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: P1432620

Luminaire Tested: EHBR1-24-UNV-TASM-L835-UPL15

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:	P1432620
	REPORT IS A COMBINATION OF REPORTS P1431709 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-TASM-L835-UPL15
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:	25467.4 lumens
Efficiency:	N/A
Efficacy:	185.1 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):	137.6
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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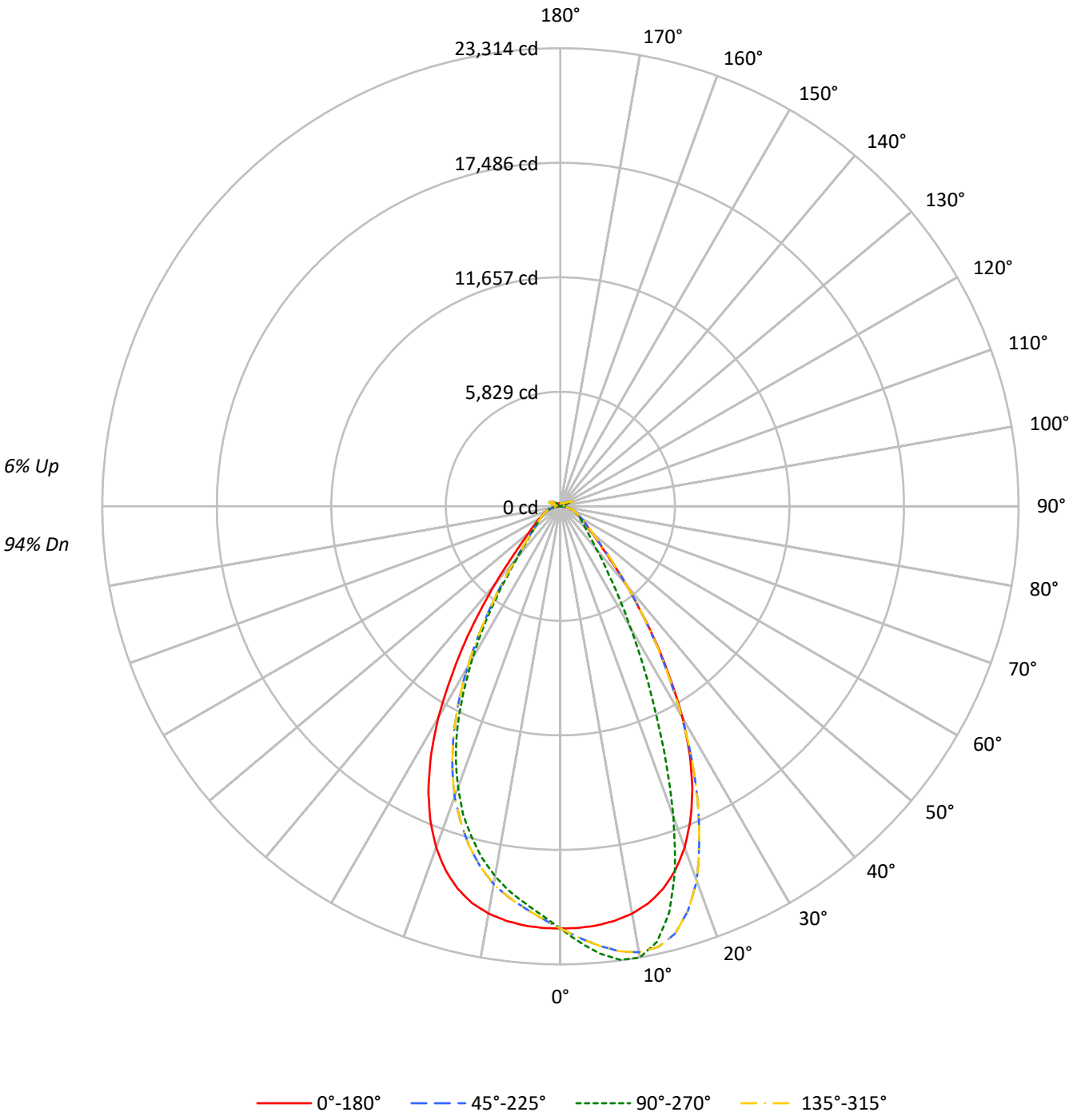
Luminous Intensity Polar Plot



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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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	110	107	104	101	107	104	101	99	99	97	95	94	93	91	90	89	87	85
2	104	98	93	88	101	95	91	87	91	87	84	87	84	81	83	81	79	77
3	97	89	83	79	94	87	82	78	84	79	76	81	77	74	78	74	72	70
4	91	82	76	71	89	81	75	70	78	72	68	75	71	67	72	69	66	64
5	86	76	69	64	84	75	68	64	72	67	62	70	65	61	68	64	60	58
6	81	71	64	59	79	69	63	58	67	62	57	65	60	57	63	59	56	54
7	76	66	59	54	75	65	58	54	63	57	53	61	56	52	59	55	52	50
8	72	61	55	50	71	61	54	50	59	53	49	57	52	49	56	51	48	46
9	68	58	51	47	67	57	51	46	55	50	46	54	49	45	53	48	45	43
10	65	54	48	43	64	54	47	43	52	47	43	51	46	42	50	45	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	100900	100900	100900	100900
5°	100286	106986	100286	95082
10°	99053	109733	99053	89987
15°	96129	101976	96129	83124
20°	89904	81771	89904	74040
25°	79572	56656	79572	62049
30°	64610	36858	64610	46425
35°	46340	23871	46340	30906
40°	29960	16453	29960	19491
45°	19010	12744	19010	13887
50°	14117	10830	14117	11568
55°	11525	9865	11525	10211
60°	9980	9397	9980	9455
65°	9098	9063	9098	9025
70°	8624	8880	8624	8765
75°	8065	8590	8065	8334
80°	7085	8111	7085	7581
85°	4585	5790	4585	5522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 26726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2043.0	8.0
10°-20°	5558.1	21.8
20°-30°	6518.5	25.6
30°-40°	4533.2	17.8
40°-50°	2252.8	8.8
50°-60°	1347.4	5.3
60°-70°	948.4	3.7
70°-80°	610.9	2.4
80°-90°	196.6	0.8
90°-100°	39.1	0.2
100°-110°	252.8	1.0
110°-120°	466.7	1.8
120°-130°	277.8	1.1
130°-140°	168.5	0.7
140°-150°	117.1	0.5
150°-160°	77.0	0.3
160°-170°	44.7	0.2
170°-180°	15.0	0.1
0°-30°	14119.5	55.4
0°-40°	18652.7	73.2
0°-60°	22252.9	87.4
0°-90°	24008.8	94.3
90°-120°	758.6	3.0
90°-150°	1322.0	5.2
90°-180°	1459.0	5.7
0°-180°	25467.4	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°	11	14	11	11	11	12
95°	21	21	21	18	21	22
105°	116	60	116	88	116	157
115°	496	425	496	403	496	453
125°	318	334	318	291	318	293
135°	202	234	202	213	202	160
145°	184	192	184	178	184	115
155°	164	172	164	160	164	77
165°	157	162	157	154	157	45
175°	158	162	158	155	158	15
180°	158	158	158	158	158	

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TEST NUMBER: P1432620
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835-UPL15

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°	10.8	18.4	31.6	18.4	*13.6*	18.4	31.6	18.4	10.8	18.8	29.3
92.5°	14.1	24.8	44.4	24.0	*17.6*	24.0	44.4	24.8	14.1	24.4	46.8
95°	20.8	30.4	56.4	26.5	*20.8*	26.5	56.4	30.4	20.8	32.5	65.4
97.5°	32.0	37.6	63.7	28.1	*24.8*	28.1	63.7	37.6	32.0	39.7	75.0
100°	42.5	42.5	115.8	32.1	*28.0*	32.1	115.8	42.5	42.5	48.9	116.7
102.5°	64.1	82.9	267.7	62.9	*33.6*	62.9	267.7	82.9	64.1	91.3	247.3
105°	116.2	188.7	470.6	159.9	*60.5*	159.9	470.6	188.7	116.2	190.7	440.4
107.5°	219.6	351.4	606.1	313.8	*138.3*	313.8	606.1	351.4	219.6	337.5	581.1
110°	351.0	491.0	661.3	429.3	*277.7*	429.3	661.3	491.0	351.0	463.2	609.2

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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°	456.8	547.0	646.1	475.7	*383.5*	475.7	646.1	547.0	456.8	511.3	583.5
115°	496.5	539.1	577.2	474.1	*425.2*	474.1	577.2	539.1	496.5	499.3	521.0
117.5°	479.7	493.3	498.6	445.3	*427.6*	445.3	498.6	493.3	479.7	449.3	442.5
120°	433.2	427.6	420.5	402.8	*403.6*	402.8	420.5	427.6	433.2	392.3	369.5
122.5°	375.2	363.2	355.5	359.9	*370.7*	359.9	355.5	363.2	375.2	334.3	317.0
125°	318.3	306.2	310.2	323.0	*334.4*	323.0	310.2	306.2	318.3	284.2	279.8
127.5°	270.5	264.9	277.3	291.8	*301.5*	291.8	277.3	264.9	270.5	248.9	253.4
130°	236.5	237.7	254.2	266.5	*272.6*	266.5	254.2	237.7	236.5	226.0	236.9
132.5°	215.2	221.3	236.9	247.8	*251.3*	247.8	236.9	221.3	215.2	212.4	225.7
135°	202.0	210.8	225.3	232.1	*233.7*	232.1	225.3	210.8	202.0	203.2	215.2
137.5°	194.3	203.3	214.0	219.7	*218.5*	219.7	214.0	203.3	194.3	197.2	206.4
140°	190.1	198.8	203.6	210.0	*209.3*	210.0	203.6	198.8	190.1	191.6	198.9
142.5°	185.6	193.6	196.0	200.8	*199.7*	200.8	196.0	193.6	185.6	187.3	192.0
145°	183.6	189.6	187.6	193.7	*192.0*	193.7	187.6	189.6	183.6	184.1	186.8
147.5°	179.6	184.1	181.6	186.8	*185.2*	186.8	181.6	184.1	179.6	179.6	180.8
150°	175.1	178.3	174.7	180.8	*180.8*	180.8	174.7	178.3	175.1	174.4	175.5
152.5°	169.1	172.3	169.1	175.9	*175.5*	175.9	169.1	172.3	169.1	168.3	169.5
155°	164.3	165.9	164.3	171.3	*171.6*	171.3	164.3	165.9	164.3	163.9	164.8
157.5°	161.2	162.3	161.6	167.6	*168.0*	167.6	161.6	162.3	161.2	161.2	161.6
160°	158.7	160.3	160.0	165.2	*165.6*	165.2	160.0	160.3	158.7	159.1	159.5
162.5°	158.0	158.0	158.0	163.2	*164.0*	163.2	158.0	158.0	158.0	158.0	158.7
165°	156.7	157.6	156.7	160.8	*162.3*	160.8	156.7	157.6	156.7	157.2	157.2
167.5°	156.7	155.9	156.8	160.4	*162.0*	160.4	156.8	155.9	156.7	157.1	157.1
170°	155.6	156.0	155.9	159.6	*161.2*	159.6	155.9	156.0	155.6	156.4	156.7
172.5°	156.8	156.8	156.4	159.2	*161.6*	159.2	156.4	156.8	156.8	157.2	158.0
175°	157.6	157.2	157.2	159.1	*161.7*	159.1	157.2	157.2	157.6	157.2	157.2
177.5°	156.7	157.6	158.4	160.5	*163.6*	160.5	158.4	157.6	156.7	157.2	157.2
180°	157.6	157.6	157.6	157.6	*157.6*	157.6	157.6	157.6	157.6	157.6	157.6

TEST NUMBER: P1432620
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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°	17.3	10.8	17.3	29.3	18.8	10.8
92.5°	26.1	15.6	26.1	46.8	24.4	14.1
95°	30.1	18.0	30.1	65.4	32.5	20.8
97.5°	33.3	23.2	33.3	75.0	39.7	32.0
100°	38.9	30.4	38.9	116.7	48.9	42.5
102.5°	82.1	51.3	82.1	247.3	91.3	64.1
105°	172.7	88.1	172.7	440.4	190.7	116.2
107.5°	308.9	152.2	308.9	581.1	337.5	219.6
110°	410.0	283.7	410.0	609.2	463.2	351.0

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

Scaled Data Report

TEST NUMBER: P1432620
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835-UPL15

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	440.4	383.1	440.4	583.5	511.3	456.8
115°	423.6	403.2	423.6	521.0	499.3	496.5
117.5°	386.7	389.5	386.7	442.5	449.3	479.7
120°	344.2	360.6	344.2	369.5	392.3	433.2
122.5°	305.4	324.6	305.4	317.0	334.3	375.2
125°	271.7	291.3	271.7	279.8	284.2	318.3
127.5°	248.4	261.6	248.4	253.4	248.9	270.5
130°	230.4	241.7	230.4	236.9	226.0	236.5
132.5°	218.1	225.3	218.1	225.7	212.4	215.2
135°	207.2	213.2	207.2	215.2	203.2	202.0
137.5°	198.0	203.3	198.0	206.4	197.2	194.3
140°	190.0	194.4	190.0	198.9	191.6	190.1
142.5°	181.5	184.7	181.5	192.0	187.3	185.6
145°	176.0	178.4	176.0	186.8	184.1	183.6
147.5°	171.2	172.8	171.2	180.8	179.6	179.6
150°	166.3	168.0	166.3	175.5	174.4	175.1
152.5°	161.1	163.2	161.1	169.5	168.3	169.1
155°	158.0	160.0	158.0	164.8	163.9	164.3
157.5°	156.3	157.9	156.3	161.6	161.2	161.2
160°	155.2	156.4	155.2	159.5	159.1	158.7
162.5°	153.6	154.8	153.6	158.7	158.0	158.0
165°	153.5	153.9	153.5	157.2	157.2	156.7
167.5°	153.1	153.9	153.1	157.1	157.1	156.7
170°	153.5	154.0	153.5	156.7	156.4	155.6
172.5°	154.4	154.8	154.4	158.0	157.2	156.8
175°	154.4	154.8	154.4	157.2	157.2	157.6
177.5°	155.5	155.9	155.5	157.2	157.2	156.7
180°	157.6	157.6	157.6	157.6	157.6	157.6

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

Scaled Data Report

TEST NUMBER: P1432620
CATALOG NUMBER: EHBR1-24-UNV-TASM-L835-UPL15

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	16.75	17.86	17.21	18.30	18.76	16.06	17.18	16.53	17.62	18.08
	3H	18.29	19.29	18.78	19.74	20.25	17.91	18.91	18.39	19.36	19.87
	4H	18.93	19.86	19.44	20.33	20.85	18.69	19.62	19.20	20.09	20.62
	6H	19.41	20.27	19.93	20.75	21.28	19.34	20.19	19.85	20.68	21.21
	8H	19.56	20.37	20.09	20.87	21.42	19.56	20.37	20.09	20.87	21.41
	12H	19.64	20.41	20.17	20.90	21.47	19.69	20.46	20.22	20.95	21.52
4H	2H	17.16	18.09	17.67	18.56	19.08	16.64	17.57	17.15	18.04	18.56
	3H	18.96	19.73	19.47	20.24	20.78	18.70	19.46	19.21	19.98	20.52
	4H	19.73	20.42	20.27	20.95	21.53	19.61	20.30	20.14	20.82	21.40
	6H	20.35	20.94	20.91	21.50	22.10	20.38	20.97	20.94	21.52	22.12
	8H	20.54	21.10	21.11	21.65	22.26	20.65	21.20	21.21	21.75	22.36
	12H	20.65	21.14	21.23	21.72	22.33	20.82	21.30	21.40	21.89	22.50
8H	4H	19.98	20.54	20.55	21.09	21.69	19.89	20.44	20.45	20.99	21.60
	6H	20.72	21.18	21.32	21.78	22.39	20.79	21.24	21.39	21.84	22.45
	8H	20.99	21.40	21.61	22.01	22.63	21.14	21.54	21.76	22.16	22.78
	12H	21.17	21.52	21.78	22.11	22.81	21.39	21.74	22.00	22.34	23.04
12H	4H	19.99	20.48	20.58	21.07	21.67	19.90	20.39	20.48	20.97	21.58
	6H	20.77	21.17	21.38	21.78	22.41	20.83	21.24	21.45	21.85	22.47
	8H	21.09	21.44	21.70	22.03	22.73	21.24	21.59	21.85	22.18	22.88

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

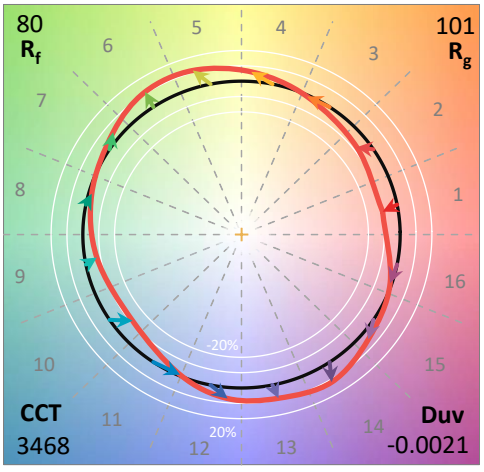
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

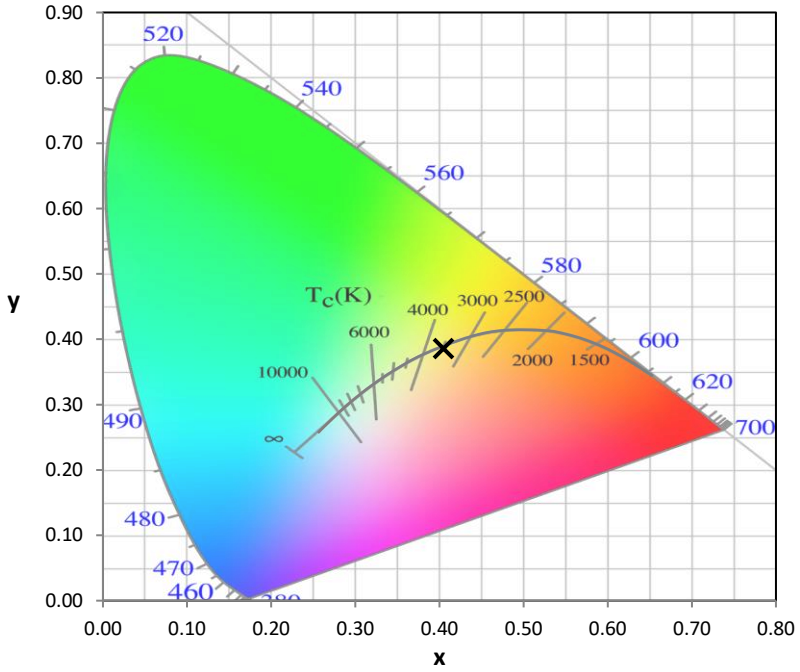
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

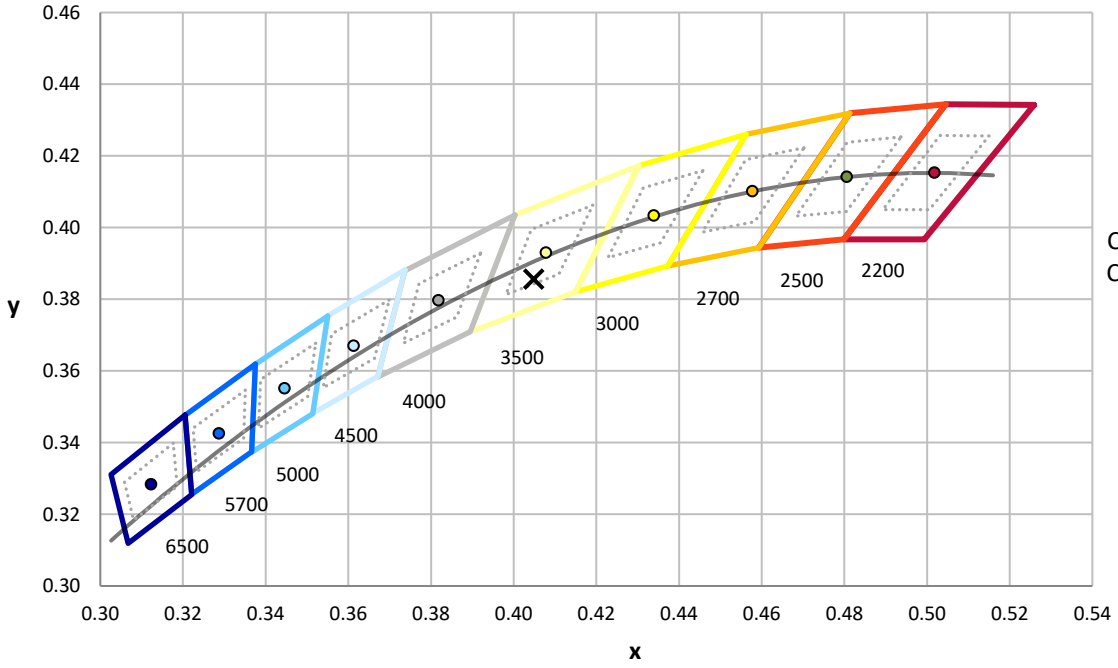
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

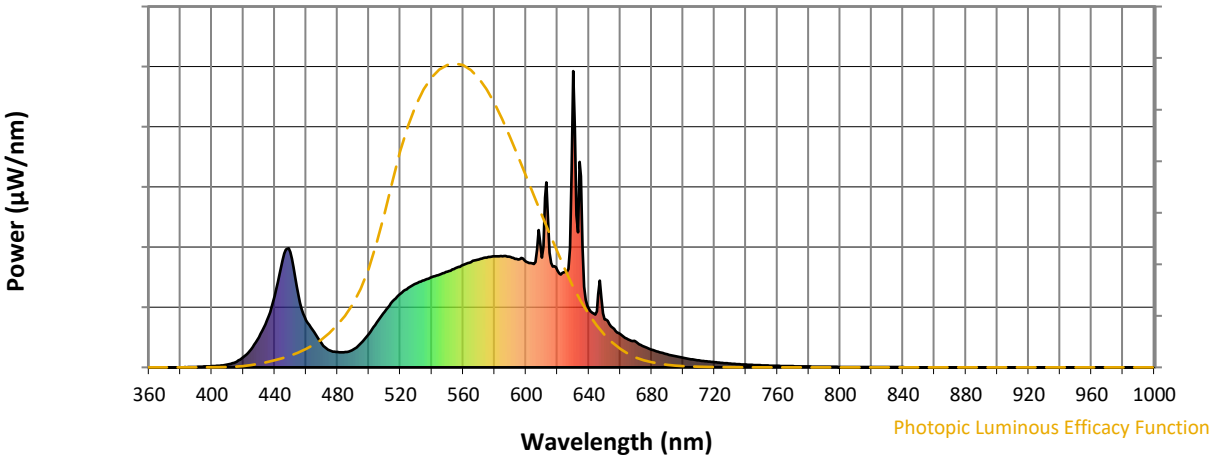


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

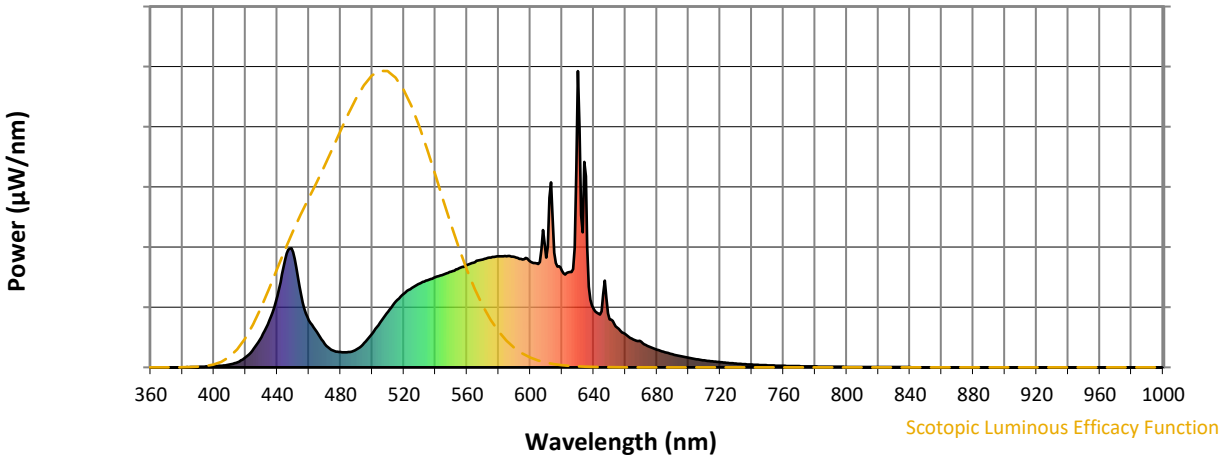


Photopic Lumens: NR

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

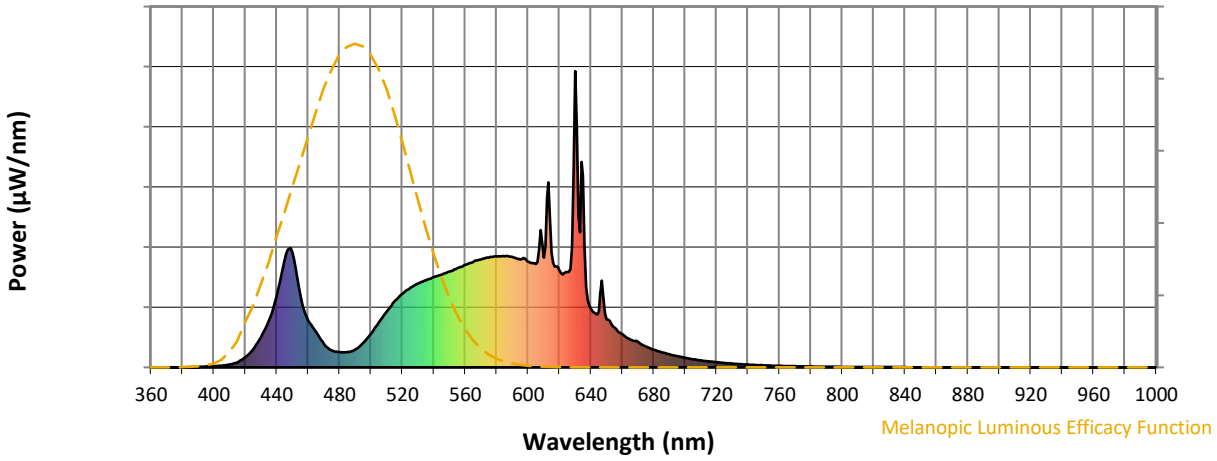


Scotopic Lumens: NR **S/P: 1.43**

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			

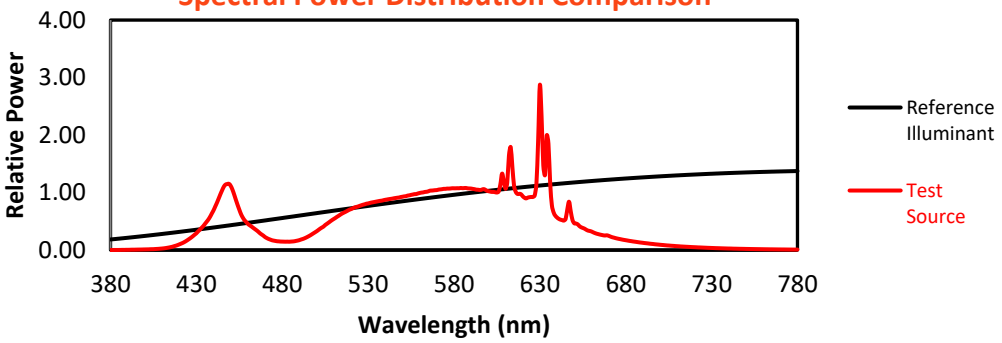
REPORT NUMBER: SP1-2506-472-3

TM-30-18

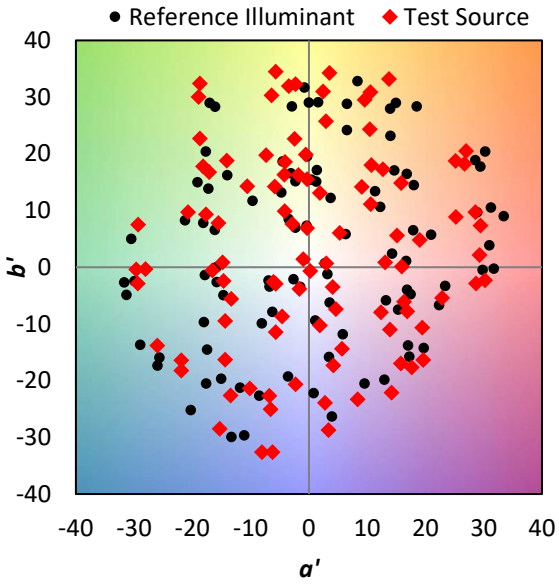
Summary

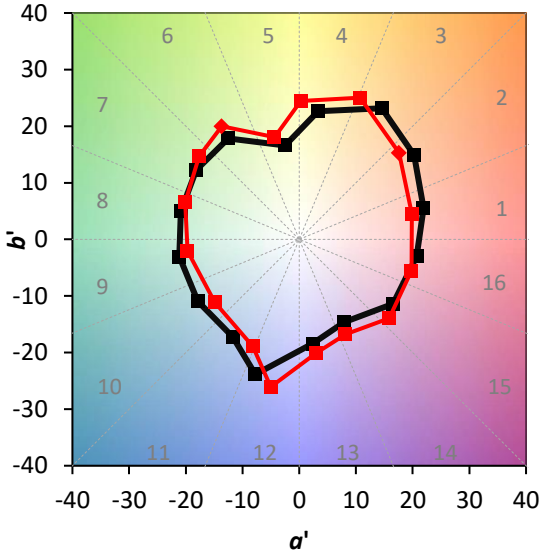
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

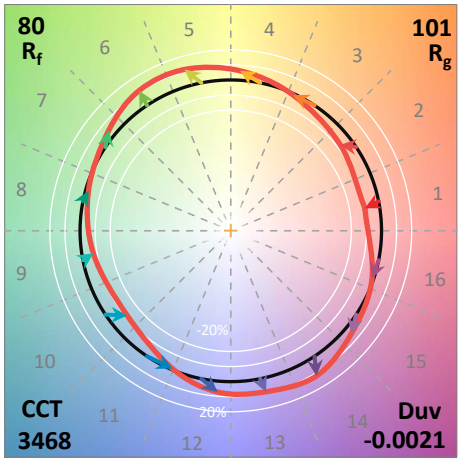
Spectral Power Distribution Comparison

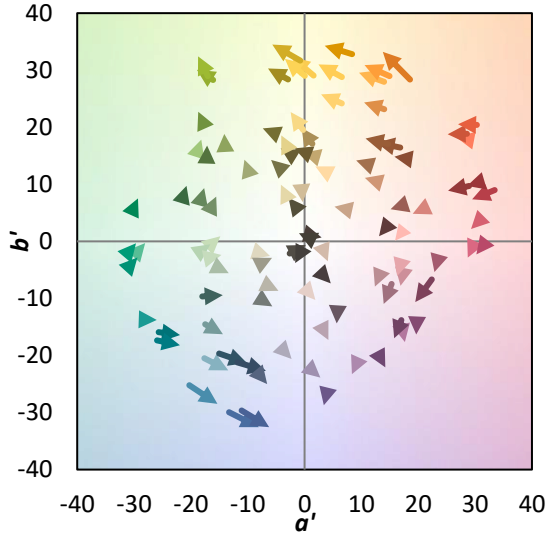


Color Vector Graphics







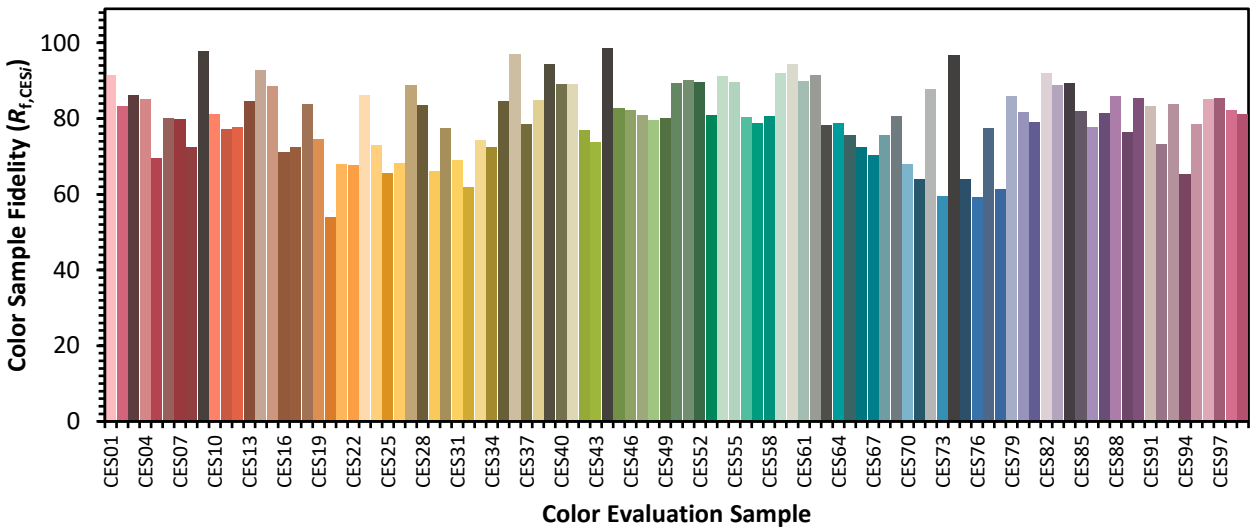


REPORT NUMBER: SP1-2506-472-3

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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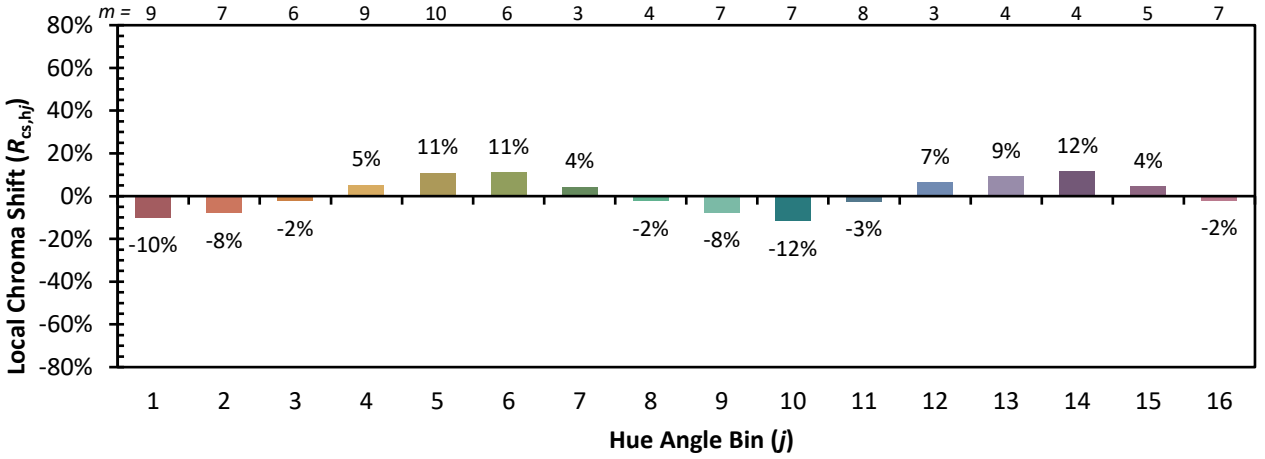
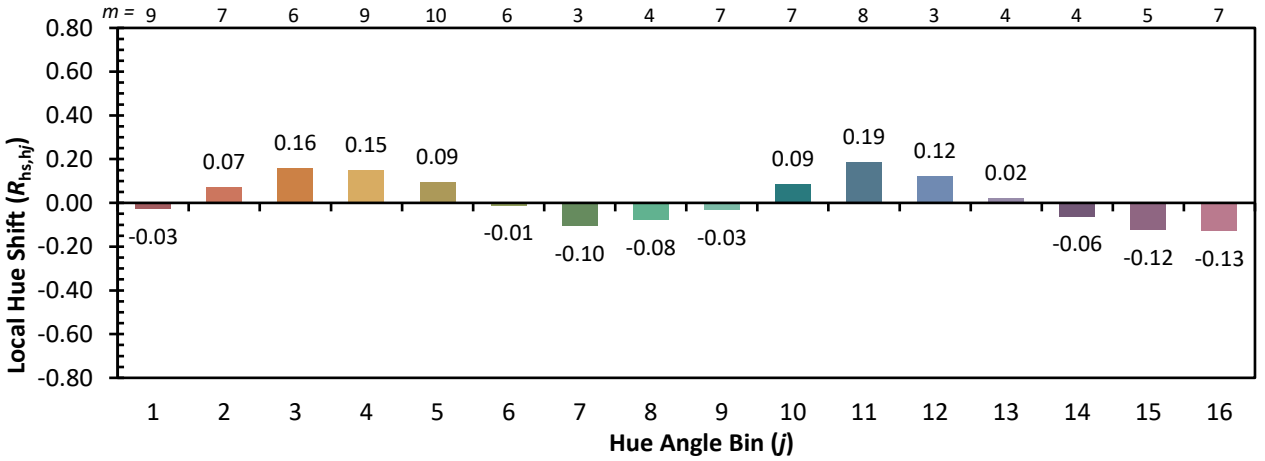
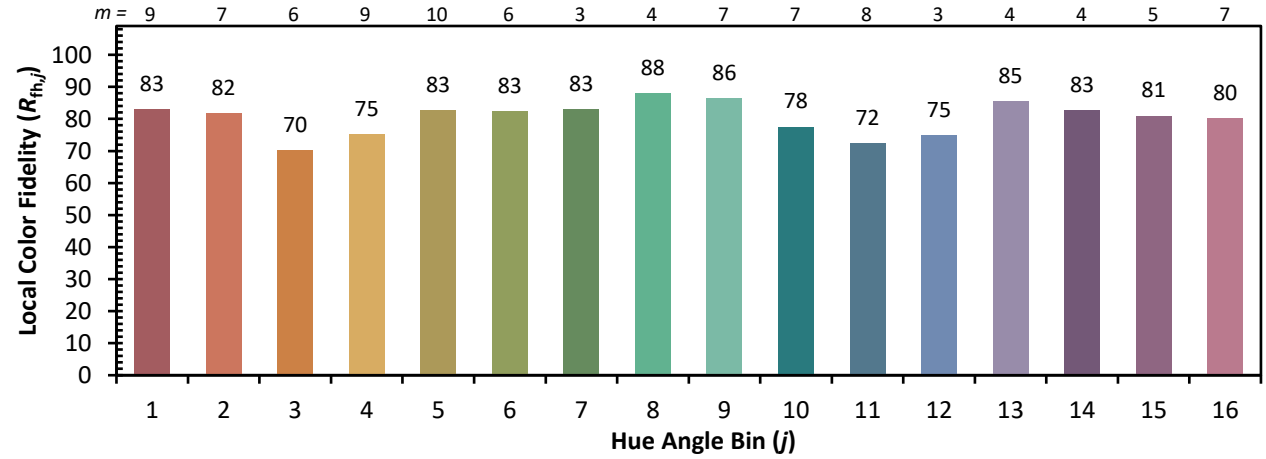
Color Rendition by Hue-Angle Bin







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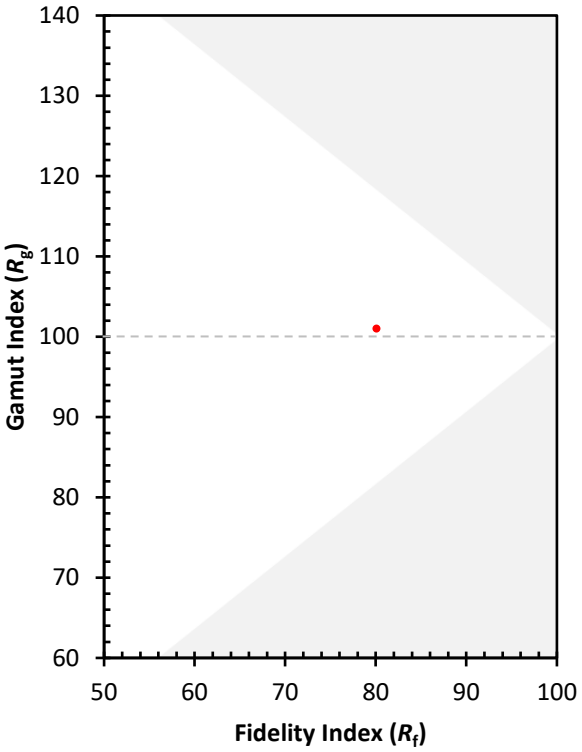
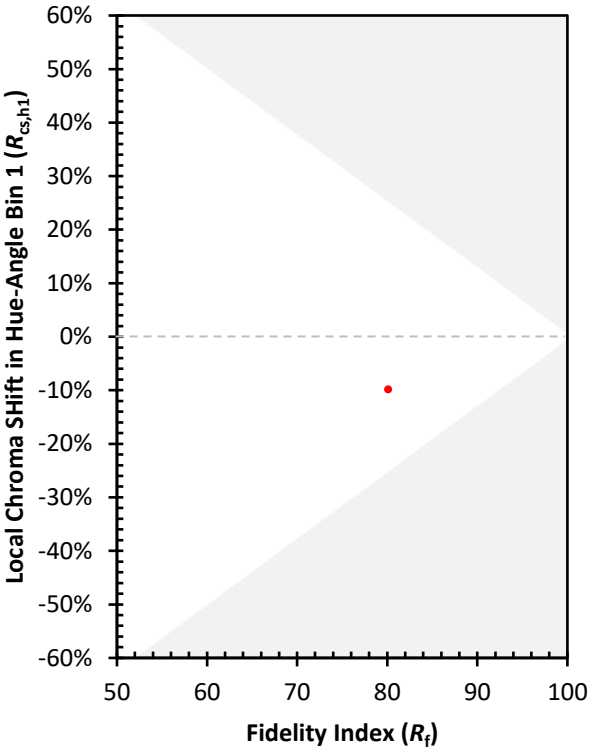
Measure Comparisons





(END OF REPORT)