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: P1432782

Luminaire Tested: EHBR1-54-UNV-TASM-L835-UPL24

Issue Date: 3/20/2026

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:	P1432782
	REPORT IS A COMBINATION OF REPORTS P1431871 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-54-UNV-TASM-L835-UPL24
Description:	Elevate Round Highbay at, 54000 lumens, 3500K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	54472.4 lumens
Efficiency:	N/A
Efficacy:	174.3 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.84 / 0.9
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	312.5
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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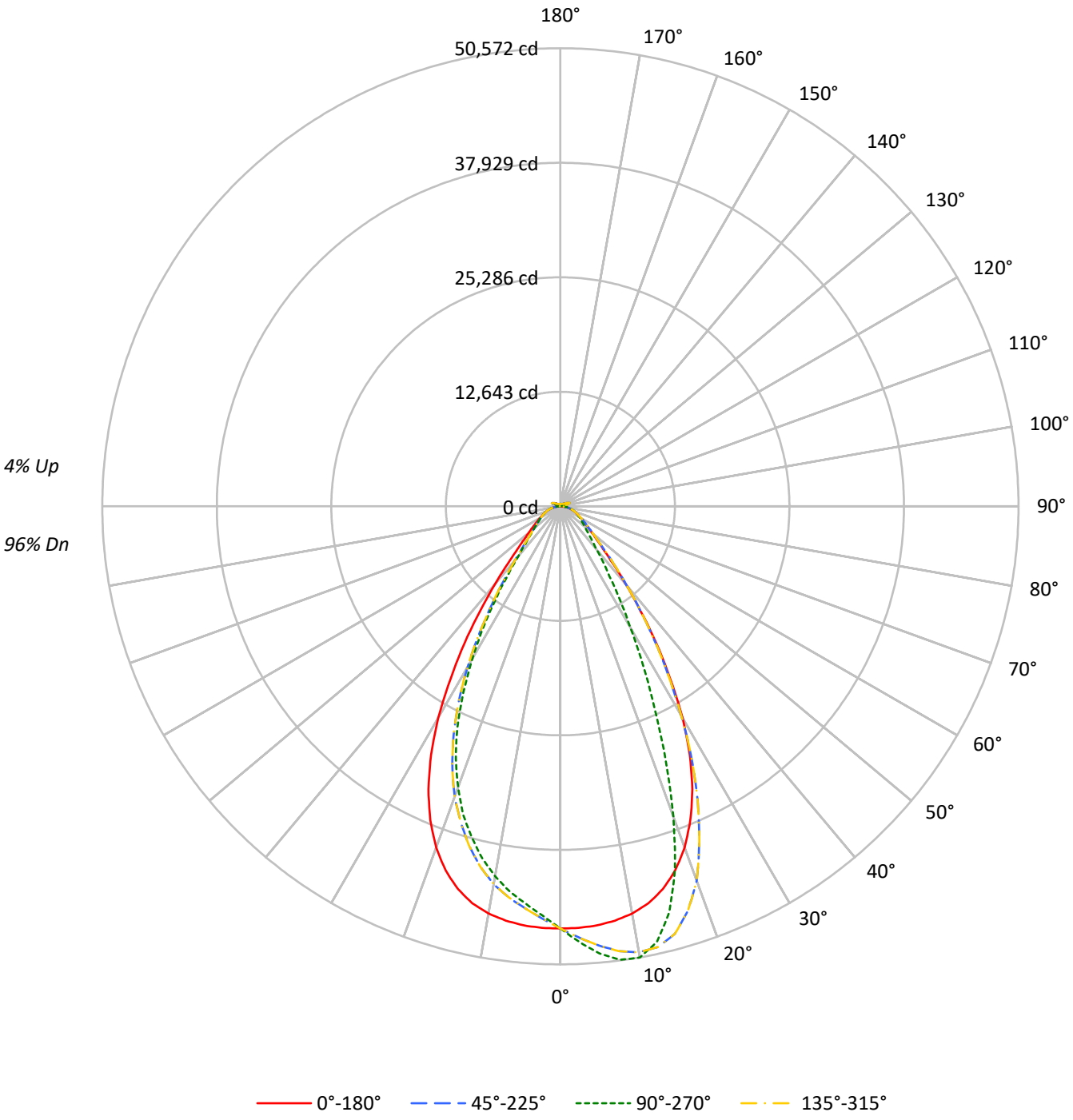
Luminous Intensity Polar Plot



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	111	107	104	101	108	105	102	99	100	98	96	95	94	92	91	90	88	86
2	104	98	93	89	101	96	91	87	92	88	85	88	85	82	85	82	80	78
3	97	90	84	79	95	88	82	78	85	80	76	81	78	74	79	75	73	71
4	92	83	76	71	89	81	75	70	78	73	69	76	71	68	73	70	66	65
5	86	76	70	65	84	75	69	64	73	67	63	71	66	62	68	64	61	59
6	81	71	64	59	79	70	63	59	68	62	58	66	61	57	64	60	56	55
7	77	66	59	54	75	65	59	54	63	58	54	62	57	53	60	56	52	51
8	73	62	55	50	71	61	55	50	59	54	50	58	53	49	57	52	49	47
9	69	58	51	47	67	57	51	47	56	50	46	55	50	46	54	49	46	44
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	218869	218869	218869	218869
5°	217537	232071	217537	206247
10°	214863	238029	214863	195196
15°	208519	221203	208519	180308
20°	195017	177375	195017	160604
25°	172606	122895	172606	134593
30°	140149	79952	140149	100703
35°	100519	51779	100519	67040
40°	64989	35689	64989	42279
45°	41235	27645	41235	30124
50°	30622	23491	30622	25092
55°	25002	21399	25002	22150
60°	21649	20385	21649	20508
65°	19735	19659	19735	19576
70°	18704	19263	18704	19014
75°	17493	18635	17493	18075
80°	15367	17593	15367	16447
85°	9942	12560	9942	11976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 57974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4431.6	8.1
10°-20°	12056.4	22.1
20°-30°	14139.6	26.0
30°-40°	9833.2	18.1
40°-50°	4886.7	9.0
50°-60°	2922.7	5.4
60°-70°	2057.1	3.8
70°-80°	1325.1	2.4
80°-90°	425.1	0.8
90°-100°	64.5	0.1
100°-110°	414.2	0.8
110°-120°	763.8	1.4
120°-130°	455.1	0.8
130°-140°	276.8	0.5
140°-150°	192.9	0.4
150°-160°	127.5	0.2
160°-170°	74.8	0.1
170°-180°	25.2	0.0
0°-30°	30627.6	56.2
0°-40°	40460.8	74.3
0°-60°	48270.2	88.6
0°-90°	52077.6	95.6
90°-120°	1242.5	2.3
90°-150°	2167.3	4.0
90°-180°	2395.0	4.4
0°-180°	54472.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	46606	46606	46606	46606	46606	
5°	46448	49551	46448	44037	46448	4408
15°	43746	46407	43746	37828	43746	12225
25°	34469	24542	34469	26878	34469	15605
35°	18449	9503	18449	12304	18449	11517
45°	6672	4473	6672	4874	6672	5459
55°	3379	2892	3379	2993	3379	3090
65°	2060	2052	2060	2043	2060	2069
75°	1232	1313	1232	1273	1232	1294
85°	342	432	342	412	342	380
90°	18	24	18	18	18	25
95°	34	36	34	30	34	36
105°	190	101	190	145	190	257
115°	813	697	813	660	813	741
125°	521	549	521	477	521	480
135°	332	384	332	350	332	263
145°	303	317	303	294	303	190
155°	272	284	272	266	272	127
165°	262	273	262	258	262	74
175°	265	274	265	260	265	25
180°	266	266	266	266	266	

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TEST NUMBER: P1432782
CATALOG NUMBER: EHBR1-54-UNV-TASM-L835-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	46606.5	46606.5	46606.5	46606.5	*46606.5*	46606.5	46606.5	46606.5	46606.5	46606.5	46606.5
2.5°	46579.4	47181.5	47669.2	47990.9	*48149.9*	47990.9	47669.2	47181.5	46579.4	45980.7	45569.1
5°	46447.5	47653.5	48675.2	49343.7	*49550.8*	49343.7	48675.2	47653.5	46447.5	45307.9	44551.9
7.5°	46131.9	48010.9	49529.0	50309.4	*50500.0*	50309.4	49529.0	48010.9	46131.9	44518.7	43563.4
10°	*45650.5*	*48236.4*	*49990.4*	*50549.7*	*50572.5*	*50549.7*	*49990.4*	*48236.4*	*45650.5*	*43476.9*	*42350.4*
12.5°	44882.3	48156.0	49835.7	49652.3	*49235.4*	49652.3	49835.7	48156.0	44882.3	42204.5	40783.4
15°	43746.1	47679.7	48856.0	47362.5	*46407.2*	47362.5	48856.0	47679.7	43746.1	40486.3	38838.0
17.5°	42145.1	46788.3	46811.0	43856.2	*42054.2*	43856.2	46811.0	46788.3	42145.1	38385.3	36570.2
20°	40081.7	45358.5	43995.2	38590.7	*36455.7*	38590.7	43995.2	45358.5	40081.7	35901.6	34120.5
22.5°	37494.8	43430.6	40073.8	33293.7	*30380.9*	33293.7	40073.8	43430.6	37494.8	33013.2	31159.6
25°	34469.2	41068.4	35855.2	27522.2	*24542.1*	27522.2	35855.2	41068.4	34469.2	29571.6	27895.4
27.5°	30910.5	38074.2	31363.2	22490.1	*19740.6*	22490.1	31363.2	38074.2	30910.5	26018.2	24306.1
30°	26957.6	34235.8	26688.5	17910.5	*15378.8*	17910.5	26688.5	34235.8	26957.6	22026.0	20493.1
32.5°	22532.0	30473.5	22199.0	14351.0	*12206.3*	14351.0	22199.0	30473.5	22532.0	18216.5	16614.5
35°	18448.9	25766.5	18150.9	11276.5	*9503.3*	11276.5	18150.9	25766.5	18448.9	14620.2	13047.1
37.5°	14478.6	21319.0	14469.0	9080.3	*7708.2*	9080.3	14469.0	21319.0	14478.6	11366.6	10089.6
40°	11264.2	16669.6	11336.8	7248.5	*6185.8*	7248.5	11336.8	16669.6	11264.2	8648.6	7831.4
42.5°	8534.9	12746.5	8910.8	5949.0	*5254.2*	5949.0	8910.8	12746.5	8534.9	6814.2	6202.4
45°	6671.7	9380.0	6958.3	5019.0	*4472.9*	5019.0	6958.3	9380.0	6671.7	5487.5	5076.7
47.5°	5433.3	7249.4	5639.5	4305.0	*3922.3*	4305.0	5639.5	7249.4	5433.3	4641.5	4333.9
50°	4563.7	5562.6	4682.6	3757.9	*3501.0*	3757.9	4682.6	5562.6	4563.7	3974.6	3769.4
52.5°	3920.5	4536.6	3987.8	3349.0	*3175.9*	3349.0	3987.8	4536.6	3920.5	3477.4	3349.9
55°	3378.7	3813.9	3467.8	3011.6	*2891.9*	3011.6	3467.8	3813.9	3378.7	3094.6	3000.3
57.5°	2967.0	3235.3	3011.6	2724.1	*2644.6*	2724.1	3011.6	3235.3	2967.0	2753.8	2703.1
60°	2602.6	2801.9	2657.7	2473.2	*2450.6*	2473.2	2657.7	2801.9	2602.6	2477.6	2444.4
62.5°	2322.1	2447.9	2350.0	2247.8	*2227.7*	2247.8	2350.0	2447.9	2322.1	2226.0	2232.1
65°	2059.9	2177.0	2100.1	2045.0	*2052.0*	2045.0	2100.1	2177.0	2059.9	2015.3	2024.9
67.5°	1857.1	1918.3	1885.1	1853.6	*1861.5*	1853.6	1885.1	1918.3	1857.1	1813.5	1828.3
70°	1641.2	1706.8	1672.7	1677.1	*1690.2*	1677.1	1672.7	1706.8	1641.2	1628.1	1639.5
72.5°	1435.0	1485.7	1474.3	1484.8	*1498.8*	1484.8	1474.3	1485.7	1435.0	1433.2	1434.1
75°	1232.3	1270.7	1275.9	1290.8	*1312.7*	1290.8	1275.9	1270.7	1232.3	1219.1	1234.9
77.5°	1011.1	1054.9	1071.4	1091.6	*1123.9*	1091.6	1071.4	1054.9	1011.1	1019.8	1027.8
80°	808.4	828.5	865.2	880.1	*925.5*	880.1	865.2	828.5	808.4	793.5	804.9
82.5°	591.6	610.0	641.5	669.5	*695.7*	669.5	641.5	610.0	591.6	584.6	585.5
85°	341.7	369.7	390.7	423.9	*431.7*	423.9	390.7	369.7	341.7	349.6	341.7
87.5°	119.8	128.5	146.8	159.9	*160.8*	159.9	146.8	128.5	119.8	122.4	111.0
90°	17.9	30.5	52.5	31.4	*24.0*	31.4	52.5	30.5	17.9	31.0	48.1
92.5°	23.2	41.0	73.4	40.6	*30.5*	40.6	73.4	41.0	23.2	40.1	76.9
95°	34.5	50.2	93.1	44.5	*35.8*	44.5	93.1	50.2	34.5	53.3	107.1
97.5°	52.8	62.1	104.8	47.2	*42.4*	47.2	104.8	62.1	52.8	65.1	122.8
100°	69.9	69.9	190.1	53.7	*47.6*	53.7	190.1	69.9	69.9	80.4	190.9
102.5°	105.3	136.3	438.6	104.4	*56.8*	104.4	438.6	136.3	105.3	149.8	404.6
105°	190.5	309.3	770.2	263.0	*100.9*	263.0	770.2	309.3	190.5	312.3	720.4
107.5°	359.6	575.3	991.7	514.6	*228.1*	514.6	991.7	575.3	359.6	552.2	950.6
110°	574.5	803.4	1082.1	703.3	*456.1*	703.3	1082.1	803.4	574.5	758.0	996.5

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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°	747.5	895.1	1057.3	779.4	*629.1*	779.4	1057.3	895.1	747.5	836.6	954.6
115°	812.6	882.0	944.5	776.7	*697.2*	776.7	944.5	882.0	812.6	817.0	852.4
117.5°	785.1	807.4	816.1	729.6	*701.2*	729.6	816.1	807.4	785.1	735.2	723.9
120°	709.1	699.8	688.5	660.1	*661.8*	660.1	688.5	699.8	709.1	642.2	604.6
122.5°	614.2	594.6	582.3	590.2	*608.1*	590.2	582.3	594.6	614.2	547.4	519.0
125°	521.2	501.5	508.5	529.9	*548.7*	529.9	508.5	501.5	521.2	465.8	458.3
127.5°	443.4	434.2	454.8	478.8	*494.9*	478.8	454.8	434.2	443.4	408.1	415.0
130°	388.0	389.7	416.8	437.7	*447.8*	437.7	416.8	389.7	388.0	370.9	388.4
132.5°	353.5	363.1	388.9	407.2	*413.3*	407.2	388.9	363.1	353.5	349.1	370.4
135°	332.0	346.0	370.0	381.4	*384.4*	381.4	370.0	346.0	332.0	334.2	353.5
137.5°	319.8	333.8	351.7	361.3	*359.6*	361.3	351.7	333.8	319.8	324.6	339.4
140°	312.8	326.8	334.6	345.6	*344.6*	345.6	334.6	326.8	312.8	315.4	327.2
142.5°	305.8	318.5	322.4	330.7	*328.9*	330.7	322.4	318.5	305.8	308.5	316.3
145°	302.7	312.3	308.9	318.9	*316.7*	318.9	308.9	312.3	302.7	303.2	308.0
147.5°	296.1	303.2	299.3	308.0	*305.8*	308.0	299.3	303.2	296.1	296.1	298.4
150°	289.2	294.4	288.3	298.4	*298.8*	298.4	288.3	294.4	289.2	287.9	290.0
152.5°	279.6	284.8	279.6	290.9	*290.5*	290.9	279.6	284.8	279.6	278.3	280.4
155°	272.2	274.8	272.2	283.5	*284.4*	283.5	272.2	274.8	272.2	271.3	273.1
157.5°	267.3	269.6	268.2	278.3	*279.2*	278.3	268.2	269.6	267.3	267.3	268.2
160°	264.2	266.9	266.5	275.2	*276.1*	275.2	266.5	266.9	264.2	264.7	265.6
162.5°	263.4	263.4	263.9	272.6	*274.3*	272.6	263.9	263.4	263.4	263.4	264.7
165°	262.1	263.4	262.5	269.5	*272.6*	269.5	262.5	263.4	262.1	262.5	262.5
167.5°	262.5	261.2	263.0	269.5	*272.6*	269.5	263.0	261.2	262.5	263.0	263.0
170°	260.8	261.6	262.1	268.6	*271.7*	268.6	262.1	261.6	260.8	262.1	262.5
172.5°	263.4	263.4	263.4	268.6	*273.1*	268.6	263.4	263.4	263.4	263.9	265.1
175°	265.1	264.7	265.1	269.2	*273.6*	269.2	265.1	264.7	265.1	264.2	264.2
177.5°	263.9	265.6	267.3	271.3	*277.0*	271.3	267.3	265.6	263.9	264.2	264.2
180°	265.6	265.6	265.6	265.6	*265.6*	265.6	265.6	265.6	265.6	265.6	265.6

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	46606.5	46606.5	46606.5	46606.5	46606.5	46606.5
2.5°	45252.8	45223.1	45252.8	45569.1	45980.7	46579.4
5°	44201.4	44037.1	44201.4	44551.9	45307.9	46447.5
7.5°	42977.1	42881.7	42977.1	43563.4	44518.7	46131.9
10°	*41687.9*	*41472.1*	*41687.9*	*42350.4*	*43476.9*	*45650.5*
12.5°	40099.2	39813.4	40099.2	40783.4	42204.5	44882.3
15°	38078.6	37827.7	38078.6	38838.0	40486.3	43746.1
17.5°	35910.3	35683.1	35910.3	36570.2	38385.3	42145.1
20°	33187.2	33008.8	33187.2	34120.5	35901.6	40081.7
22.5°	30330.2	30163.3	30330.2	31159.6	33013.2	37494.8
25°	26969.0	26878.1	26969.0	27895.4	29571.6	34469.2
27.5°	23336.9	23182.2	23336.9	24306.1	26018.2	30910.5
30°	19626.2	19370.1	19626.2	20493.1	22026.0	26957.6
32.5°	15996.6	15812.3	15996.6	16614.5	18216.5	22532.0
35°	12488.6	12304.3	12488.6	13047.1	14620.2	18448.9
37.5°	9731.3	9405.4	9731.3	10089.6	11366.6	14478.6
40°	7380.5	7328.0	7380.5	7831.4	8648.6	11264.2
42.5°	6008.3	5865.9	6008.3	6202.4	6814.2	8534.9
45°	4929.9	4874.0	4929.9	5076.7	5487.5	6671.7
47.5°	4239.5	4264.0	4239.5	4333.9	4641.5	5433.3
50°	3724.8	3739.6	3724.8	3769.4	3974.6	4563.7
52.5°	3345.5	3332.3	3345.5	3349.9	3477.4	3920.5
55°	3009.9	2993.3	3009.9	3000.3	3094.6	3378.7
57.5°	2716.3	2728.5	2716.3	2703.1	2753.8	2967.0
60°	2454.0	2465.4	2454.0	2444.4	2477.6	2602.6
62.5°	2233.0	2239.9	2233.0	2232.1	2226.0	2322.1
65°	2035.4	2043.3	2035.4	2024.9	2015.3	2059.9
67.5°	1846.6	1846.6	1846.6	1828.3	1813.5	1857.1
70°	1669.3	1668.4	1669.3	1639.5	1628.1	1641.2
72.5°	1456.0	1477.0	1456.0	1434.1	1433.2	1435.0
75°	1248.9	1273.3	1248.9	1234.9	1219.1	1232.3
77.5°	1039.1	1076.7	1039.1	1027.8	1019.8	1011.1
80°	824.2	865.2	824.2	804.9	793.5	808.4
82.5°	609.2	639.7	609.2	585.5	584.6	591.6
85°	362.7	411.6	362.7	341.7	349.6	341.7
87.5°	116.3	148.6	116.3	111.0	122.4	119.8
90°	28.4	17.9	28.4	48.1	31.0	17.9
92.5°	42.9	25.8	42.9	76.9	40.1	23.2
95°	49.4	29.7	49.4	107.1	53.3	34.5
97.5°	54.6	38.4	54.6	122.8	65.1	52.8
100°	63.8	50.2	63.8	190.9	80.4	69.9
102.5°	134.6	84.3	134.6	404.6	149.8	105.3
105°	282.7	144.6	282.7	720.4	312.3	190.5
107.5°	505.5	249.4	505.5	950.6	552.2	359.6
110°	670.6	464.4	670.6	996.5	758.0	574.5

TEST NUMBER: P1432782
CATALOG NUMBER: EHBR1-54-UNV-TASM-L835-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	720.4	626.9	720.4	954.6	836.6	747.5
115°	692.9	659.7	692.9	852.4	817.0	812.6
117.5°	632.6	637.4	632.6	723.9	735.2	785.1
120°	563.1	590.3	563.1	604.6	642.2	709.1
122.5°	499.8	531.2	499.8	519.0	547.4	614.2
125°	444.7	477.1	444.7	458.3	465.8	521.2
127.5°	406.7	428.6	406.7	415.0	408.1	443.4
130°	377.4	395.8	377.4	388.4	370.9	388.0
132.5°	357.3	369.2	357.3	370.4	349.1	353.5
135°	339.9	349.5	339.9	353.5	334.2	332.0
137.5°	325.0	333.3	325.0	339.4	324.6	319.8
140°	312.3	319.3	312.3	327.2	315.4	312.8
142.5°	298.8	304.1	298.8	316.3	308.5	305.8
145°	290.0	294.0	290.0	308.0	303.2	302.7
147.5°	282.7	285.3	282.7	298.4	296.1	296.1
150°	275.2	277.8	275.2	290.0	287.9	289.2
152.5°	267.0	270.5	267.0	280.4	278.3	279.6
155°	262.1	265.6	262.1	273.1	271.3	272.2
157.5°	259.9	263.0	259.9	268.2	267.3	267.3
160°	258.6	260.8	258.6	265.6	264.7	264.2
162.5°	256.4	258.6	256.4	264.7	263.4	263.4
165°	256.9	257.7	256.9	262.5	262.5	262.1
167.5°	256.4	257.7	256.4	263.0	263.0	262.5
170°	257.3	258.1	257.3	262.5	262.1	260.8
172.5°	259.0	259.9	259.0	265.1	263.9	263.4
175°	259.5	260.4	259.5	264.2	264.2	265.1
177.5°	261.6	262.5	261.6	264.2	264.2	263.9
180°	265.6	265.6	265.6	265.6	265.6	265.6

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

Scaled Data Report

TEST NUMBER: P1432782
CATALOG NUMBER: EHBR1-54-UNV-TASM-L835-UPL24

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	19.54	20.68	19.99	21.09	21.52	18.86	20.00	19.31	20.41	20.84
	3H	21.09	22.10	21.55	22.53	23.00	20.71	21.72	21.17	22.15	22.62
	4H	21.73	22.67	22.21	23.12	23.61	21.49	22.44	21.97	22.88	23.37
	6H	22.21	23.08	22.70	23.54	24.04	22.14	23.00	22.63	23.46	23.97
	8H	22.36	23.18	22.87	23.66	24.18	22.36	23.18	22.87	23.66	24.17
	12H	22.43	23.22	22.95	23.69	24.23	22.49	23.27	23.00	23.74	24.28
4H	2H	19.96	20.90	20.44	21.35	21.84	19.44	20.38	19.92	20.82	21.32
	3H	21.76	22.54	22.25	23.03	23.54	21.50	22.28	21.99	22.77	23.28
	4H	22.53	23.23	23.05	23.74	24.29	22.40	23.11	22.92	23.61	24.16
	6H	23.15	23.75	23.69	24.28	24.85	23.18	23.78	23.72	24.31	24.88
	8H	23.34	23.91	23.89	24.44	25.01	23.45	24.01	23.99	24.54	25.11
	12H	23.45	23.95	24.01	24.51	25.09	23.62	24.11	24.18	24.68	25.25
8H	4H	22.78	23.35	23.33	23.88	24.45	22.68	23.25	23.23	23.78	24.35
	6H	23.52	23.98	24.10	24.56	25.14	23.59	24.05	24.17	24.62	25.21
	8H	23.79	24.20	24.39	24.79	25.39	23.94	24.35	24.54	24.94	25.54
	12H	23.97	24.33	24.56	24.90	25.57	24.19	24.55	24.78	25.12	25.79
12H	4H	22.79	23.29	23.36	23.85	24.43	22.70	23.19	23.26	23.76	24.33
	6H	23.57	23.98	24.16	24.57	25.16	23.63	24.04	24.23	24.64	25.23
	8H	23.89	24.24	24.48	24.82	25.49	24.04	24.40	24.63	24.97	25.64

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: SP1-2506-472-3

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L835-N

Data in this report applies to families of products including EHBR-60-L835-N

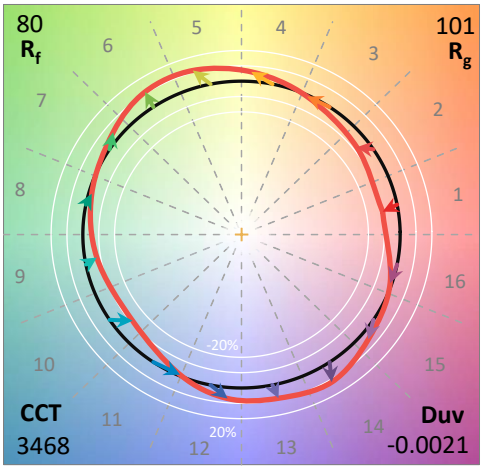
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-3
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-L835-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	3468	CRI (Ra):	82.1		
CIE u':	0.2375	R1:	82.9	R9:	27.6
CIE v':	0.5091	R2:	85.6	R10:	63.8
Duv:	-0.0021	R3:	85.9	R11:	81.2
CIE x:	0.4049	R4:	82.8	R12:	57.2
CIE y:	0.3856	R5:	81.0	R13:	82.6
CIE z:	0.2095	R6:	79.7	R14:	91.0
Peak Wavelength (nm):	630	R7:	86.5	R15:	79.4
Dominant Wavelength (nm):	581	R8:	72.1		
Purity:	37.24544				
Rf:	80.1				
Rg:	101				



Test Conditions

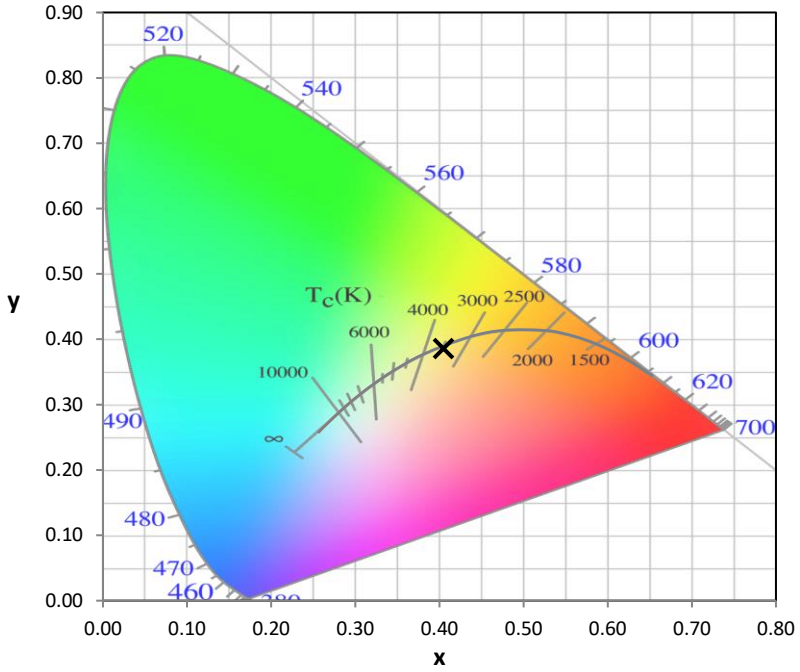
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

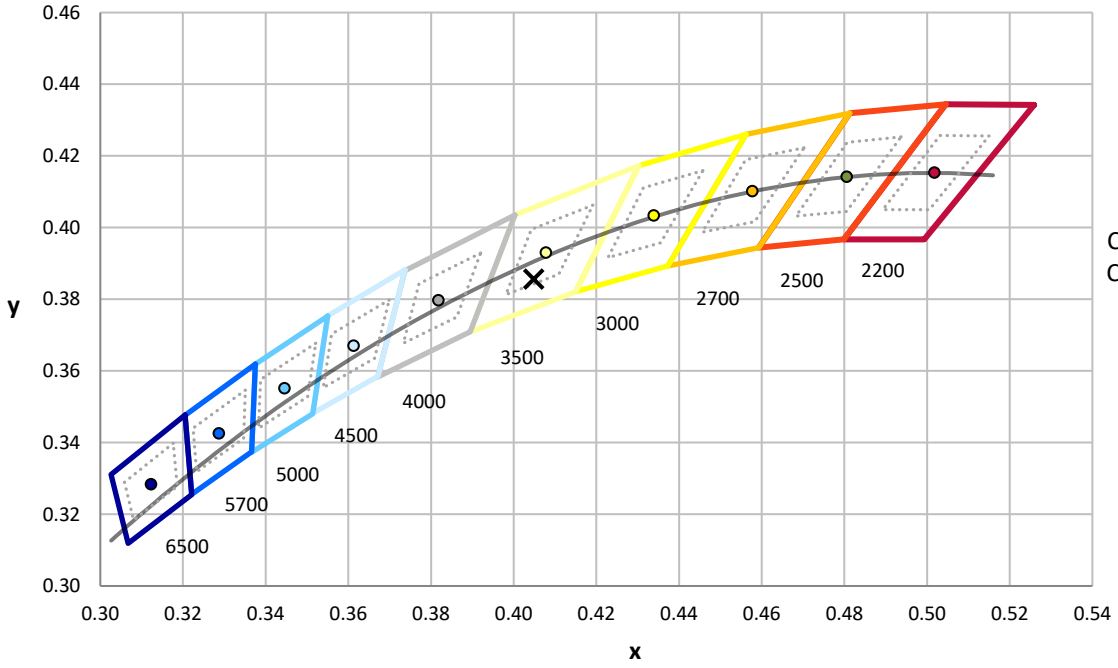
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-3

CIE 1931 Chromaticity Diagram



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

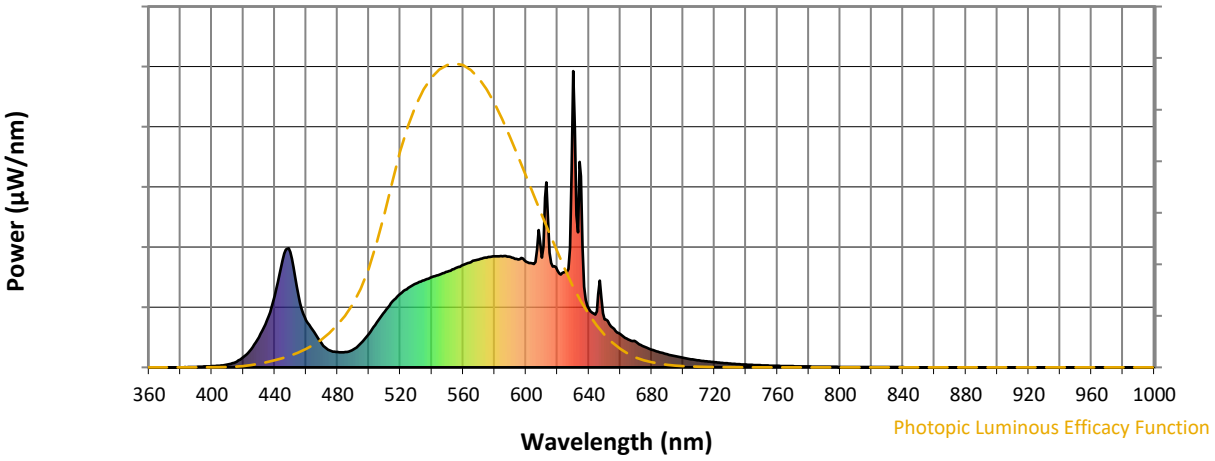


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

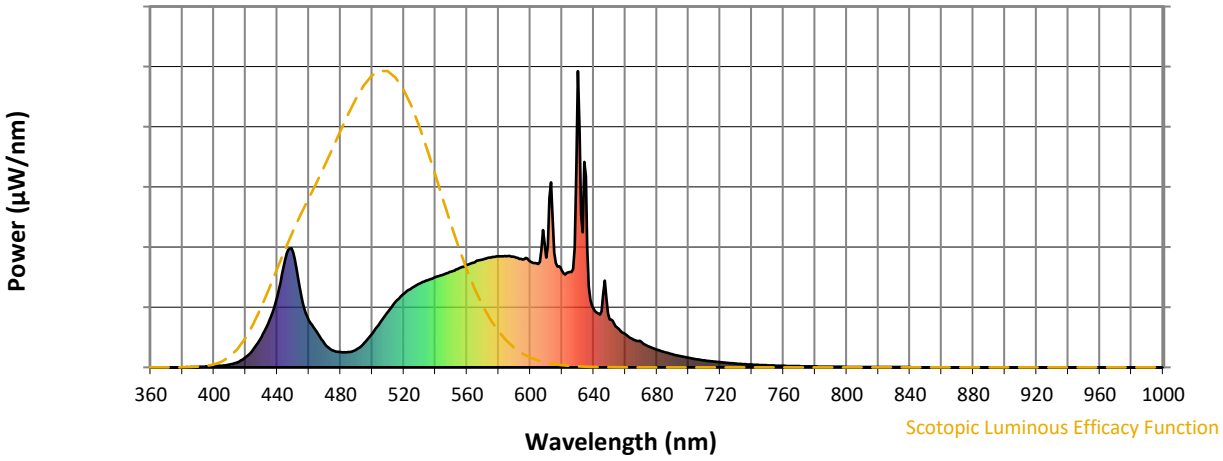


Photopic Lumens: NR

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	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Scotopic Flux vs. Wavelength

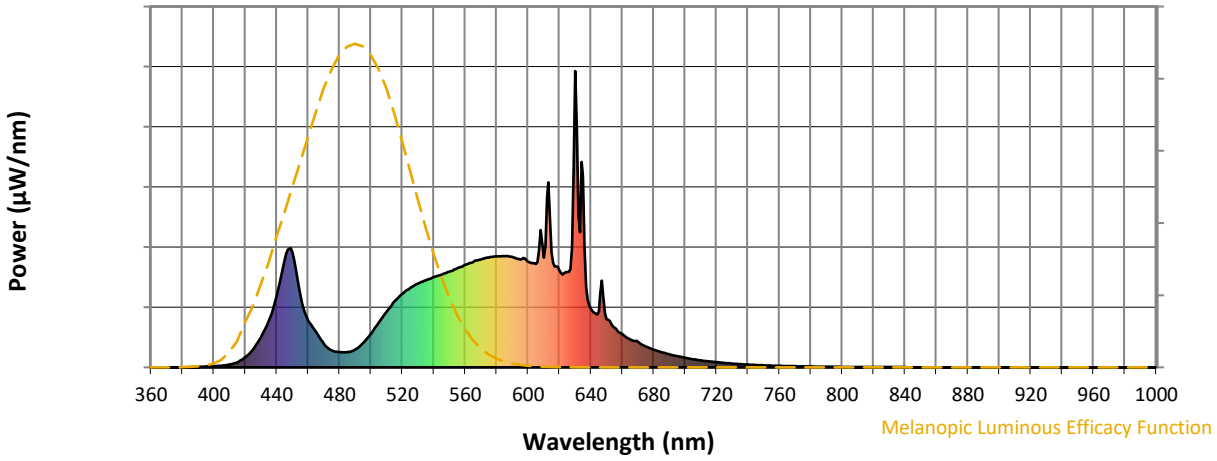


Scotopic Lumens: NR **S/P: 1.43**

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	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.75**

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	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

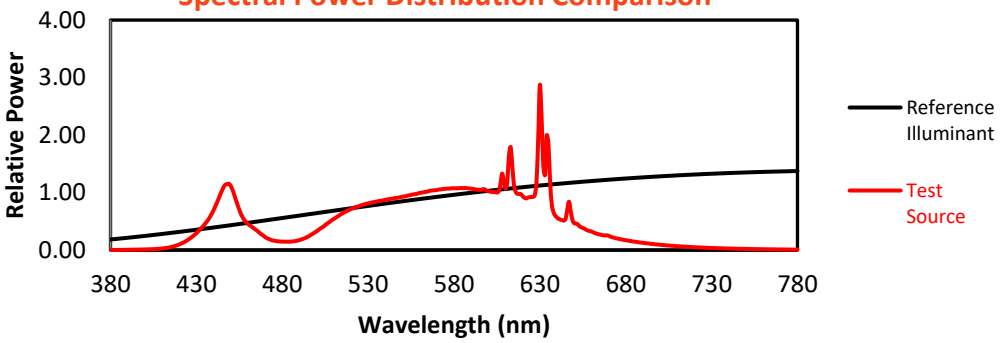
REPORT NUMBER: SP1-2506-472-3

TM-30-18

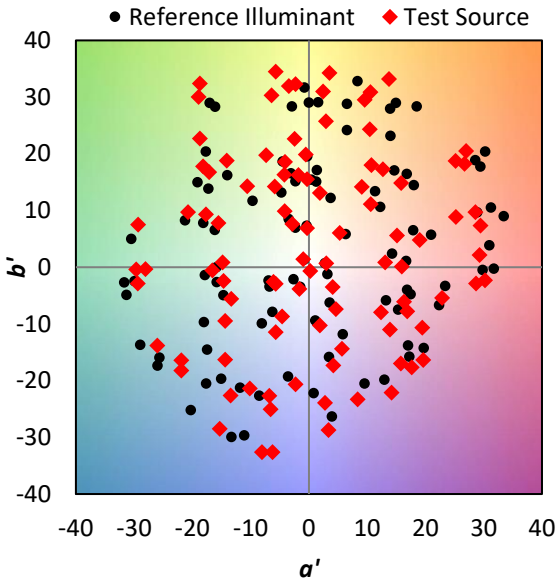
Summary

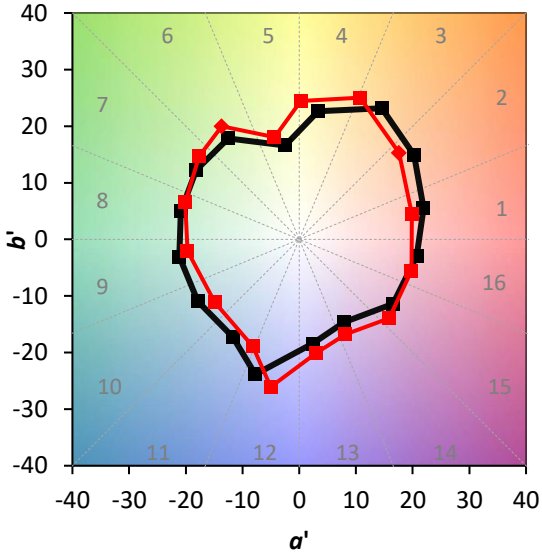
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

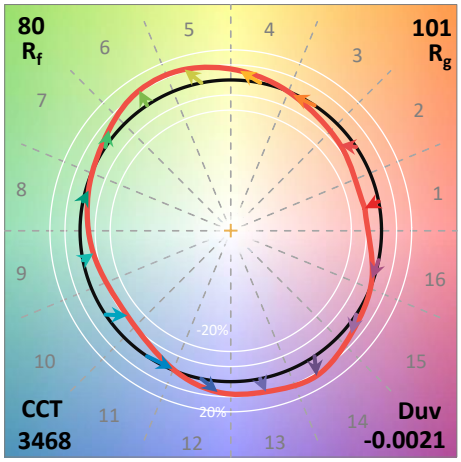
Spectral Power Distribution Comparison

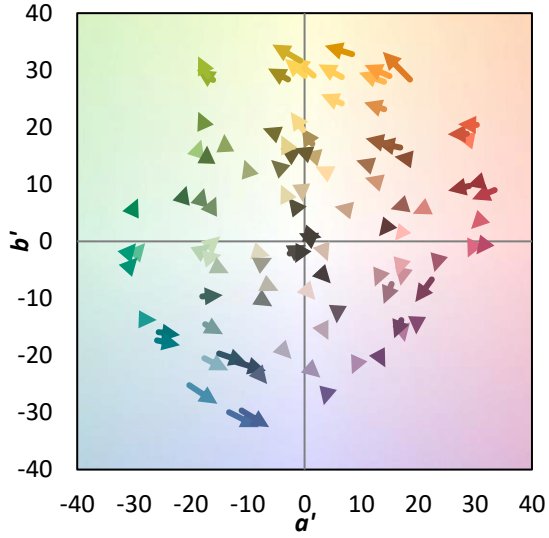


Color Vector Graphics







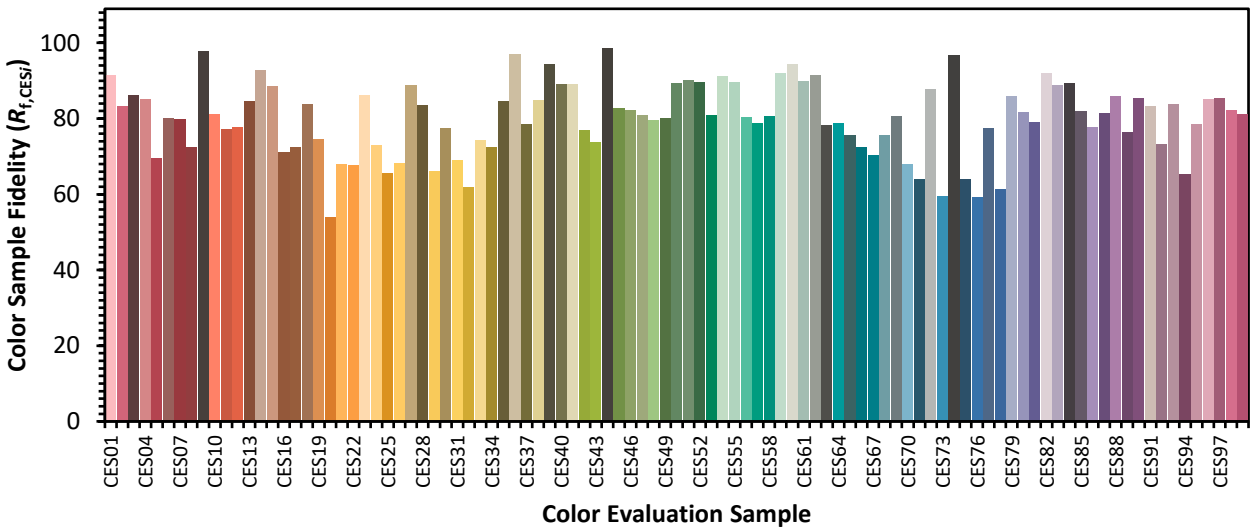


REPORT NUMBER: SP1-2506-472-3

TM-30-18

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

CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 72	CES59 = 92	CES84 = 89
CES10 = 75	CES35 = 85	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 97	CES61 = 90	CES86 = 78
CES12 = 64	CES37 = 79	CES62 = 92	CES87 = 82
CES13 = 43	CES38 = 85	CES63 = 78	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 76
CES15 = 71	CES40 = 89	CES65 = 76	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 73	CES91 = 83
CES17 = 49	CES42 = 77	CES67 = 70	CES92 = 73
CES18 = 56	CES43 = 74	CES68 = 76	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 66	CES45 = 83	CES70 = 68	CES95 = 79
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 85
CES22 = 78	CES47 = 81	CES72 = 88	CES97 = 85
CES23 = 92	CES48 = 80	CES73 = 60	CES98 = 82
CES24 = 91	CES49 = 80	CES74 = 97	CES99 = 81
CES25 = 72	CES50 = 89	CES75 = 64	



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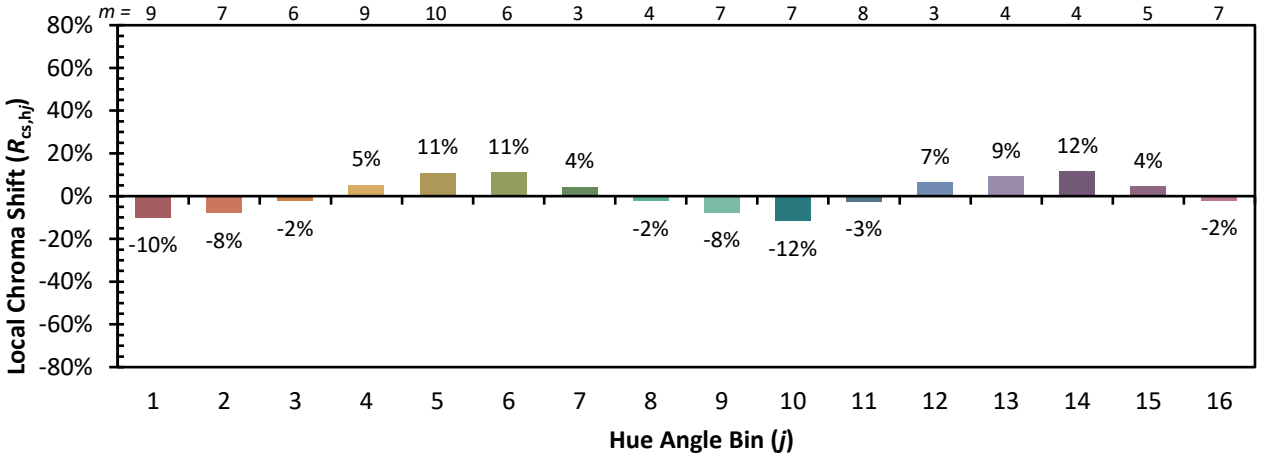
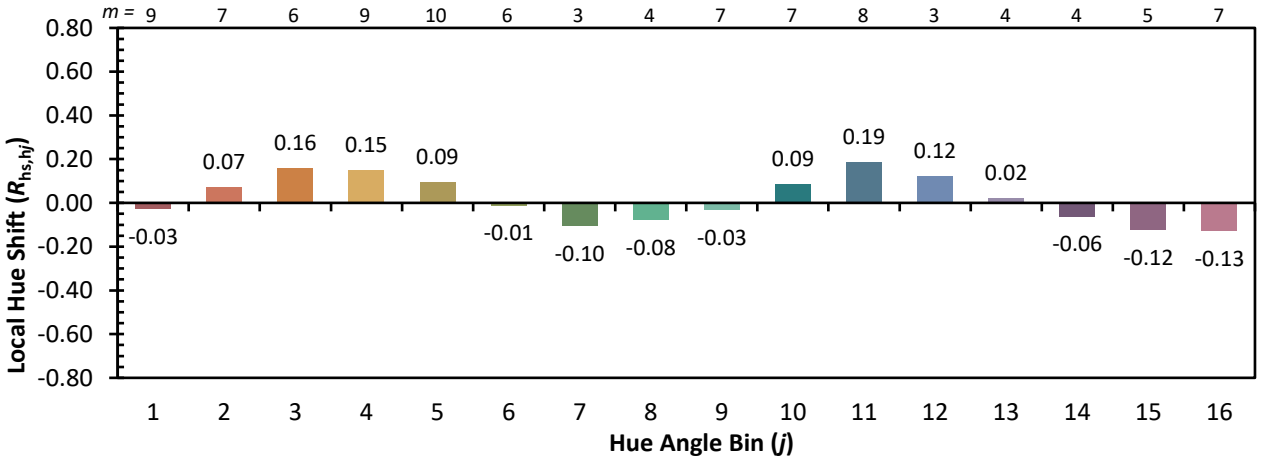
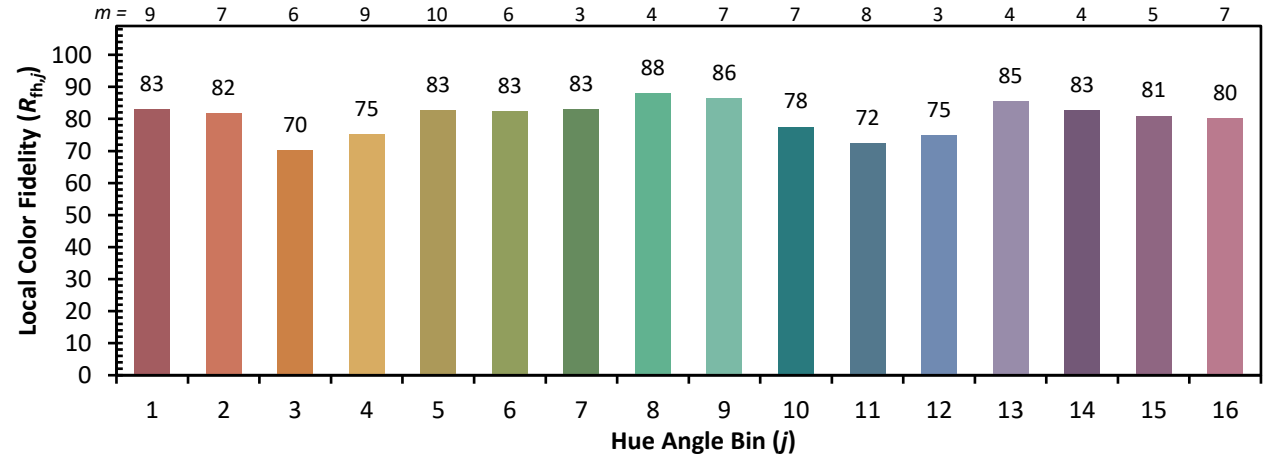
Color Rendition by Hue-Angle Bin







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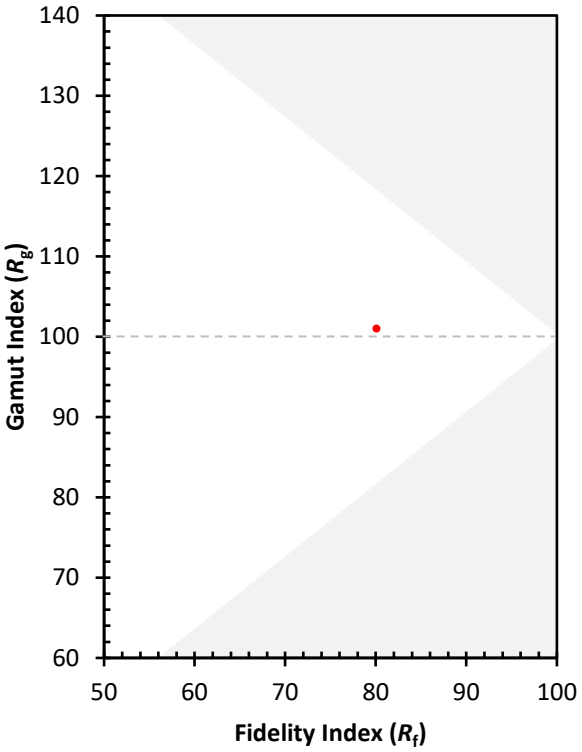
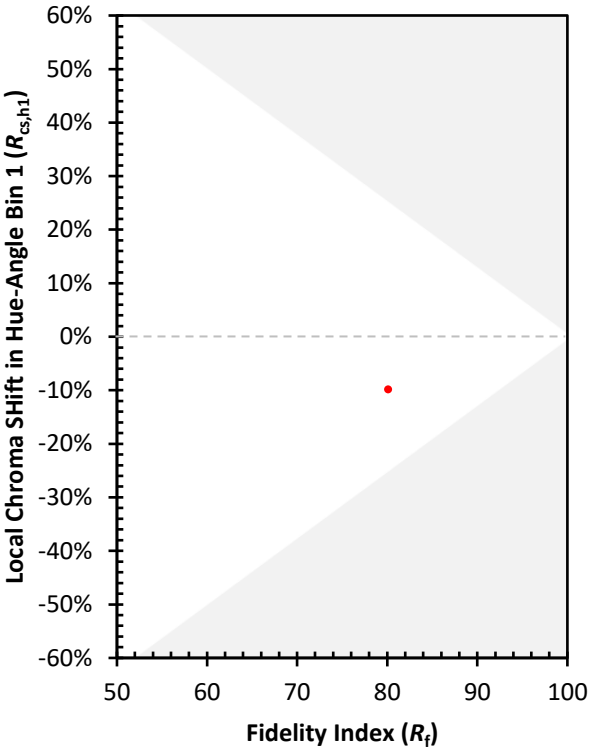
Measure Comparisons





(END OF REPORT)