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: METALUX

Report Number: P1432530

Luminaire Tested: EHBR1-60-UNV-TASM-L830

Issue Date: 3/13/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1432530
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-TASM-L830
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	55634.9 lumens
Efficiency:	N/A
Efficacy:	168.4 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.84 / 0.9
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	330.4
Input Voltage (V):	NR
Input Current (Ain):	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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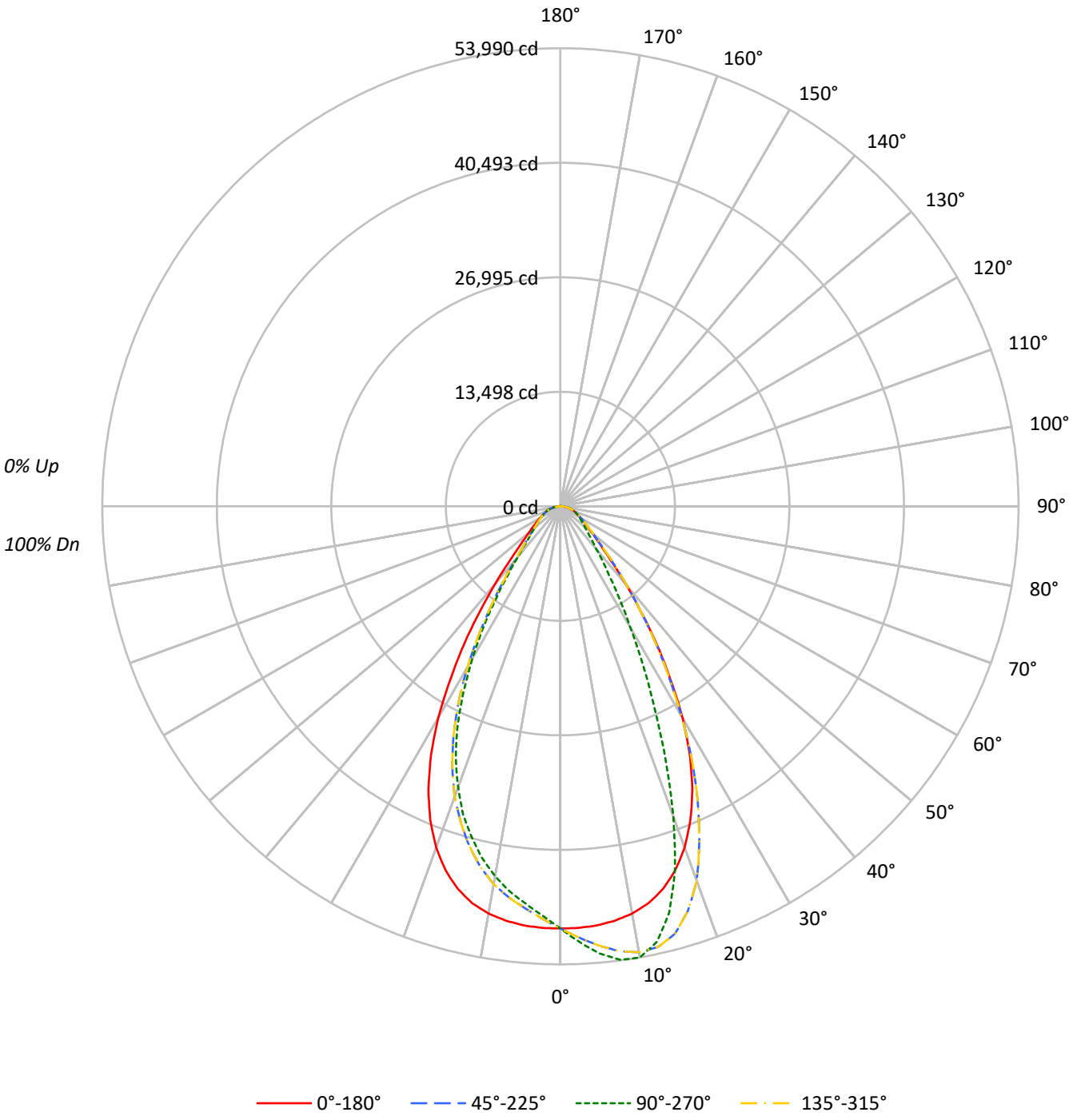
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	233659	233659	233659	233659
5°	233751	249370	233751	221621
10°	232397	257453	232397	211126
15°	227055	240868	227055	196338
20°	213844	194498	213844	176109
25°	190674	135760	190674	148682
30°	156059	89029	156059	112134
35°	112913	58163	112913	75306
40°	73720	40483	73720	47959
45°	47303	31713	47303	34557
50°	35595	27306	35595	29167
55°	29532	25277	29532	26163
60°	26096	24571	26096	24720
65°	24436	24343	24436	24238
70°	24059	24775	24059	24455
75°	23869	25427	23869	24665
80°	23339	26719	23339	24980
85°	19656	24834	19656	23676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 66505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4731.0	8.5
10°-20°	12871.1	23.1
20°-30°	15095.2	27.1
30°-40°	10497.7	18.9
40°-50°	5216.9	9.4
50°-60°	3120.3	5.6
60°-70°	2196.2	3.9
70°-80°	1414.7	2.5
80°-90°	449.3	0.8
90°-100°	2.6	0.0
100°-110°	3.1	0.0
110°-120°	3.2	0.0
120°-130°	4.0	0.0
130°-140°	5.5	0.0
140°-150°	6.6	0.0
150°-160°	7.3	0.0
160°-170°	7.2	0.0
170°-180°	3.1	0.0
0°-30°	32697.3	58.8
0°-40°	43195.1	77.6
0°-60°	51532.2	92.6
0°-90°	55592.4	99.9
90°-120°	8.9	0.0
90°-150°	25.0	0.0
90°-180°	43.0	0.1
0°-180°	55634.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	49756	49756	49756	49756	49756	
5°	49586	52899	49586	47013	49586	4706
15°	46702	49543	46702	40384	46702	13052
25°	36798	26201	36798	28694	36798	16660
35°	19696	10146	19696	13136	19696	12295
45°	7122	4775	7122	5203	7122	5828
55°	3607	3087	3607	3196	3607	3298
65°	2199	2191	2199	2181	2199	2209
75°	1316	1401	1316	1359	1316	1381
85°	365	461	365	439	365	406
90°	1	8	1	1	1	18
95°	2	8	2	1	2	1
105°	2	8	2	2	2	2
115°	3	8	3	2	3	2
125°	4	9	4	3	4	4
135°	8	10	8	4	8	6
145°	11	12	11	10	11	7
155°	15	17	15	18	15	7
165°	25	31	25	26	25	7
175°	33	40	33	32	33	3
180°	35	35	35	35	35	

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TEST NUMBER: P1432530
CATALOG NUMBER: EHBR1-60-UNV-TASM-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	49756.1	49756.1	49756.1	49756.1	*49756.1*	49756.1	49756.1	49756.1	49756.1	49756.1	49756.1
2.5°	49727.2	50370.0	50890.7	51234.0	*51403.8*	51234.0	50890.7	50370.0	49727.2	49088.0	48648.6
5°	49586.3	50873.8	51964.5	52678.3	*52899.4*	52678.3	51964.5	50873.8	49586.3	48369.7	47562.6
7.5°	49249.4	51255.4	52876.1	53709.2	*53912.7*	53709.2	52876.1	51255.4	49249.4	47527.1	46507.4
10°	*48735.4*	*51496.1*	*53368.7*	*53965.8*	*53990.0*	*53965.8*	*53368.7*	*51496.1*	*48735.4*	*46415.1*	*45212.4*
12.5°	47915.3	51410.3	53203.6	53007.6	*52562.6*	53007.6	53203.6	51410.3	47915.3	45056.5	43539.5
15°	46702.3	50901.8	52157.6	50563.2	*49543.4*	50563.2	52157.6	50901.8	46702.3	43222.3	41462.7
17.5°	44993.1	49950.2	49974.5	46819.9	*44896.1*	46819.9	49974.5	49950.2	44993.1	40979.3	39041.5
20°	42790.3	48423.7	46968.3	41198.6	*38919.2*	41198.6	46968.3	48423.7	42790.3	38327.8	36426.3
22.5°	40028.6	46365.6	42781.9	35543.7	*32433.9*	35543.7	42781.9	46365.6	40028.6	35244.1	33265.3
25°	36798.5	43843.7	38278.3	29382.1	*26200.6*	29382.1	38278.3	43843.7	36798.5	31570.0	29780.5
27.5°	32999.3	40647.2	33482.7	24009.9	*21074.6*	24009.9	33482.7	40647.2	32999.3	27776.4	25948.7
30°	28779.4	36549.4	28492.1	19120.9	*16418.1*	19120.9	28492.1	36549.4	28779.4	23514.5	21878.0
32.5°	24054.7	32532.8	23699.2	15320.8	*13031.2*	15320.8	23699.2	32532.8	24054.7	19447.5	17737.3
35°	19695.7	27507.7	19377.5	12038.5	*10145.5*	12038.5	19377.5	27507.7	19695.7	15608.2	13928.8
37.5°	15457.0	22759.7	15446.8	9693.9	*8229.1*	9693.9	15446.8	22759.7	15457.0	12134.6	10771.5
40°	12025.5	17796.1	12102.9	7738.3	*6603.8*	7738.3	12102.9	17796.1	12025.5	9233.0	8360.6
42.5°	9111.7	13607.9	9512.9	6351.0	*5609.2*	6351.0	9512.9	13607.9	9111.7	7274.6	6621.5
45°	7122.5	10013.9	7428.6	5358.3	*4775.1*	5358.3	7428.6	10013.9	7122.5	5858.4	5419.8
47.5°	5800.5	7739.3	6020.7	4596.0	*4187.3*	4596.0	6020.7	7739.3	5800.5	4955.2	4626.8
50°	4872.1	5938.5	4999.0	4011.9	*3737.6*	4011.9	4999.0	5938.5	4872.1	4243.3	4024.0
52.5°	4185.4	4843.3	4257.2	3575.2	*3390.5*	3575.2	4257.2	4843.3	4185.4	3712.5	3576.2
55°	3607.0	4071.6	3702.2	3215.2	*3087.3*	3215.2	3702.2	4071.6	3607.0	3303.8	3203.0
57.5°	3167.6	3454.0	3215.2	2908.2	*2823.2*	2908.2	3215.2	3454.0	3167.6	2939.9	2885.8
60°	2778.5	2991.2	2837.3	2640.4	*2616.1*	2640.4	2837.3	2991.2	2778.5	2645.1	2609.6
62.5°	2479.0	2613.3	2508.9	2399.7	*2378.2*	2399.7	2508.9	2613.3	2479.0	2376.3	2382.9
65°	2199.1	2324.1	2242.0	2183.2	*2190.7*	2183.2	2242.0	2324.1	2199.1	2151.5	2161.7
67.5°	1982.6	2047.9	2012.5	1978.9	*1987.3*	1978.9	2012.5	2047.9	1982.6	1936.0	1951.8
70°	1752.2	1822.2	1785.7	1790.4	*1804.4*	1790.4	1785.7	1822.2	1752.2	1738.2	1750.3
72.5°	1532.0	1586.1	1574.0	1585.2	*1600.1*	1585.2	1574.0	1586.1	1532.0	1530.1	1531.1
75°	1315.5	1356.5	1362.2	1378.1	*1401.4*	1378.1	1362.2	1356.5	1315.5	1301.6	1318.3
77.5°	1079.5	1126.1	1143.8	1165.4	*1199.8*	1165.4	1143.8	1126.1	1079.5	1088.8	1097.2
80°	863.0	884.4	923.7	939.5	*988.0*	939.5	923.7	884.4	863.0	847.2	859.3
82.5°	631.6	651.2	684.8	714.7	*742.7*	714.7	684.8	651.2	631.6	624.2	625.1
85°	364.8	394.6	417.0	452.5	*460.9*	452.5	417.0	394.6	364.8	373.2	364.8
87.5°	127.9	137.1	156.7	170.8	*171.7*	170.8	156.7	137.1	127.9	130.6	118.5
90°	0.9	1.9	2.8	5.6	*7.5*	5.6	2.8	1.9	0.9	0.9	0.9
92.5°	0.9	1.9	2.8	5.6	*7.5*	5.6	2.8	1.9	0.9	0.9	0.9
95°	1.9	1.9	2.8	5.6	*7.5*	5.6	2.8	1.9	1.9	0.9	0.9
97.5°	1.9	1.9	2.8	5.6	*7.5*	5.6	2.8	1.9	1.9	0.9	0.9
100°	1.9	1.9	2.8	5.6	*7.5*	5.6	2.8	1.9	1.9	1.9	0.9
102.5°	1.9	2.8	3.7	6.6	*7.5*	6.6	3.7	2.8	1.9	1.9	0.9
105°	1.9	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	1.9	1.9	0.9
107.5°	1.9	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	1.9	1.9	1.9
110°	1.9	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	1.9	1.9	1.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.9	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	1.9	1.9	1.9
115°	2.8	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	2.8	1.9	1.9
117.5°	2.8	2.8	3.7	6.6	*8.4*	6.6	3.7	2.8	2.8	2.8	1.9
120°	2.8	2.8	4.7	6.6	*8.4*	6.6	4.7	2.8	2.8	2.8	1.9
122.5°	3.7	3.7	4.7	7.5	*8.4*	7.5	4.7	3.7	3.7	3.7	2.8
125°	3.7	3.7	5.6	7.5	*9.4*	7.5	5.6	3.7	3.7	4.7	3.7
127.5°	4.7	4.7	5.6	7.5	*9.4*	7.5	5.6	4.7	4.7	4.7	3.7
130°	5.6	4.7	5.6	8.4	*9.4*	8.4	5.6	4.7	5.6	5.6	4.7
132.5°	6.6	5.6	6.6	9.4	*10.3*	9.4	6.6	5.6	6.6	7.5	6.6
135°	7.5	5.6	7.5	8.4	*10.3*	8.4	7.5	5.6	7.5	8.4	6.6
137.5°	8.4	6.6	7.5	9.4	*10.3*	9.4	7.5	6.6	8.4	9.4	8.4
140°	9.4	7.5	7.5	9.4	*11.2*	9.4	7.5	7.5	9.4	9.4	9.4
142.5°	10.3	8.4	8.4	10.3	*11.2*	10.3	8.4	8.4	10.3	10.3	10.3
145°	11.2	10.3	9.4	10.3	*12.1*	10.3	9.4	10.3	11.2	10.3	11.2
147.5°	11.2	10.3	10.3	11.2	*13.0*	11.2	10.3	10.3	11.2	11.2	12.1
150°	12.1	12.1	11.2	12.1	*14.0*	12.1	11.2	12.1	12.1	12.1	13.0
152.5°	13.0	13.0	13.0	14.0	*14.9*	14.0	13.0	13.0	13.0	13.0	14.0
155°	14.9	14.9	14.9	15.8	*16.8*	15.8	14.9	14.9	14.9	14.0	15.8
157.5°	16.8	17.7	17.7	18.6	*19.6*	18.6	17.7	17.7	16.8	16.8	17.7
160°	20.5	20.5	21.5	22.4	*23.3*	22.4	21.5	20.5	20.5	19.6	20.5
162.5°	22.4	22.4	24.3	25.2	*27.1*	25.2	24.3	22.4	22.4	22.4	22.4
165°	25.2	25.2	27.1	28.9	*30.8*	28.9	27.1	25.2	25.2	24.3	24.3
167.5°	27.1	27.1	28.9	31.8	*33.6*	31.8	28.9	27.1	27.1	26.1	26.1
170°	28.0	28.9	30.8	33.6	*35.4*	33.6	30.8	28.9	28.0	28.0	27.1
172.5°	30.8	30.8	33.6	36.3	*38.2*	36.3	33.6	30.8	30.8	29.9	29.9
175°	32.7	33.6	35.4	38.2	*40.1*	38.2	35.4	33.6	32.7	31.8	31.8
177.5°	32.7	34.6	36.3	39.2	*41.0*	39.2	36.3	34.6	32.7	31.8	31.8
180°	34.6	34.6	34.6	34.6	*34.6*	34.6	34.6	34.6	34.6	34.6	34.6

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	49756.1	49756.1	49756.1	49756.1	49756.1	49756.1
2.5°	48310.9	48279.1	48310.9	48648.6	49088.0	49727.2
5°	47188.5	47013.1	47188.5	47562.6	48369.7	49586.3
7.5°	45881.3	45779.6	45881.3	46507.4	47527.1	49249.4
10°	*44505.2*	*44274.7*	*44505.2*	*45212.4*	*46415.1*	*48735.4*
12.5°	42808.9	42503.8	42808.9	43539.5	45056.5	47915.3
15°	40651.9	40384.1	40651.9	41462.7	43222.3	46702.3
17.5°	38337.1	38094.5	38337.1	39041.5	40979.3	44993.1
20°	35429.8	35239.5	35429.8	36426.3	38327.8	42790.3
22.5°	32379.9	32201.6	32379.9	33265.3	35244.1	40028.6
25°	28791.5	28694.5	28791.5	29780.5	31570.0	36798.5
27.5°	24913.9	24748.8	24913.9	25948.7	27776.4	32999.3
30°	20952.4	20679.1	20952.4	21878.0	23514.5	28779.4
32.5°	17077.7	16880.8	17077.7	17737.3	19447.5	24054.7
35°	13332.6	13135.8	13332.6	13928.8	15608.2	19695.7
37.5°	10388.9	10041.0	10388.9	10771.5	12134.6	15457.0
40°	7879.2	7823.2	7879.2	8360.6	9233.0	12025.5
42.5°	6414.4	6262.3	6414.4	6621.5	7274.6	9111.7
45°	5263.1	5203.3	5263.1	5419.8	5858.4	7122.5
47.5°	4526.0	4552.1	4526.0	4626.8	4955.2	5800.5
50°	3976.4	3992.3	3976.4	4024.0	4243.3	4872.1
52.5°	3571.6	3557.5	3571.6	3576.2	3712.5	4185.4
55°	3213.3	3195.5	3213.3	3203.0	3303.8	3607.0
57.5°	2899.8	2912.8	2899.8	2885.8	2939.9	3167.6
60°	2619.9	2632.0	2619.9	2609.6	2645.1	2778.5
62.5°	2383.8	2391.3	2383.8	2382.9	2376.3	2479.0
65°	2173.0	2181.3	2173.0	2161.7	2151.5	2199.1
67.5°	1971.4	1971.4	1971.4	1951.8	1936.0	1982.6
70°	1782.0	1781.1	1782.0	1750.3	1738.2	1752.2
72.5°	1554.4	1576.8	1554.4	1531.1	1530.1	1532.0
75°	1333.2	1359.4	1333.2	1318.3	1301.6	1315.5
77.5°	1109.3	1149.4	1109.3	1097.2	1088.8	1079.5
80°	879.9	923.7	879.9	859.3	847.2	863.0
82.5°	650.3	683.0	650.3	625.1	624.2	631.6
85°	387.2	439.4	387.2	364.8	373.2	364.8
87.5°	124.1	158.6	124.1	118.5	130.6	127.9
90°	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	0.9	0.9	0.9	0.9	0.9	0.9
95°	0.9	0.9	0.9	0.9	0.9	1.9
97.5°	0.9	1.9	0.9	0.9	0.9	1.9
100°	0.9	1.9	0.9	0.9	1.9	1.9
102.5°	0.9	1.9	0.9	0.9	1.9	1.9
105°	0.9	1.9	0.9	0.9	1.9	1.9
107.5°	0.9	1.9	0.9	1.9	1.9	1.9
110°	0.9	1.9	0.9	1.9	1.9	1.9

TEST NUMBER: P1432530
CATALOG NUMBER: EHBR1-60-UNV-TASM-L830

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.9	1.9	0.9	1.9	1.9	1.9
115°	0.9	1.9	0.9	1.9	1.9	2.8
117.5°	0.9	1.9	0.9	1.9	2.8	2.8
120°	0.9	1.9	0.9	1.9	2.8	2.8
122.5°	1.9	1.9	1.9	2.8	3.7	3.7
125°	1.9	2.8	1.9	3.7	4.7	3.7
127.5°	1.9	2.8	1.9	3.7	4.7	4.7
130°	2.8	2.8	2.8	4.7	5.6	5.6
132.5°	3.7	3.7	3.7	6.6	7.5	6.6
135°	4.7	3.7	4.7	6.6	8.4	7.5
137.5°	5.6	4.7	5.6	8.4	9.4	8.4
140°	7.5	6.6	7.5	9.4	9.4	9.4
142.5°	8.4	8.4	8.4	10.3	10.3	10.3
145°	10.3	10.3	10.3	11.2	10.3	11.2
147.5°	12.1	12.1	12.1	12.1	11.2	11.2
150°	14.0	14.0	14.0	13.0	12.1	12.1
152.5°	14.9	15.8	14.9	14.0	13.0	13.0
155°	16.8	17.7	16.8	15.8	14.0	14.9
157.5°	18.6	20.5	18.6	17.7	16.8	16.8
160°	21.5	22.4	21.5	20.5	19.6	20.5
162.5°	23.3	24.3	23.3	22.4	22.4	22.4
165°	25.2	26.1	25.2	24.3	24.3	25.2
167.5°	26.1	26.1	26.1	26.1	26.1	27.1
170°	27.1	28.0	27.1	27.1	28.0	28.0
172.5°	28.9	29.9	28.9	29.9	29.9	30.8
175°	30.8	31.8	30.8	31.8	31.8	32.7
177.5°	31.8	32.7	31.8	31.8	31.8	32.7
180°	34.6	34.6	34.6	34.6	34.6	34.6

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

Scaled Data Report

TEST NUMBER: P1432530
CATALOG NUMBER: EHBR1-60-UNV-TASM-L830

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	20.60	21.81	20.97	22.12	22.44	19.92	21.13	20.28	21.44	21.76
	3H	22.24	23.31	22.62	23.64	24.01	21.87	22.94	22.25	23.27	23.64
	4H	22.94	23.94	23.35	24.30	24.68	22.73	23.73	23.13	24.08	24.47
	6H	23.51	24.43	23.93	24.81	25.20	23.48	24.40	23.90	24.77	25.17
	8H	23.72	24.59	24.15	24.98	25.39	23.77	24.64	24.20	25.03	25.44
	12H	23.84	24.67	24.28	25.06	25.49	23.96	24.79	24.40	25.18	25.61
4H	2H	21.06	22.06	21.47	22.42	22.80	20.55	21.55	20.95	21.90	22.29
	3H	22.97	23.80	23.39	24.20	24.61	22.72	23.55	23.14	23.96	24.36
	4H	23.83	24.57	24.27	24.99	25.44	23.72	24.46	24.16	24.88	25.33
	6H	24.55	25.19	25.02	25.64	26.11	24.62	25.26	25.08	25.70	26.17
	8H	24.81	25.41	25.28	25.86	26.33	24.96	25.56	25.43	26.01	26.48
	12H	24.98	25.50	25.47	25.99	26.47	25.21	25.74	25.70	26.22	26.70
8H	4H	24.14	24.73	24.61	25.18	25.66	24.06	24.66	24.53	25.11	25.58
	6H	25.01	25.50	25.52	26.00	26.48	25.12	25.60	25.62	26.10	26.58
	8H	25.37	25.80	25.89	26.32	26.81	25.56	26.00	26.09	26.51	27.01
	12H	25.62	26.00	26.14	26.50	27.08	25.92	26.30	26.44	26.80	27.37
12H	4H	24.17	24.69	24.66	25.18	25.65	24.09	24.62	24.58	25.10	25.58
	6H	25.08	25.52	25.61	26.04	26.53	25.19	25.62	25.71	26.14	26.63
	8H	25.50	25.88	26.02	26.38	26.95	25.70	26.08	26.22	26.58	27.16

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

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

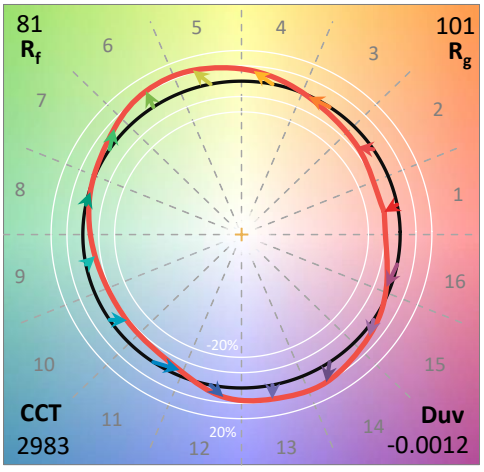
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983	CRI (Ra):	83.4		
CIE u':	0.2516	R1:	84.0	R9:	29.4
CIE v':	0.5201	R2:	87.5	R10:	68.6
Duv:	-0.0012	R3:	88.9	R11:	82.2
CIE x:	0.4364	R4:	83.8	R12:	61.6
CIE y:	0.4010	R5:	81.9	R13:	83.9
CIE z:	0.1626	R6:	83.1	R14:	92.5
Peak Wavelength (nm):	630	R7:	87.1	R15:	79.8
Dominant Wavelength (nm):	583	R8:	70.9		
Purity:	51.34918				
Rf:	81.2				
Rg:	101.5				



Test Conditions

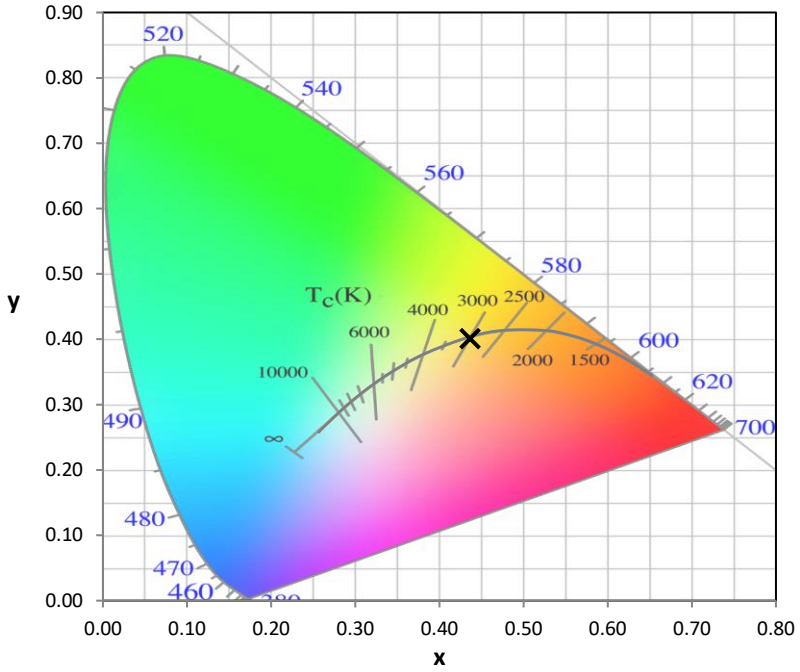
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

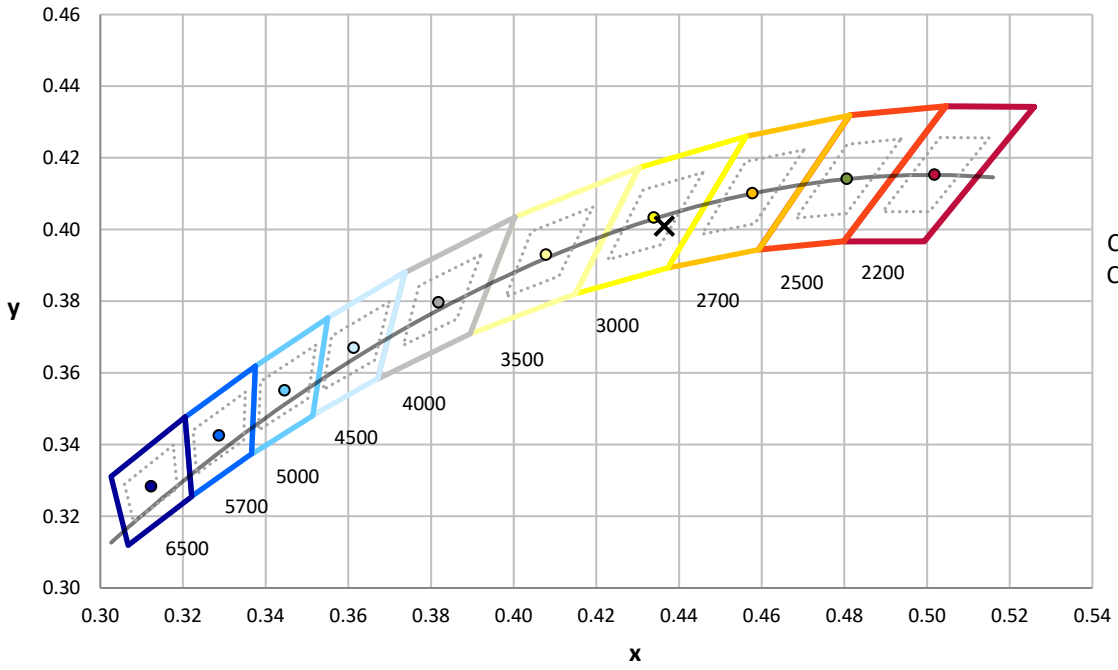
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

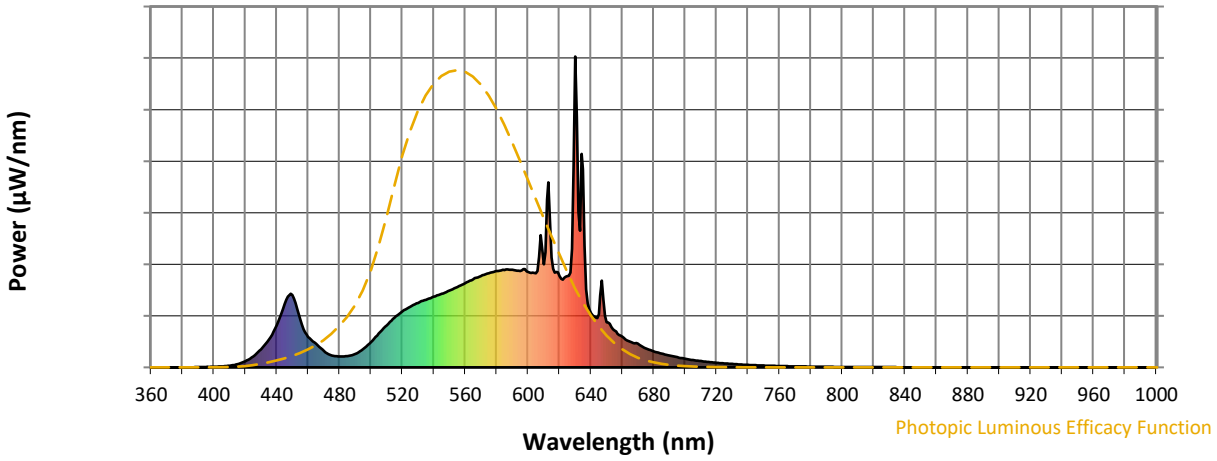


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

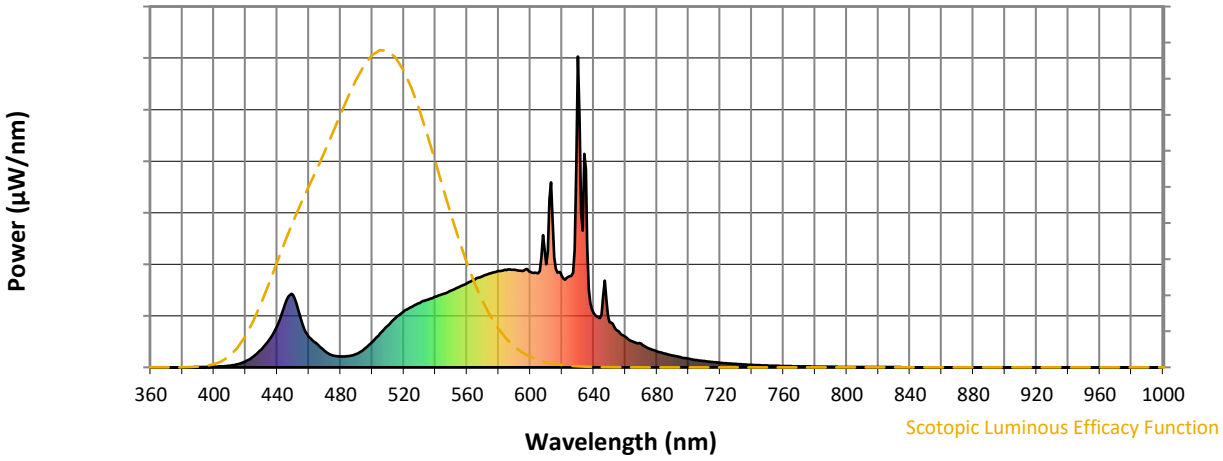


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength

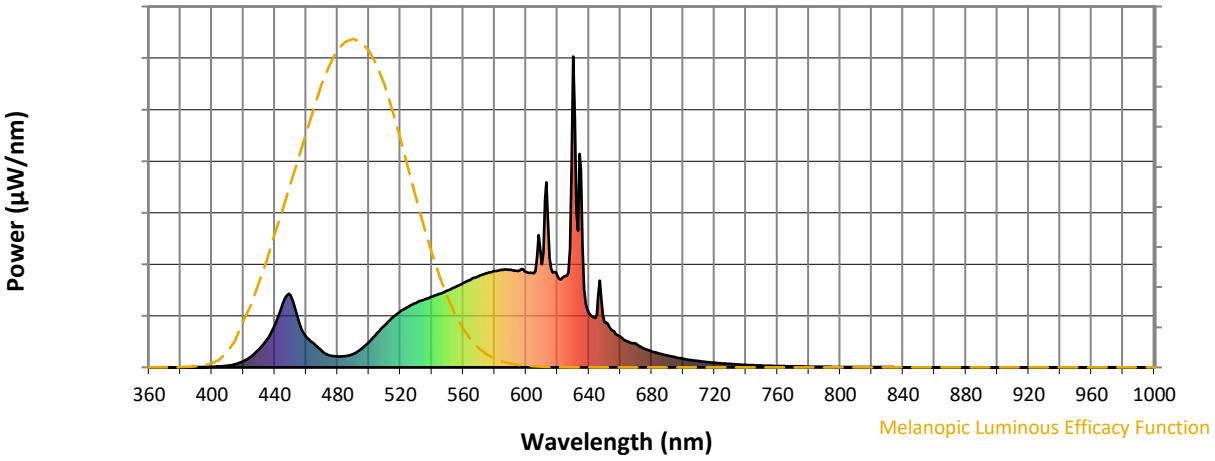


Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

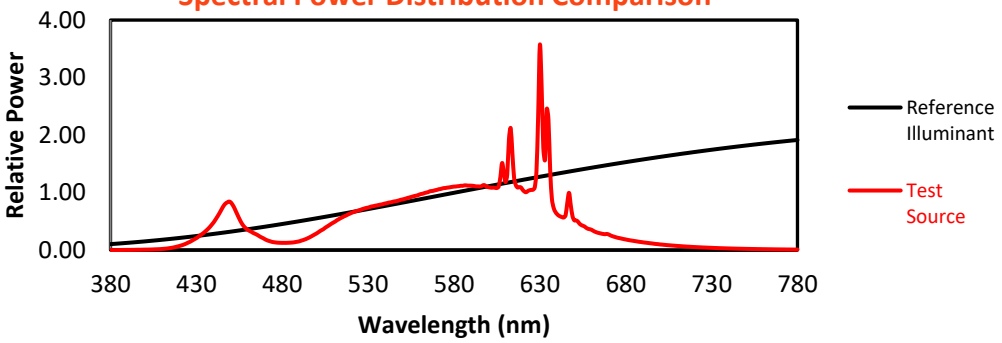
REPORT NUMBER: SP1-2506-472-2

TM-30-18

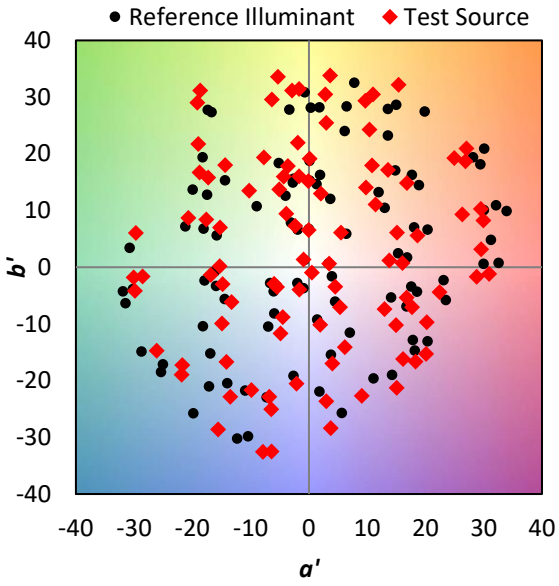
Summary

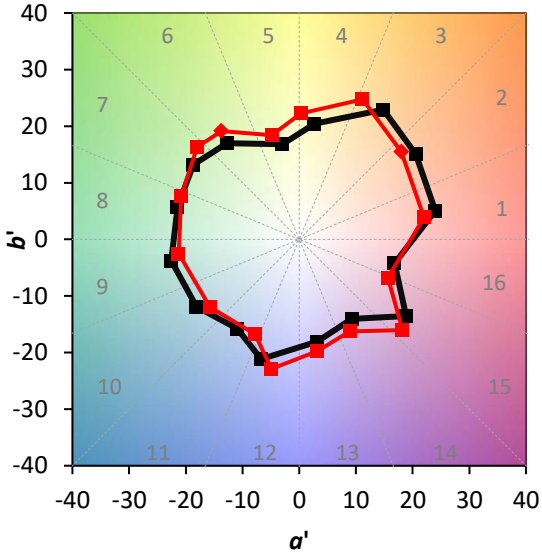
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

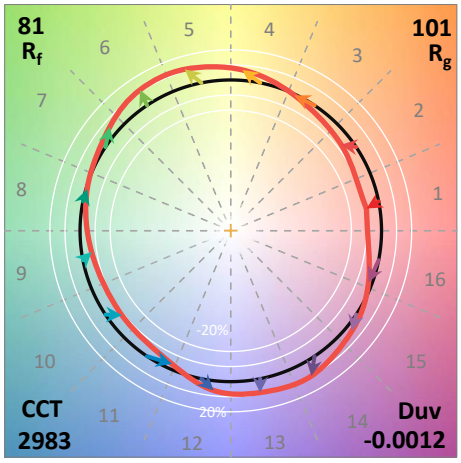
Spectral Power Distribution Comparison

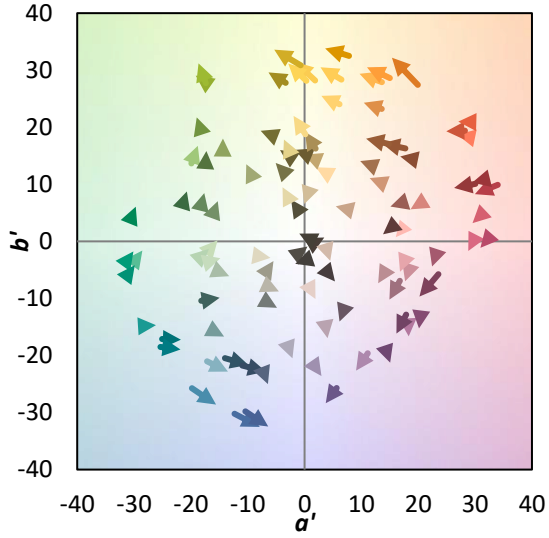


Color Vector Graphics







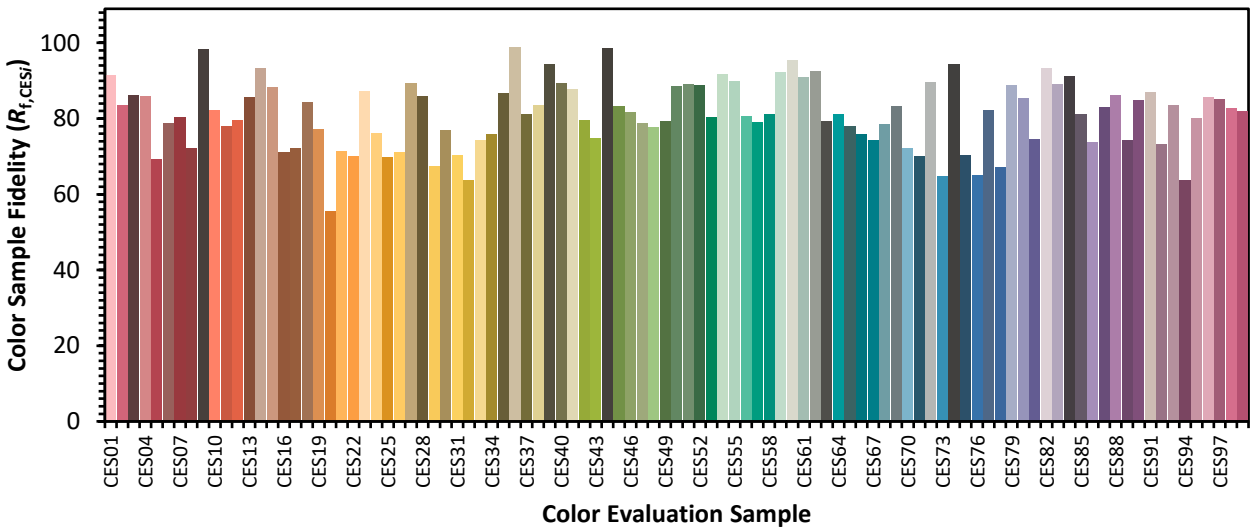


REPORT NUMBER: SP1-2506-472-2

TM-30-18

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

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



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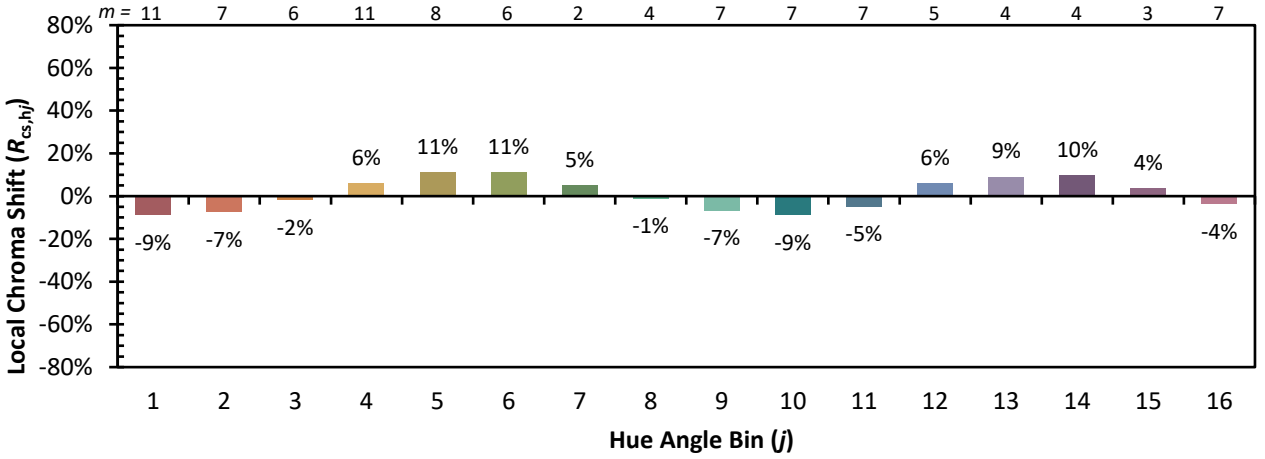
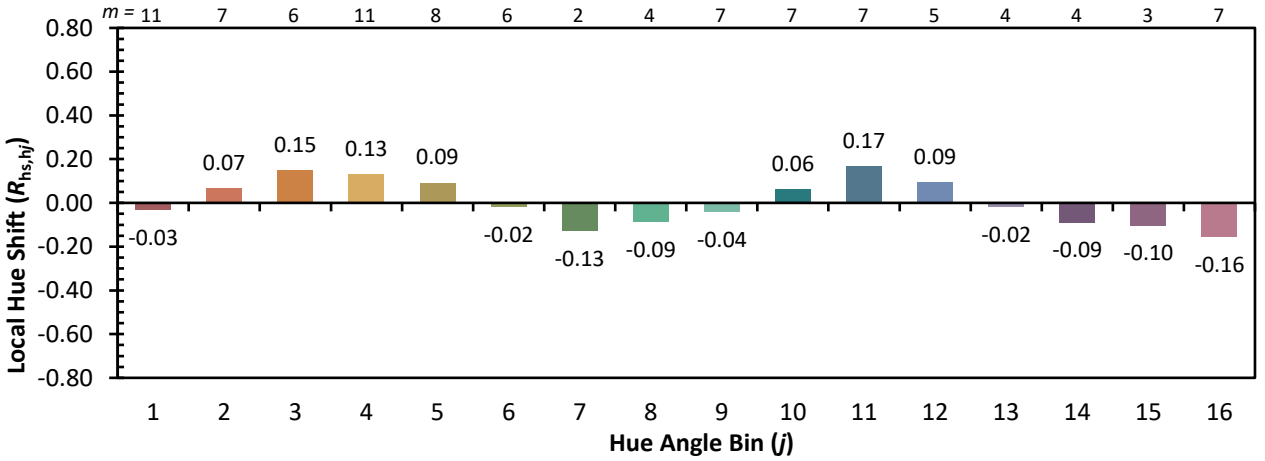
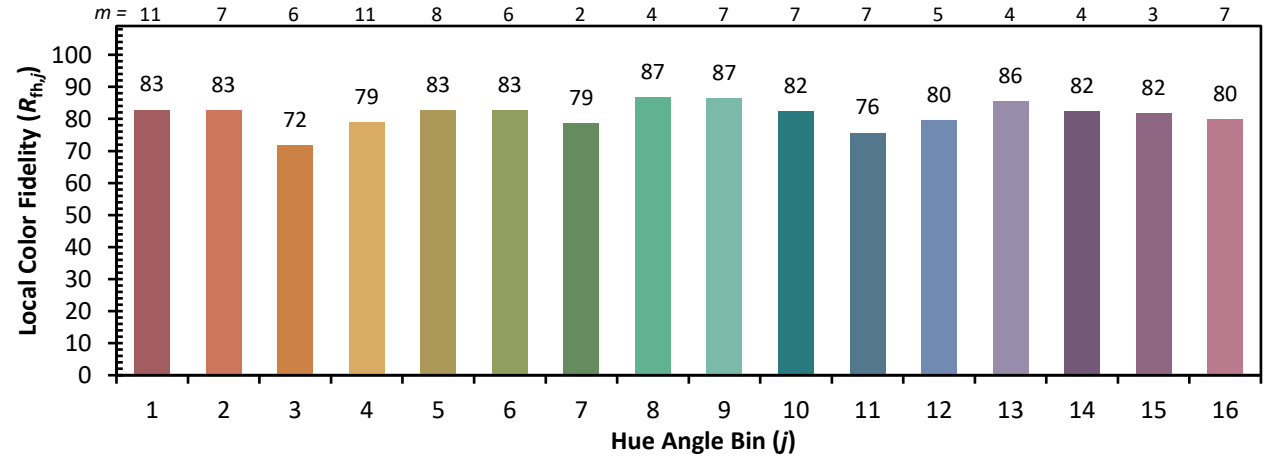
Color Rendition by Hue-Angle Bin







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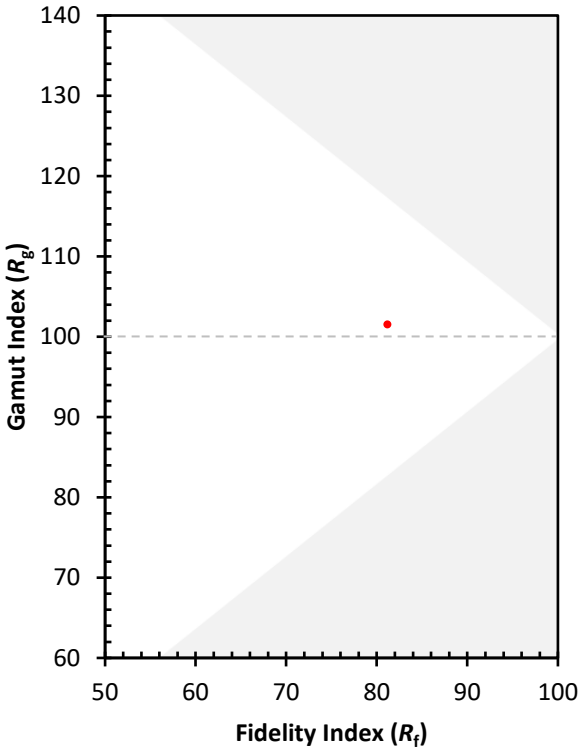
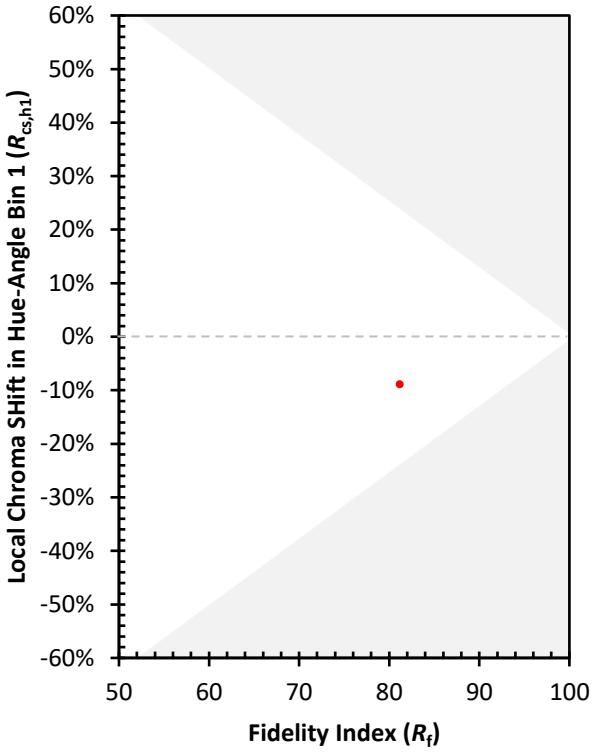
Measure Comparisons





(END OF REPORT)