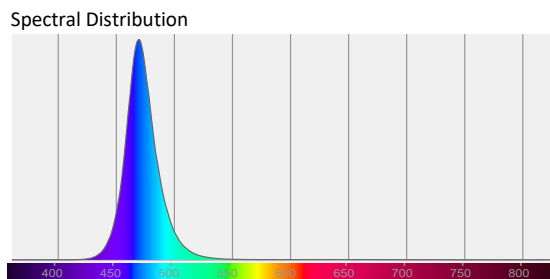
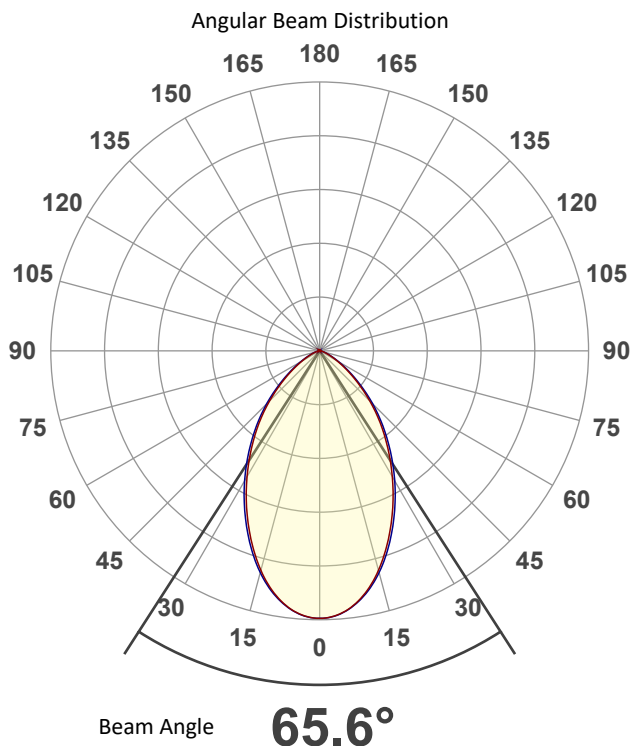
Current: 0.196 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

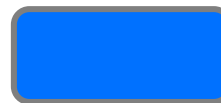
Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.088

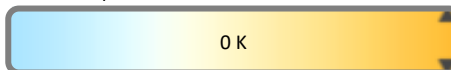


Light Quality

CRI: 0.0

Color Temperature

0 K



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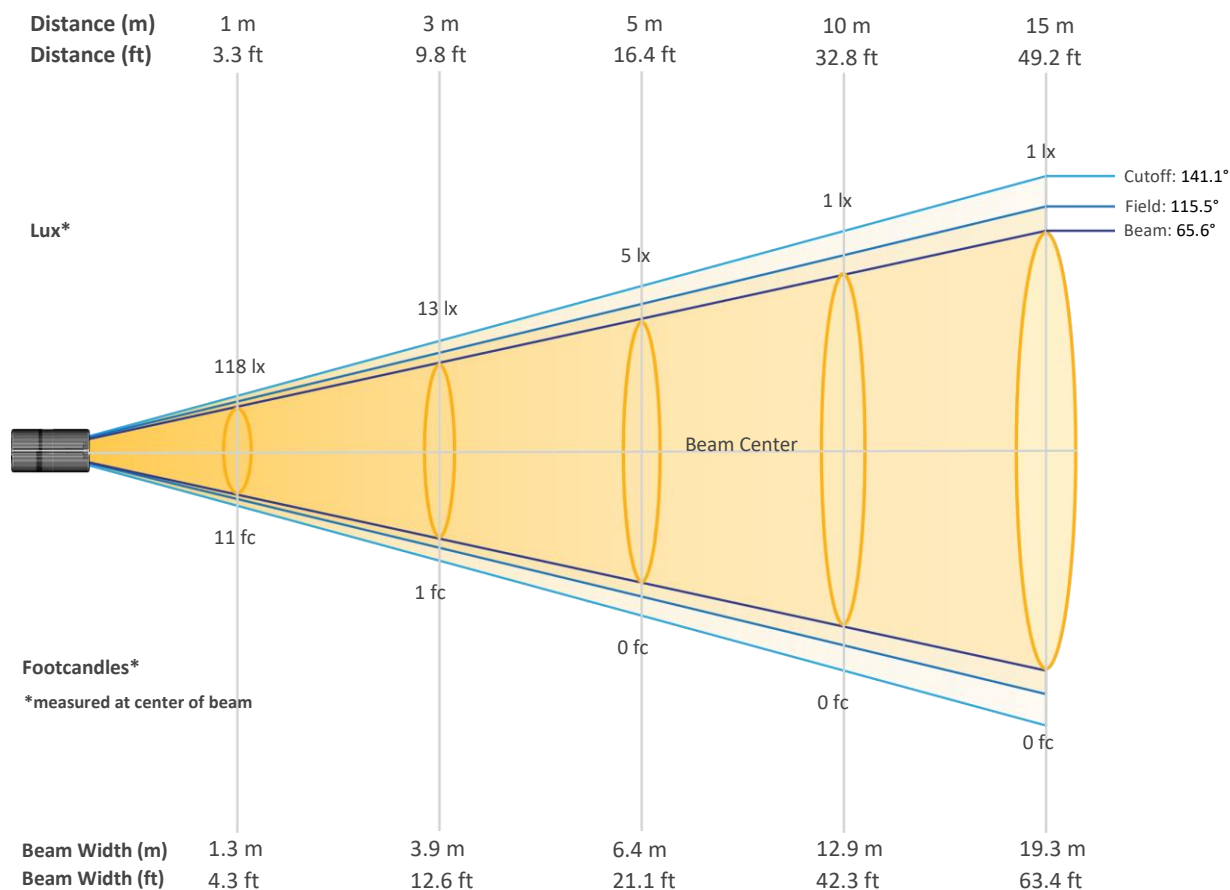
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	118	30	13	7	5	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	11	3	1	1	0	0	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

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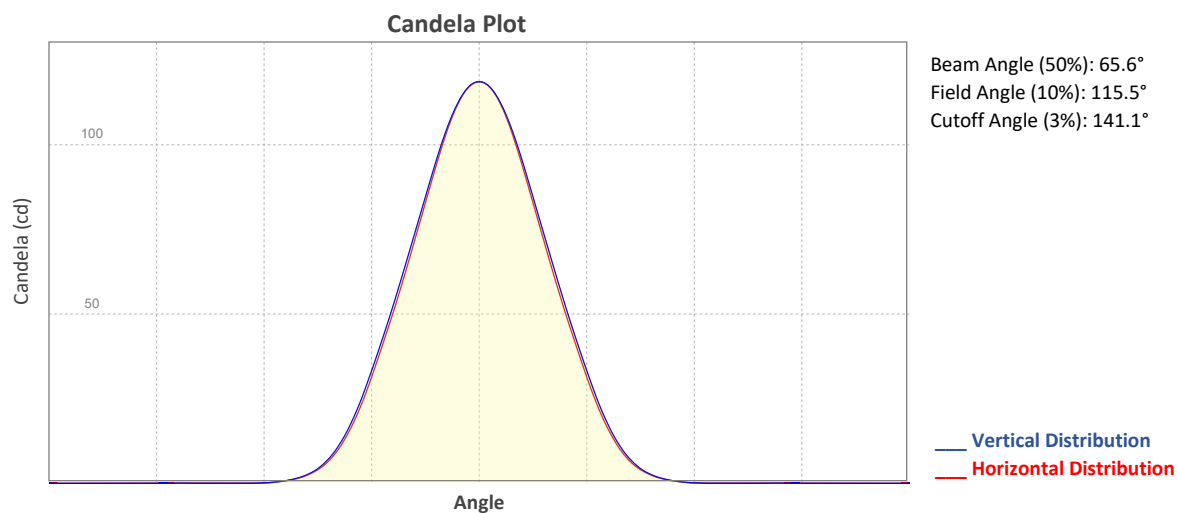
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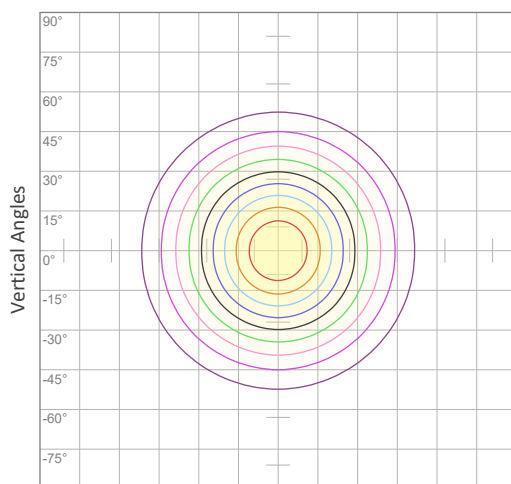
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only



ISO Diagrams



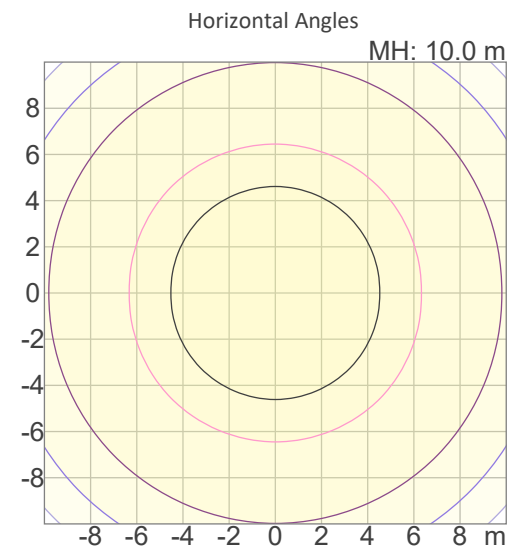
ISO Candela Diagram

10%	12 cd
20%	24 cd
30%	36 cd
40%	47 cd
50%	59 cd
60%	71 cd
70%	83 cd
80%	95 cd
90%	107 cd

Conditions:

Number of c-planes: 8

Candela at center: 118 cd



ISO Lux Diagram

3%	35.5m lx
5%	59.2m lx
10%	0.118 lx
30%	0.355 lx
50%	0.592 lx

Conditions:

Number of c-planes: 8

Candela at center: 1.18 lx

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

Mounting height: 10 meters / 33 feet

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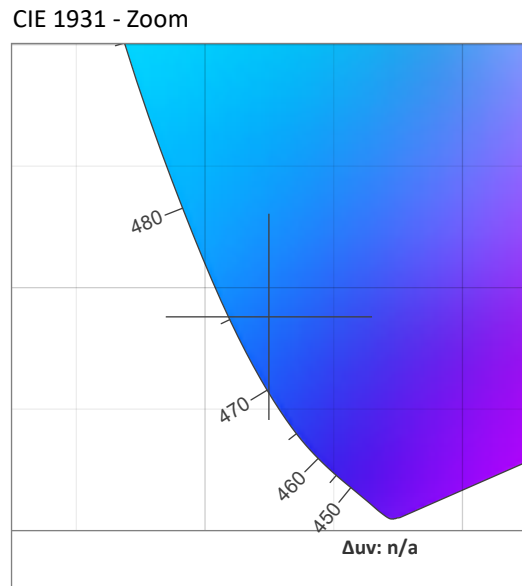
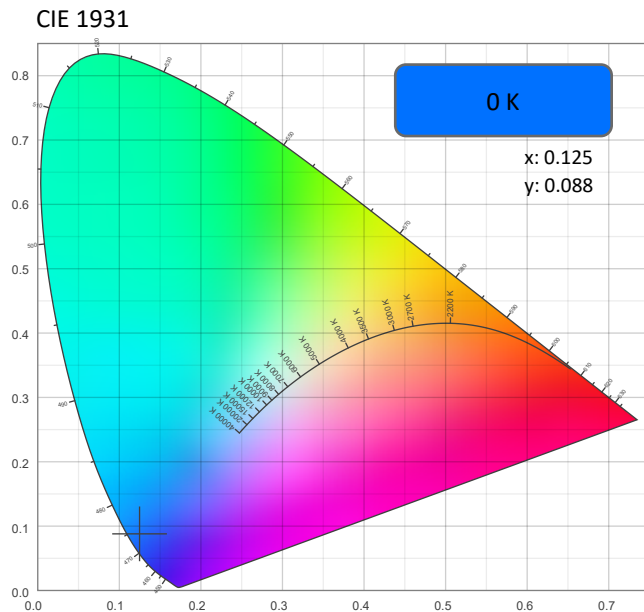
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.131

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 AR111 Downlight M: Wide Filter Lens - Blue Only

TM-30 Details

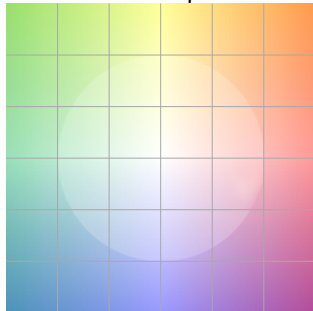
Rf 0.0

Fidelity Index
(Rg)

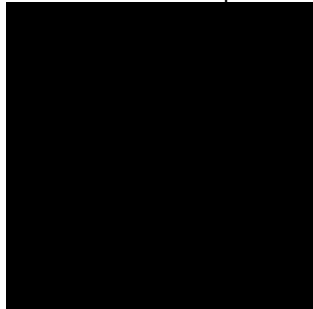
Rg 0.0

Gamut Index (Rg)

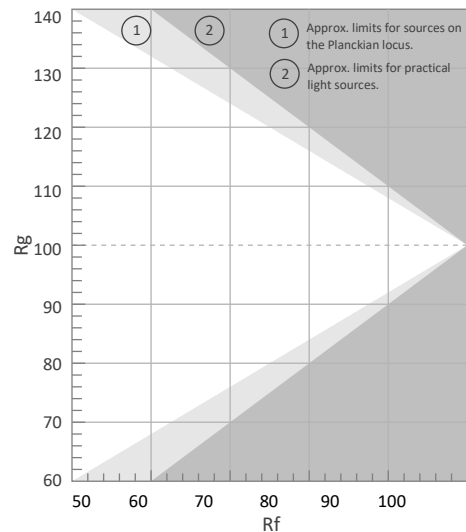
Color Vector Graphic



Color Distortion Graphic



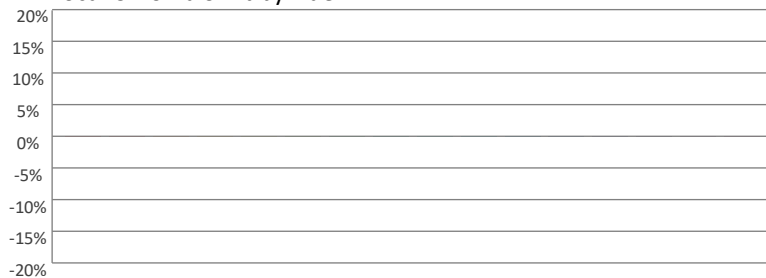
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

Report Summary

Measurements

Fixture Output: 357 lm

Fixture Peak: 306 cd

Fixture Efficacy: 18 lm/W

Intensity @ 5m: 12 lux

Color Temperature: 3012 K

CRI: 93.2 CRI R9 Value: 70.9

CQS: 91.2

TLCI: 92

TM-30 Rf: 92.0

TM-30 Rg: 101.8

Beam Angle (50%): 60°

Field Angle (10%): 109.6°

Cutoff Angle (3%): 136.5°

Conditions

AC Supply: 119 V, 60 Hz

Power: 22.47 W

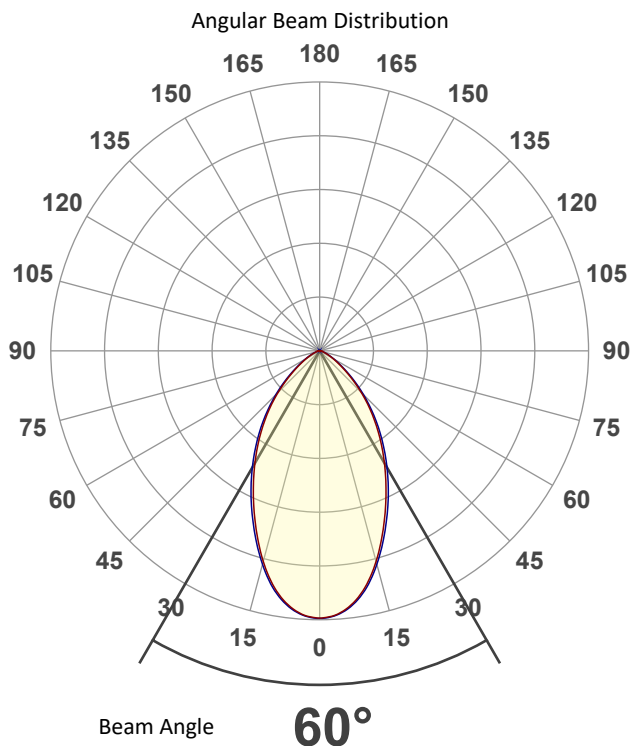
Current: 0.188 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

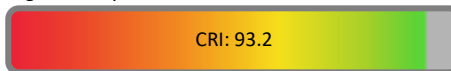
X: 0.437

Y: 0.405



Light Quality

CRI: 93.2



Color Temperature

3012 K



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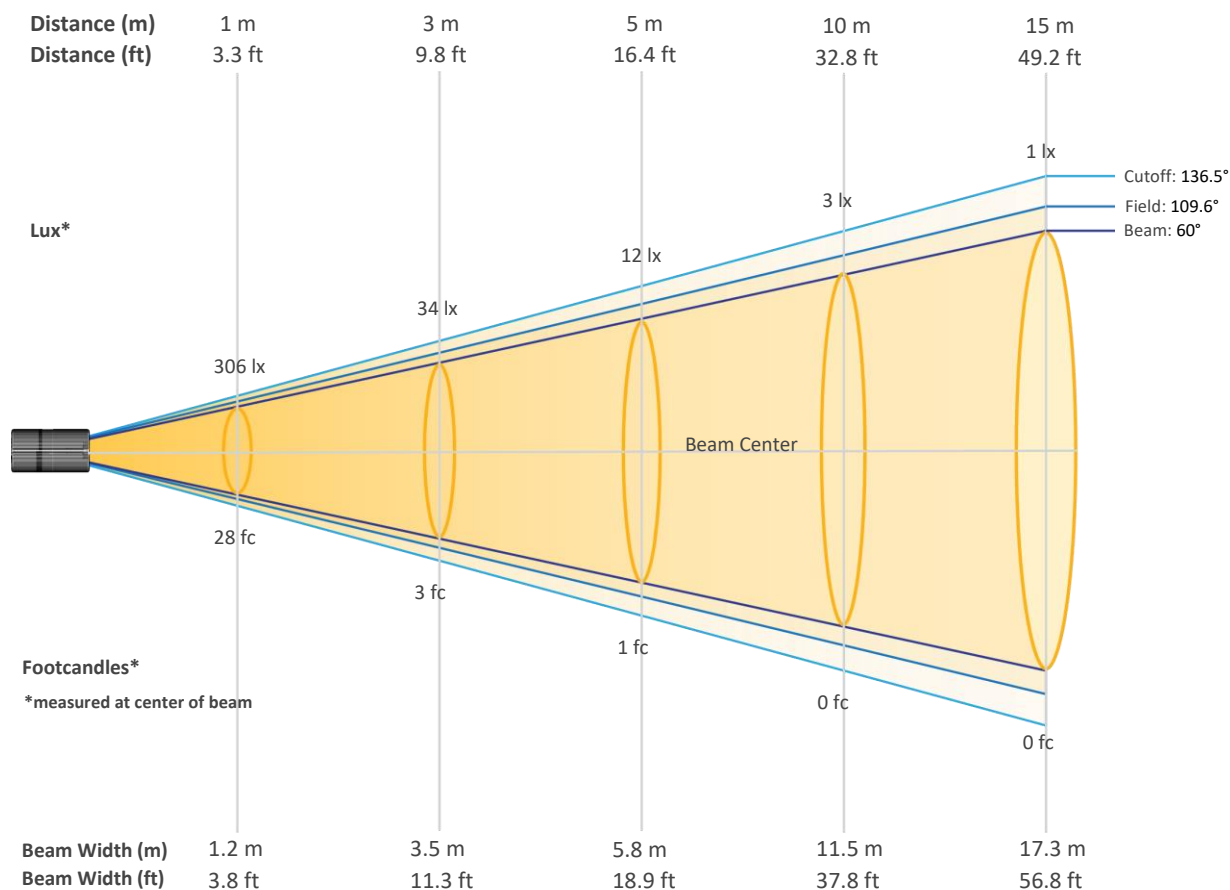
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - 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	306	76	34	19	12	8	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	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	28	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

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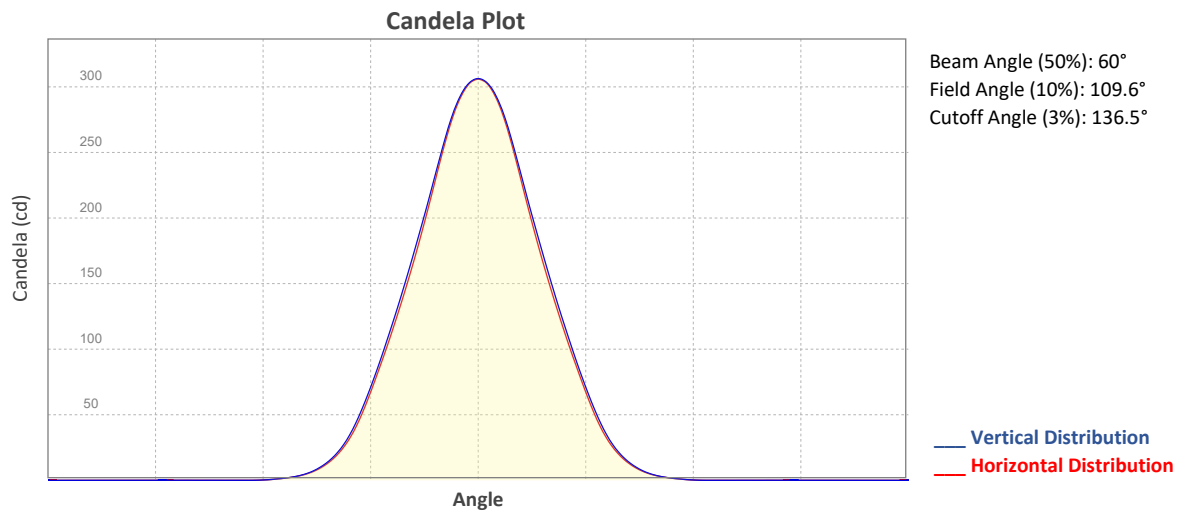
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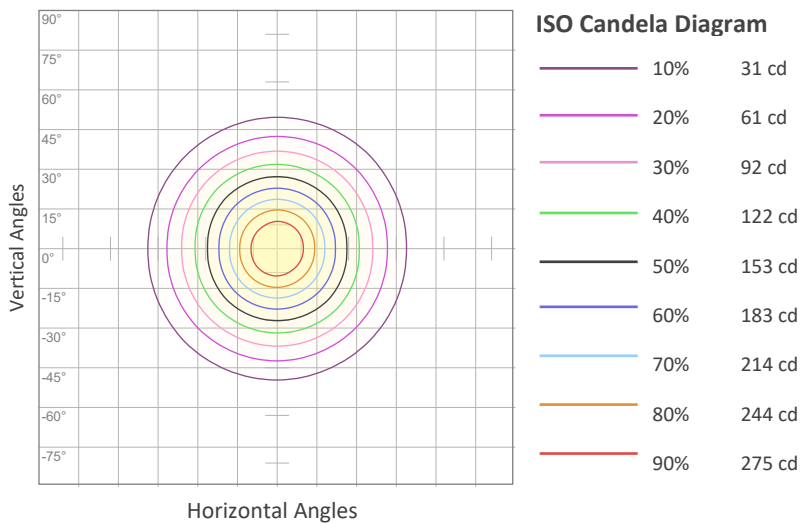
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Photometric & Chromaticity Report

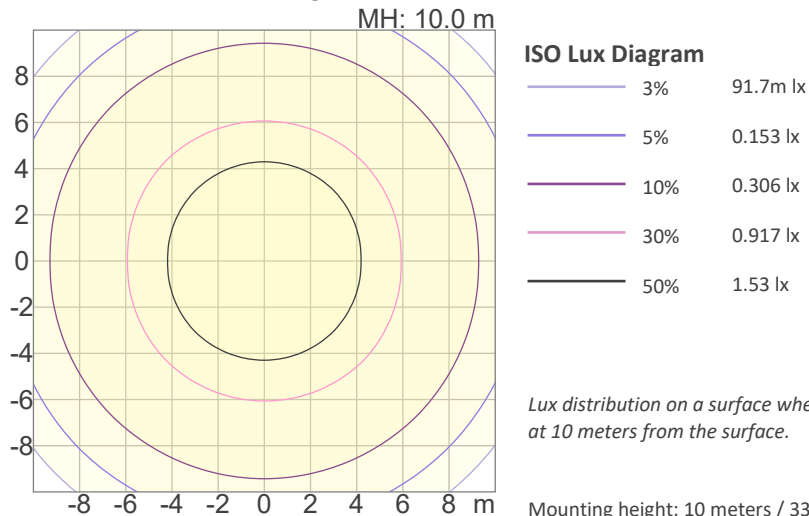
Logic AR111 Downlight M: Wide Filter Lens - Warm White Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 306 cd



Conditions:
Number of c-planes: 8
Candela at center: 3.06 lx

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

Mounting height: 10 meters / 33 feet

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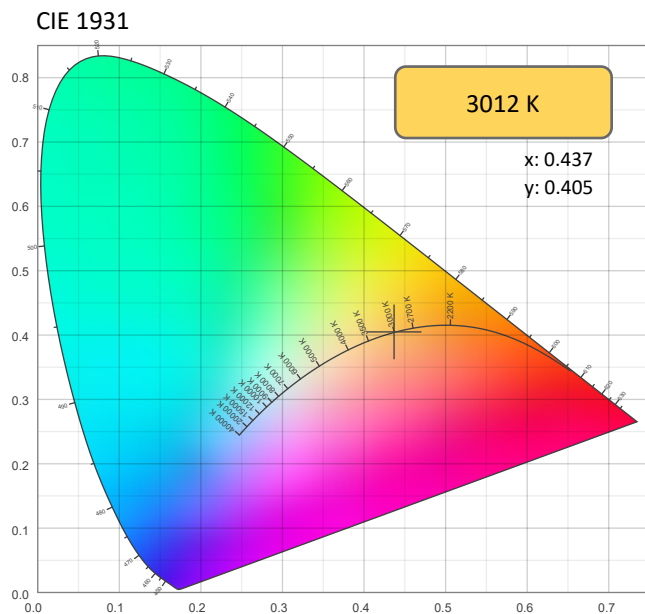
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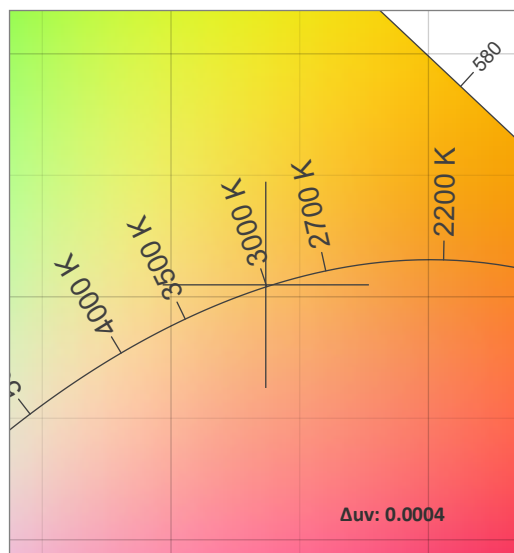
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

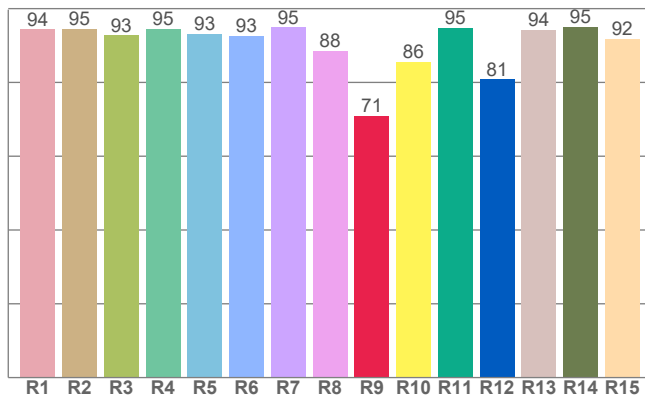
Chromaticity



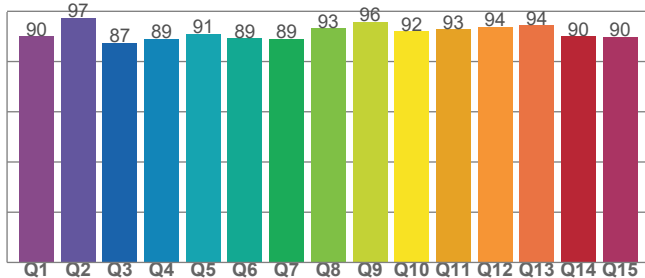
CIE 1931 - Zoom



CRI: 93.2 (R1-R8)



CQS: 91.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3012 K	0.437	0.405

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0004	0.405	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.2	70.9	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.8

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

TM-30 Details

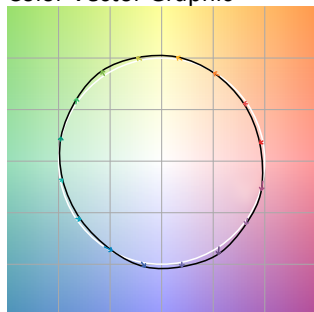
Rf 92.0

Fidelity Index
(Rg)

Rg 101.8

Gamut Index (Rg)

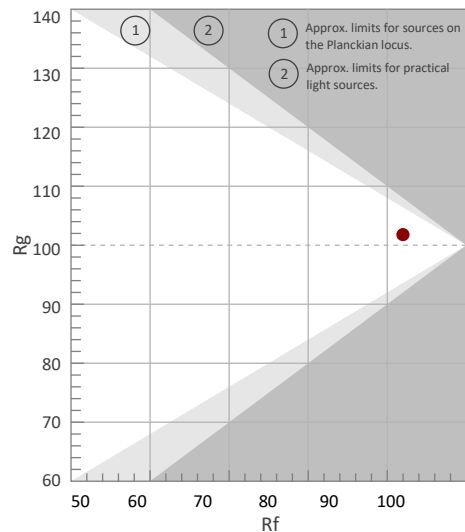
Color Vector Graphic



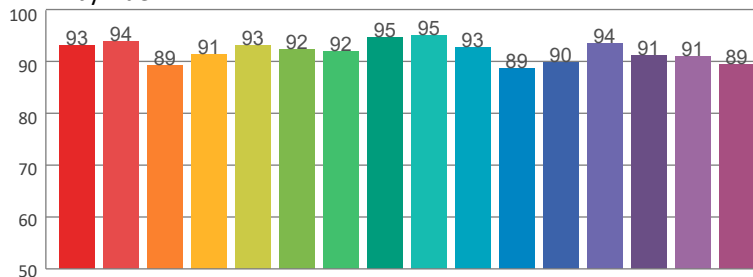
Color Distortion Graphic



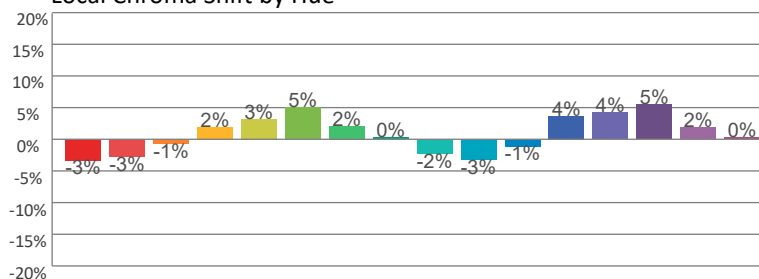
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	91	2%	5%
5	93	3%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	91	2%	-6%
16	89	0%	-9%



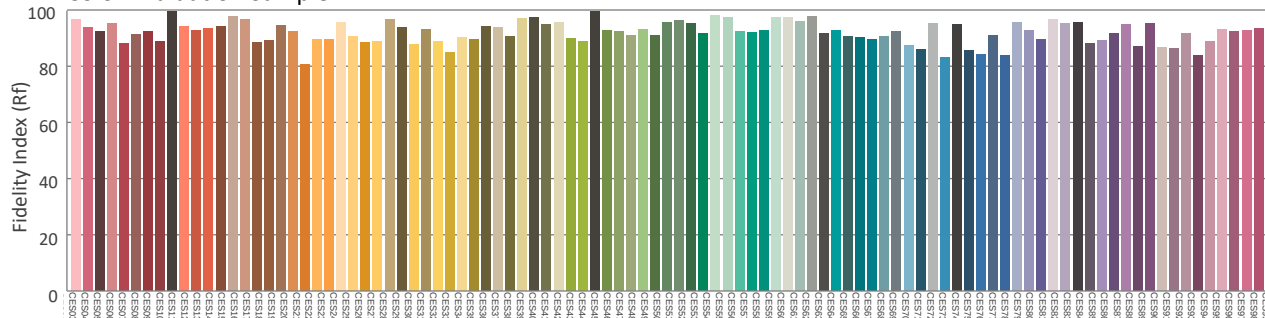
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 572 lm

Fixture Peak: 782 cd

Fixture Efficacy: 15 lm/W

Intensity @ 5m: 31 lux

Color Temperature: 6288 K

CRI: 48.7 CRI R9 Value: -159.0

CQS: 61.7

TLCI: 26

TM-30 Rf: 60.6

TM-30 Rg: 102.7

Beam Angle (50%): 46.2°

Field Angle (10%): 87.3°

Cutoff Angle (3%): 106.2°

Conditions

AC Supply: 120 V, 60 Hz

Power: 40.91 W

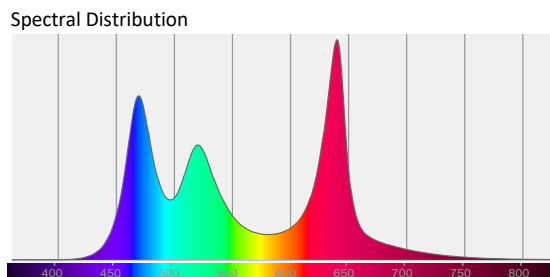
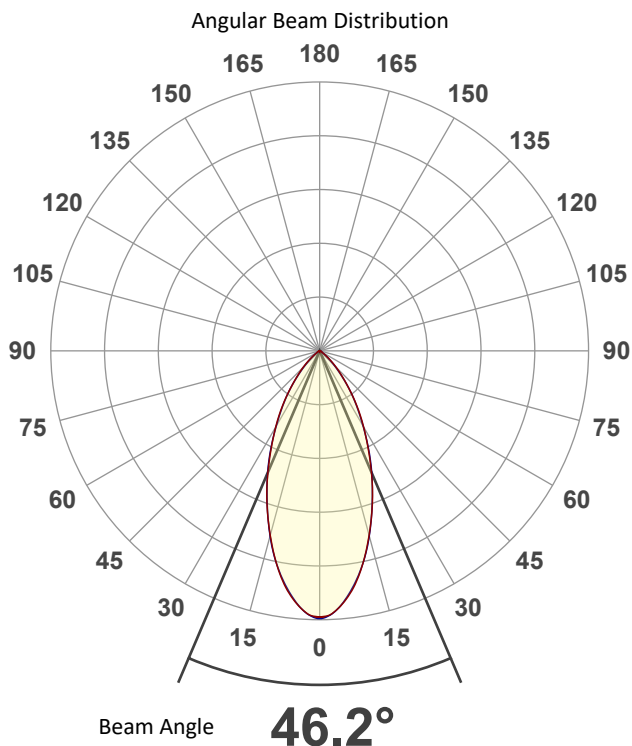
Current: 0.341 A

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 5/20/2022 to LM-63-2002 Standards.

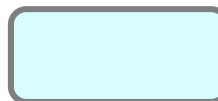
Overall Measurement



Tested Color (CIE 1931):

X: 0.317

Y: 0.332



Light Quality

CRI: 48.7

Color Temperature

6288 K

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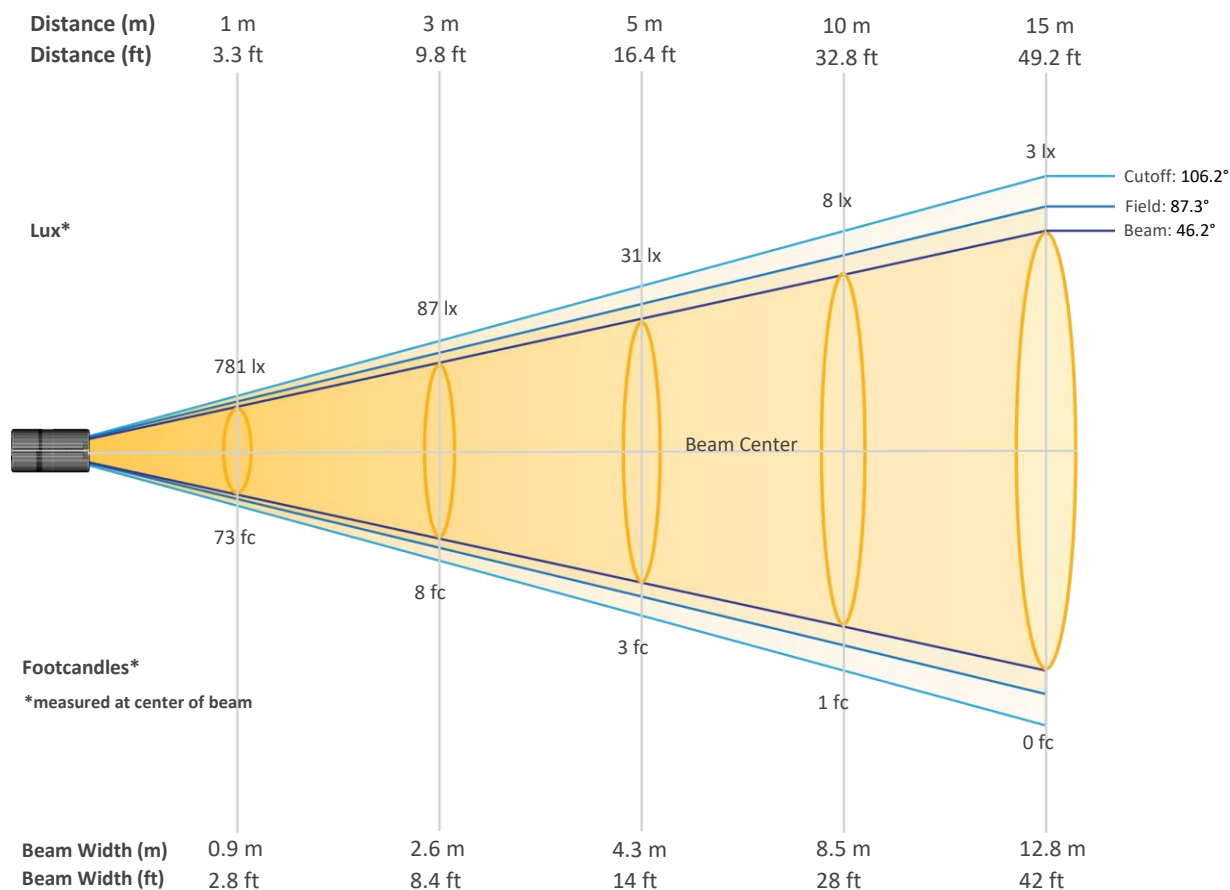
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ILUMINARC

Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	781	195	87	49	31	22	16	12	10	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	73	18	8	5	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	1	0	0	0	0	0	0	0	0

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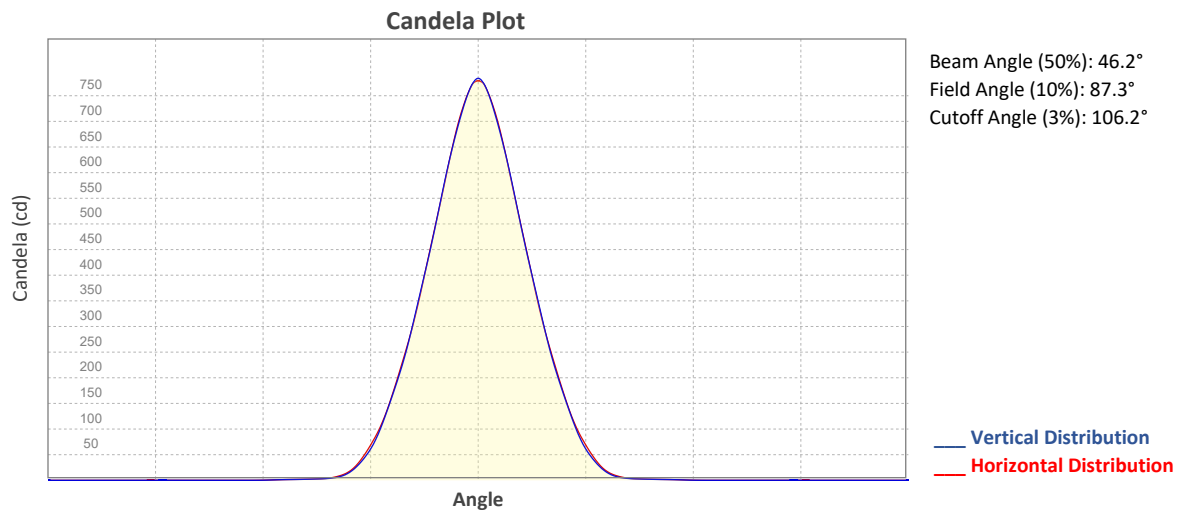
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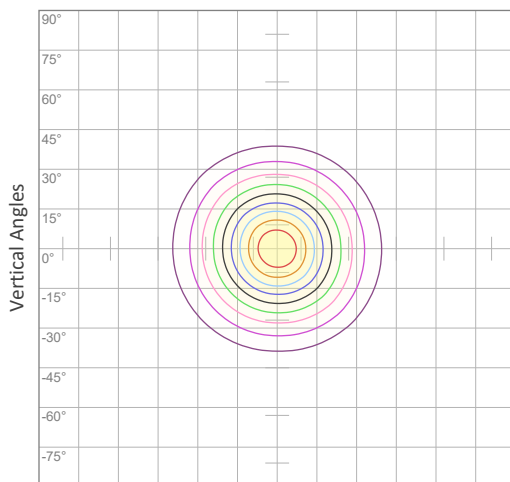
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power



ISO Diagrams



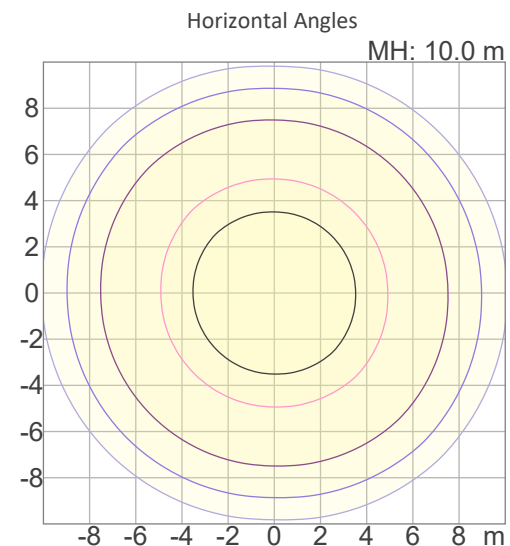
ISO Candela Diagram

10%	78 cd
20%	156 cd
30%	234 cd
40%	312 cd
50%	390 cd
60%	468 cd
70%	546 cd
80%	624 cd
90%	702 cd

Conditions:

Number of c-planes: 8

Candela at center: 781 cd



ISO Lux Diagram

3%	0.234 lx
5%	0.390 lx
10%	0.781 lx
30%	2.34 lx
50%	3.90 lx

Conditions:

Number of c-planes: 8

Candela at center: 7.81 lx

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

Mounting height: 10 meters / 33 feet

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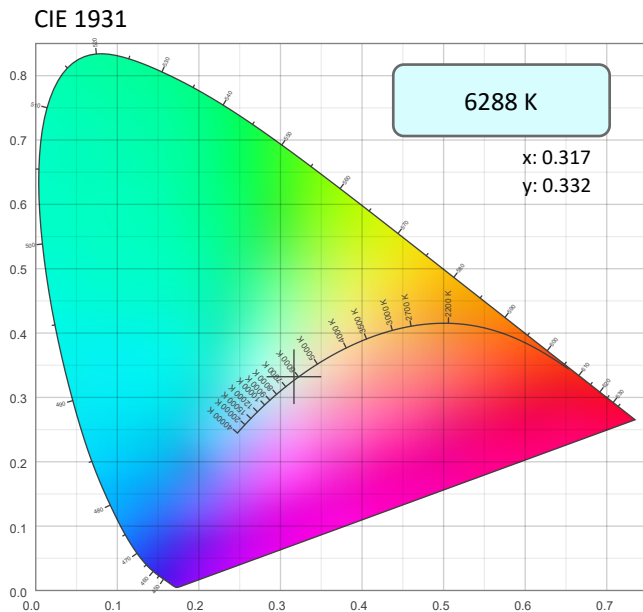
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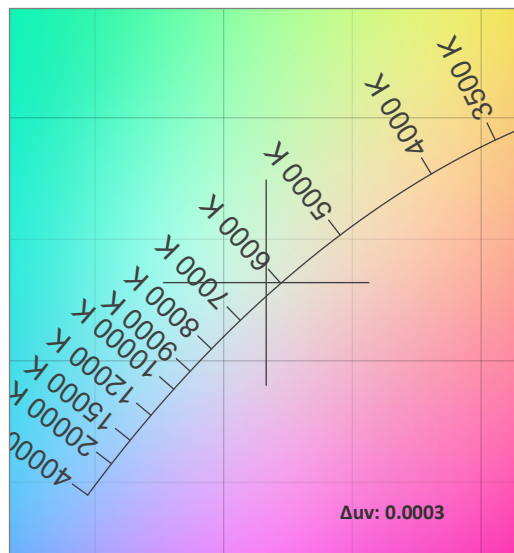
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

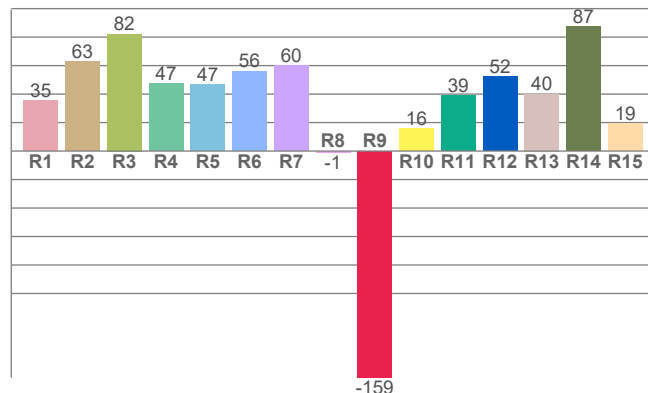
Chromaticity



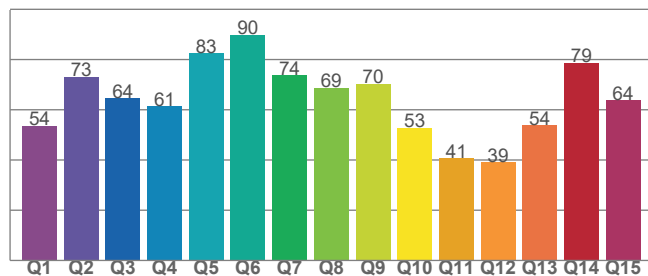
CIE 1931 - Zoom



CRI: 48.7 (R1-R8)



CQS: 61.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6288 K	0.317	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.332	0.199

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.7	-159.0	61.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.6	102.7

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

TM-30 Details

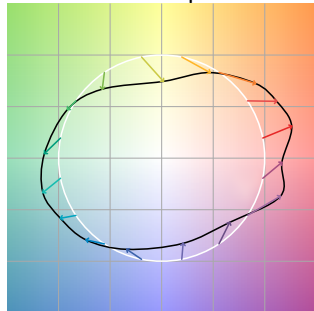
Rf 60.6

Fidelity Index
(Rg)

Rg 102.7

Gamut Index (Rg)

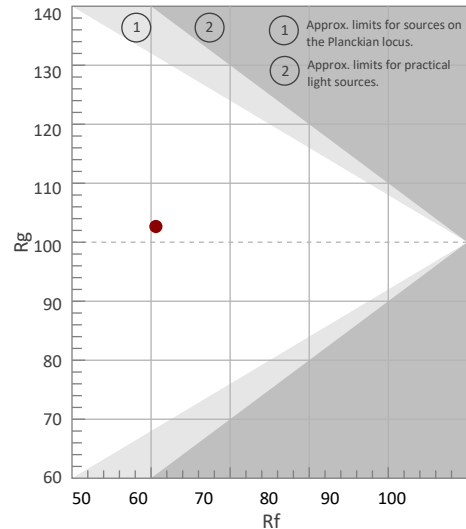
Color Vector Graphic



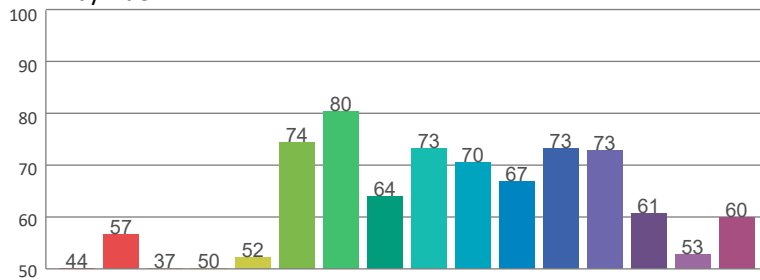
Color Distortion Graphic



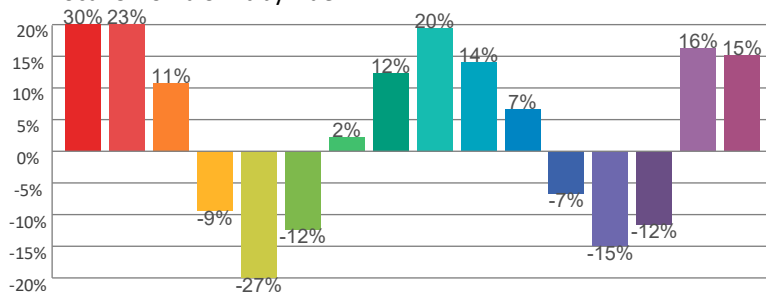
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	44	30%	6%
2	57	23%	-16%
3	37	11%	-35%
4	50	-9%	-30%
5	52	-27%	-16%
6	74	-12%	11%
7	80	2%	12%
8	64	12%	18%
9	73	20%	10%
10	70	14%	-6%
11	67	7%	-17%
12	73	-7%	-16%
13	73	-15%	4%
14	61	-12%	20%
15	53	16%	33%
16	60	15%	19%



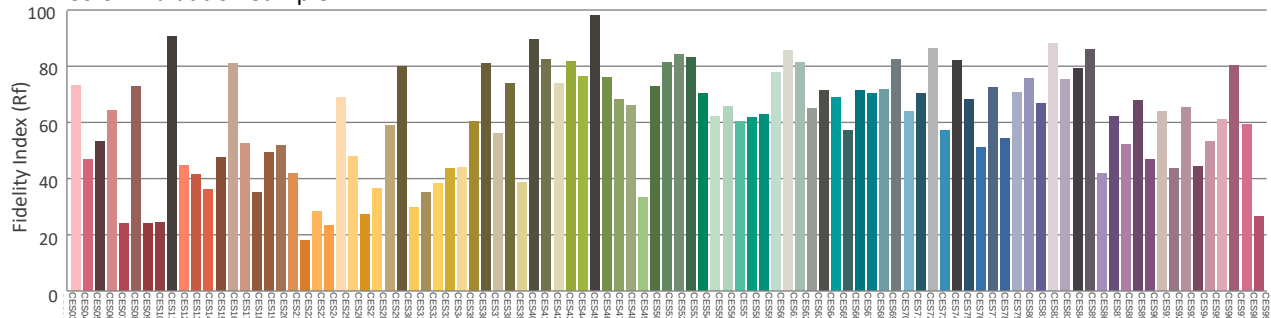
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

Report Summary

Measurements

Fixture Output: 126 lm

Fixture Peak: 172 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 7 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 46.4°

Field Angle (10%): 87.3°

Cutoff Angle (3%): 106.1°

Conditions

AC Supply: 120 V, 60 Hz

Power: 21.69 W

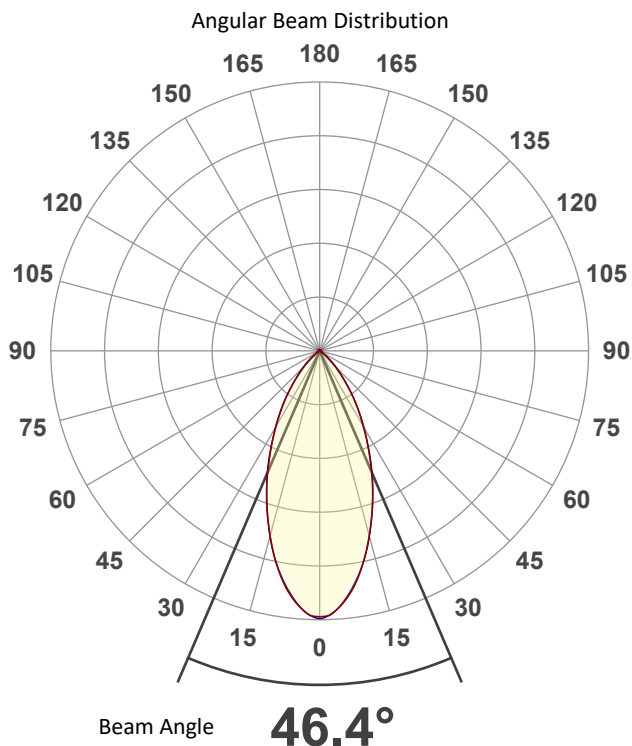
Current: 0.181 A

Power Factor: 0.88

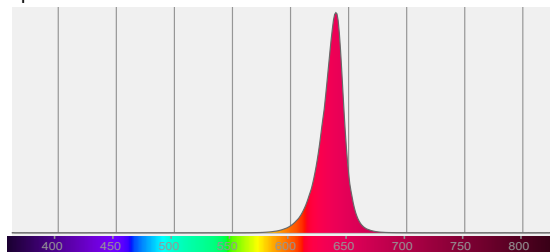


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

X: 0.702

Y: 0.298



Light Quality

CRI: 0.0

Color Temperature

0 K

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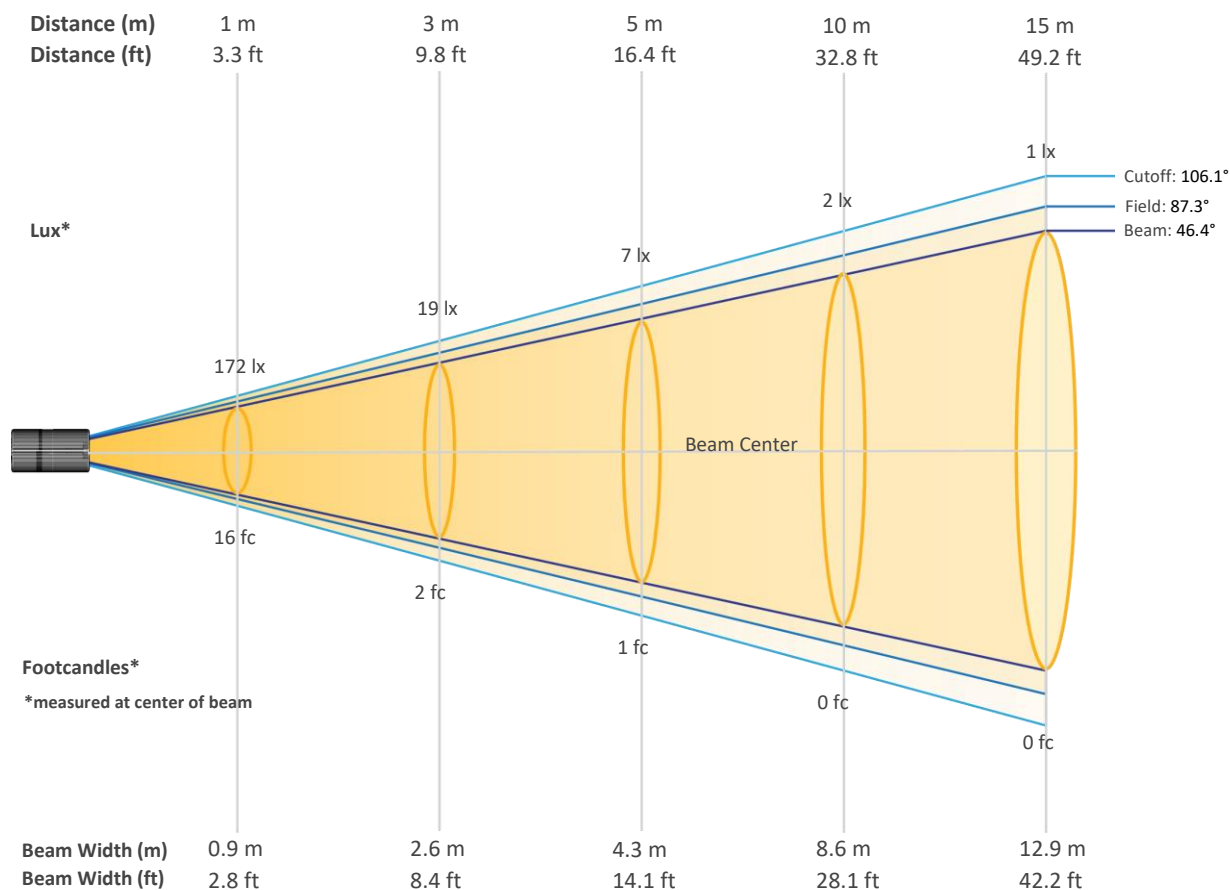
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	172	43	19	11	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	1	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	16	4	2	1	1	0	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

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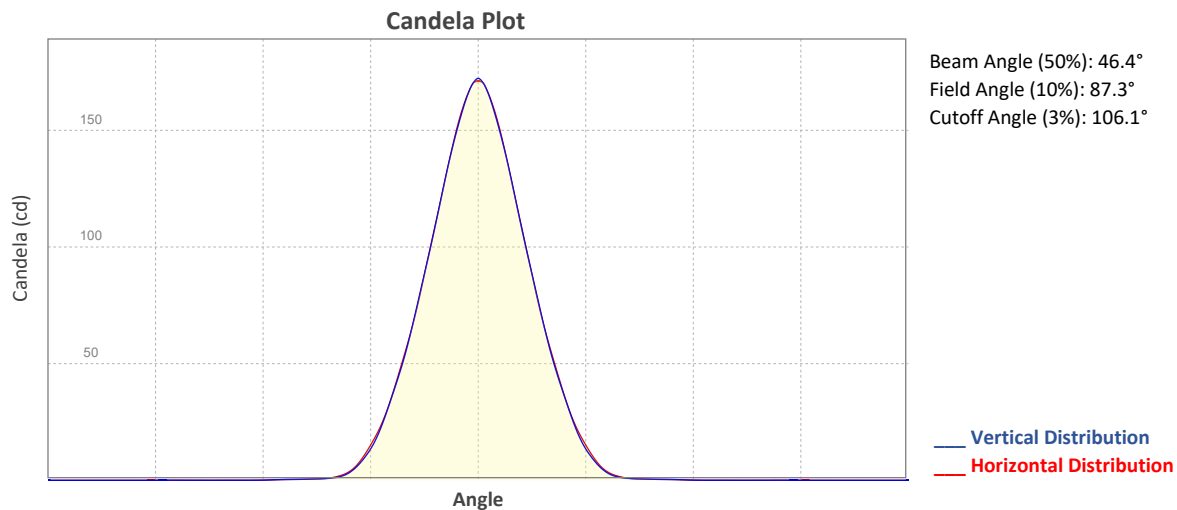
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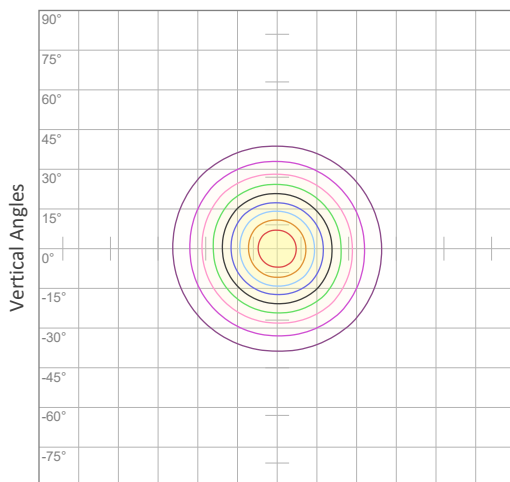
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only



ISO Diagrams

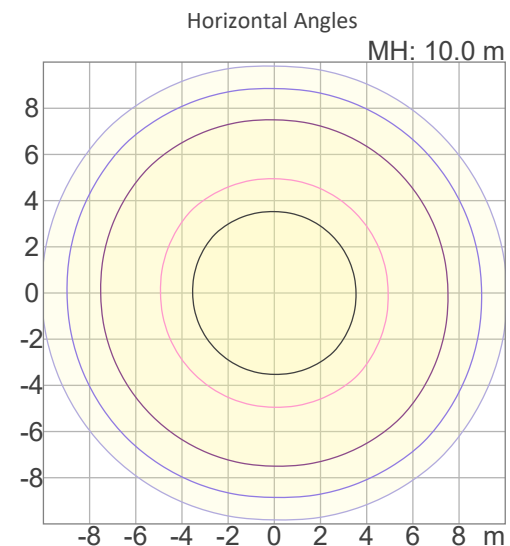


ISO Candela Diagram

10%	17 cd
20%	34 cd
30%	51 cd
40%	69 cd
50%	86 cd
60%	103 cd
70%	120 cd
80%	137 cd
90%	154 cd

Conditions:

Number of c-planes: 8
Candela at center: 172 cd



ISO Lux Diagram

3%	51.5m lx
5%	85.8m lx
10%	0.172 lx
30%	0.515 lx
50%	0.858 lx

Conditions:

Number of c-planes: 8
Candela at center: 1.72 lx

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

Mounting height: 10 meters / 33 feet

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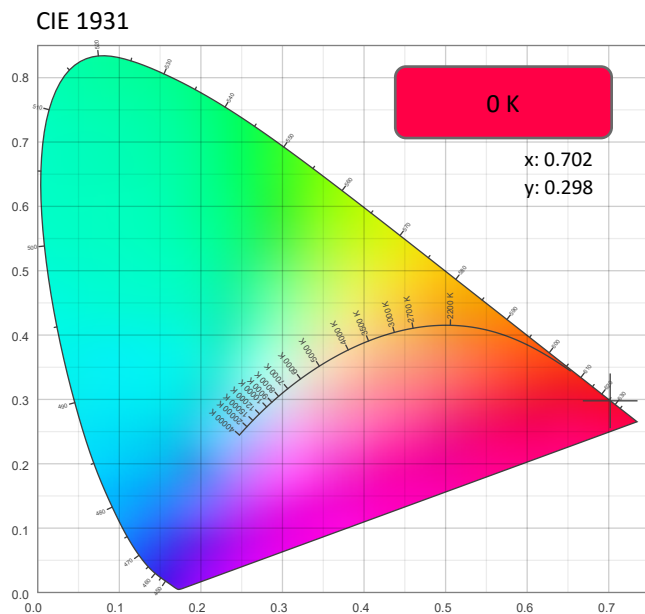
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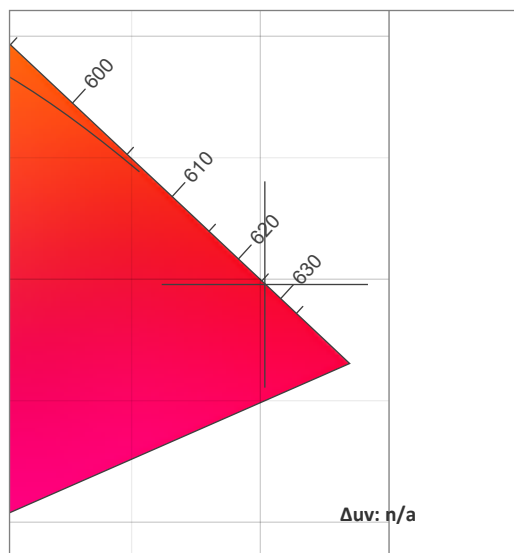
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red 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	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	0.702	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.543

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 AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

TM-30 Details

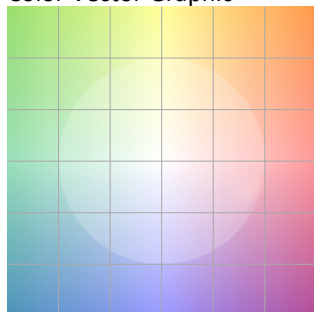
Rf 0.0

Fidelity Index
(Rg)

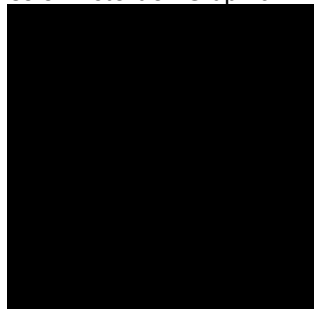
Rg 0.0

Gamut Index (Rg)

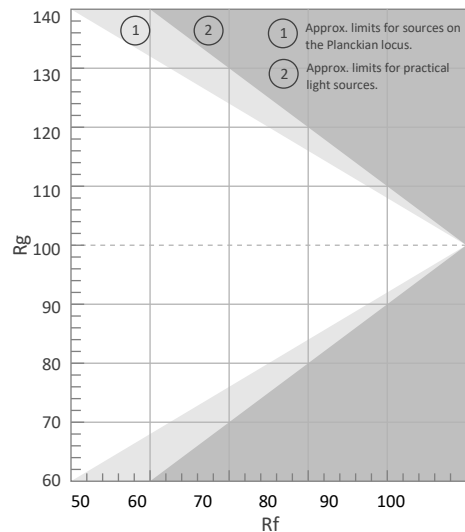
Color Vector Graphic



Color Distortion Graphic



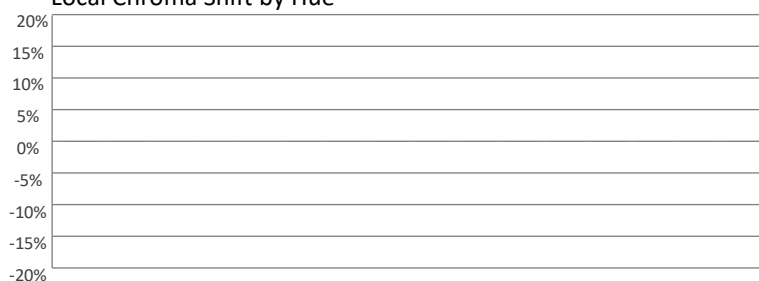
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

Report Summary

Measurements

Fixture Output: 270 lm

Fixture Peak: 365 cd

Fixture Efficacy: 13 lm/W

Intensity @ 5m: 15 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 46.7°

Field Angle (10%): 87.8°

Cutoff Angle (3%): 106.6°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.51 W

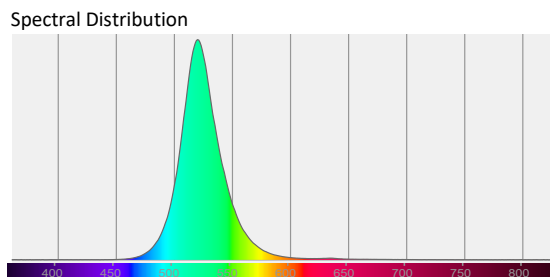
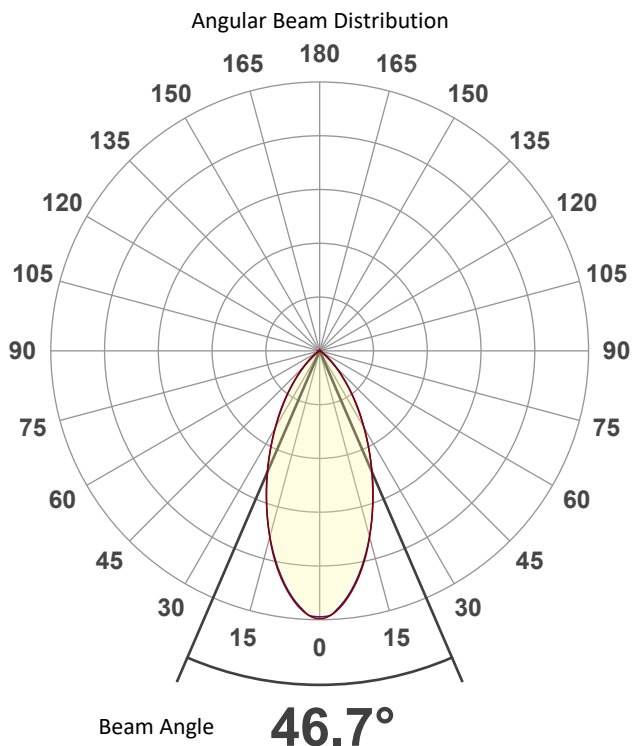
Current: 0.197 A

Power Factor: 0.89



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Overall Measurement



Tested Color (CIE 1931):

X: 0.168

Y: 0.714

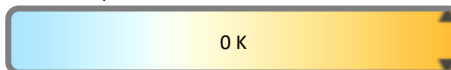


Light Quality

CRI: 0.0

Color Temperature

0 K



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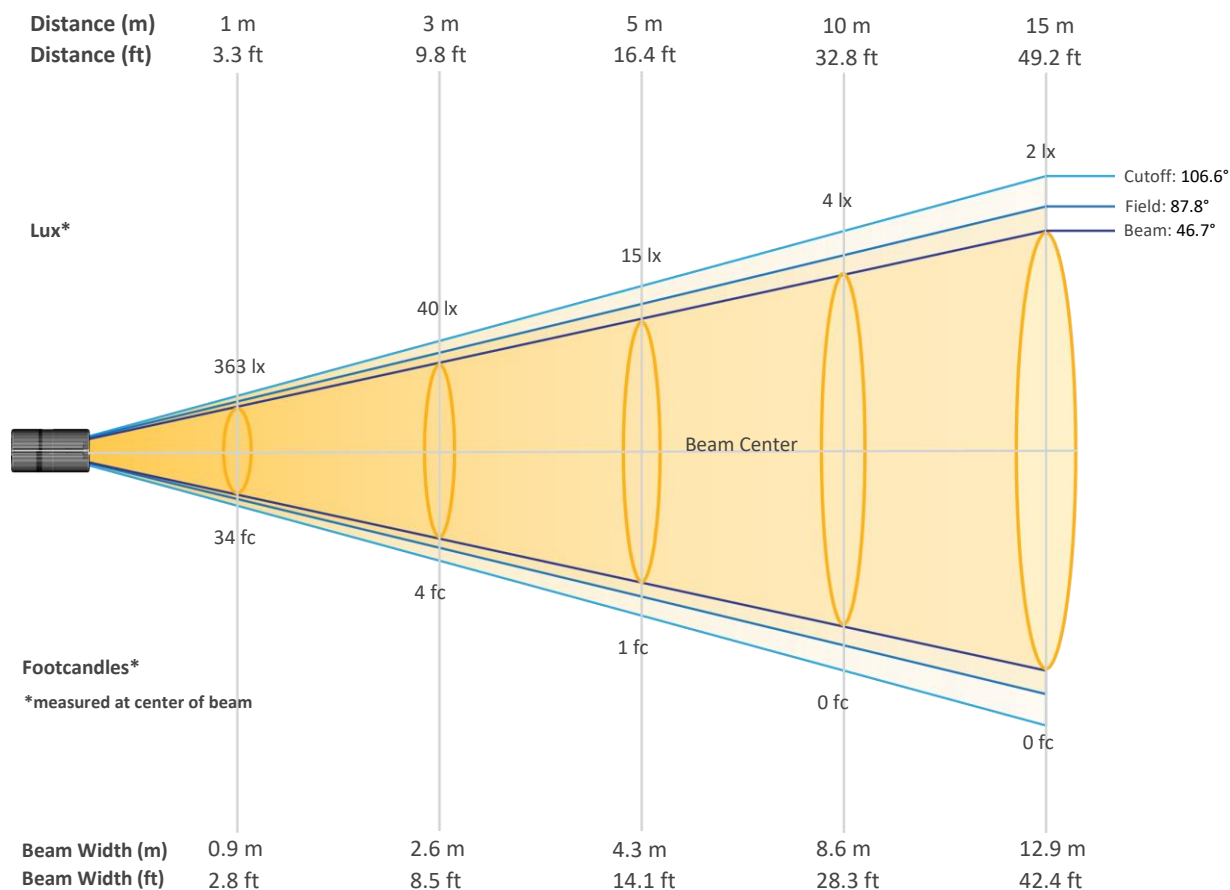
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	363	91	40	23	15	10	7	6	4	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	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	34	8	4	2	1	1	1	1	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

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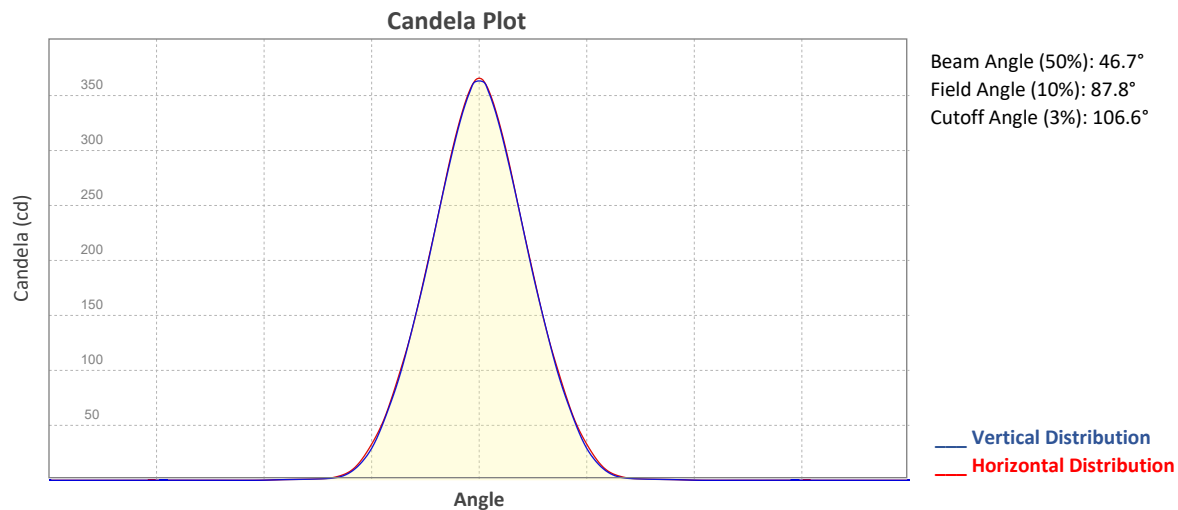
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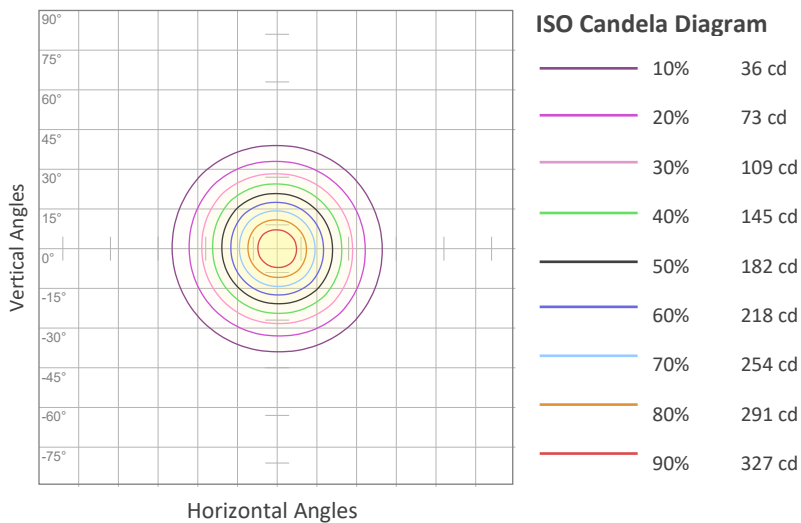
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Photometric & Chromaticity Report

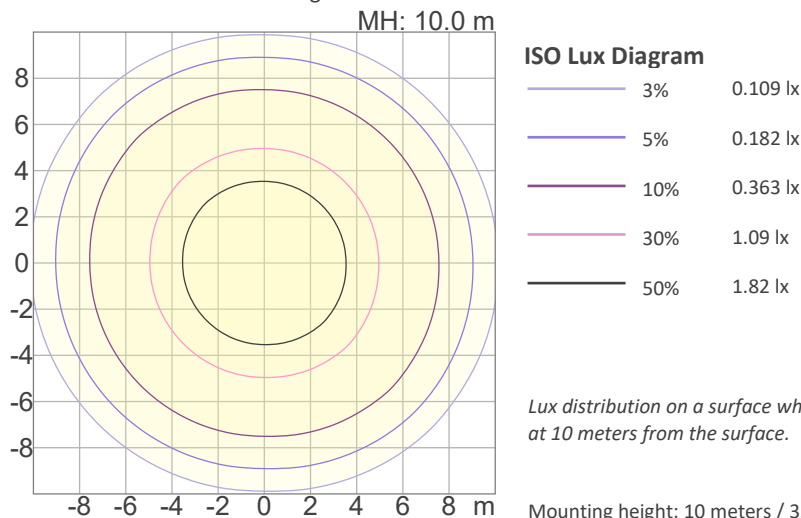
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 363 cd



Conditions:
 Number of c-planes: 8
 Candela at center: 3.63 lx

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

Mounting height: 10 meters / 33 feet

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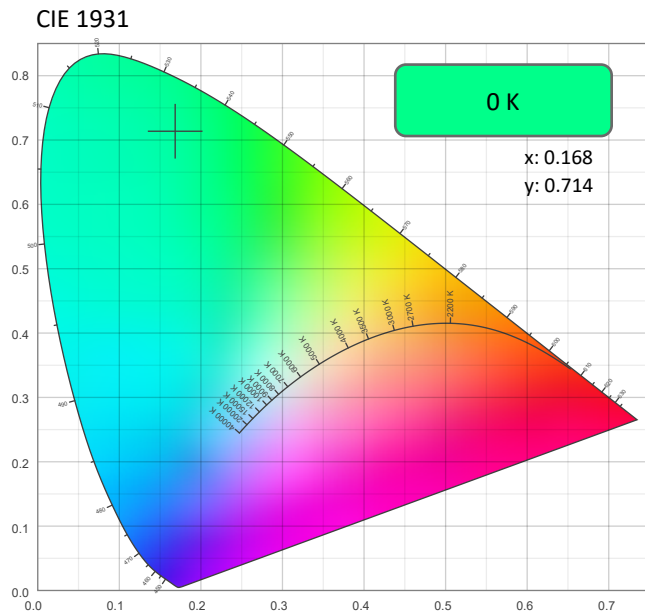
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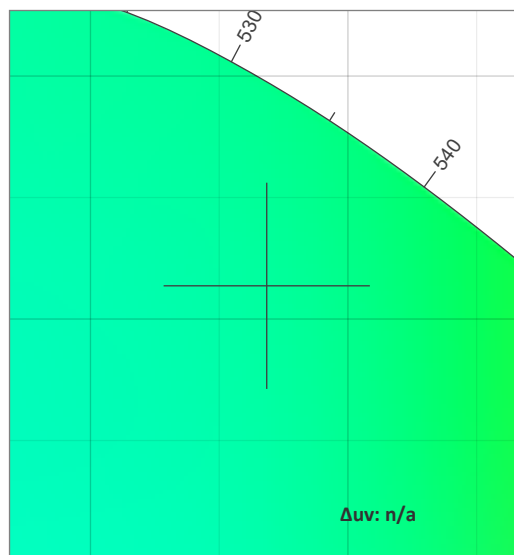
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	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	0.168	0.714

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.714	0.060

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 AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

TM-30 Details

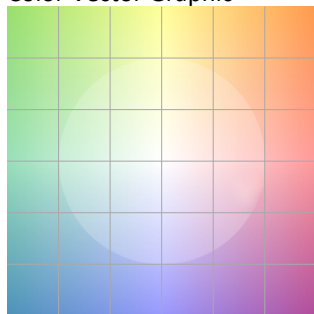
Rf 0.0

Fidelity Index
(Rg)

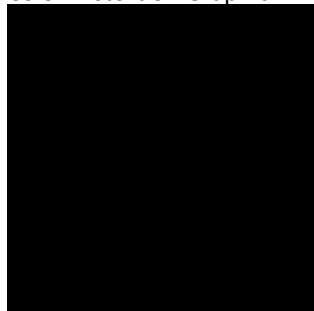
Rg 0.0

Gammut Index (Rg)

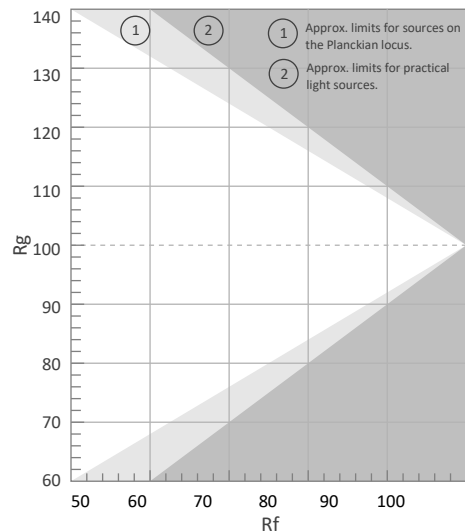
Color Vector Graphic



Color Distortion Graphic



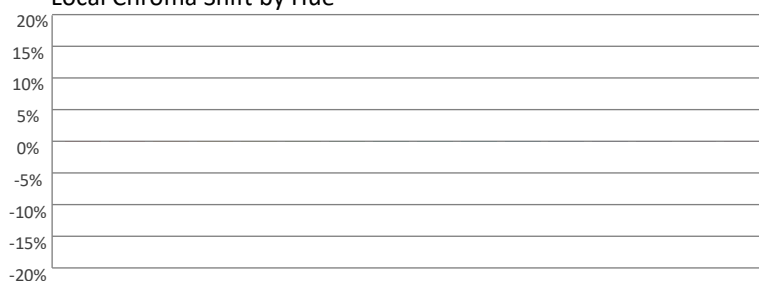
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

Report Summary

Measurements

Fixture Output: 81.3 lm

Fixture Peak: 105 cd

Fixture Efficacy: 4 lm/W

Intensity @ 5m: 4 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 48.1°

Field Angle (10%): 89.2°

Cutoff Angle (3%): 107.8°

Conditions

AC Supply: 120 V, 60 Hz

Power: 23.42 W

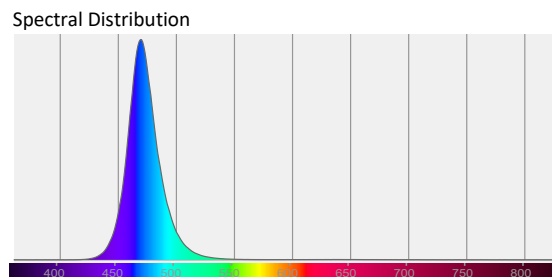
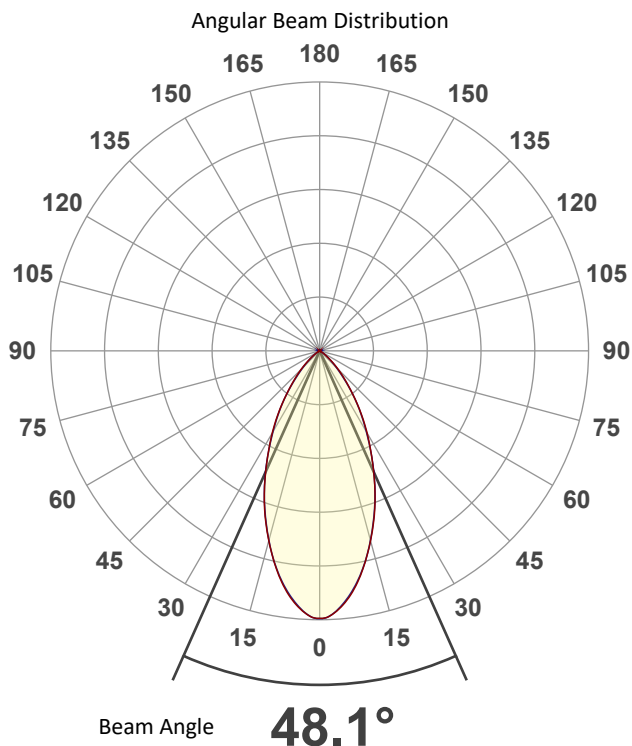
Current: 0.196 A

Power Factor: 0.89



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 5/20/2022 to LM-63-2002 Standards.

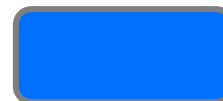
Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.088

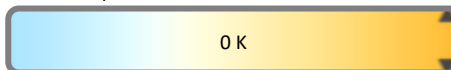


Light Quality

CRI: 0.0

Color Temperature

0 K



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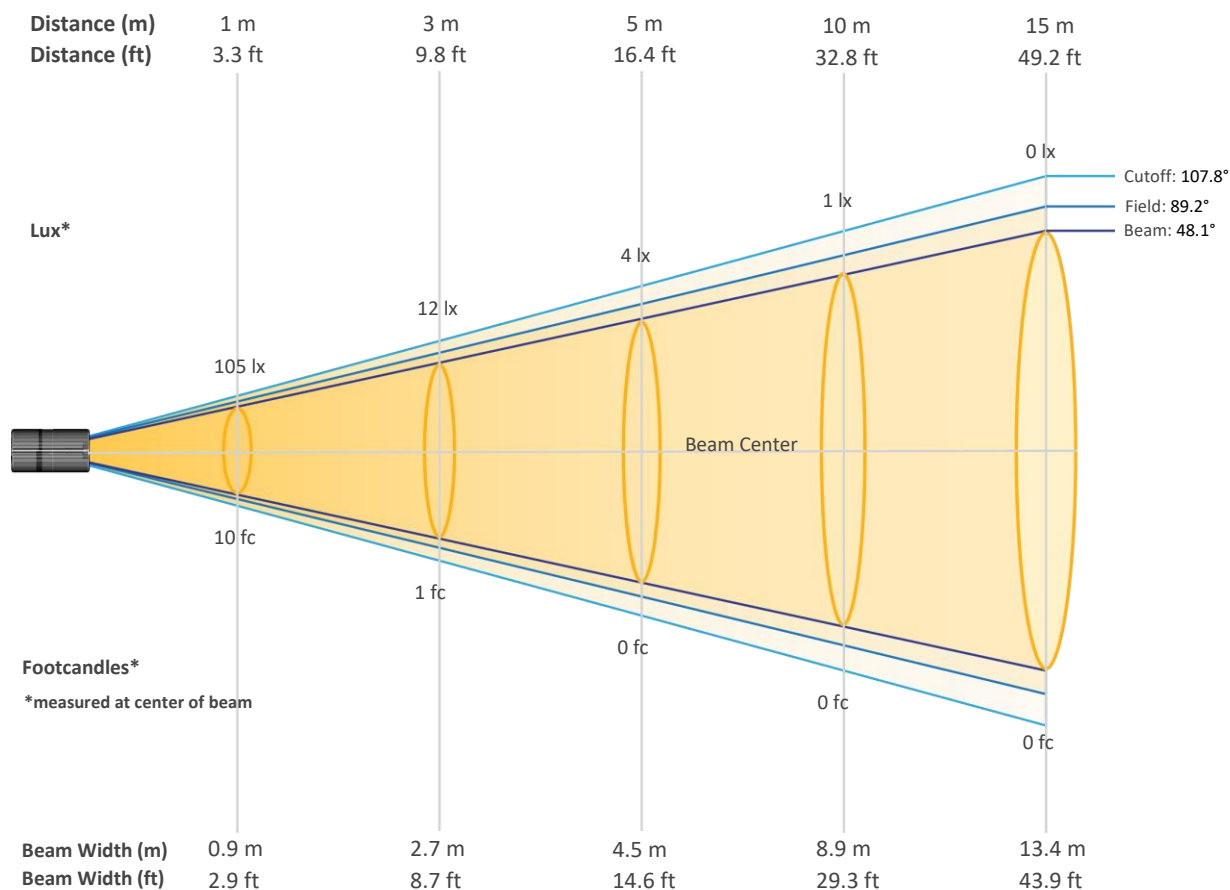
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	105	26	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	2	1	1	0	0	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

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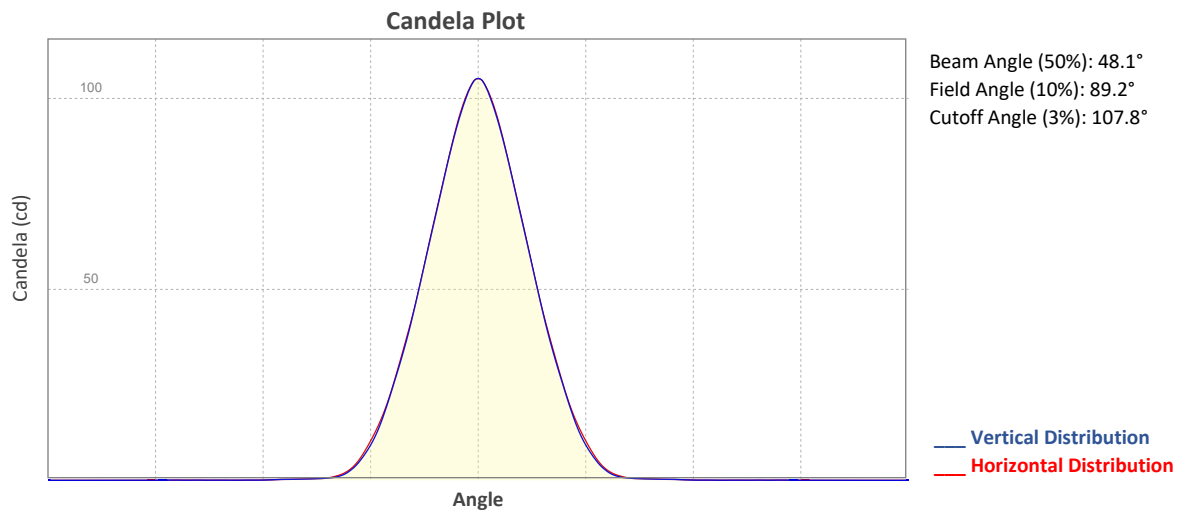
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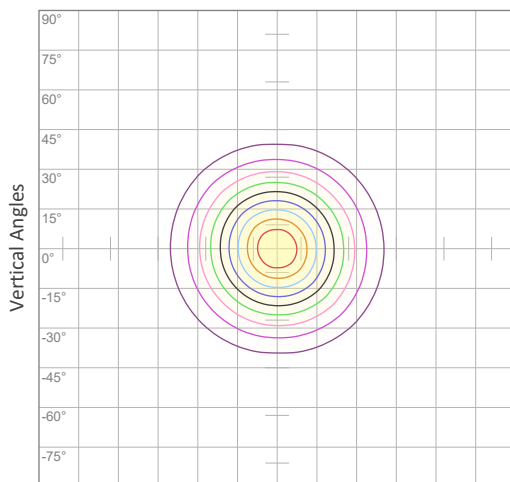
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only



ISO Diagrams

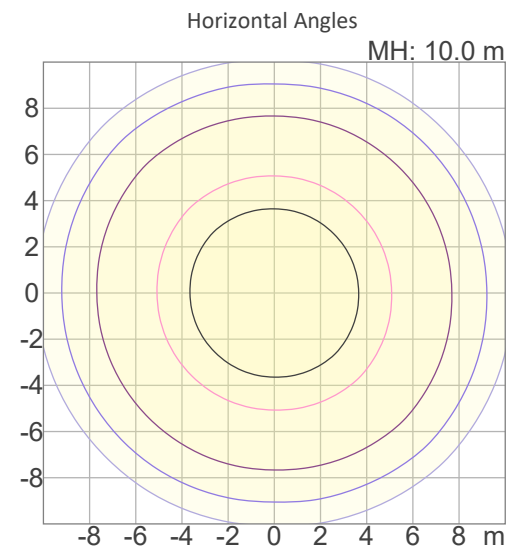


ISO Candela Diagram

10%	10 cd
20%	21 cd
30%	31 cd
40%	42 cd
50%	52 cd
60%	63 cd
70%	73 cd
80%	84 cd
90%	94 cd

Conditions:

Number of c-planes: 8
Candela at center: 105 cd



ISO Lux Diagram

3%	31.5m lx
5%	52.5m lx
10%	0.105 lx
30%	0.315 lx
50%	0.525 lx

Conditions:

Number of c-planes: 8
Candela at center: 1.05 lx

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

Mounting height: 10 meters / 33 feet

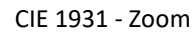
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Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

CIE 1931



Photometric & Chromaticity Report

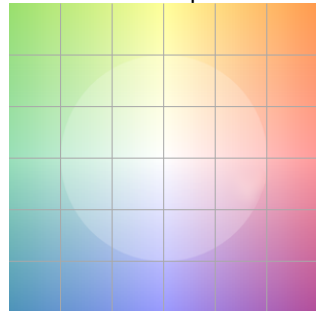
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

TM-30 Details

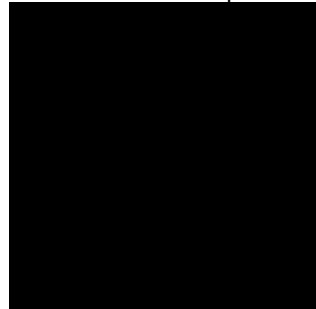
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

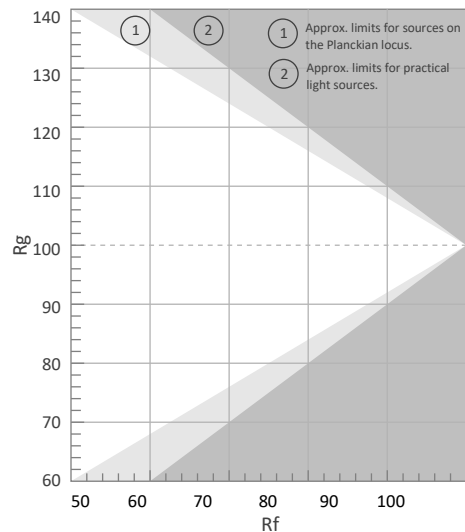
Color Vector Graphic



Color Distortion Graphic



		Graphic shifts (%)	
Hue Bin	R _f	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



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

Report Summary

Measurements

Fixture Output: 195 lm

Fixture Peak: 274 cd

Fixture Efficacy: 10 lm/W

Intensity @ 5m: 11 lux

Color Temperature: 2989 K

CRI: 93.1 CRI R9 Value: 70.6

CQS: 91.2

TLCI: 92

TM-30 Rf: 92.0

TM-30 Rg: 101.6

Beam Angle (50%): 45.2°

Field Angle (10%): 86.5°

Cutoff Angle (3%): 105.5°

Conditions

AC Supply: 120 V, 60 Hz

Power: 22.54 W

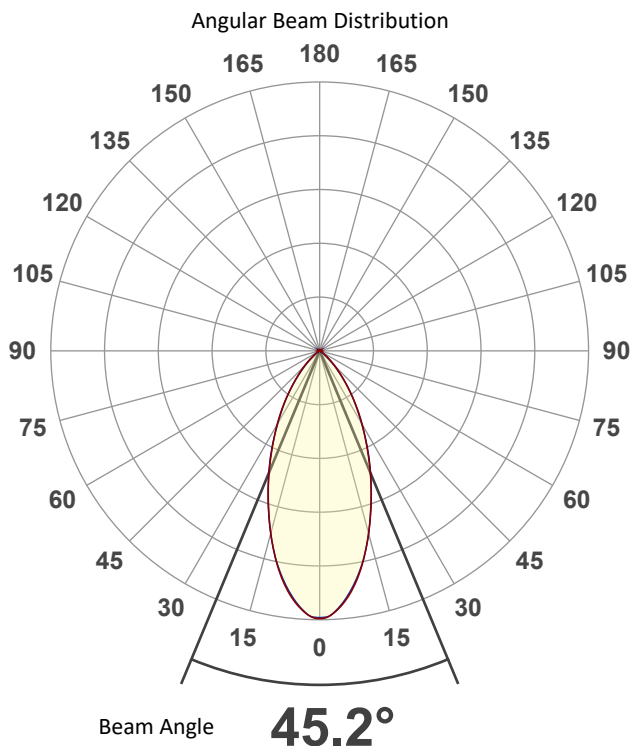
Current: 0.188 A

Power Factor: 0.88

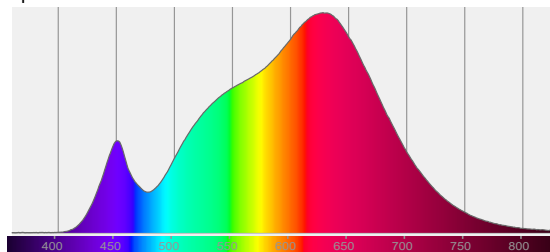


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

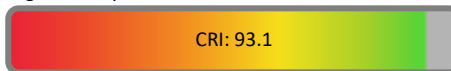
X: 0.439

Y: 0.406



Light Quality

CRI: 93.1



Color Temperature

2989 K



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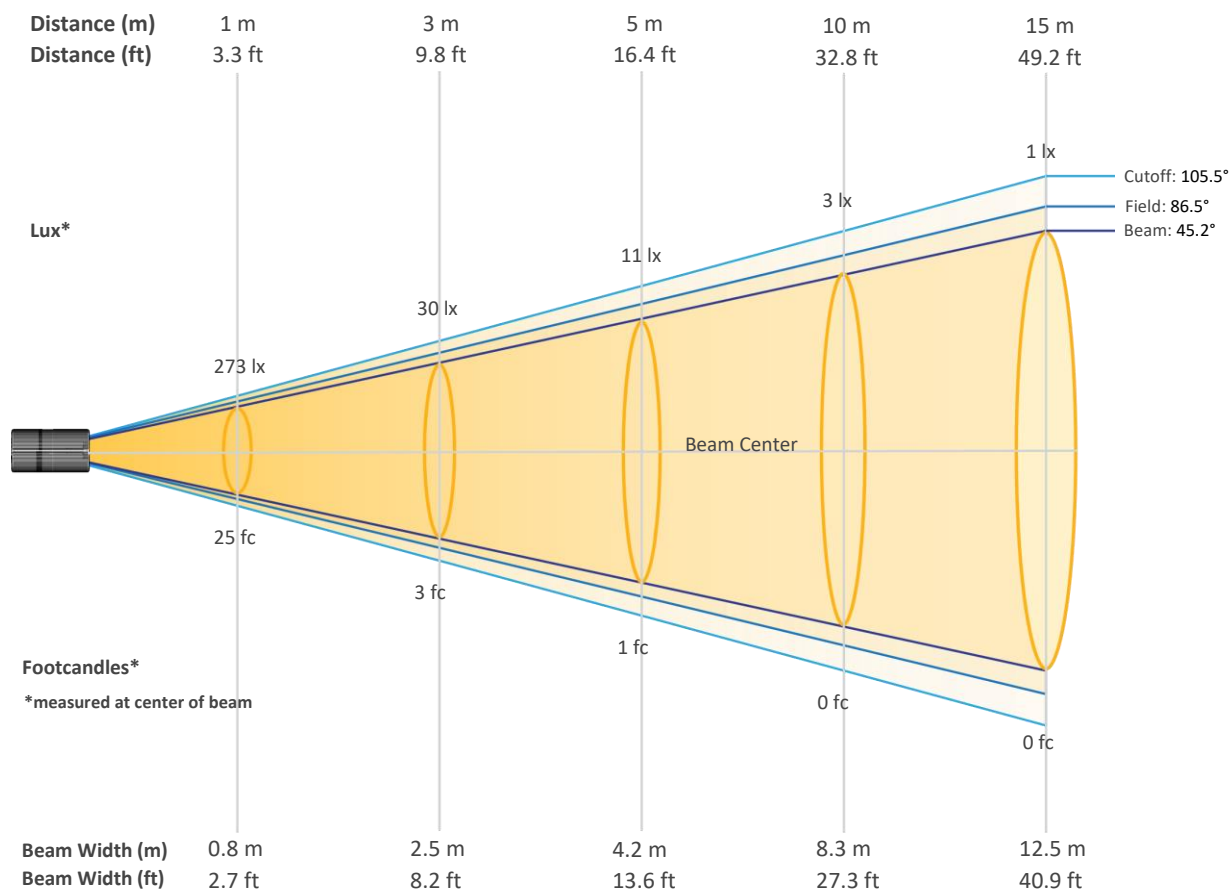
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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - 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	273	68	30	17	11	8	6	4	3	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	25	6	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

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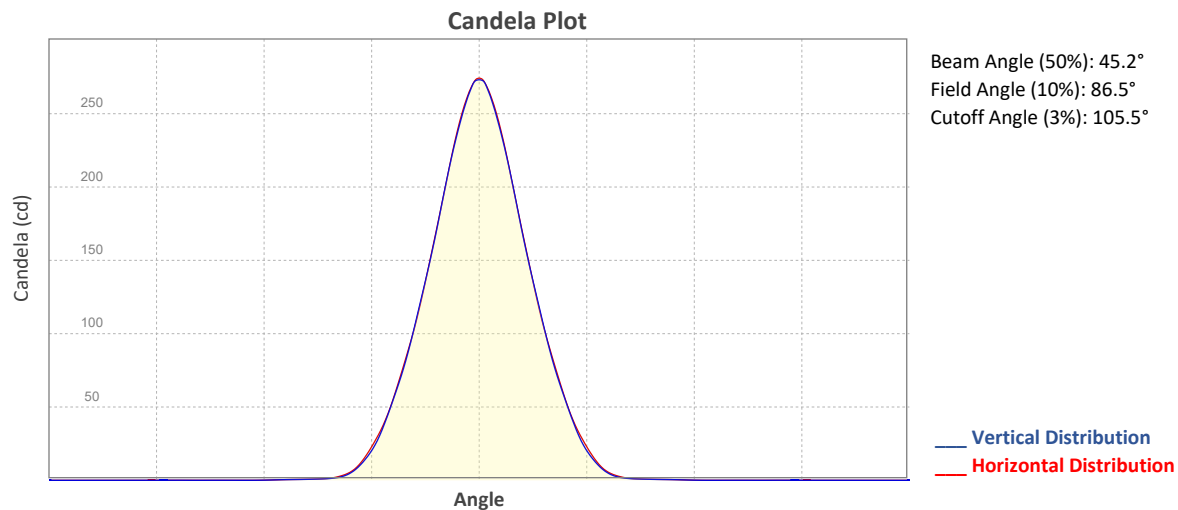
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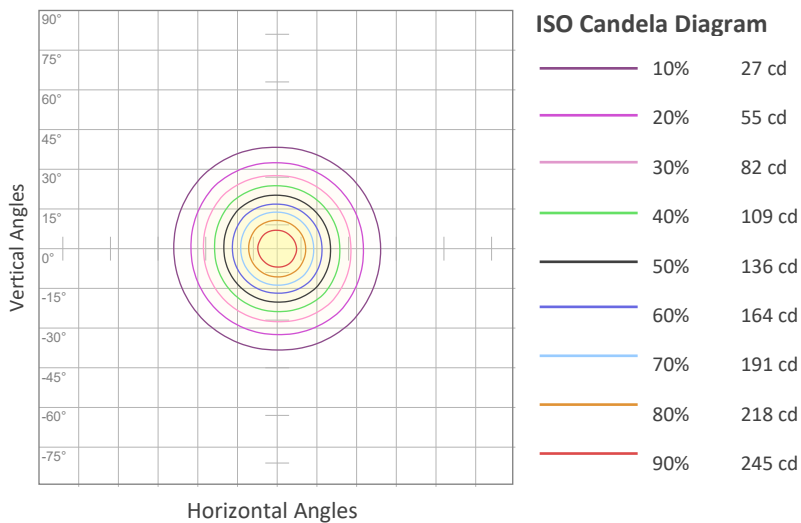
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Photometric & Chromaticity Report

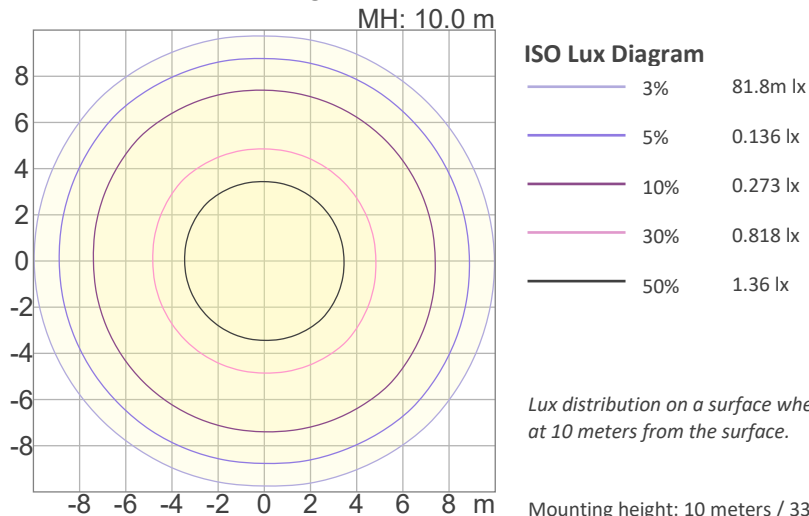
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only



ISO Diagrams



Conditions:
Number of c-planes: 8
Candela at center: 273 cd



Conditions:
Number of c-planes: 8
Candela at center: 2.73 lx

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

Mounting height: 10 meters / 33 feet

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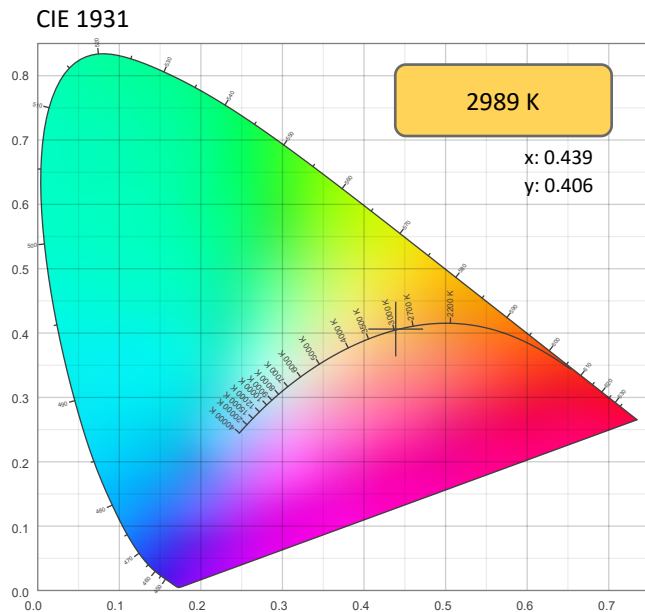
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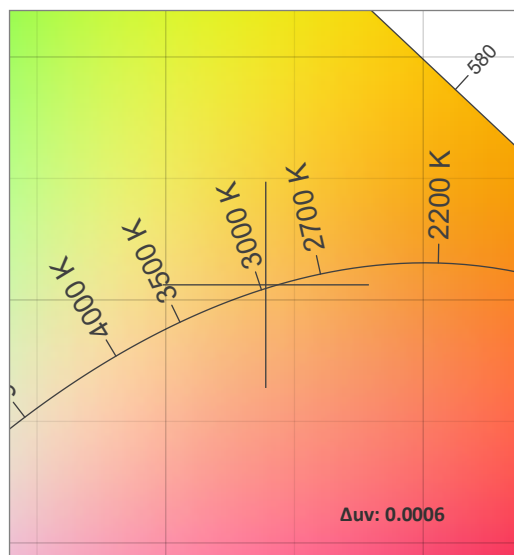
Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

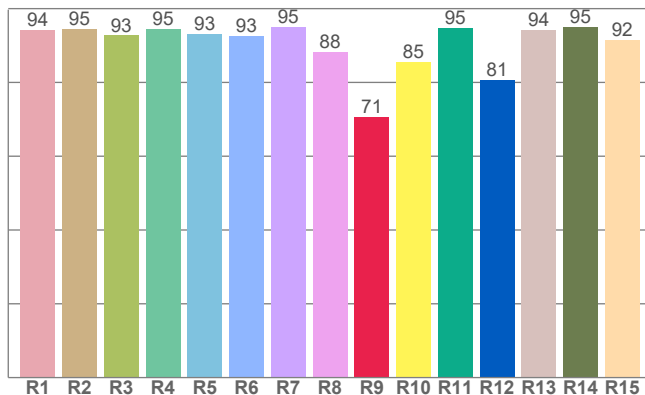
Chromaticity



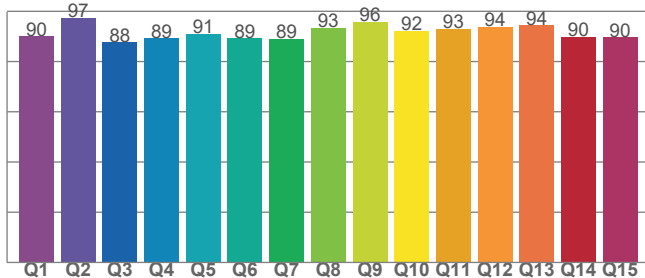
CIE 1931 - Zoom



CRI: 93.1 (R1-R8)



CQS: 91.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2989 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0006	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	70.6	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.6

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Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

TM-30 Details

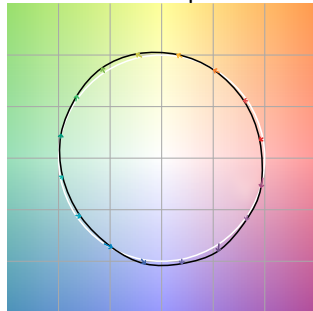
Rf 92.0

Fidelity Index
(Rg)

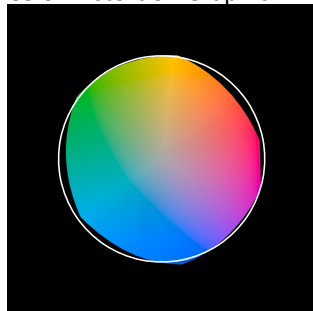
Rg 101.6

Gammut Index (Rg)

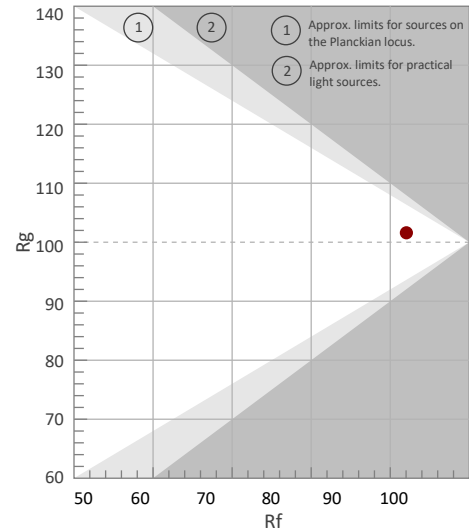
Color Vector Graphic



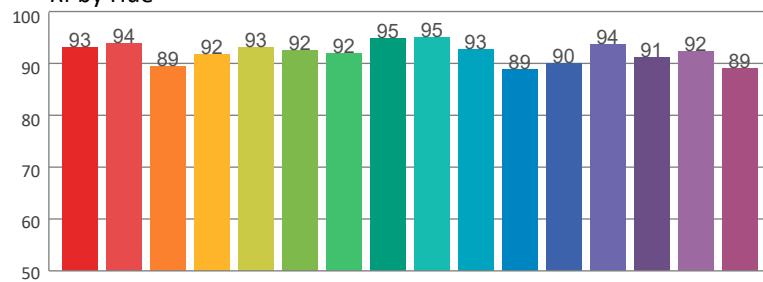
Color Distortion Graphic



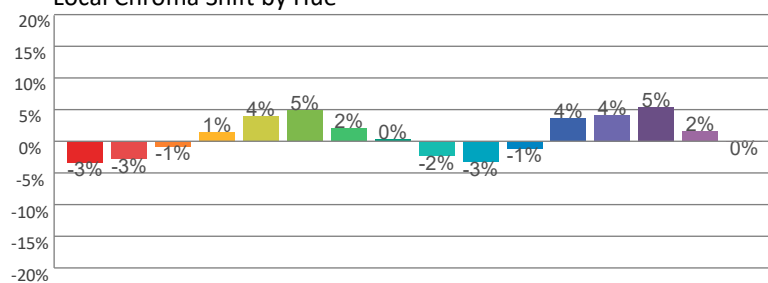
Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	5%
4	92	1%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	92	2%	-4%
16	89	0%	-9%



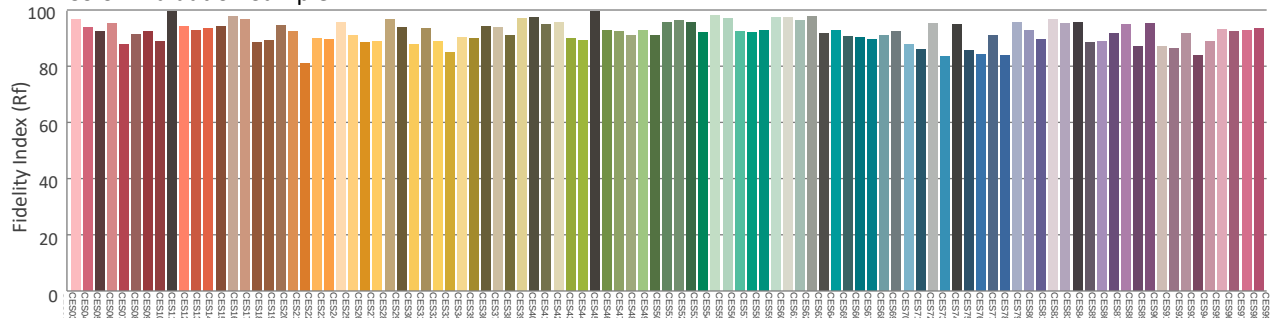
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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