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: P1432626

Luminaire Tested: EHBR1-24-UNV-TASM-L835

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:	P1432626
	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:	EHBR1-24-UNV-TASM-L835
Description:	Elevate Round Highbay at, 24000 lumens, 3500K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24024.5 lumens
Efficiency:	N/A
Efficacy:	187.3 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

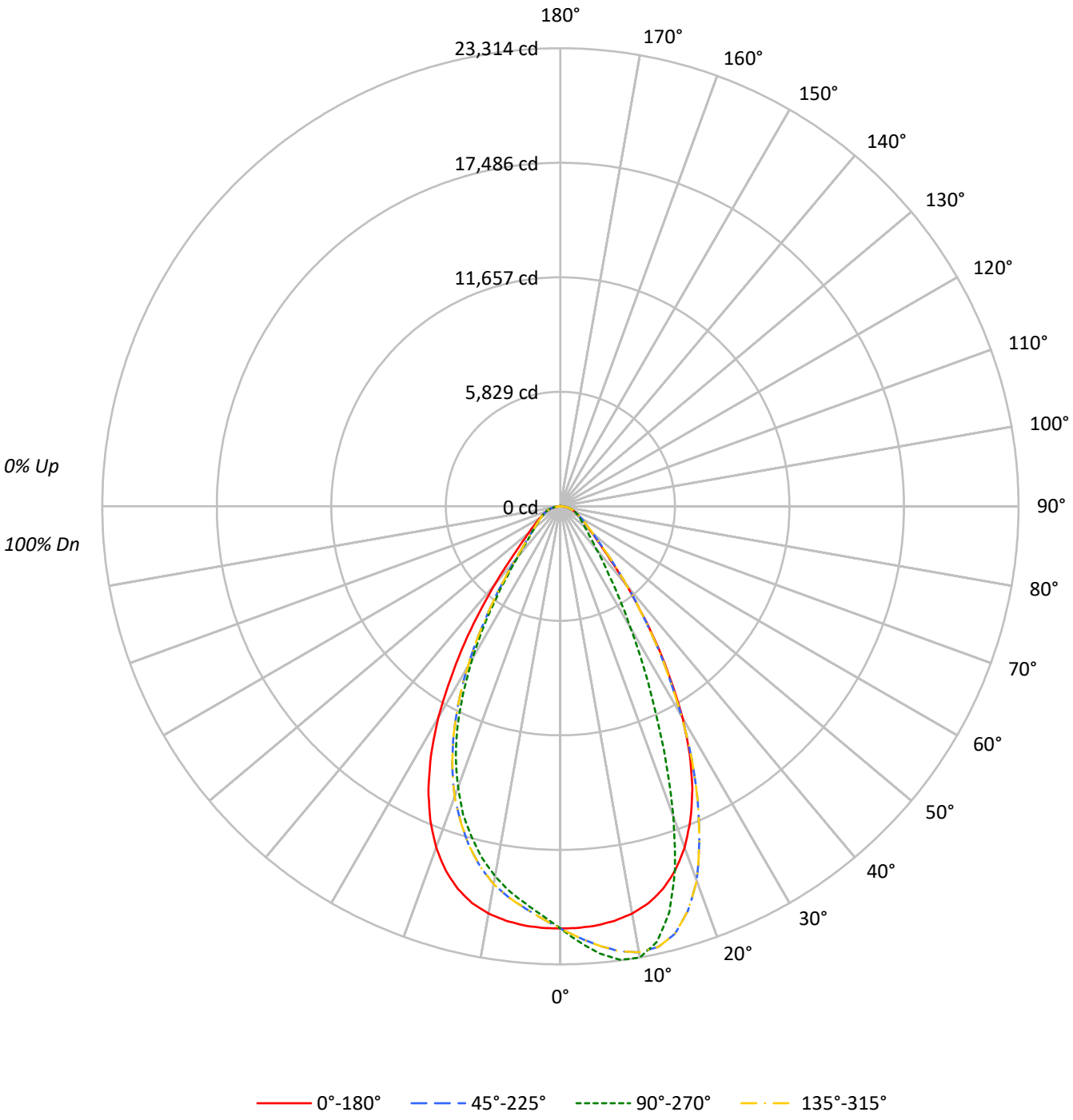
Input Watts (W):	128.3
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

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°	100900	100900	100900	100900
5°	100940	107684	100940	95702
10°	100355	111175	100355	91169
15°	98048	104013	98048	84784
20°	92343	83989	92343	76048
25°	82338	58625	82338	64205
30°	67390	38444	67390	48423
35°	48759	25116	48759	32519
40°	31834	17482	31834	20710
45°	20427	13694	20427	14922
50°	15371	11792	15371	12595
55°	12752	10915	12752	11298
60°	11269	10610	11269	10675
65°	10552	10512	10552	10467
70°	10390	10699	10390	10560
75°	10308	10979	10308	10653
80°	10079	11540	10079	10785
85°	8492	10722	8492	10227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 28718 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2043.0	8.5
10°-20°	5558.1	23.1
20°-30°	6518.5	27.1
30°-40°	4533.2	18.9
40°-50°	2252.8	9.4
50°-60°	1347.4	5.6
60°-70°	948.4	3.9
70°-80°	610.9	2.5
80°-90°	194.1	0.8
90°-100°	1.1	0.0
100°-110°	1.3	0.0
110°-120°	1.4	0.0
120°-130°	1.7	0.0
130°-140°	2.4	0.0
140°-150°	2.8	0.0
150°-160°	3.2	0.0
160°-170°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	14119.5	58.8
0°-40°	18652.7	77.6
0°-60°	22252.9	92.6
0°-90°	24006.2	99.9
90°-120°	3.8	0.0
90°-150°	10.7	0.0
90°-180°	18.0	0.1
0°-180°	24024.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	21486	21486	21486	21486	21486	
5°	21413	22843	21413	20302	21413	2032
15°	20167	21394	20167	17439	20167	5636
25°	15890	11314	15890	12391	15890	7194
35°	8505	4381	8505	5672	8505	5309
45°	3076	2062	3076	2247	3076	2517
55°	1558	1333	1558	1380	1558	1424
65°	950	946	950	942	950	954
75°	568	605	568	587	568	596
85°	158	199	158	190	158	175
90°	0	3	0	0	0	8
95°	1	3	1	0	1	1
105°	1	4	1	1	1	1
115°	1	4	1	1	1	1
125°	2	4	2	1	2	2
135°	3	4	3	2	3	2
145°	5	5	5	4	5	3
155°	6	7	6	8	6	3
165°	11	13	11	11	11	3
175°	14	17	14	14	14	1
180°	15	15	15	15	15	

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	21486.0	21486.0	21486.0	21486.0	*21486.0*	21486.0	21486.0	21486.0	21486.0	21486.0	21486.0
2.5°	21473.5	21751.1	21975.9	22124.1	*22197.4*	22124.1	21975.9	21751.1	21473.5	21197.5	21007.7
5°	21412.7	21968.6	22439.6	22747.8	*22843.3*	22747.8	22439.6	21968.6	21412.7	20887.3	20538.7
7.5°	21267.2	22133.4	22833.2	23193.0	*23280.8*	23193.0	22833.2	22133.4	21267.2	20523.4	20083.1
10°	*21045.2*	*22237.4*	*23045.9*	*23303.8*	*23314.3*	*23303.8*	*23045.9*	*22237.4*	*21045.2*	*20043.2*	*19523.9*
12.5°	20691.0	22200.2	22974.7	22890.0	*22697.8*	22890.0	22974.7	22200.2	20691.0	19456.6	18801.5
15°	20167.3	21980.7	22523.0	21834.5	*21394.1*	21834.5	22523.0	21980.7	20167.3	18664.5	17904.6
17.5°	19429.2	21569.7	21580.2	20218.1	*19387.3*	20218.1	21580.2	21569.7	19429.2	17695.9	16859.1
20°	18477.9	20910.6	20282.1	17790.6	*16806.3*	17790.6	20282.1	20910.6	18477.9	16550.9	15729.8
22.5°	17285.4	20021.8	18474.3	15348.7	*14005.8*	15348.7	18474.3	20021.8	17285.4	15219.3	14364.8
25°	15890.5	18932.8	16529.6	12688.0	*11314.1*	12688.0	16529.6	18932.8	15890.5	13632.8	12860.0
27.5°	14250.0	17552.5	14458.7	10368.0	*9100.5*	10368.0	14458.7	17552.5	14250.0	11994.5	11205.3
30°	12427.7	15783.0	12303.6	8256.9	*7089.7*	8256.9	12303.6	15783.0	12427.7	10154.1	9447.5
32.5°	10387.4	14048.5	10233.9	6615.9	*5627.2*	6615.9	10233.9	14048.5	10387.4	8397.9	7659.4
35°	8505.1	11878.6	8367.7	5198.5	*4381.1*	5198.5	8367.7	11878.6	8505.1	6740.1	6014.8
37.5°	6674.7	9828.2	6670.3	4186.0	*3553.5*	4186.0	6670.3	9828.2	6674.7	5240.0	4651.4
40°	5192.9	7684.8	5226.3	3341.6	*2851.7*	3341.6	5226.3	7684.8	5192.9	3987.1	3610.3
42.5°	3934.7	5876.2	4107.9	2742.5	*2422.2*	2742.5	4107.9	5876.2	3934.7	3141.4	2859.4
45°	3075.7	4324.2	3207.8	2313.8	*2062.0*	2313.8	3207.8	4324.2	3075.7	2529.8	2340.4
47.5°	2504.8	3342.0	2599.9	1984.7	*1808.2*	1984.7	2599.9	3342.0	2504.8	2139.8	1998.0
50°	2103.9	2564.4	2158.7	1732.5	*1614.0*	1732.5	2158.7	2564.4	2103.9	1832.4	1737.7
52.5°	1807.3	2091.5	1838.4	1543.9	*1464.2*	1543.9	1838.4	2091.5	1807.3	1603.1	1544.3
55°	1557.5	1758.3	1598.7	1388.3	*1333.2*	1388.3	1598.7	1758.3	1557.5	1426.6	1383.1
57.5°	1367.9	1491.5	1388.3	1255.8	*1219.1*	1255.8	1388.3	1491.5	1367.9	1269.5	1246.2
60°	1199.8	1291.7	1225.2	1140.2	*1129.7*	1140.2	1225.2	1291.7	1199.8	1142.2	1126.9
62.5°	1070.5	1128.5	1083.4	1036.2	*1027.0*	1036.2	1083.4	1128.5	1070.5	1026.1	1029.0
65°	949.6	1003.6	968.2	942.8	*946.0*	942.8	968.2	1003.6	949.6	929.1	933.5
67.5°	856.2	884.4	869.1	854.5	*858.2*	854.5	869.1	884.4	856.2	836.0	842.9
70°	756.7	786.8	771.1	773.1	*779.2*	773.1	771.1	786.8	756.7	750.6	755.8
72.5°	661.5	684.9	679.7	684.5	*690.9*	684.5	679.7	684.9	661.5	660.8	661.1
75°	568.1	585.8	588.2	595.1	*605.1*	595.1	588.2	585.8	568.1	562.0	569.3
77.5°	466.1	486.3	494.0	503.2	*518.1*	503.2	494.0	486.3	466.1	470.2	473.8
80°	372.7	382.0	398.8	405.7	*426.7*	405.7	398.8	382.0	372.7	365.9	371.1
82.5°	272.8	281.2	295.8	308.7	*320.7*	308.7	295.8	281.2	272.8	269.6	270.0
85°	157.6	170.4	180.1	195.4	*199.0*	195.4	180.1	170.4	157.6	161.2	157.6
87.5°	55.2	59.2	67.7	73.7	*74.1*	73.7	67.7	59.2	55.2	56.4	51.2
90°	0.4	0.8	1.2	2.4	*3.2*	2.4	1.2	0.8	0.4	0.4	0.4
92.5°	0.4	0.8	1.2	2.4	*3.2*	2.4	1.2	0.8	0.4	0.4	0.4
95°	0.8	0.8	1.2	2.4	*3.2*	2.4	1.2	0.8	0.8	0.4	0.4
97.5°	0.8	0.8	1.2	2.4	*3.2*	2.4	1.2	0.8	0.8	0.4	0.4
100°	0.8	0.8	1.2	2.4	*3.2*	2.4	1.2	0.8	0.8	0.8	0.4
102.5°	0.8	1.2	1.6	2.8	*3.2*	2.8	1.6	1.2	0.8	0.8	0.4
105°	0.8	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	0.8	0.8	0.4
107.5°	0.8	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	0.8	0.8	0.8
110°	0.8	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	0.8	0.8	0.8

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.8	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	0.8	0.8	0.8
115°	1.2	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	1.2	0.8	0.8
117.5°	1.2	1.2	1.6	2.8	*3.6*	2.8	1.6	1.2	1.2	1.2	0.8
120°	1.2	1.2	2.0	2.8	*3.6*	2.8	2.0	1.2	1.2	1.2	0.8
122.5°	1.6	1.6	2.0	3.2	*3.6*	3.2	2.0	1.6	1.6	1.6	1.2
125°	1.6	1.6	2.4	3.2	*4.1*	3.2	2.4	1.6	1.6	2.0	1.6
127.5°	2.0	2.0	2.4	3.2	*4.1*	3.2	2.4	2.0	2.0	2.0	1.6
130°	2.4	2.0	2.4	3.6	*4.1*	3.6	2.4	2.0	2.4	2.4	2.0
132.5°	2.8	2.4	2.8	4.1	*4.5*	4.1	2.8	2.4	2.8	3.2	2.8
135°	3.2	2.4	3.2	3.6	*4.5*	3.6	3.2	2.4	3.2	3.6	2.8
137.5°	3.6	2.8	3.2	4.1	*4.5*	4.1	3.2	2.8	3.6	4.1	3.6
140°	4.1	3.2	3.2	4.1	*4.8*	4.1	3.2	3.2	4.1	4.1	4.1
142.5°	4.5	3.6	3.6	4.5	*4.8*	4.5	3.6	3.6	4.5	4.5	4.5
145°	4.8	4.5	4.1	4.5	*5.2*	4.5	4.1	4.5	4.8	4.5	4.8
147.5°	4.8	4.5	4.5	4.8	*5.6*	4.8	4.5	4.5	4.8	4.8	5.2
150°	5.2	5.2	4.8	5.2	*6.0*	5.2	4.8	5.2	5.2	5.2	5.6
152.5°	5.6	5.6	5.6	6.0	*6.4*	6.0	5.6	5.6	5.6	5.6	6.0
155°	6.4	6.4	6.4	6.9	*7.3*	6.9	6.4	6.4	6.4	6.0	6.9
157.5°	7.3	7.7	7.7	8.0	*8.4*	8.0	7.7	7.7	7.3	7.3	7.7
160°	8.8	8.8	9.3	9.7	*10.1*	9.7	9.3	8.8	8.8	8.4	8.8
162.5°	9.7	9.7	10.5	10.9	*11.6*	10.9	10.5	9.7	9.7	9.7	9.7
165°	10.9	10.9	11.6	12.5	*13.3*	12.5	11.6	10.9	10.9	10.5	10.5
167.5°	11.6	11.6	12.5	13.7	*14.5*	13.7	12.5	11.6	11.6	11.2	11.2
170°	12.1	12.5	13.3	14.5	*15.3*	14.5	13.3	12.5	12.1	12.1	11.6
172.5°	13.3	13.3	14.5	15.7	*16.5*	15.7	14.5	13.3	13.3	12.9	12.9
175°	14.1	14.5	15.3	16.5	*17.4*	16.5	15.3	14.5	14.1	13.7	13.7
177.5°	14.1	14.9	15.7	17.0	*17.7*	17.0	15.7	14.9	14.1	13.7	13.7
180°	14.9	14.9	14.9	14.9	*14.9*	14.9	14.9	14.9	14.9	14.9	14.9

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	21486.0	21486.0	21486.0	21486.0	21486.0	21486.0
2.5°	20861.9	20848.2	20861.9	21007.7	21197.5	21473.5
5°	20377.2	20301.5	20377.2	20538.7	20887.3	21412.7
7.5°	19812.7	19768.8	19812.7	20083.1	20523.4	21267.2
10°	*19218.5*	*19118.9*	*19218.5*	*19523.9*	*20043.2*	*21045.2*
12.5°	18486.0	18354.3	18486.0	18801.5	19456.6	20691.0
15°	17554.5	17438.9	17554.5	17904.6	18664.5	20167.3
17.5°	16554.9	16450.2	16554.9	16859.1	17695.9	19429.2
20°	15299.5	15217.3	15299.5	15729.8	16550.9	18477.9
22.5°	13982.4	13905.4	13982.4	14364.8	15219.3	17285.4
25°	12432.9	12391.1	12432.9	12860.0	13632.8	15890.5
27.5°	10758.4	10687.2	10758.4	11205.3	11994.5	14250.0
30°	9047.8	8929.8	9047.8	9447.5	10154.1	12427.7
32.5°	7374.5	7289.6	7374.5	7659.4	8397.9	10387.4
35°	5757.4	5672.3	5757.4	6014.8	6740.1	8505.1
37.5°	4486.3	4336.0	4486.3	4651.4	5240.0	6674.7
40°	3402.4	3378.3	3402.4	3610.3	3987.1	5192.9
42.5°	2769.9	2704.2	2769.9	2859.4	3141.4	3934.7
45°	2272.7	2246.9	2272.7	2340.4	2529.8	3075.7
47.5°	1954.5	1965.7	1954.5	1998.0	2139.8	2504.8
50°	1717.2	1724.0	1717.2	1737.7	1832.4	2103.9
52.5°	1542.3	1536.2	1542.3	1544.3	1603.1	1807.3
55°	1387.6	1379.9	1387.6	1383.1	1426.6	1557.5
57.5°	1252.2	1257.8	1252.2	1246.2	1269.5	1367.9
60°	1131.4	1136.6	1131.4	1126.9	1142.2	1199.8
62.5°	1029.3	1032.6	1029.3	1029.0	1026.1	1070.5
65°	938.4	942.0	938.4	933.5	929.1	949.6
67.5°	851.3	851.3	851.3	842.9	836.0	856.2
70°	769.6	769.1	769.6	755.8	750.6	756.7
72.5°	671.2	680.9	671.2	661.1	660.8	661.5
75°	575.7	587.1	575.7	569.3	562.0	568.1
77.5°	479.0	496.4	479.0	473.8	470.2	466.1
80°	379.9	398.8	379.9	371.1	365.9	372.7
82.5°	280.8	294.9	280.8	270.0	269.6	272.8
85°	167.2	189.8	167.2	157.6	161.2	157.6
87.5°	53.6	68.5	53.6	51.2	56.4	55.2
90°	0.4	0.4	0.4	0.4	0.4	0.4
92.5°	0.4	0.4	0.4	0.4	0.4	0.4
95°	0.4	0.4	0.4	0.4	0.4	0.8
97.5°	0.4	0.8	0.4	0.4	0.4	0.8
100°	0.4	0.8	0.4	0.4	0.8	0.8
102.5°	0.4	0.8	0.4	0.4	0.8	0.8
105°	0.4	0.8	0.4	0.4	0.8	0.8
107.5°	0.4	0.8	0.4	0.8	0.8	0.8
110°	0.4	0.8	0.4	0.8	0.8	0.8

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.4	0.8	0.4	0.8	0.8	0.8
115°	0.4	0.8	0.4	0.8	0.8	1.2
117.5°	0.4	0.8	0.4	0.8	1.2	1.2
120°	0.4	0.8	0.4	0.8	1.2	1.2
122.5°	0.8	0.8	0.8	1.2	1.6	1.6
125°	0.8	1.2	0.8	1.6	2.0	1.6
127.5°	0.8	1.2	0.8	1.6	2.0	2.0
130°	1.2	1.2	1.2	2.0	2.4	2.4
132.5°	1.6	1.6	1.6	2.8	3.2	2.8
135°	2.0	1.6	2.0	2.8	3.6	3.2
137.5°	2.4	2.0	2.4	3.6	4.1	3.6
140°	3.2	2.8	3.2	4.1	4.1	4.1
142.5°	3.6	3.6	3.6	4.5	4.5	4.5
145°	4.5	4.5	4.5	4.8	4.5	4.8
147.5°	5.2	5.2	5.2	5.2	4.8	4.8
150°	6.0	6.0	6.0	5.6	5.2	5.2
152.5°	6.4	6.9	6.4	6.0	5.6	5.6
155°	7.3	7.7	7.3	6.9	6.0	6.4
157.5°	8.0	8.8	8.0	7.7	7.3	7.3
160°	9.3	9.7	9.3	8.8	8.4	8.8
162.5°	10.1	10.5	10.1	9.7	9.7	9.7
165°	10.9	11.2	10.9	10.5	10.5	10.9
167.5°	11.2	11.2	11.2	11.2	11.2	11.6
170°	11.6	12.1	11.6	11.6	12.1	12.1
172.5°	12.5	12.9	12.5	12.9	12.9	13.3
175°	13.3	13.7	13.3	13.7	13.7	14.1
177.5°	13.7	14.1	13.7	13.7	13.7	14.1
180°	14.9	14.9	14.9	14.9	14.9	14.9

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

Scaled Data Report

TEST NUMBER: P1432626
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835

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	17.68	18.89	18.05	19.20	19.52	17.00	18.21	17.37	18.52	18.84
	3H	19.32	20.39	19.70	20.73	21.09	18.95	20.02	19.33	20.36	20.72
	4H	20.03	21.03	20.43	21.38	21.77	19.81	20.81	20.22	21.16	21.55
	6H	20.60	21.52	21.02	21.89	22.29	20.56	21.48	20.98	21.85	22.25
	8H	20.80	21.67	21.24	22.06	22.47	20.85	21.72	21.28	22.11	22.52
	12H	20.92	21.76	21.36	22.14	22.57	21.04	21.88	21.48	22.26	22.69
4H	2H	18.14	19.14	18.55	19.50	19.89	17.63	18.63	18.04	18.98	19.37
	3H	20.05	20.88	20.47	21.29	21.69	19.81	20.63	20.22	21.04	21.44
	4H	20.91	21.65	21.35	22.07	22.52	20.80	21.54	21.24	21.97	22.41
	6H	21.63	22.27	22.10	22.72	23.19	21.70	22.34	22.17	22.79	23.26
	8H	21.89	22.49	22.37	22.94	23.41	22.04	22.64	22.52	23.09	23.56
	12H	22.06	22.59	22.55	23.07	23.55	22.29	22.82	22.78	23.30	23.78
8H	4H	21.22	21.82	21.69	22.27	22.74	21.14	21.74	21.62	22.19	22.66
	6H	22.10	22.58	22.60	23.08	23.56	22.20	22.68	22.70	23.18	23.67
	8H	22.45	22.88	22.97	23.40	23.89	22.65	23.08	23.17	23.60	24.09
	12H	22.71	23.09	23.23	23.58	24.16	23.00	23.38	23.52	23.88	24.45
12H	4H	21.25	21.77	21.74	22.26	22.74	21.18	21.70	21.66	22.18	22.66
	6H	22.17	22.60	22.69	23.12	23.61	22.27	22.70	22.80	23.22	23.72
	8H	22.58	22.96	23.10	23.46	24.03	22.79	23.16	23.31	23.66	24.24

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

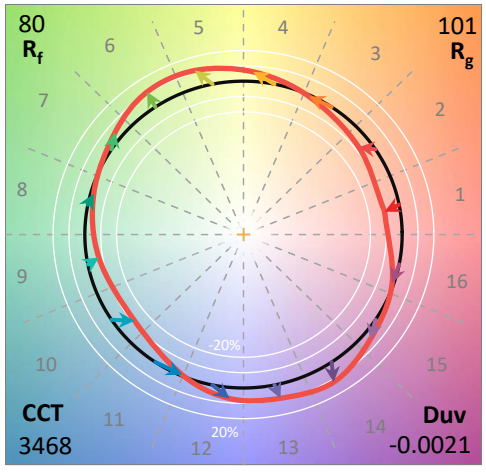
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

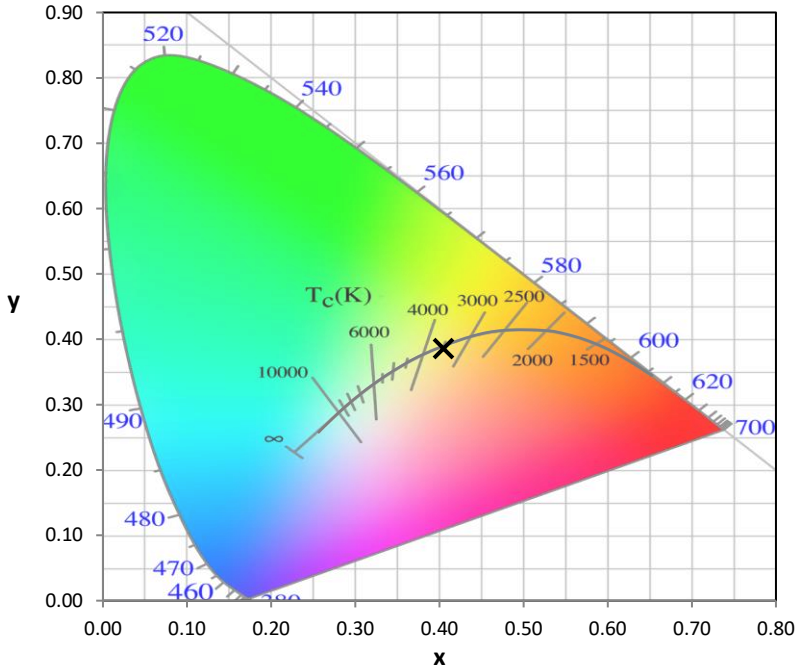
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

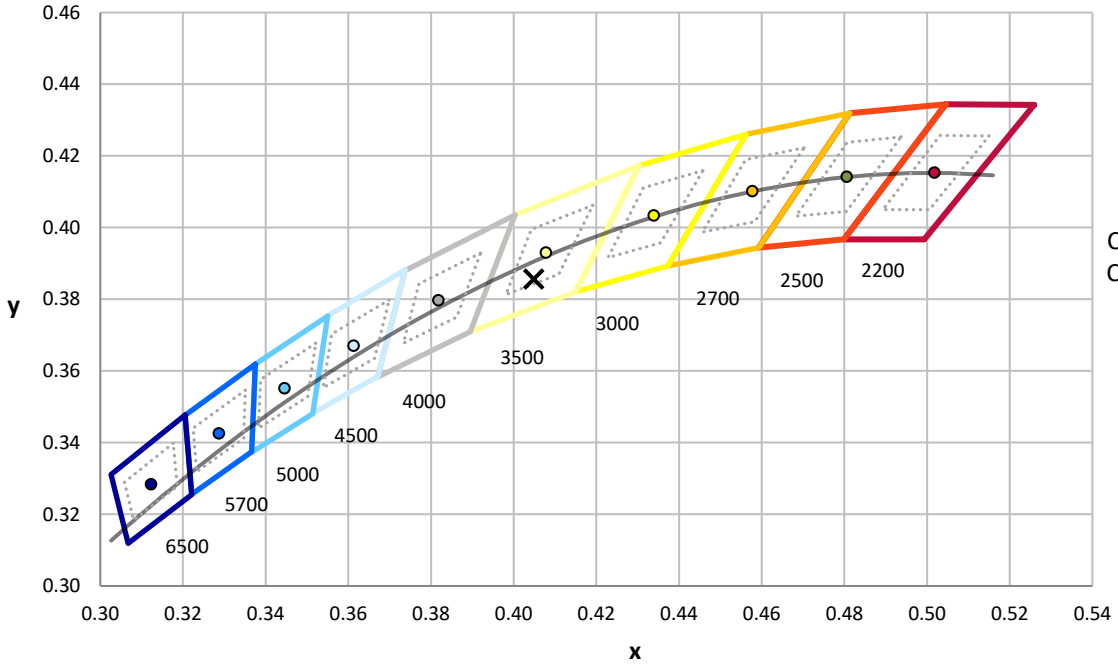
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

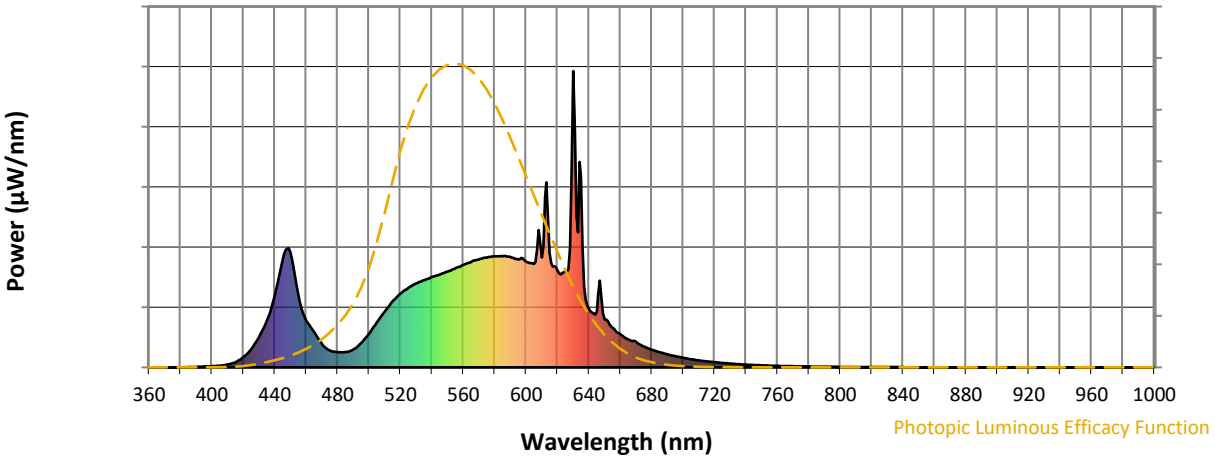


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

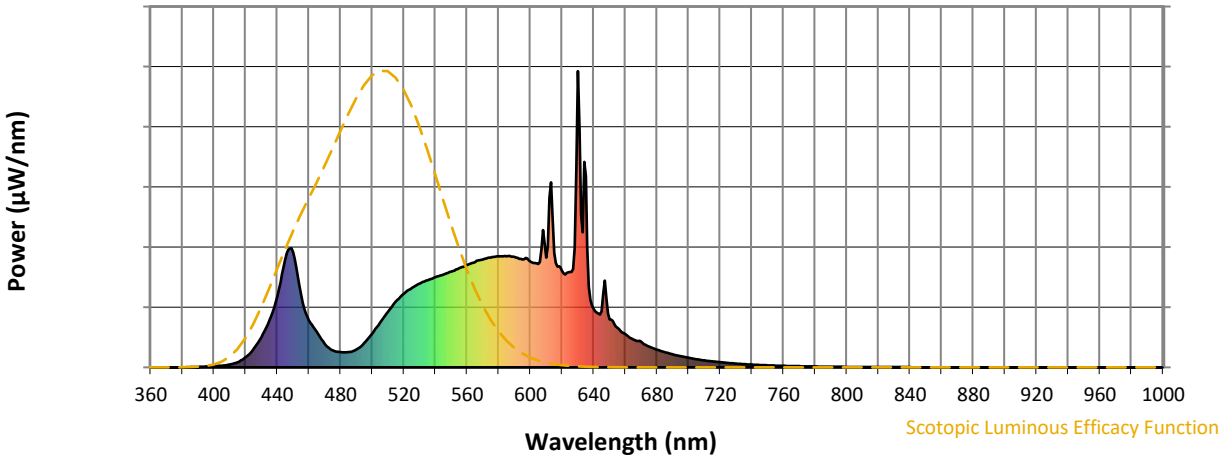


Photopic Lumens: NR

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

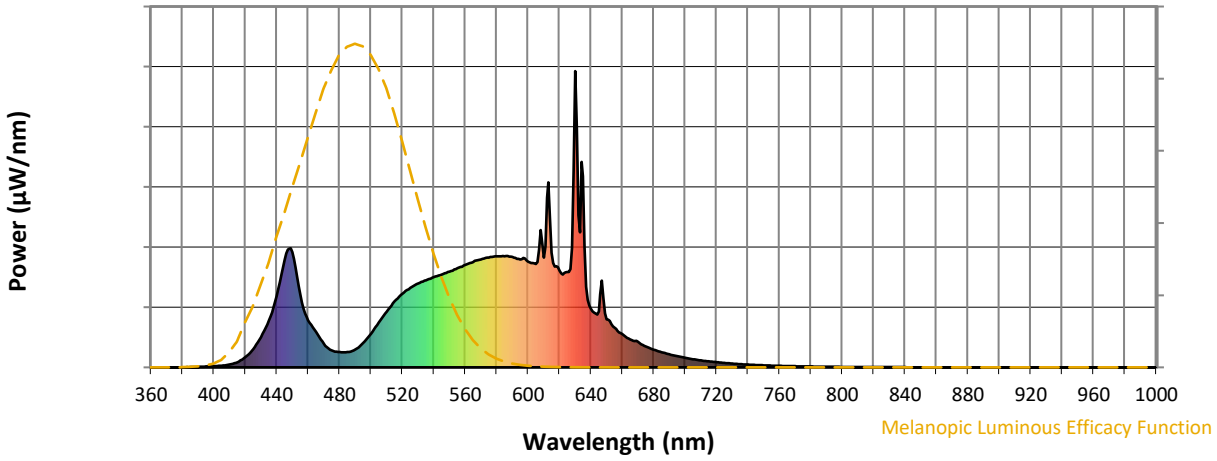


Scotopic Lumens: NR **S/P: 1.43**

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			

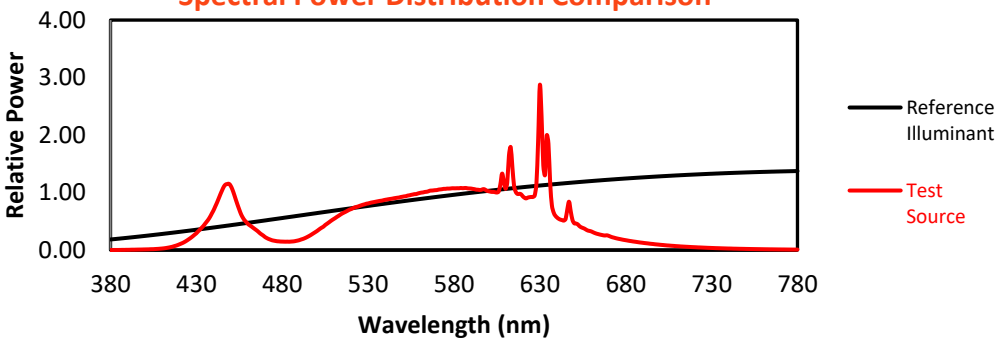
REPORT NUMBER: SP1-2506-472-3

TM-30-18

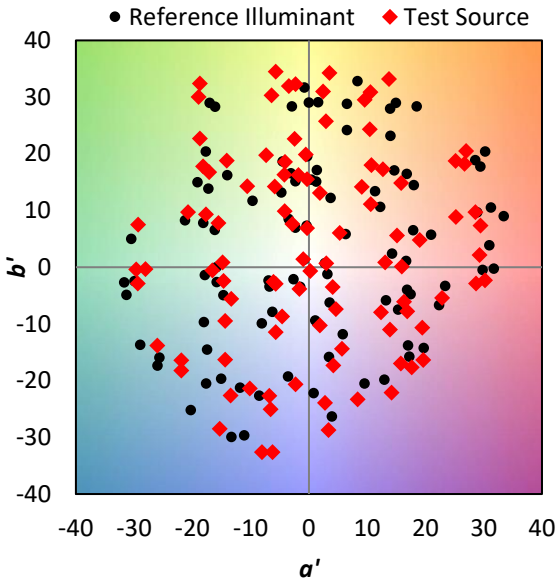
Summary

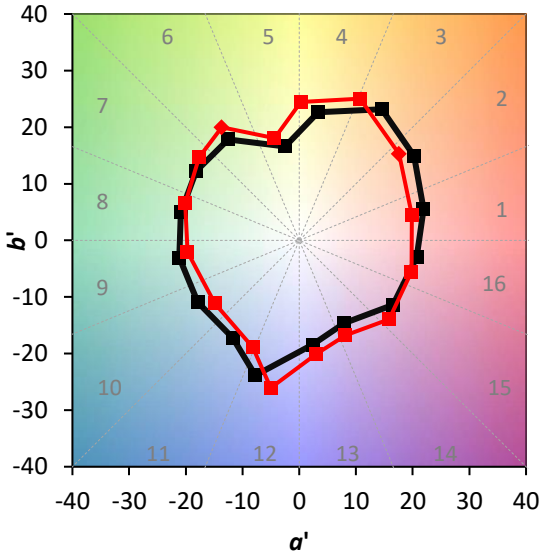
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

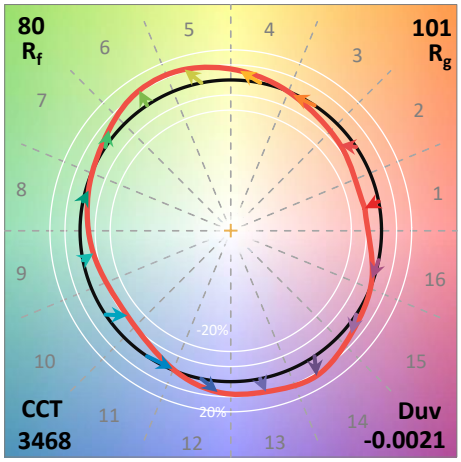
Spectral Power Distribution Comparison

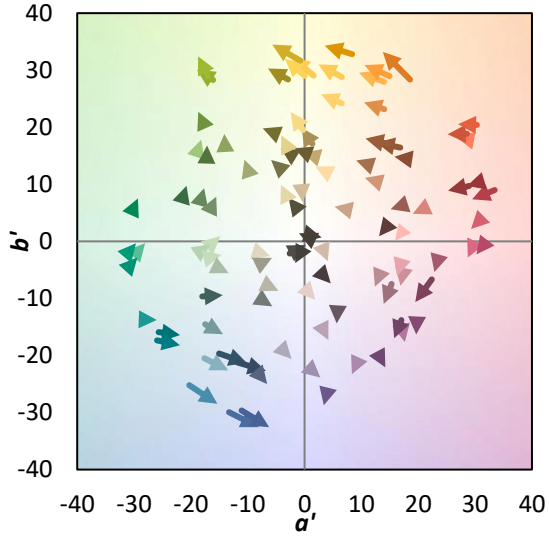


Color Vector Graphics







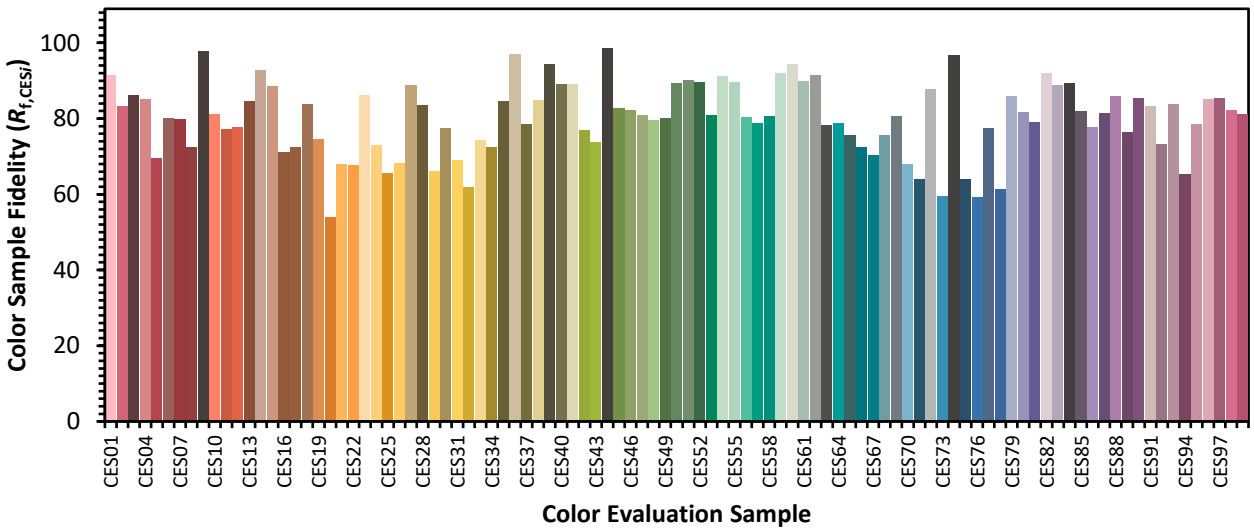


REPORT NUMBER: SP1-2506-472-3

TM-30-18

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

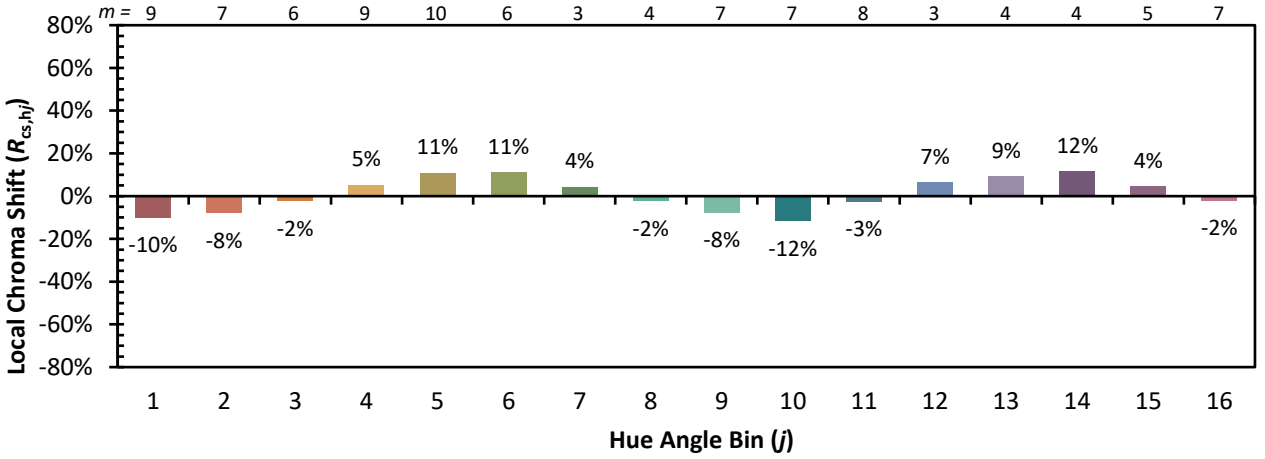
CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 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	

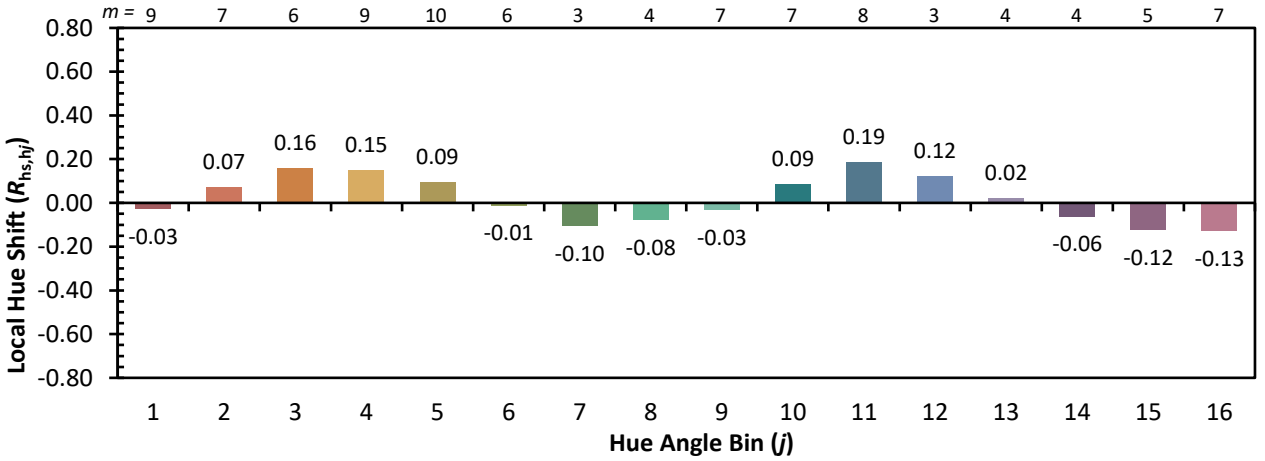


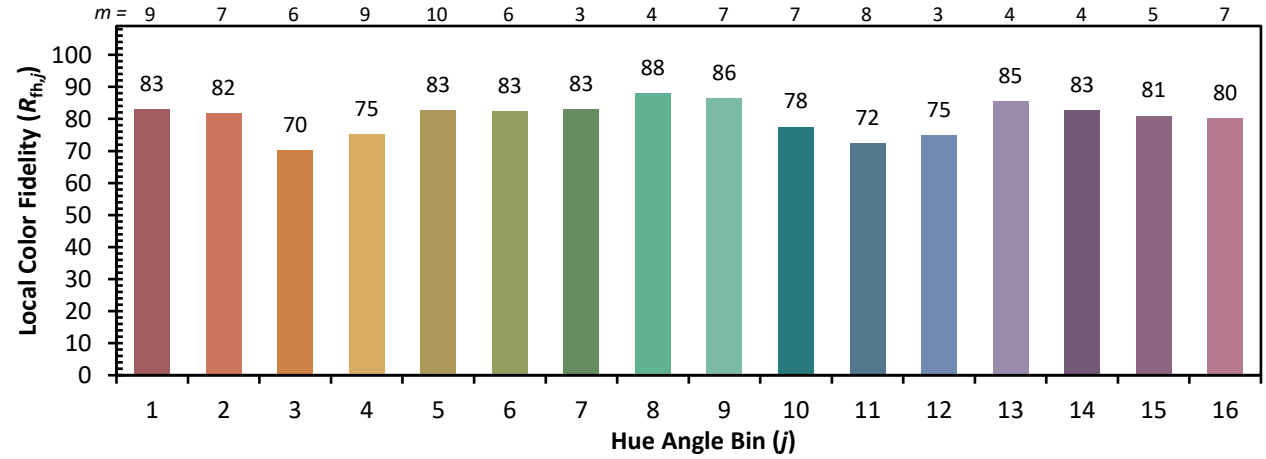
REPORT NUMBER: SP1-2506-472-3

TM-30-18

Color Rendition by Hue-Angle Bin



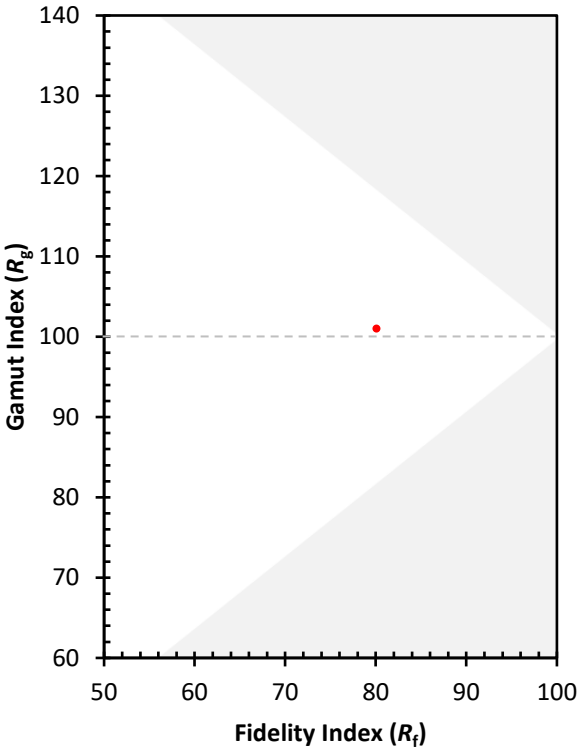


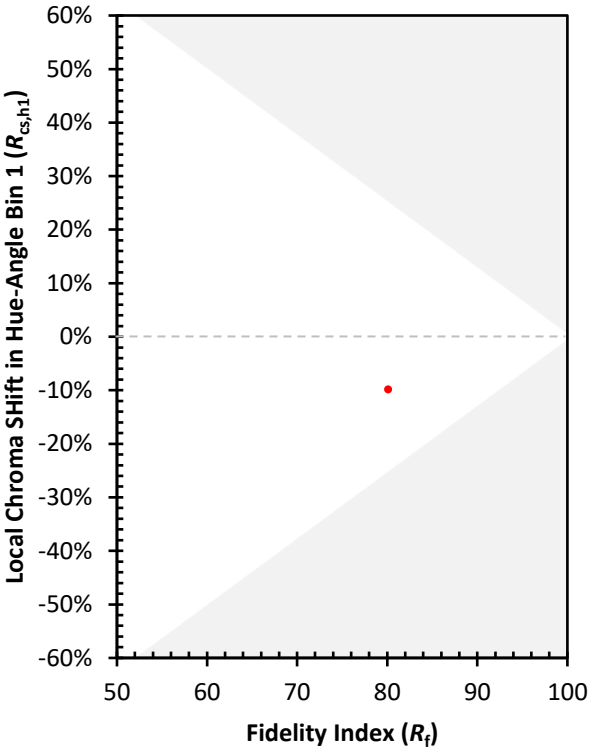


REPORT NUMBER: SP1-2506-472-3

TM-30-18

Measure Comparisons





(END OF REPORT)