

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1357374

Luminaire Tested: 6ASL4-35VHE-3-R63-UNV

Issue Date: 2/17/2026

**Test Information**

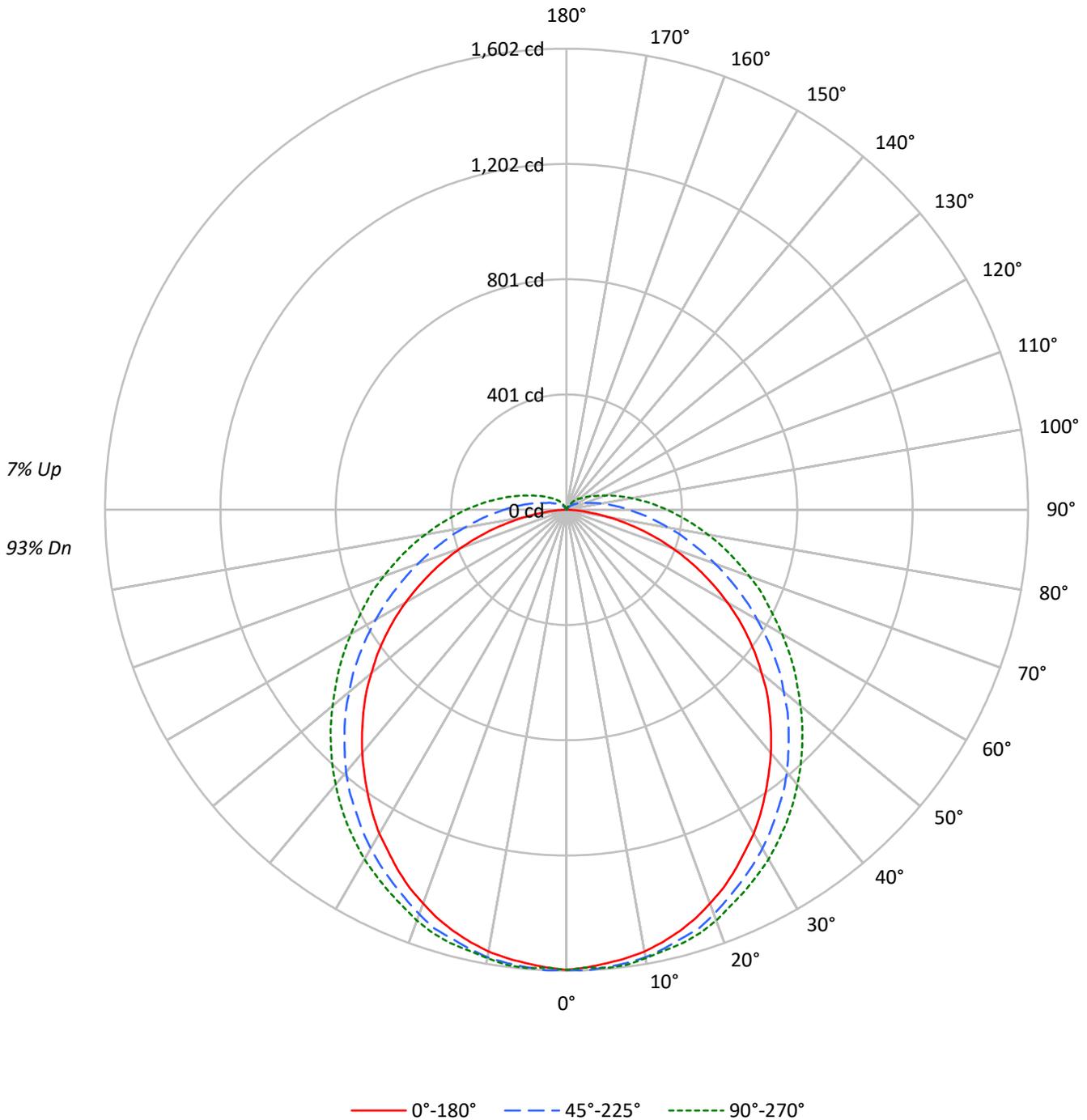
Test Method: LM-79-2019  
Report Number: P1357374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 6ASL4-35VHE-3-R63-UNV  
Description: 6FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5436.0 lumens  
Efficiency: N/A  
Efficacy: 38.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 140.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8635	8635	8635
5°	8565	8477	8437
10°	8523	8317	8224
15°	8435	8116	8043
20°	8315	7924	7839
25°	8173	7682	7607
30°	8024	7472	7411
35°	7838	7234	7192
40°	7668	7016	6962
45°	7486	6752	6731
50°	7278	6468	6491
55°	7054	6198	6275
60°	6761	5881	6056
65°	6387	5577	5875
70°	5910	5277	5733
75°	5210	5005	5635
80°	4141	4806	5594
85°	2579	4774	5676

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7486 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	2.8
10°-20°	435.3	8.0
20°-30°	658.1	12.1
30°-40°	796.9	14.7
40°-50°	837.0	15.4
50°-60°	780.9	14.4
60°-70°	645.3	11.9
70°-80°	464.7	8.5
80°-90°	288.7	5.3
90°-100°	169.2	3.1
100°-110°	96.8	1.8
110°-120°	54.7	1.0
120°-130°	31.4	0.6
130°-140°	16.9	0.3
140°-150°	7.1	0.1
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1245.0	22.9
0°-40°	2041.9	37.6
0°-60°	3659.8	67.3
0°-90°	5058.5	93.1
90°-120°	320.6	5.9
90°-150°	376.1	6.9
90°-180°	377.0	6.9
0°-180°	5436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1582	1596	1596	1596	1599	150
15°	1516	1536	1542	1552	1559	427
25°	1383	1406	1429	1449	1462	637
35°	1203	1236	1276	1313	1330	753
45°	997	1034	1090	1137	1157	769
55°	768	811	878	941	964	686
65°	518	568	655	738	768	513
75°	266	332	449	545	585	281
85°	50	150	282	382	419	61
90°	0	90	216	309	349	2
95°	0	56	163	249	286	0
105°	0	20	90	156	183	0
115°	0	10	53	96	113	0
125°	0	7	33	63	73	0
135°	0	0	20	40	50	0
145°	0	0	10	23	27	0
155°	0	0	0	7	10	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1592.2	1602.1	1602.1	1592.2	1592.2
5°	1582.2	1595.5	1595.5	1595.5	1598.8
7.5°	1572.2	1588.8	1588.8	1588.8	1595.5
10°	1558.9	1575.5	1578.9	1578.9	1582.2
12.5°	1539.0	1558.9	1562.2	1565.6	1568.9
15°	1515.7	1535.6	1542.3	1552.3	1558.9
17.5°	1489.1	1512.4	1525.7	1535.6	1542.3
20°	1455.9	1479.1	1495.8	1509.1	1519.0
22.5°	1422.6	1442.6	1462.5	1479.1	1489.1
25°	1382.7	1406.0	1429.3	1449.2	1462.5
27.5°	1339.5	1366.1	1396.0	1419.3	1432.6
30°	1299.6	1326.2	1359.5	1389.4	1402.7
32.5°	1253.1	1283.0	1319.6	1349.5	1366.1
35°	1203.3	1236.5	1276.4	1312.9	1329.6
37.5°	1153.4	1186.6	1236.5	1273.1	1289.7
40°	1103.5	1136.8	1190.0	1229.8	1246.5
42.5°	1050.4	1083.6	1140.1	1183.3	1203.3
45°	997.2	1033.7	1090.2	1136.8	1156.7
47.5°	944.0	980.6	1040.4	1090.2	1110.2
50°	884.2	924.0	983.9	1040.4	1060.3
52.5°	827.7	867.5	934.0	990.5	1010.5
55°	767.8	811.0	877.5	940.7	963.9
57.5°	708.0	751.2	821.0	887.5	914.1
60°	644.8	691.4	764.5	834.3	864.2
62.5°	581.7	631.5	711.3	784.4	814.4
65°	518.5	568.4	654.8	737.9	767.8
67.5°	455.4	508.6	601.6	688.0	724.6
70°	392.2	448.7	548.4	638.2	674.8
72.5°	329.1	388.9	498.6	591.7	628.2
75°	265.9	332.4	448.7	545.1	585.0
77.5°	202.8	279.2	405.5	501.9	541.8
80°	146.3	232.7	359.0	458.7	498.6
82.5°	93.1	186.1	319.1	418.8	458.7
85°	49.9	149.6	282.5	382.2	418.8
87.5°	16.6	116.3	246.0	345.7	382.2
90°	0.0	89.7	216.1	309.1	349.0
92.5°	0.0	69.8	189.5	279.2	315.8
95°	0.0	56.5	162.9	249.3	285.9
97.5°	0.0	46.5	142.9	222.7	255.9
100°	0.0	36.6	123.0	199.4	229.3
102.5°	0.0	29.9	106.4	176.2	206.1
105°	0.0	19.9	89.7	156.2	182.8
107.5°	0.0	16.6	76.4	139.6	162.9
110°	0.0	13.3	69.8	119.7	142.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.0	63.2	106.4	129.6
115°	0.0	10.0	53.2	96.4	113.0
117.5°	0.0	10.0	46.5	86.4	103.0
120°	0.0	6.6	43.2	76.4	93.1
122.5°	0.0	6.6	36.6	69.8	83.1
125°	0.0	6.6	33.2	63.2	73.1
127.5°	0.0	3.3	29.9	56.5	66.5
130°	0.0	3.3	26.6	49.9	59.8
132.5°	0.0	3.3	23.3	46.5	56.5
135°	0.0	0.0	19.9	39.9	49.9
137.5°	0.0	0.0	16.6	36.6	43.2
140°	0.0	0.0	13.3	29.9	39.9
142.5°	0.0	0.0	10.0	26.6	33.2
145°	0.0	0.0	10.0	23.3	26.6
147.5°	0.0	0.0	6.6	16.6	23.3
150°	0.0	0.0	3.3	13.3	16.6
152.5°	0.0	0.0	0.0	10.0	13.3
155°	0.0	0.0	0.0	6.6	10.0
157.5°	0.0	0.0	0.0	0.0	3.3
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.83	18.37	17.30	18.83	19.31	18.89	20.43	19.36	20.88	21.37
	3H	18.33	19.73	18.81	20.20	20.72	21.36	22.77	21.84	23.23	23.76
	4H	18.81	20.14	19.31	20.62	21.16	22.57	23.90	23.07	24.39	24.92
	6H	19.09	20.33	19.60	20.82	21.37	23.84	25.08	24.36	25.58	26.13
	8H	19.14	20.33	19.66	20.84	21.40	24.50	25.69	25.03	26.21	26.77
	12H	19.15	20.29	19.68	20.80	21.39	25.24	26.38	25.77	26.89	27.48
4H	2H	17.71	19.05	18.22	19.53	20.07	19.32	20.65	19.82	21.13	21.67
	3H	19.45	20.58	19.97	21.11	21.67	22.02	23.16	22.54	23.68	24.24
	4H	20.05	21.09	20.59	21.63	22.22	23.40	24.44	23.94	24.98	25.57
	6H	20.45	21.37	21.01	21.93	22.54	24.86	25.78	25.42	26.34	26.95
	8H	20.55	21.41	21.11	21.97	22.59	25.63	26.49	26.19	27.06	27.67
	12H	20.59	21.37	21.17	21.96	22.59	26.49	27.27	27.07	27.86	28.49
8H	4H	20.74	21.60	21.30	22.17	22.79	23.62	24.48	24.18	25.04	25.66
	6H	21.32	22.05	21.91	22.66	23.28	25.25	25.98	25.84	26.58	27.21
	8H	21.50	22.16	22.11	22.78	23.41	26.16	26.82	26.76	27.43	28.07
	12H	21.62	22.21	22.22	22.81	23.51	27.20	27.79	27.81	28.39	29.10
12H	4H	20.94	21.72	21.52	22.31	22.94	23.62	24.41	24.21	25.00	25.62
	6H	21.62	22.28	22.22	22.89	23.53	25.28	25.95	25.89	26.56	27.20
	8H	21.90	22.49	22.50	23.09	23.80	26.26	26.85	26.87	27.45	28.16

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-7

Test Date: 01/21/2026

Luminaire Tested: 4ASL-2-R630-UNV-OPL-1\_600mA

Data in this report applies to families of products including 4ASL

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2511-597-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 01/29/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Fail-Safe  
 Catalog Number: **4ASL-2-R630-UNV-OPL-1\_600mA**  
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND RED 630NM LEDs with 1 rows at 600mA

**Spectral Parameters**

CCT (K): 0  
 CIE u': 0.5395  
 CIE v': 0.5190  
 Duv: 0.0000  
 CIE x: 0.7004  
 CIE y: 0.2995  
 CIE z: 0.0001  
 Peak Wavelength (nm): 638  
 Dominant Wavelength (nm): 624  
 Purity: 99.9862  
 Rf: NR  
 Rg: NR

CRI (Ra): 0.0  
 R1: 0.0  
 R2: 0.0  
 R3: 0.0  
 R4: 0.0  
 R5: 0.0  
 R6: 0.0  
 R7: 0.0  
 R8: 0.0  
 R9: 0.0  
 R10: 0.0  
 R11: 0.0  
 R12: 0.0  
 R13: 0.0  
 R14: 0.0  
 R15: 0.0



**Test Conditions**

Stabilization Time: 69M  
 Operation Time: 2H 9M  
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-7

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

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**CIE 1931 Chromaticity Diagram**



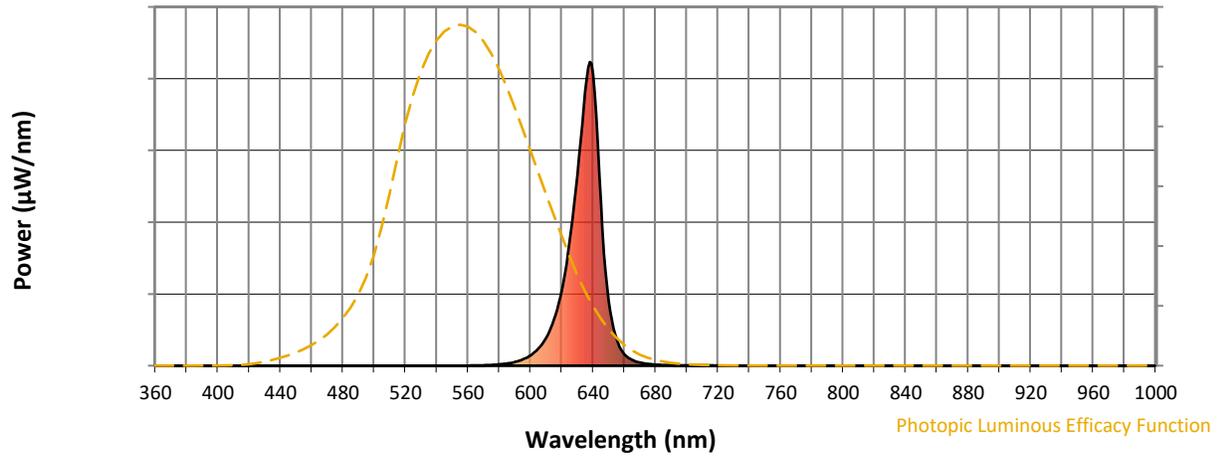
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies outside the range

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**Photopic Flux vs. Wavelength**

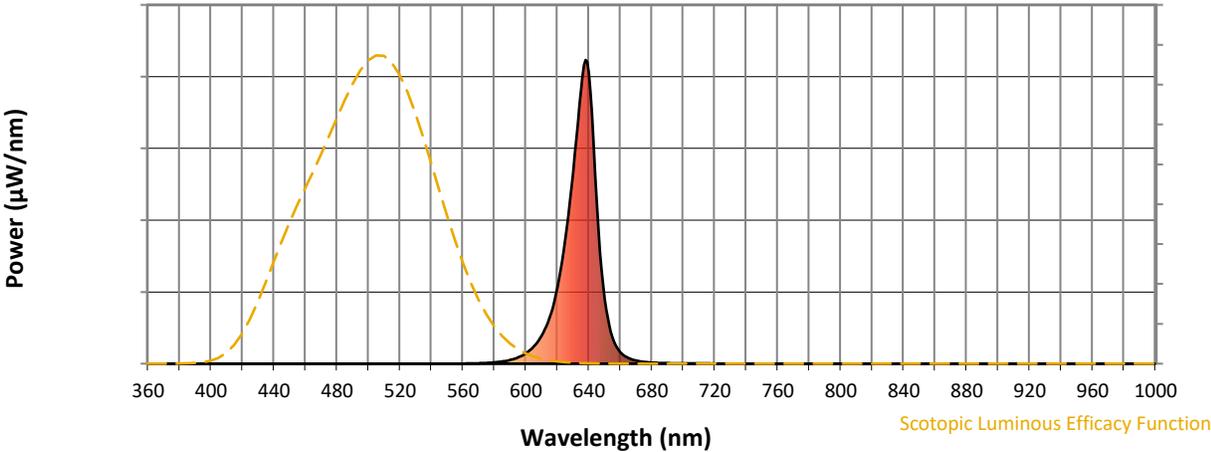


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



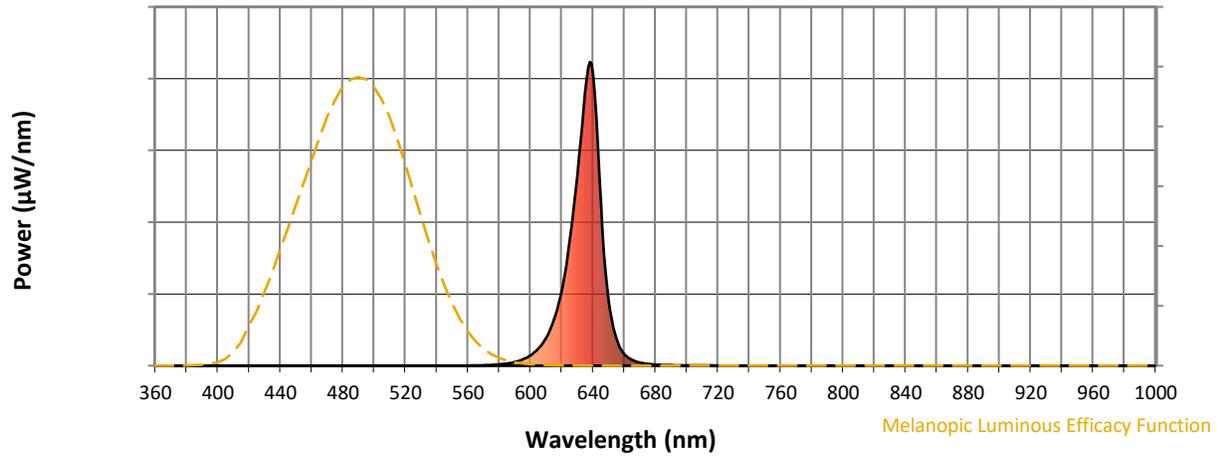
Scotopic Lumens: NR

S/P: 0.05

$\lambda$ (nm)	Power $W/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $W/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $W/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $W/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $W/\text{nm}$	Lumens $(\phi/\text{nm})$
360	0	NR	490	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 0.02**

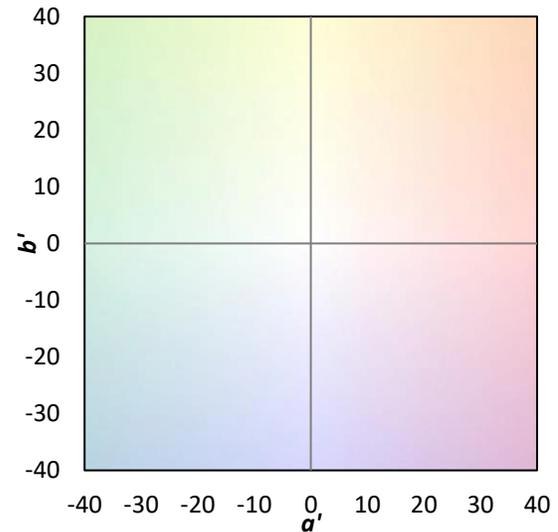
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

**Summary**

$R_f = 0$   
 $R_g = 0$   
 CIE  $R_a = 0.0$   
 $R_9 = 0.0$



**Color Vector Graphics**



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)