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: P1432688

Luminaire Tested: EHBR1-36-UNV-TASM-L835-UPL36

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:	P1432688
	REPORT IS A COMBINATION OF REPORTS P1431777 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TASM-L835-UPL36
Description:	Elevate Round Highbay at, 36000 lumens, 3500K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38548.8 lumens
Efficiency:	N/A
Efficacy:	175.4 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

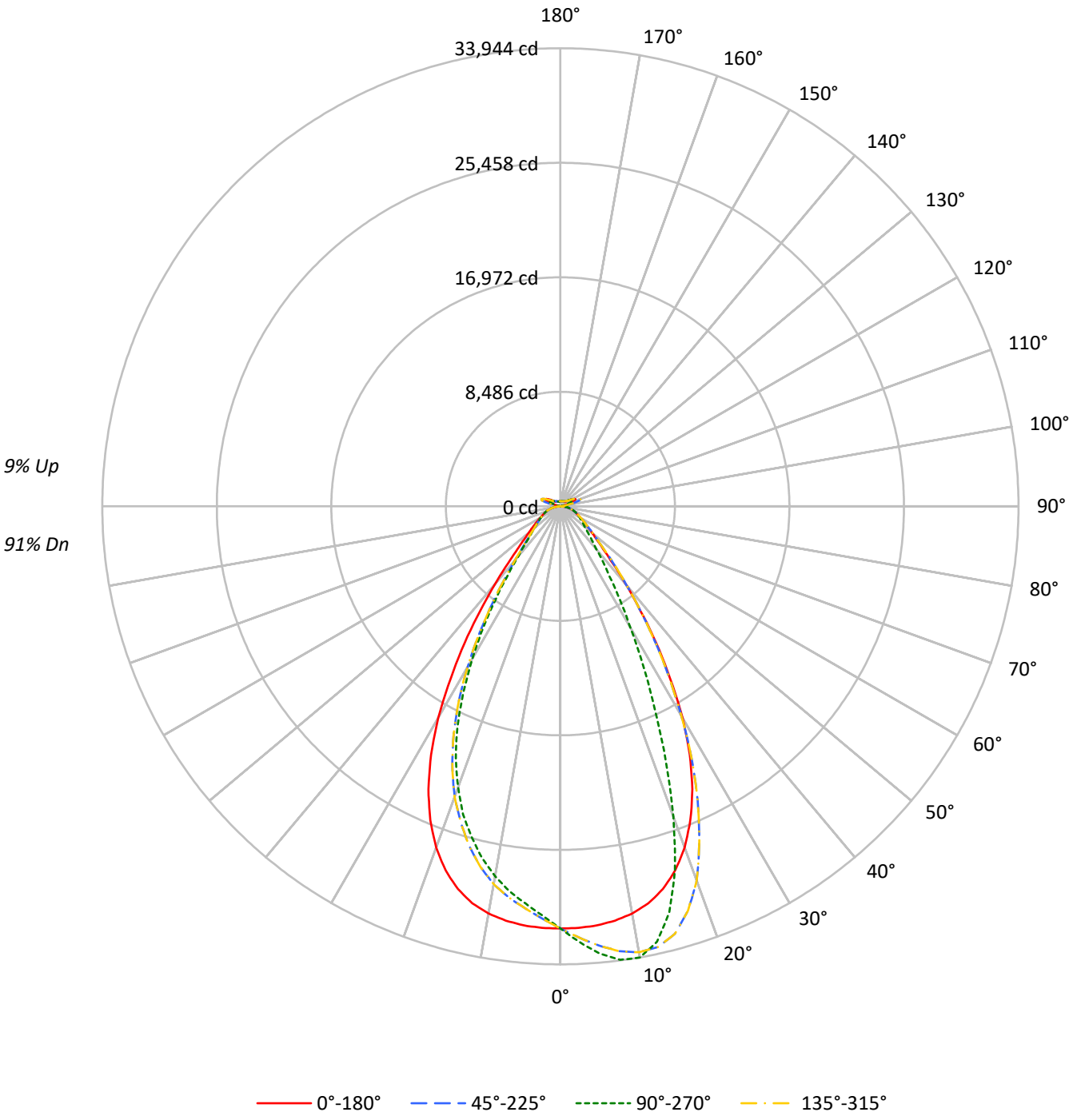
Input Watts (W):	219.8
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	110	106	103	100	106	103	100	98	97	95	93	92	90	89	87	86	84	82
2	103	97	92	87	99	94	89	86	89	86	82	85	82	79	81	78	76	74
3	96	88	82	77	93	86	81	76	82	78	74	78	75	71	75	72	69	67
4	90	81	75	70	88	79	73	69	76	71	67	73	68	65	70	66	63	61
5	85	75	68	63	82	73	67	62	70	65	61	68	63	60	65	61	58	56
6	80	70	63	58	78	68	62	57	66	60	56	63	58	55	61	57	54	52
7	75	65	58	53	73	64	57	53	61	56	52	59	54	51	57	53	50	48
8	71	60	54	49	69	59	53	49	58	52	48	56	51	47	54	50	46	45
9	67	57	50	46	66	56	50	45	54	48	45	52	47	44	51	47	43	42
10	64	53	47	43	62	52	46	42	51	45	42	50	45	41	48	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	146905	146905	146905	146905
5°	146011	155766	146011	138433
10°	144216	159765	144216	131016
15°	139958	148471	139958	121023
20°	130896	119054	130896	107797
25°	115853	82488	115853	90339
30°	94068	53664	94068	67592
35°	67469	34754	67469	44997
40°	43620	23954	43620	28378
45°	27677	18555	27677	20219
50°	20554	15767	20554	16842
55°	16781	14364	16781	14866
60°	14531	13682	14531	13765
65°	13246	13195	13246	13140
70°	12555	12930	12555	12762
75°	11741	12508	11741	12133
80°	10314	11808	10314	11040
85°	6672	8429	6672	8039

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 38912 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2974.5	7.7
10°-20°	8092.2	21.0
20°-30°	9490.5	24.6
30°-40°	6600.1	17.1
40°-50°	3279.9	8.5
50°-60°	1961.7	5.1
60°-70°	1380.8	3.6
70°-80°	889.4	2.3
80°-90°	288.8	0.7
90°-100°	95.6	0.2
100°-110°	624.3	1.6
110°-120°	1153.4	3.0
120°-130°	685.5	1.8
130°-140°	414.5	1.1
140°-150°	286.8	0.7
150°-160°	187.3	0.5
160°-170°	107.6	0.3
170°-180°	35.8	0.1
0°-30°	20557.2	53.3
0°-40°	27157.3	70.4
0°-60°	32399.0	84.0
0°-90°	34958.0	90.7
90°-120°	1873.4	4.9
90°-150°	3260.3	8.5
90°-180°	3591.0	9.3
0°-180°	38548.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	31282	31282	31282	31282	31282	
5°	31176	33258	31176	29558	31176	2959
15°	29362	31148	29362	25390	29362	8206
25°	23136	16473	23136	18041	23136	10474
35°	12383	6379	12383	8259	12383	7730
45°	4478	3002	4478	3271	4478	3664
55°	2268	1941	2268	2009	2268	2074
65°	1383	1377	1383	1372	1383	1389
75°	827	881	827	855	827	868
85°	229	290	229	276	229	255
90°	26	30	26	26	26	23
95°	51	48	51	44	51	54
105°	287	146	287	217	287	387
115°	1228	1048	1228	997	1228	1119
125°	786	823	786	720	786	724
135°	497	574	497	526	497	394
145°	449	470	449	437	449	282
155°	400	417	400	388	400	187
165°	377	388	377	370	377	107
175°	376	382	376	369	376	36
180°	375	375	375	375	375	

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	31282.4	31282.4	31282.4	31282.4	*31282.4*	31282.4	31282.4	31282.4	31282.4	31282.4	31282.4
2.5°	31264.1	31668.3	31995.6	32211.5	*32318.2*	32211.5	31995.6	31668.3	31264.1	30862.3	30586.0
5°	31175.6	31985.1	32670.8	33119.6	*33258.5*	33119.6	32670.8	31985.1	31175.6	30410.7	29903.2
7.5°	30963.8	32225.0	33243.9	33767.7	*33895.6*	33767.7	33243.9	32225.0	30963.8	29880.9	29239.9
10°	*30640.6*	*32376.3*	*33553.6*	*33929.0*	*33944.3*	*33929.0*	*33553.6*	*32376.3*	*30640.6*	*29181.8*	*28425.6*
12.5°	30125.0	32322.4	33449.8	33326.6	*33046.7*	33326.6	33449.8	32322.4	30125.0	28327.7	27373.8
15°	29362.4	32002.7	32792.2	31789.7	*31148.5*	31789.7	32792.2	32002.7	29362.4	27174.5	26068.1
17.5°	28287.8	31404.3	31419.6	29436.3	*28226.8*	29436.3	31419.6	31404.3	28287.8	25764.2	24545.9
20°	26902.9	30444.7	29529.6	25902.1	*24469.1*	25902.1	29529.6	30444.7	26902.9	24097.2	22901.7
22.5°	25166.5	29150.6	26897.5	22346.8	*20391.6*	22346.8	26897.5	29150.6	25166.5	22158.5	20914.3
25°	23135.7	27565.1	24066.1	18473.0	*16472.7*	18473.0	24066.1	27565.1	23135.7	19848.5	18723.5
27.5°	20747.1	25555.4	21051.0	15095.4	*13249.9*	15095.4	21051.0	25555.4	20747.1	17463.4	16314.3
30°	18094.0	22979.1	17913.4	12021.6	*10322.3*	12021.6	17913.4	22979.1	18094.0	14783.9	13754.9
32.5°	15123.5	20453.9	14900.0	9632.4	*8192.9*	9632.4	14900.0	20453.9	15123.5	12226.9	11151.7
35°	12382.9	17294.5	12183.0	7568.8	*6378.6*	7568.8	12183.0	17294.5	12382.9	9813.1	8757.3
37.5°	9718.0	14309.3	9711.6	6094.7	*5173.7*	6094.7	9711.6	14309.3	9718.0	7629.2	6772.2
40°	7560.5	11188.6	7609.2	4865.2	*4151.9*	4865.2	7609.2	11188.6	7560.5	5804.9	5256.4
42.5°	5728.7	8555.5	5980.9	3993.0	*3526.5*	3993.0	5980.9	8555.5	5728.7	4573.6	4163.1
45°	4478.0	6295.8	4670.4	3368.8	*3002.2*	3368.8	4670.4	6295.8	4478.0	3683.2	3407.5
47.5°	3646.9	4865.8	3785.3	2889.5	*2632.7*	2889.5	3785.3	4865.8	3646.9	3115.4	2908.9
50°	3063.2	3733.7	3142.9	2522.3	*2349.9*	2522.3	3142.9	3733.7	3063.2	2667.8	2530.0
52.5°	2631.4	3045.0	2676.6	2247.8	*2131.7*	2247.8	2676.6	3045.0	2631.4	2334.1	2248.4
55°	2267.8	2559.8	2327.6	2021.4	*1941.1*	2021.4	2327.6	2559.8	2267.8	2077.1	2013.8
57.5°	1991.5	2171.6	2021.4	1828.4	*1775.1*	1828.4	2021.4	2171.6	1991.5	1848.4	1814.3
60°	1746.8	1880.7	1783.8	1660.0	*1644.8*	1660.0	1783.8	1880.7	1746.8	1663.0	1640.7
62.5°	1558.6	1643.1	1577.3	1508.7	*1495.2*	1508.7	1577.3	1643.1	1558.6	1494.0	1498.2
65°	1382.6	1461.2	1409.6	1372.6	*1377.3*	1372.6	1409.6	1461.2	1382.6	1352.6	1359.1
67.5°	1246.5	1287.6	1265.3	1244.1	*1249.5*	1244.1	1265.3	1287.6	1246.5	1217.2	1227.2
70°	1101.6	1145.6	1122.7	1125.6	*1134.5*	1125.6	1122.7	1145.6	1101.6	1092.9	1100.4
72.5°	963.2	997.2	989.6	996.6	*1006.0*	996.6	989.6	997.2	963.2	962.0	962.6
75°	827.1	852.9	856.4	866.4	*881.1*	866.4	856.4	852.9	827.1	818.3	828.8
77.5°	678.7	708.0	719.1	732.6	*754.3*	732.6	719.1	708.0	678.7	684.5	689.9
80°	542.6	556.1	580.8	590.7	*621.2*	590.7	580.8	556.1	542.6	532.7	540.2
82.5°	397.1	409.4	430.6	449.4	*466.9*	449.4	430.6	409.4	397.1	392.4	393.0
85°	229.3	248.1	262.2	284.5	*289.7*	284.5	262.2	248.1	229.3	234.7	229.3
87.5°	80.4	86.2	98.5	107.3	*107.9*	107.3	98.5	86.2	80.4	82.1	74.5
90°	26.4	44.8	77.1	43.2	*30.4*	43.2	77.1	44.8	26.4	46.2	72.0
92.5°	34.3	60.7	108.9	57.0	*40.3*	57.0	108.9	60.7	34.3	60.1	115.6
95°	50.7	74.6	138.6	63.0	*48.3*	63.0	138.6	74.6	50.7	79.9	161.3
97.5°	78.5	92.4	156.4	67.0	*58.2*	67.0	156.4	92.4	78.5	97.7	185.0
100°	104.3	104.3	285.4	76.9	*66.1*	76.9	285.4	104.3	104.3	120.1	288.2
102.5°	157.9	204.0	660.9	152.8	*80.0*	152.8	660.9	204.0	157.9	225.3	611.5
105°	286.7	465.8	1162.7	392.8	*146.0*	392.8	1162.7	465.8	286.7	471.3	1089.5
107.5°	542.6	868.5	1497.8	773.6	*338.4*	773.6	1497.8	868.5	542.6	834.2	1437.2
110°	867.9	1213.6	1634.7	1059.3	*683.5*	1059.3	1634.7	1213.6	867.9	1145.6	1506.6

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1129.7	1352.5	1597.0	1174.3	*945.4*	1174.3	1597.0	1352.5	1129.7	1264.6	1443.1
115°	1227.6	1332.7	1426.4	1170.3	*1048.5*	1170.3	1426.4	1332.7	1227.6	1234.8	1288.5
117.5°	1185.9	1219.6	1232.0	1099.0	*1054.5*	1099.0	1232.0	1219.6	1185.9	1110.5	1094.0
120°	1070.9	1057.0	1038.3	993.9	*995.0*	993.9	1038.3	1057.0	1070.9	969.7	913.6
122.5°	926.7	896.9	877.6	887.3	*913.7*	887.3	877.6	896.9	926.7	825.4	783.2
125°	785.8	756.1	765.1	796.0	*823.0*	796.0	765.1	756.1	785.8	701.1	690.6
127.5°	667.4	653.5	683.8	718.7	*741.6*	718.7	683.8	653.5	667.4	613.8	625.2
130°	582.7	586.0	626.3	655.8	*670.3*	655.8	626.3	586.0	582.7	556.9	584.1
132.5°	529.7	545.0	583.3	608.8	*617.4*	608.8	583.3	545.0	529.7	522.3	555.4
135°	496.6	519.2	554.1	570.5	*573.8*	570.5	554.1	519.2	496.6	499.1	529.7
137.5°	477.3	499.9	526.3	539.4	*536.1*	539.4	526.3	499.9	477.3	483.8	507.1
140°	465.9	488.6	500.5	515.6	*512.9*	515.6	500.5	488.6	465.9	469.9	487.8
142.5°	454.8	475.4	481.3	492.4	*489.0*	492.4	481.3	475.4	454.8	458.8	470.6
145°	449.4	464.7	460.0	474.6	*469.8*	474.6	460.0	464.7	449.4	450.8	457.3
147.5°	439.5	450.8	444.8	457.3	*452.6*	457.3	444.8	450.8	439.5	439.5	442.0
150°	428.1	436.1	427.5	442.0	*441.2*	442.0	427.5	436.1	428.1	426.2	428.7
152.5°	412.9	420.8	412.9	429.3	*427.9*	429.3	412.9	420.8	412.9	410.9	413.5
155°	400.1	404.1	400.1	416.6	*417.2*	416.6	400.1	404.1	400.1	399.5	400.7
157.5°	391.4	394.0	392.0	406.4	*407.0*	406.4	392.0	394.0	391.4	391.4	392.0
160°	383.8	387.8	386.3	398.8	*399.4*	398.8	386.3	387.8	383.8	385.2	385.8
162.5°	381.0	381.0	380.2	392.6	*393.8*	392.6	380.2	381.0	381.0	381.0	382.9
165°	376.8	378.8	376.0	385.2	*388.3*	385.2	376.0	378.8	376.8	378.2	378.2
167.5°	376.0	374.0	375.3	382.9	*386.1*	382.9	375.3	374.0	376.0	377.4	377.4
170°	372.6	373.2	372.5	380.1	*383.3*	380.1	372.5	373.2	372.6	374.6	376.0
172.5°	374.4	374.4	372.2	377.9	*383.0*	377.9	372.2	374.4	374.4	375.9	377.8
175°	375.6	374.2	373.3	377.1	*382.3*	377.1	373.3	374.2	375.6	375.0	375.0
177.5°	373.6	374.8	376.0	379.6	*386.8*	379.6	376.0	374.8	373.6	375.0	375.0
180°	374.8	374.8	374.8	374.8	*374.8*	374.8	374.8	374.8	374.8	374.8	374.8

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	31282.4	31282.4	31282.4	31282.4	31282.4	31282.4
2.5°	30373.7	30353.8	30373.7	30586.0	30862.3	31264.1
5°	29668.0	29557.7	29668.0	29903.2	30410.7	31175.6
7.5°	28846.3	28782.3	28846.3	29239.9	29880.9	30963.8
10°	*27981.0*	*27836.1*	*27981.0*	*28425.6*	*29181.8*	*30640.6*
12.5°	26914.6	26722.8	26914.6	27373.8	28327.7	30125.0
15°	25558.4	25390.0	25558.4	26068.1	27174.5	29362.4
17.5°	24103.0	23950.5	24103.0	24545.9	25764.2	28287.8
20°	22275.2	22155.5	22275.2	22901.7	24097.2	26902.9
22.5°	20357.6	20245.6	20357.6	20914.3	22158.5	25166.5
25°	18101.6	18040.6	18101.6	18723.5	19848.5	23135.7
27.5°	15663.7	15560.0	15663.7	16314.3	17463.4	20747.1
30°	13173.1	13001.2	13173.1	13754.9	14783.9	18094.0
32.5°	10736.9	10613.2	10736.9	11151.7	12226.9	15123.5
35°	8382.4	8258.6	8382.4	8757.3	9813.1	12382.9
37.5°	6531.7	6312.9	6531.7	6772.2	7629.2	9718.0
40°	4953.8	4918.6	4953.8	5256.4	5804.9	7560.5
42.5°	4032.8	3937.2	4032.8	4163.1	4573.6	5728.7
45°	3308.9	3271.4	3308.9	3407.5	3683.2	4478.0
47.5°	2845.5	2862.0	2845.5	2908.9	3115.4	3646.9
50°	2500.0	2510.0	2500.0	2530.0	2667.8	3063.2
52.5°	2245.5	2236.6	2245.5	2248.4	2334.1	2631.4
55°	2020.2	2009.0	2020.2	2013.8	2077.1	2267.8
57.5°	1823.2	1831.3	1823.2	1814.3	1848.4	1991.5
60°	1647.1	1654.8	1647.1	1640.7	1663.0	1746.8
62.5°	1498.8	1503.4	1498.8	1498.2	1494.0	1558.6
65°	1366.1	1371.5	1366.1	1359.1	1352.6	1382.6
67.5°	1239.5	1239.5	1239.5	1227.2	1217.2	1246.5
70°	1120.4	1119.8	1120.4	1100.4	1092.9	1101.6
72.5°	977.3	991.3	977.3	962.6	962.0	963.2
75°	838.2	854.7	838.2	828.8	818.3	827.1
77.5°	697.4	722.7	697.4	689.9	684.5	678.7
80°	553.1	580.8	553.1	540.2	532.7	542.6
82.5°	408.8	429.4	408.8	393.0	392.4	397.1
85°	243.4	276.3	243.4	229.3	234.7	229.3
87.5°	78.1	99.7	78.1	74.5	82.1	80.4
90°	42.3	26.4	42.3	72.0	46.2	26.4
92.5°	64.1	38.3	64.1	115.6	60.1	34.3
95°	74.0	44.2	74.0	161.3	79.9	50.7
97.5°	81.9	56.7	81.9	185.0	97.7	78.5
100°	95.8	74.6	95.8	288.2	120.1	104.3
102.5°	202.9	126.2	202.9	611.5	225.3	157.9
105°	427.1	217.3	427.1	1089.5	471.3	286.7
107.5°	764.2	376.1	764.2	1437.2	834.2	542.6
110°	1014.1	701.3	1014.1	1506.6	1145.6	867.9

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1089.5	947.3	1089.5	1443.1	1264.6	1129.7
115°	1047.9	996.9	1047.9	1288.5	1234.8	1227.6
117.5°	956.6	963.1	956.6	1094.0	1110.5	1185.9
120°	851.5	891.7	851.5	913.6	969.7	1070.9
122.5°	754.9	802.4	754.9	783.2	825.4	926.7
125°	671.5	719.7	671.5	690.6	701.1	785.8
127.5°	614.0	646.4	614.0	625.2	613.8	667.4
130°	569.0	596.8	569.0	584.1	556.9	582.7
132.5°	537.9	555.7	537.9	555.4	522.3	529.7
135°	510.6	526.0	510.6	529.7	499.1	496.6
137.5°	487.5	500.8	487.5	507.1	483.8	477.3
140°	466.8	478.2	466.8	487.8	469.9	465.9
142.5°	445.6	453.5	445.6	470.6	458.8	454.8
145°	430.9	437.0	430.9	457.3	450.8	449.4
147.5°	418.2	422.2	418.2	442.0	439.5	439.5
150°	405.5	409.5	405.5	428.7	426.2	428.1
152.5°	392.2	396.8	392.2	413.5	410.9	412.9
155°	383.4	388.0	383.4	400.7	399.5	400.1
157.5°	378.7	381.8	378.7	392.0	391.4	391.4
160°	374.5	377.0	374.5	385.8	385.2	383.8
162.5°	369.7	372.3	369.7	382.9	381.0	381.0
165°	368.9	369.5	368.9	378.2	378.2	376.8
167.5°	367.4	369.5	367.4	377.4	377.4	376.0
170°	368.0	368.6	368.0	376.0	374.6	372.6
172.5°	369.3	369.8	369.3	377.8	375.9	374.4
175°	368.5	369.1	368.5	375.0	375.0	375.6
177.5°	371.0	371.6	371.0	375.0	375.0	373.6
180°	374.8	374.8	374.8	374.8	374.8	374.8

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

Scaled Data Report

TEST NUMBER: P1432688
CATALOG NUMBER: EHBR1-36-UNV-TASM-L835-UPL36

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	17.77	18.84	18.29	19.34	19.88	17.08	18.15	17.61	18.66	19.20
	3H	19.31	20.26	19.85	20.78	21.37	18.93	19.88	19.47	20.40	20.99
	4H	19.95	20.84	20.51	21.37	21.97	19.71	20.60	20.27	21.13	21.74
	6H	20.43	21.24	21.00	21.79	22.41	20.35	21.17	20.93	21.72	22.33
	8H	20.58	21.35	21.16	21.92	22.54	20.57	21.35	21.16	21.91	22.54
	12H	20.65	21.39	21.24	21.94	22.59	20.70	21.44	21.29	22.00	22.64
4H	2H	18.18	19.07	18.74	19.60	20.21	17.66	18.55	18.22	19.08	19.68
	3H	19.97	20.71	20.55	21.29	21.91	19.71	20.45	20.28	21.02	21.65
	4H	20.75	21.41	21.34	21.99	22.65	20.62	21.28	21.21	21.87	22.53
	6H	21.36	21.93	21.98	22.54	23.22	21.39	21.96	22.00	22.57	23.25
	8H	21.56	22.09	22.18	22.70	23.38	21.66	22.19	22.28	22.80	23.48
	12H	21.66	22.13	22.30	22.77	23.45	21.83	22.30	22.46	22.93	23.62
8H	4H	20.99	21.53	21.62	22.14	22.82	20.90	21.43	21.52	22.04	22.72
	6H	21.74	22.17	22.39	22.82	23.51	21.80	22.23	22.45	22.89	23.58
	8H	22.01	22.39	22.68	23.06	23.76	22.15	22.54	22.82	23.20	23.91
	12H	22.18	22.51	22.84	23.16	23.94	22.40	22.74	23.06	23.39	24.16
12H	4H	21.00	21.47	21.64	22.11	22.80	20.91	21.38	21.54	22.02	22.70
	6H	21.78	22.16	22.45	22.83	23.53	21.85	22.23	22.51	22.90	23.60
	8H	22.10	22.43	22.76	23.08	23.85	22.25	22.59	22.91	23.23	24.01

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

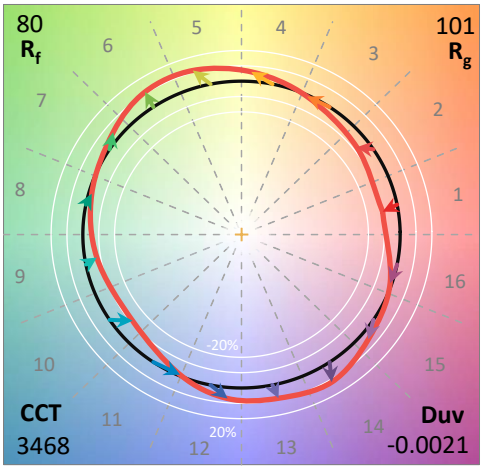
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

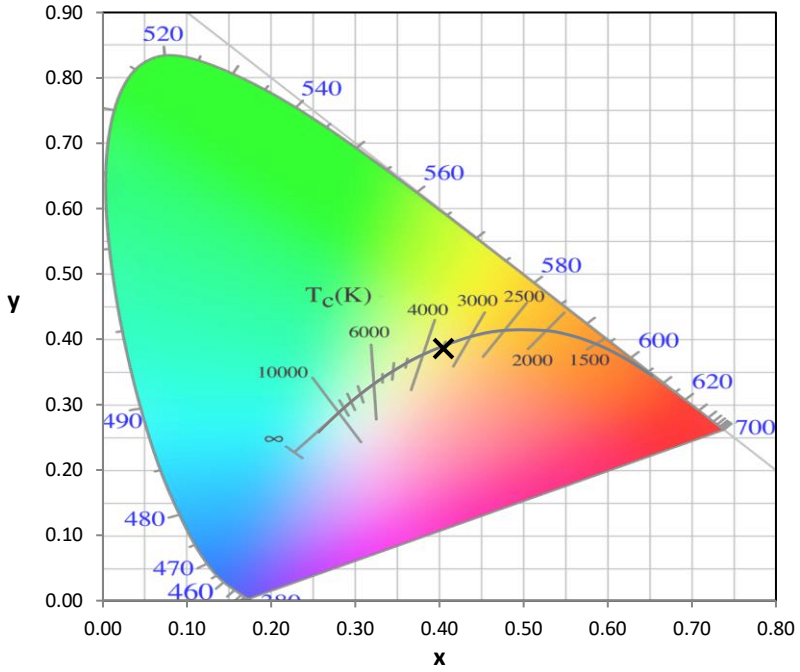
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

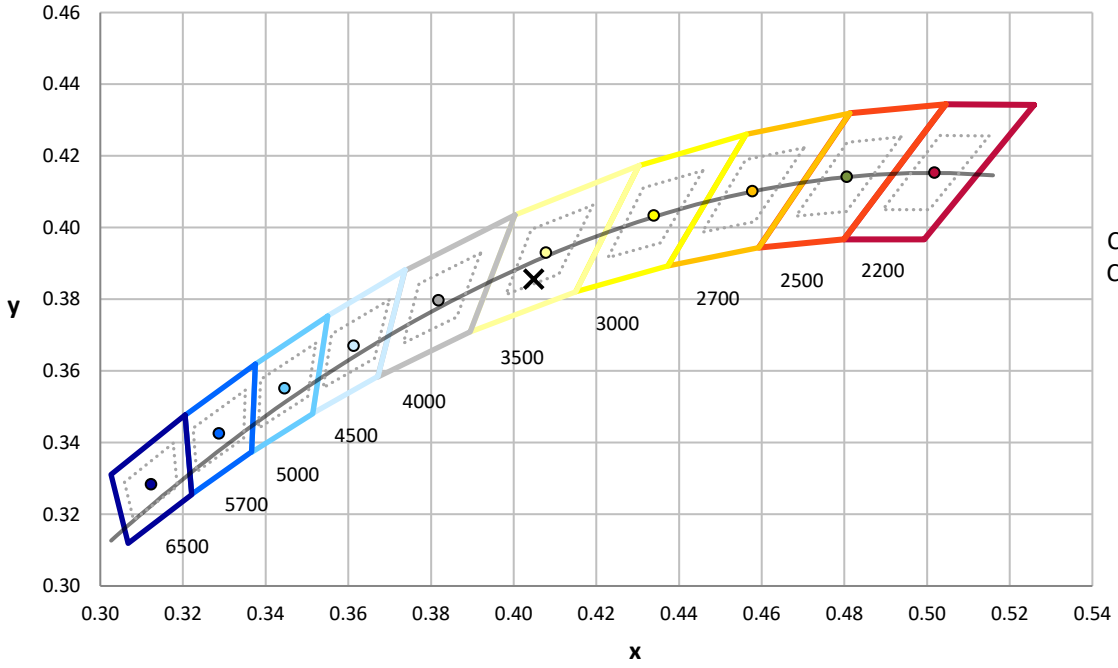
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

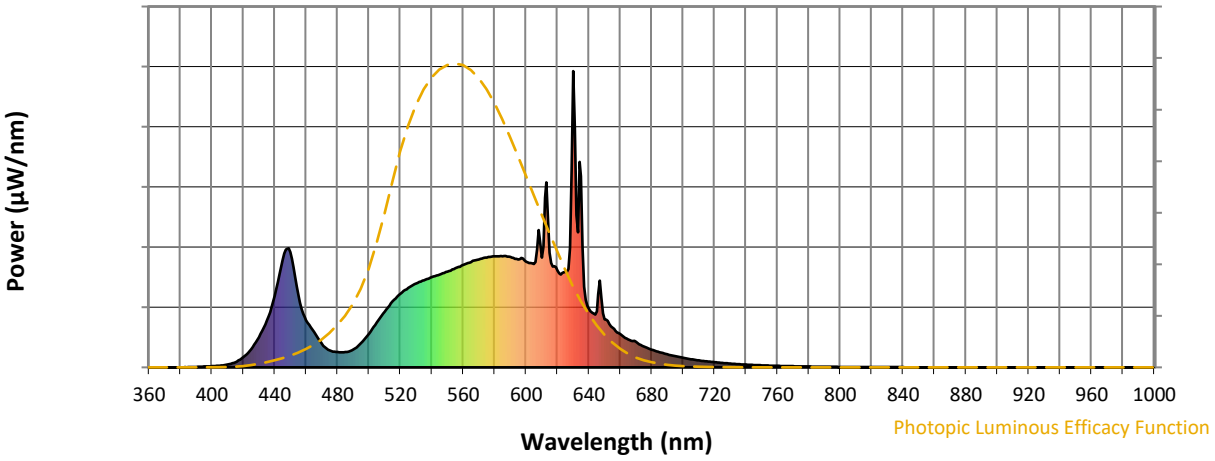


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

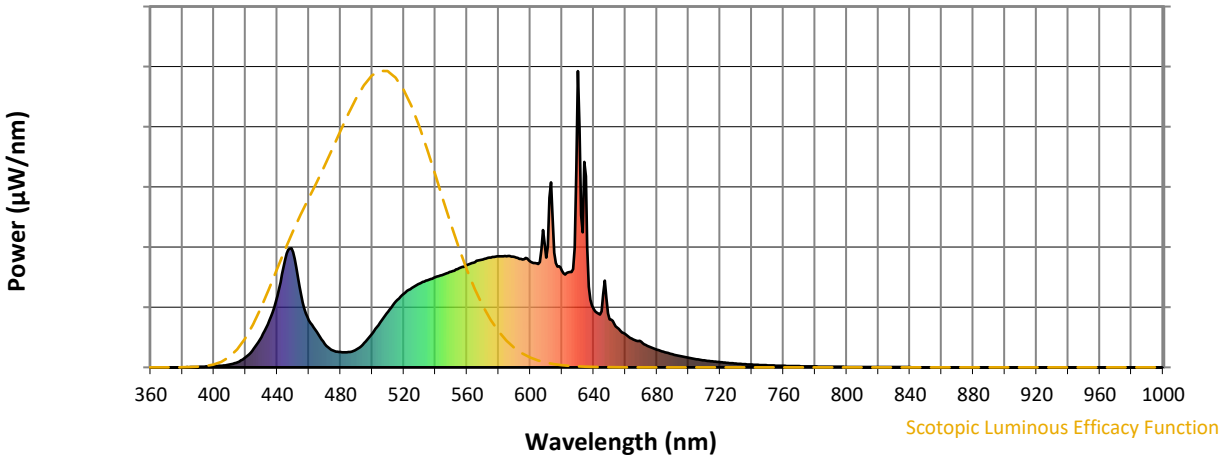


Photopic Lumens: NR

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

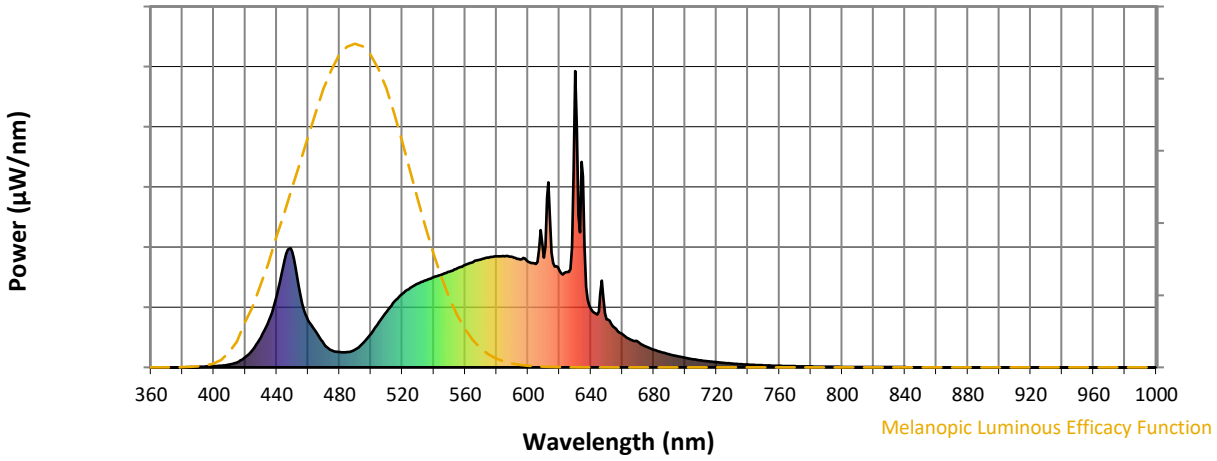


Scotopic Lumens: NR **S/P: 1.43**

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			

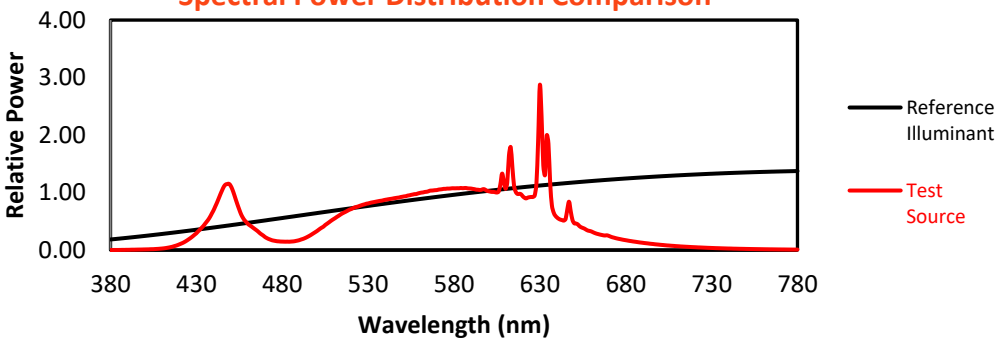
REPORT NUMBER: SP1-2506-472-3

TM-30-18

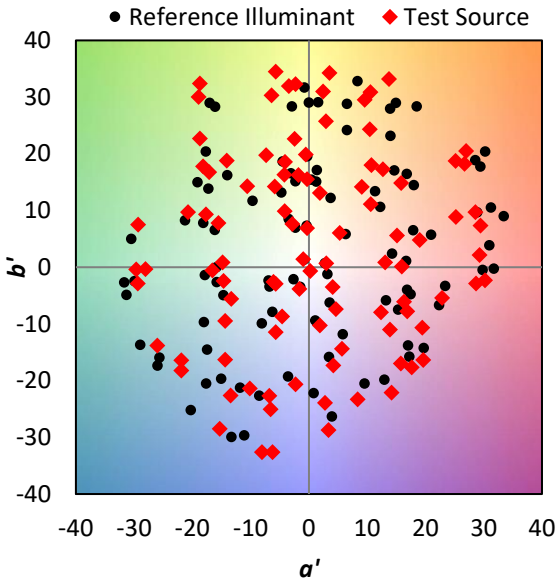
Summary

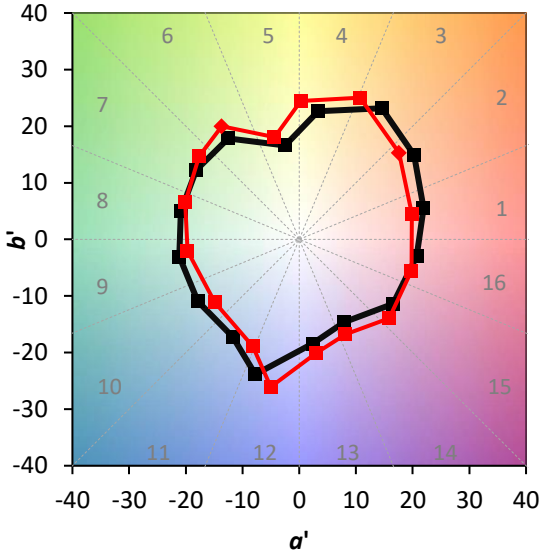
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

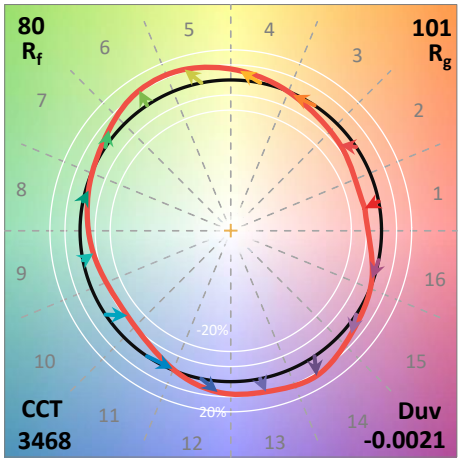
Spectral Power Distribution Comparison

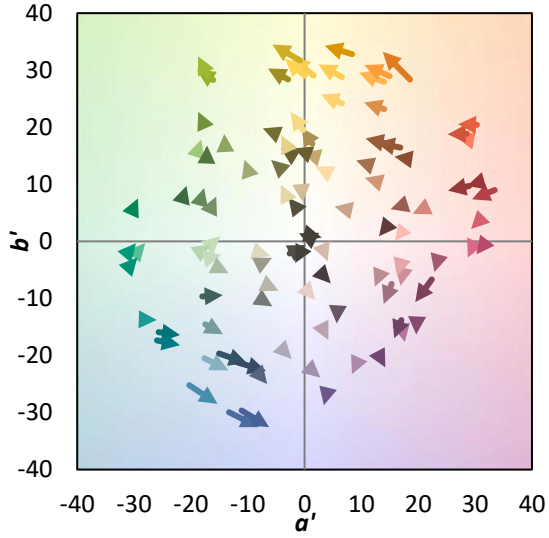


Color Vector Graphics







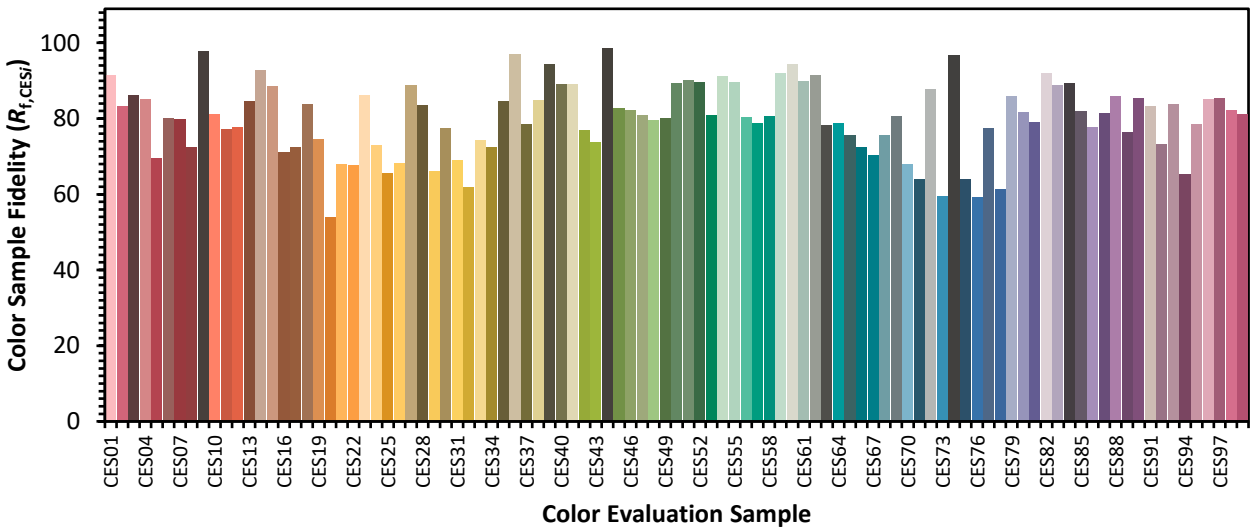


REPORT NUMBER: SP1-2506-472-3

TM-30-18

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

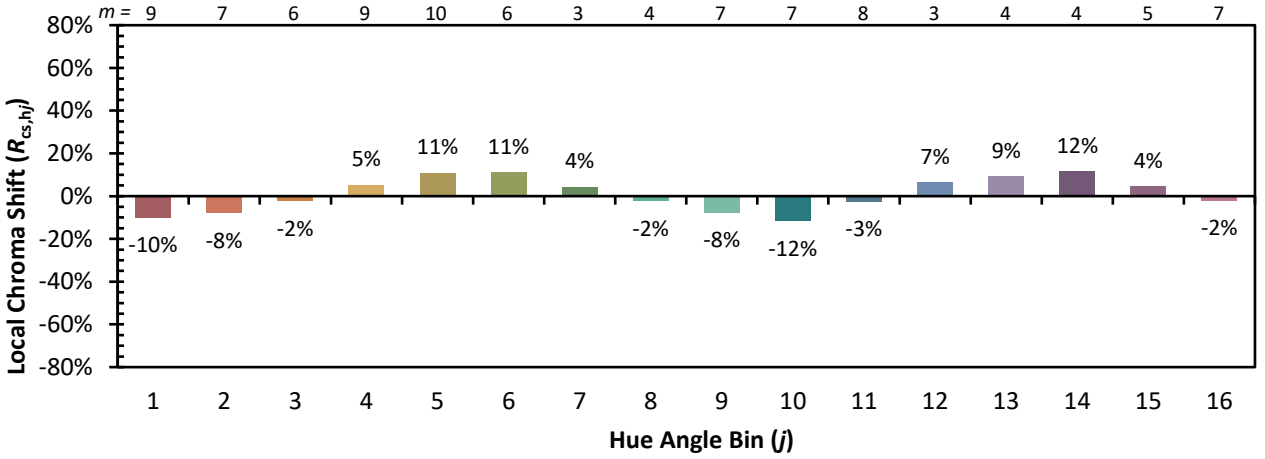
CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82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

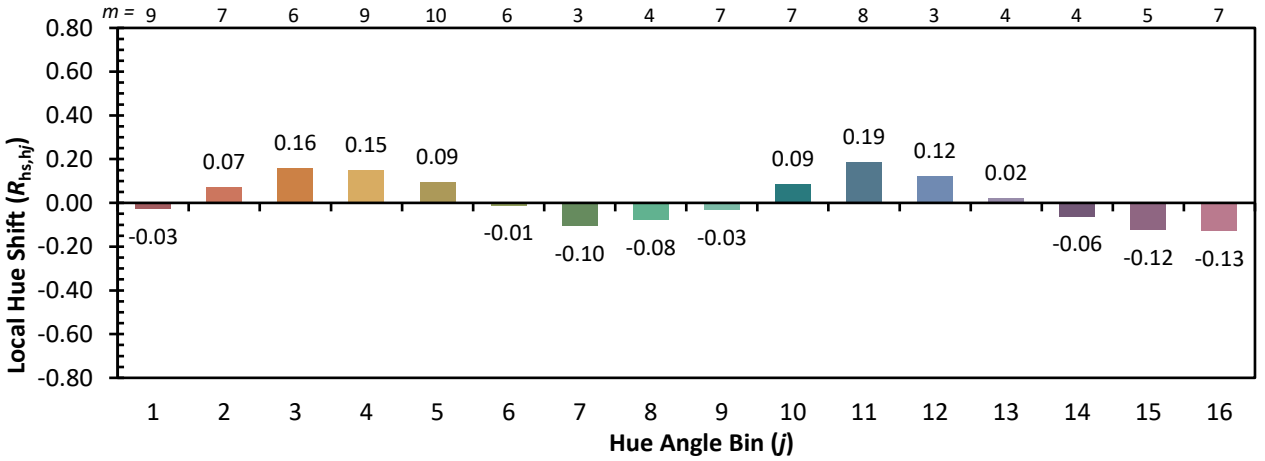


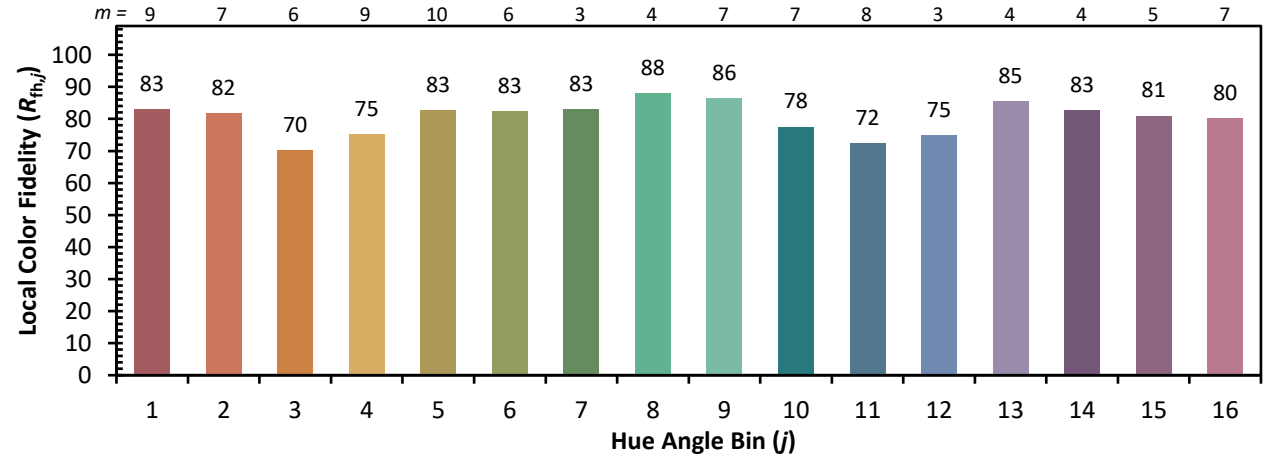
REPORT NUMBER: SP1-2506-472-3

TM-30-18

Color Rendition by Hue-Angle Bin



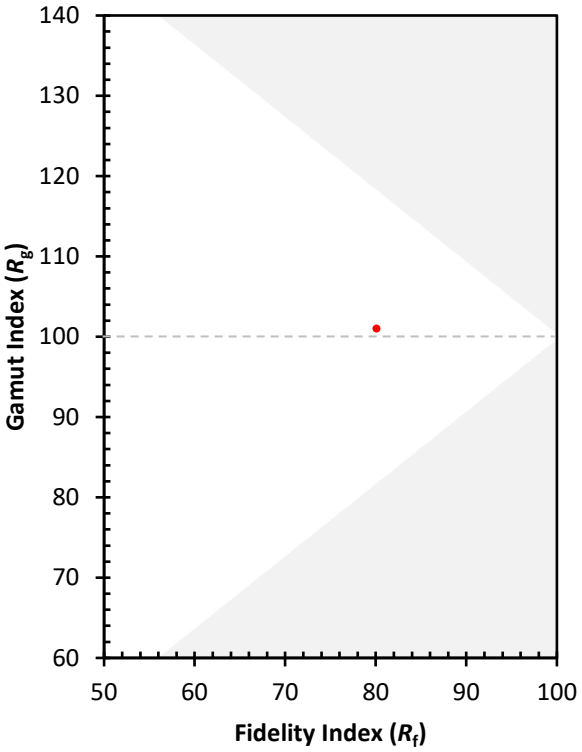


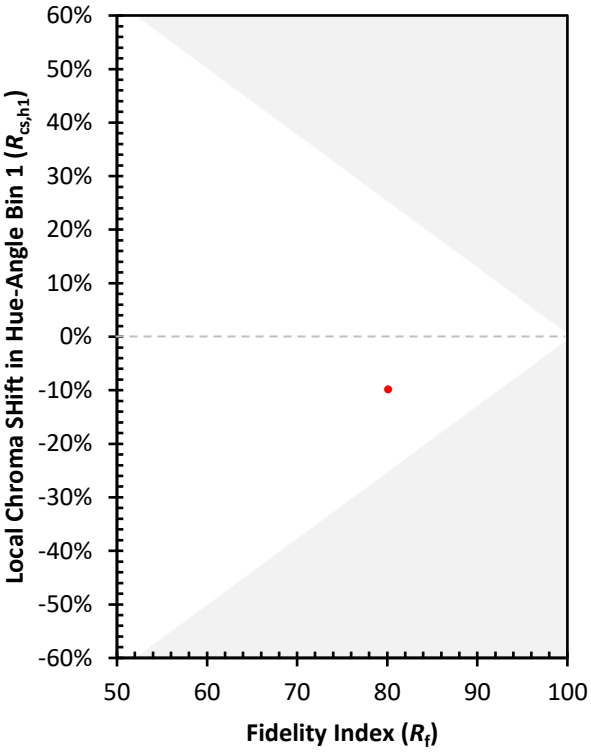


REPORT NUMBER: SP1-2506-472-3

TM-30-18

Measure Comparisons





(END OF REPORT)