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: P1432594

Luminaire Tested: EHBR1-18-UNV-TASM-L835

Issue Date: 3/13/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1432594
	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:	EHBR1-18-UNV-TASM-L835
Description:	Elevate Round Highbay at, 18000 lumens, 3500K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17796.1 lumens
Efficiency:	N/A
Efficacy:	187.9 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):	94.7
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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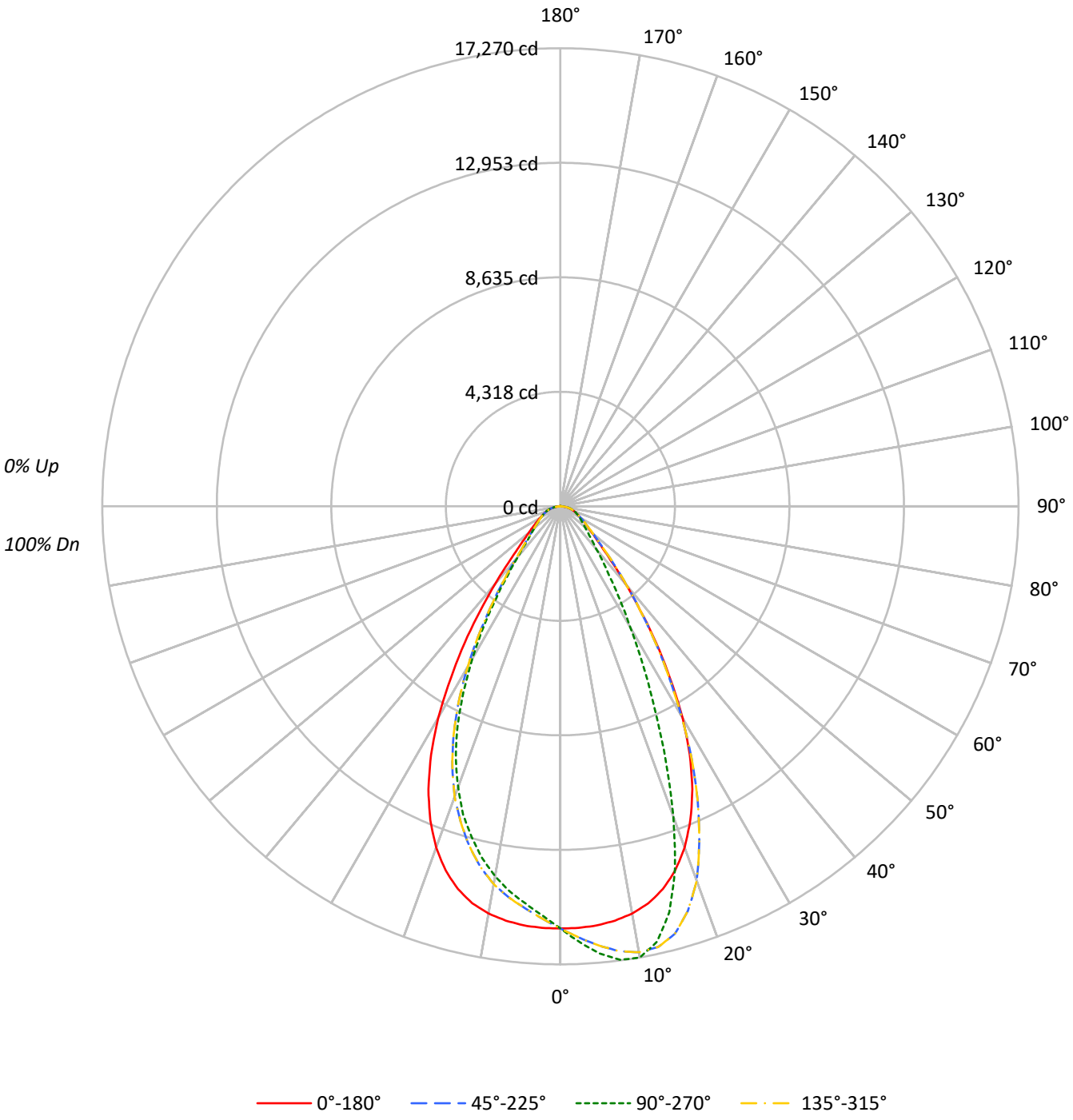
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	74742	74742	74742	74742
5°	74771	79767	74771	70891
10°	74338	82353	74338	67533
15°	72629	77047	72629	62803
20°	68403	62215	68403	56333
25°	60992	43426	60992	47560
30°	49919	28478	49919	35869
35°	36118	18604	36118	24088
40°	23581	12950	23581	15341
45°	15131	10144	15131	11054
50°	11385	8735	11385	9330
55°	9447	8086	9447	8369
60°	8347	7860	8347	7907
65°	7816	7786	7816	7754
70°	7696	7925	7696	7822
75°	7635	8134	7635	7889
80°	7467	8546	7467	7991
85°	6288	7942	6288	7576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 21273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1513.3	8.5
10°-20°	4117.1	23.1
20°-30°	4828.5	27.1
30°-40°	3358.0	18.9
40°-50°	1668.7	9.4
50°-60°	998.1	5.6
60°-70°	702.5	3.9
70°-80°	452.5	2.5
80°-90°	143.7	0.8
90°-100°	0.8	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	1.3	0.0
130°-140°	1.7	0.0
140°-150°	2.1	0.0
150°-160°	2.3	0.0
160°-170°	2.3	0.0
170°-180°	1.0	0.0
0°-30°	10459.0	58.8
0°-40°	13817.0	77.6
0°-60°	16483.8	92.6
0°-90°	17782.5	99.9
90°-120°	2.9	0.0
90°-150°	8.0	0.0
90°-180°	14.0	0.1
0°-180°	17796.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15916	15916	15916	15916	15916	
5°	15861	16921	15861	15038	15861	1505
15°	14939	15848	14939	12918	14939	4175
25°	11771	8381	11771	9179	11771	5329
35°	6300	3245	6300	4202	6300	3933
45°	2278	1527	2278	1664	2278	1864
55°	1154	988	1154	1022	1154	1055
65°	703	701	703	698	703	706
75°	421	448	421	435	421	442
85°	117	147	117	141	117	130
90°	0	2	0	0	0	6
95°	1	2	1	0	1	0
105°	1	3	1	1	1	1
115°	1	3	1	1	1	1
125°	1	3	1	1	1	1
135°	2	3	2	1	2	2
145°	4	4	4	3	4	2
155°	5	5	5	6	5	2
165°	8	10	8	8	8	2
175°	10	13	10	10	10	1
180°	11	11	11	11	11	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7
2.5°	15906.3	16112.0	16278.5	16388.4	16442.7	16388.4	16278.5	16112.0	15906.3	15701.9	15561.4
5°	15861.4	16273.2	16622.1	16850.4	16921.1	16850.4	16622.1	16273.2	15861.4	15472.2	15214.0
7.5°	15753.6	16395.3	16913.7	17180.2	17245.2	17180.2	16913.7	16395.3	15753.6	15202.6	14876.5
10°	15589.2	16472.3	17071.3	17262.2	17270.0	17262.2	17071.3	16472.3	15589.2	14846.9	14462.3
12.5°	15326.8	16444.8	17018.4	16955.8	16813.3	16955.8	17018.4	16444.8	15326.8	14412.4	13927.2
15°	14938.9	16282.1	16683.9	16173.8	15847.6	16173.8	16683.9	16282.1	14938.9	13825.6	13262.8
17.5°	14392.1	15977.7	15985.5	14976.5	14361.0	14976.5	15985.5	15977.7	14392.1	13108.2	12488.3
20°	13687.5	15489.5	15023.9	13178.4	12449.2	13178.4	15023.9	15489.5	13687.5	12260.0	11651.8
22.5°	12804.1	14831.1	13684.7	11369.5	10374.7	11369.5	13684.7	14831.1	12804.1	11273.7	10640.6
25°	11770.9	14024.4	12244.2	9398.5	8380.9	9398.5	12244.2	14024.4	11770.9	10098.4	9525.9
27.5°	10555.6	13002.0	10710.3	7680.1	6741.2	7680.1	10710.3	13002.0	10555.6	8885.0	8300.3
30°	9205.7	11691.2	9113.8	6116.3	5251.7	6116.3	9113.8	11691.2	9205.7	7521.7	6998.2
32.5°	7694.5	10406.4	7580.7	4900.7	4168.4	4900.7	7580.7	10406.4	7694.5	6220.7	5673.7
35°	6300.1	8799.0	6198.4	3850.8	3245.2	3850.8	6198.4	8799.0	6300.1	4992.6	4455.4
37.5°	4944.3	7280.2	4941.1	3100.8	2632.3	3100.8	4941.1	7280.2	4944.3	3881.6	3445.5
40°	3846.6	5692.5	3871.4	2475.3	2112.4	2475.3	3871.4	5692.5	3846.6	2953.3	2674.4
42.5°	2914.6	4352.7	3042.9	2031.5	1794.3	2031.5	3042.9	4352.7	2914.6	2326.9	2118.0
45°	2278.3	3203.1	2376.2	1714.0	1527.4	1714.0	2376.2	3203.1	2278.3	1874.0	1733.6
47.5°	1855.4	2475.6	1925.8	1470.1	1339.4	1470.1	1925.8	2475.6	1855.4	1585.0	1480.0
50°	1558.4	1899.6	1599.1	1283.3	1195.6	1283.3	1599.1	1899.6	1558.4	1357.3	1287.2
52.5°	1338.8	1549.2	1361.8	1143.7	1084.5	1143.7	1361.8	1549.2	1338.8	1187.5	1144.0
55°	1153.8	1302.4	1184.2	1028.5	987.6	1028.5	1184.2	1302.4	1153.8	1056.8	1024.6
57.5°	1013.2	1104.8	1028.5	930.2	903.1	930.2	1028.5	1104.8	1013.2	940.4	923.1
60°	888.7	956.8	907.6	844.6	836.9	844.6	907.6	956.8	888.7	846.1	834.7
62.5°	792.9	835.9	802.5	767.6	760.7	767.6	802.5	835.9	792.9	760.2	762.2
65°	703.4	743.4	717.2	698.4	700.7	698.4	717.2	743.4	703.4	688.2	691.5
67.5°	634.2	655.0	643.7	633.0	635.6	633.0	643.7	655.0	634.2	619.3	624.3
70°	560.5	582.9	571.3	572.7	577.2	572.7	571.3	582.9	560.5	556.0	559.9
72.5°	490.0	507.4	503.5	507.1	511.8	507.1	503.5	507.4	490.0	489.4	489.7
75°	420.8	433.9	435.7	440.8	448.3	440.8	435.7	433.9	420.8	416.3	421.7
77.5°	345.3	360.2	365.9	372.8	383.8	372.8	365.9	360.2	345.3	348.3	350.9
80°	276.1	283.0	295.5	300.5	316.0	300.5	295.5	283.0	276.1	271.0	274.9
82.5°	202.1	208.3	219.1	228.6	237.6	228.6	219.1	208.3	202.1	199.7	200.0
85°	116.7	126.3	133.4	144.8	147.4	144.8	133.4	126.3	116.7	119.4	116.7
87.5°	40.9	43.8	50.1	54.6	54.9	54.6	50.1	43.8	40.9	41.8	37.9
90°	0.3	0.6	0.9	1.7	2.4	1.7	0.9	0.6	0.3	0.3	0.3
92.5°	0.3	0.6	0.9	1.7	2.4	1.7	0.9	0.6	0.3	0.3	0.3
95°	0.6	0.6	0.9	1.7	2.4	1.7	0.9	0.6	0.6	0.3	0.3
97.5°	0.6	0.6	0.9	1.7	2.4	1.7	0.9	0.6	0.6	0.3	0.3
100°	0.6	0.6	0.9	1.7	2.4	1.7	0.9	0.6	0.6	0.6	0.3
102.5°	0.6	0.9	1.2	2.1	2.4	2.1	1.2	0.9	0.6	0.6	0.3
105°	0.6	0.9	1.2	2.1	2.7	2.1	1.2	0.9	0.6	0.6	0.3
107.5°	0.6	0.9	1.2	2.1	2.7	2.1	1.2	0.9	0.6	0.6	0.6
110°	0.6	0.9	1.2	2.1	2.7	2.1	1.2	0.9	0.6	0.6	0.6

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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°	0.6	0.9	1.2	2.1	*2.7*	2.1	1.2	0.9	0.6	0.6	0.6
115°	0.9	0.9	1.2	2.1	*2.7*	2.1	1.2	0.9	0.9	0.6	0.6
117.5°	0.9	0.9	1.2	2.1	*2.7*	2.1	1.2	0.9	0.9	0.9	0.6
120°	0.9	0.9	1.5	2.1	*2.7*	2.1	1.5	0.9	0.9	0.9	0.6
122.5°	1.2	1.2	1.5	2.4	*2.7*	2.4	1.5	1.2	1.2	1.2	0.9
125°	1.2	1.2	1.7	2.4	*3.0*	2.4	1.7	1.2	1.2	1.5	1.2
127.5°	1.5	1.5	1.7	2.4	*3.0*	2.4	1.7	1.5	1.5	1.5	1.2
130°	1.7	1.5	1.7	2.7	*3.0*	2.7	1.7	1.5	1.7	1.7	1.5
132.5°	2.1	1.7	2.1	3.0	*3.3*	3.0	2.1	1.7	2.1	2.4	2.1
135°	2.4	1.7	2.4	2.7	*3.3*	2.7	2.4	1.7	2.4	2.7	2.1
137.5°	2.7	2.1	2.4	3.0	*3.3*	3.0	2.4	2.1	2.7	3.0	2.7
140°	3.0	2.4	2.4	3.0	*3.6*	3.0	2.4	2.4	3.0	3.0	3.0
142.5°	3.3	2.7	2.7	3.3	*3.6*	3.3	2.7	2.7	3.3	3.3	3.3
145°	3.6	3.3	3.0	3.3	*3.9*	3.3	3.0	3.3	3.6	3.3	3.6
147.5°	3.6	3.3	3.3	3.6	*4.2*	3.6	3.3	3.3	3.6	3.6	3.9
150°	3.9	3.9	3.6	3.9	*4.5*	3.9	3.6	3.9	3.9	3.9	4.2
152.5°	4.2	4.2	4.2	4.5	*4.8*	4.5	4.2	4.2	4.2	4.2	4.5
155°	4.8	4.8	4.8	5.0	*5.3*	5.0	4.8	4.8	4.8	4.5	5.0
157.5°	5.3	5.6	5.6	6.0	*6.3*	6.0	5.6	5.6	5.3	5.3	5.6
160°	6.6	6.6	6.9	7.2	*7.5*	7.2	6.9	6.6	6.6	6.3	6.6
162.5°	7.2	7.2	7.8	8.0	*8.6*	8.0	7.8	7.2	7.2	7.2	7.2
165°	8.0	8.0	8.6	9.2	*9.9*	9.2	8.6	8.0	8.0	7.8	7.8
167.5°	8.6	8.6	9.2	10.2	*10.8*	10.2	9.2	8.6	8.6	8.3	8.3
170°	8.9	9.2	9.9	10.8	*11.3*	10.8	9.9	9.2	8.9	8.9	8.6
172.5°	9.9	9.9	10.8	11.6	*12.2*	11.6	10.8	9.9	9.9	9.5	9.5
175°	10.5	10.8	11.3	12.2	*12.8*	12.2	11.3	10.8	10.5	10.2	10.2
177.5°	10.5	11.1	11.6	12.5	*13.1*	12.5	11.6	11.1	10.5	10.2	10.2
180°	11.1	11.1	11.1	11.1	*11.1*	11.1	11.1	11.1	11.1	11.1	11.1

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	15915.7	15915.7	15915.7	15915.7	15915.7	15915.7
2.5°	15453.4	15443.2	15453.4	15561.4	15701.9	15906.3
5°	15094.3	15038.3	15094.3	15214.0	15472.2	15861.4
7.5°	14676.2	14643.7	14676.2	14876.5	15202.6	15753.6
10°	*14236.0*	*14162.3*	*14236.0*	*14462.3*	*14846.9*	*15589.2*
12.5°	13693.5	13595.8	13693.5	13927.2	14412.4	15326.8
15°	13003.4	12917.8	13003.4	13262.8	13825.6	14938.9
17.5°	12263.0	12185.4	12263.0	12488.3	13108.2	14392.1
20°	11333.1	11272.2	11333.1	11651.8	12260.0	13687.5
22.5°	10357.5	10300.5	10357.5	10640.6	11273.7	12804.1
25°	9209.6	9178.6	9209.6	9525.9	10098.4	11770.9
27.5°	7969.3	7916.5	7969.3	8300.3	8885.0	10555.6
30°	6702.2	6614.7	6702.2	6998.2	7521.7	9205.7
32.5°	5462.7	5399.7	5462.7	5673.7	6220.7	7694.5
35°	4264.8	4201.8	4264.8	4455.4	4992.6	6300.1
37.5°	3323.2	3211.9	3323.2	3445.5	3881.6	4944.3
40°	2520.4	2502.4	2520.4	2674.4	2953.3	3846.6
42.5°	2051.8	2003.1	2051.8	2118.0	2326.9	2914.6
45°	1683.5	1664.4	1683.5	1733.6	1874.0	2278.3
47.5°	1447.8	1456.1	1447.8	1480.0	1585.0	1855.4
50°	1272.0	1277.0	1272.0	1287.2	1357.3	1558.4
52.5°	1142.4	1138.0	1142.4	1144.0	1187.5	1338.8
55°	1027.8	1022.2	1027.8	1024.6	1056.8	1153.8
57.5°	927.5	931.7	927.5	923.1	940.4	1013.2
60°	838.0	841.9	838.0	834.7	846.1	888.7
62.5°	762.5	764.9	762.5	762.2	760.2	792.9
65°	695.1	697.8	695.1	691.5	688.2	703.4
67.5°	630.6	630.6	630.6	624.3	619.3	634.2
70°	570.0	569.7	570.0	559.9	556.0	560.5
72.5°	497.2	504.3	497.2	489.7	489.4	490.0
75°	426.5	434.8	426.5	421.7	416.3	420.8
77.5°	354.8	367.7	354.8	350.9	348.3	345.3
80°	281.4	295.5	281.4	274.9	271.0	276.1
82.5°	208.0	218.5	208.0	200.0	199.7	202.1
85°	123.8	140.6	123.8	116.7	119.4	116.7
87.5°	39.7	50.7	39.7	37.9	41.8	40.9
90°	0.3	0.3	0.3	0.3	0.3	0.3
92.5°	0.3	0.3	0.3	0.3	0.3	0.3
95°	0.3	0.3	0.3	0.3	0.3	0.6
97.5°	0.3	0.6	0.3	0.3	0.3	0.6
100°	0.3	0.6	0.3	0.3	0.6	0.6
102.5°	0.3	0.6	0.3	0.3	0.6	0.6
105°	0.3	0.6	0.3	0.3	0.6	0.6
107.5°	0.3	0.6	0.3	0.6	0.6	0.6
110°	0.3	0.6	0.3	0.6	0.6	0.6

TEST NUMBER: P1432594
CATALOG NUMBER: EHBR1-18-UNV-TASM-L835

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.6	0.3	0.6	0.6	0.6
115°	0.3	0.6	0.3	0.6	0.6	0.9
117.5°	0.3	0.6	0.3	0.6	0.9	0.9
120°	0.3	0.6	0.3	0.6	0.9	0.9
122.5°	0.6	0.6	0.6	0.9	1.2	1.2
125°	0.6	0.9	0.6	1.2	1.5	1.2
127.5°	0.6	0.9	0.6	1.2	1.5	1.5
130°	0.9	0.9	0.9	1.5	1.7	1.7
132.5°	1.2	1.2	1.2	2.1	2.4	2.1
135°	1.5	1.2	1.5	2.1	2.7	2.4
137.5°	1.7	1.5	1.7	2.7	3.0	2.7
140°	2.4	2.1	2.4	3.0	3.0	3.0
142.5°	2.7	2.7	2.7	3.3	3.3	3.3
145°	3.3	3.3	3.3	3.6	3.3	3.6
147.5°	3.9	3.9	3.9	3.9	3.6	3.6
150°	4.5	4.5	4.5	4.2	3.9	3.9
152.5°	4.8	5.0	4.8	4.5	4.2	4.2
155°	5.3	5.6	5.3	5.0	4.5	4.8
157.5°	6.0	6.6	6.0	5.6	5.3	5.3
160°	6.9	7.2	6.9	6.6	6.3	6.6
162.5°	7.5	7.8	7.5	7.2	7.2	7.2
165°	8.0	8.3	8.0	7.8	7.8	8.0
167.5°	8.3	8.3	8.3	8.3	8.3	8.6
170°	8.6	8.9	8.6	8.6	8.9	8.9
172.5°	9.2	9.5	9.2	9.5	9.5	9.9
175°	9.9	10.2	9.9	10.2	10.2	10.5
177.5°	10.2	10.5	10.2	10.2	10.2	10.5
180°	11.1	11.1	11.1	11.1	11.1	11.1

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

Scaled Data Report

TEST NUMBER: P1432594
CATALOG NUMBER: EHBR1-18-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	16.64	17.85	17.01	18.16	18.48	15.96	17.16	16.32	17.48	17.80
	3H	18.28	19.35	18.66	19.68	20.05	17.91	18.98	18.29	19.31	19.68
	4H	18.98	19.98	19.39	20.34	20.72	18.77	19.77	19.17	20.12	20.51
	6H	19.55	20.47	19.97	20.85	21.24	19.52	20.44	19.94	20.81	21.21
	8H	19.76	20.63	20.19	21.02	21.43	19.81	20.68	20.24	21.07	21.48
	12H	19.88	20.71	20.32	21.10	21.53	20.00	20.83	20.44	21.22	21.65
4H	2H	17.10	18.10	17.51	18.46	18.84	16.59	17.59	16.99	17.94	18.33
	3H	19.01	19.84	19.43	20.24	20.65	18.76	19.59	19.18	20.00	20.40
	4H	19.87	20.61	20.31	21.03	21.48	19.76	20.50	20.20	20.92	21.37
	6H	20.59	21.23	21.06	21.68	22.15	20.66	21.29	21.12	21.74	22.21
	8H	20.85	21.45	21.32	21.90	22.37	21.00	21.60	21.47	22.05	22.52
	12H	21.02	21.54	21.51	22.03	22.51	21.25	21.78	21.74	22.26	22.74
8H	4H	20.18	20.77	20.65	21.22	21.70	20.10	20.70	20.57	21.15	21.62
	6H	21.05	21.54	21.56	22.04	22.52	21.16	21.64	21.66	22.14	22.62
	8H	21.41	21.84	21.93	22.36	22.85	21.60	22.04	22.13	22.55	23.05
	12H	21.66	22.04	22.18	22.54	23.12	21.96	22.34	22.48	22.84	23.41
12H	4H	20.21	20.73	20.70	21.22	21.69	20.13	20.66	20.62	21.14	21.62
	6H	21.12	21.56	21.65	22.08	22.57	21.23	21.66	21.75	22.18	22.67
	8H	21.54	21.92	22.06	22.42	22.99	21.74	22.12	22.26	22.62	23.19

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

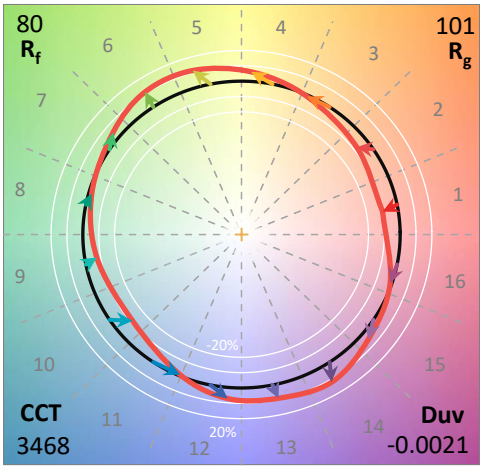
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

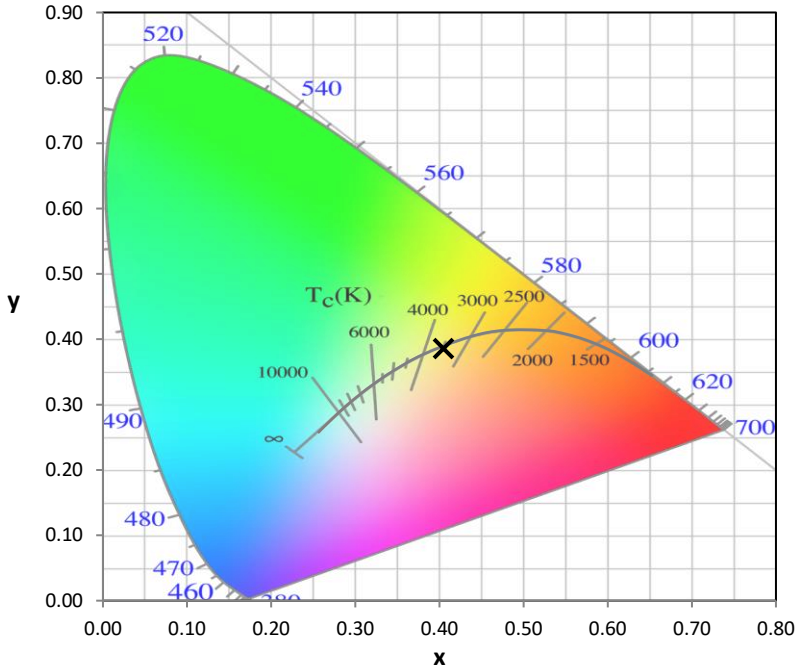
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

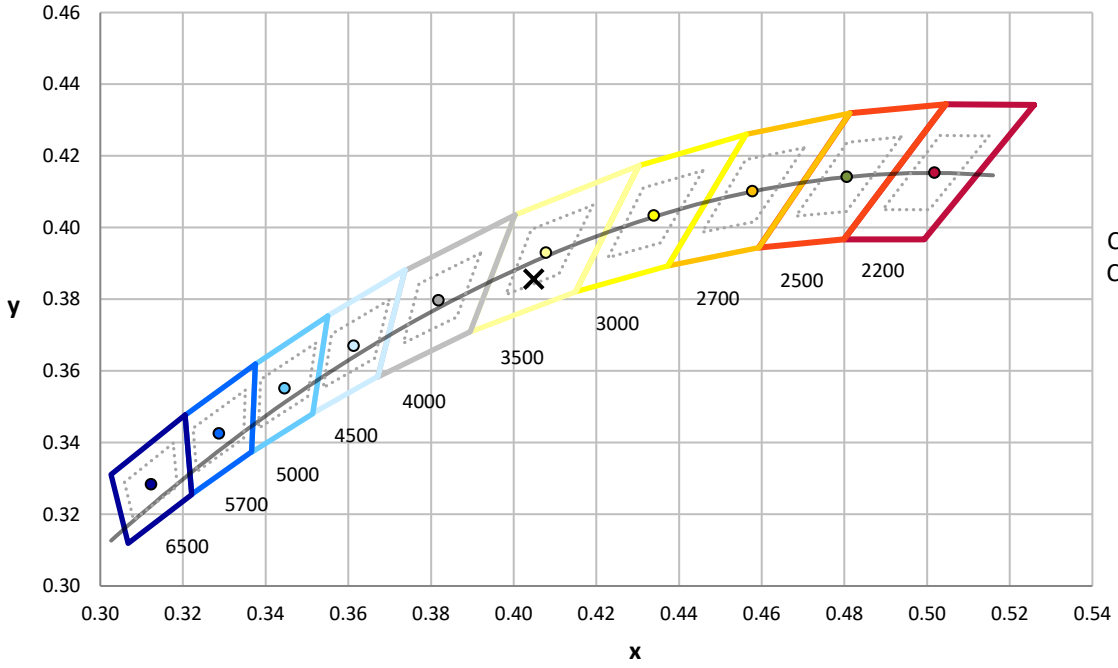
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

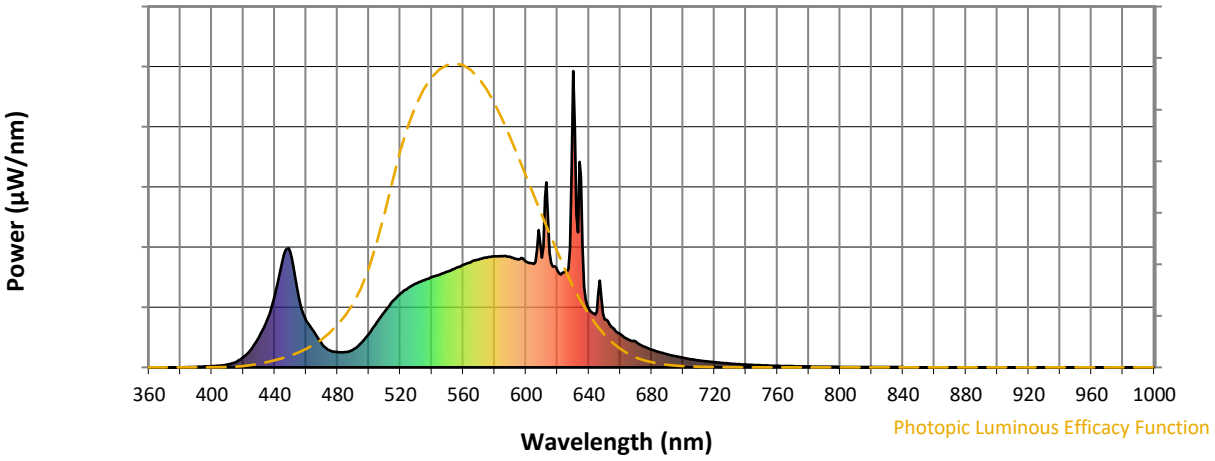


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

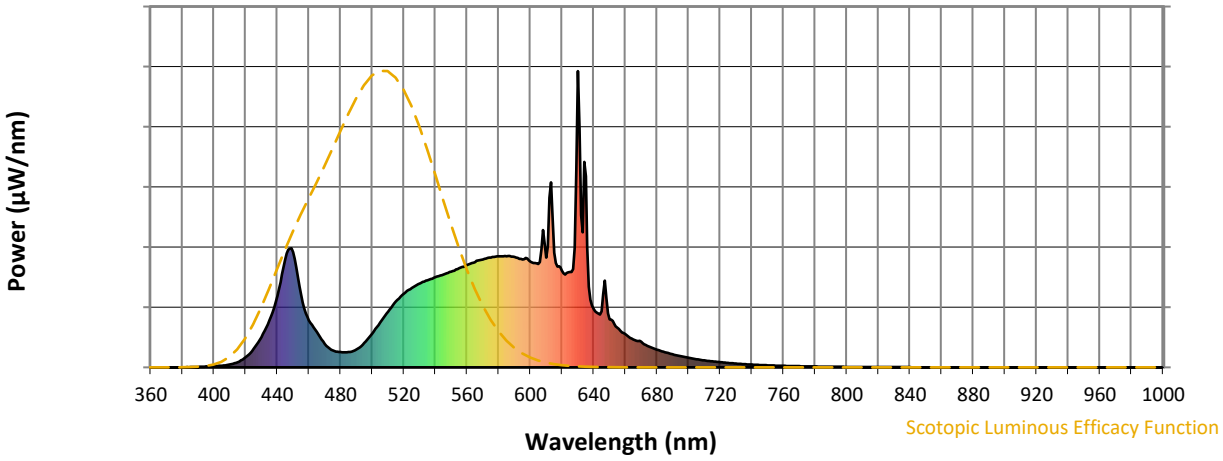


Photopic Lumens: NR

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

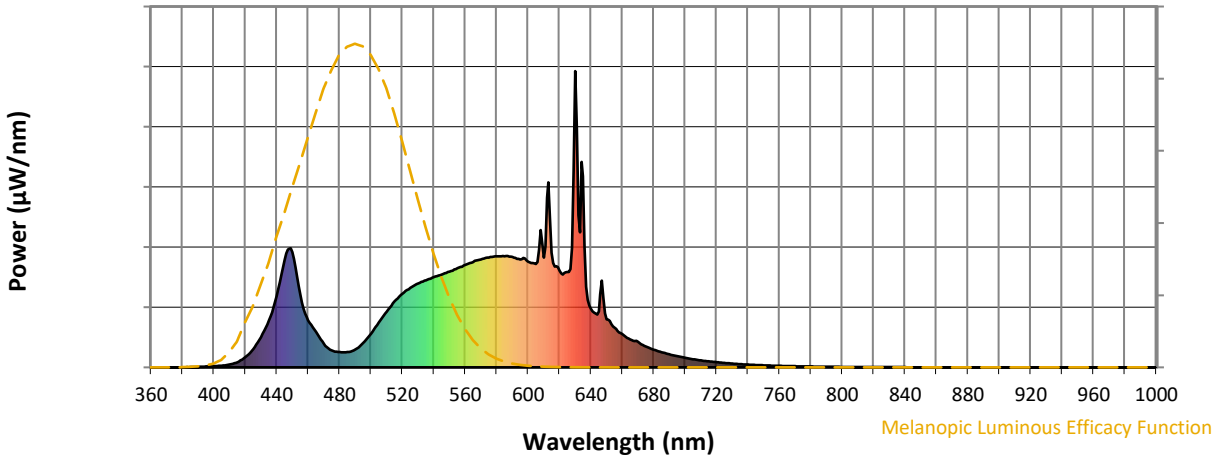


Scotopic Lumens: NR **S/P: 1.43**

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			

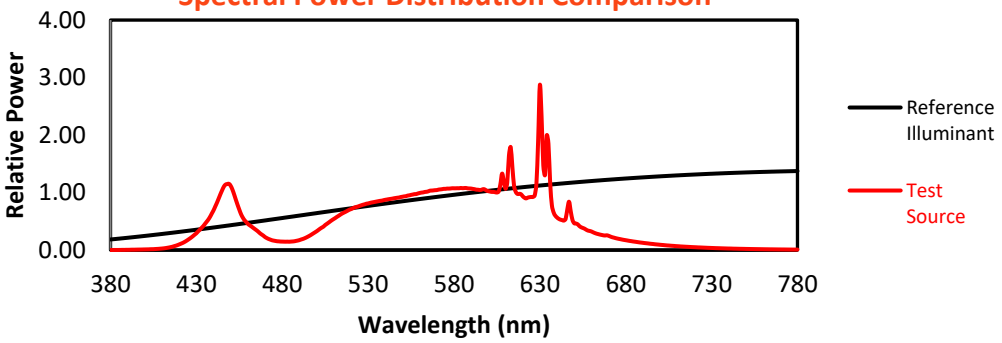
REPORT NUMBER: SP1-2506-472-3

TM-30-18

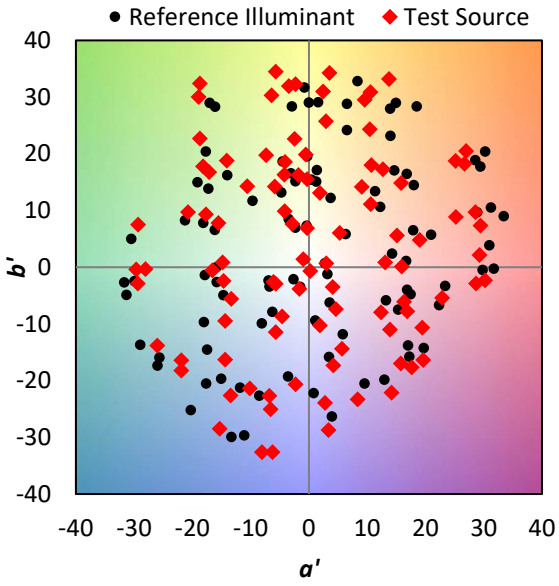
Summary

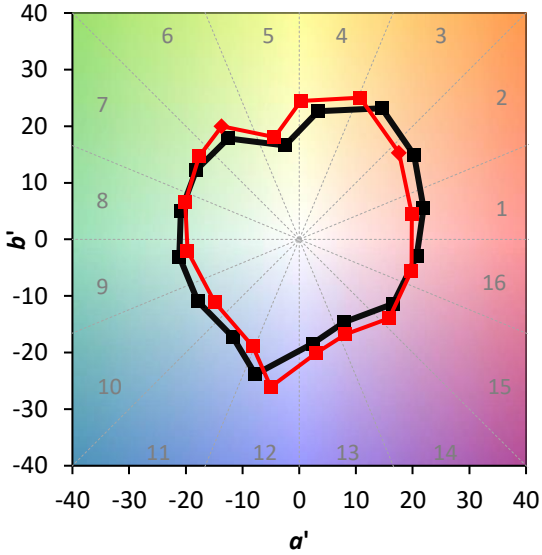
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

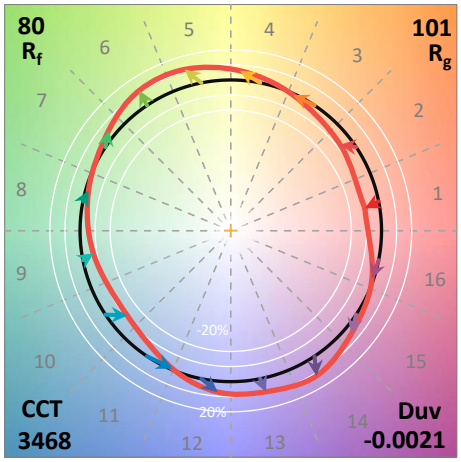
Spectral Power Distribution Comparison

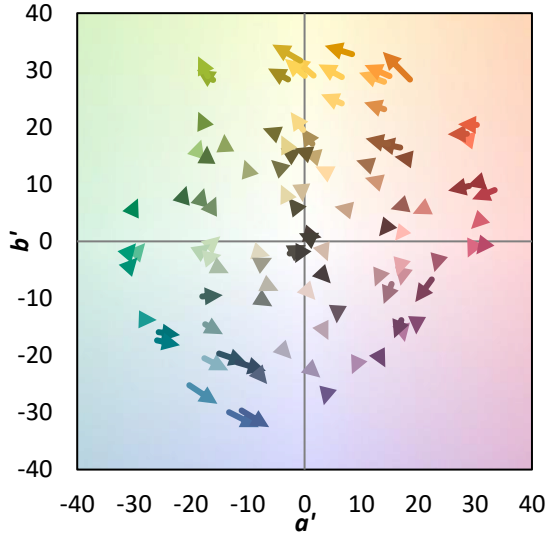


Color Vector Graphics







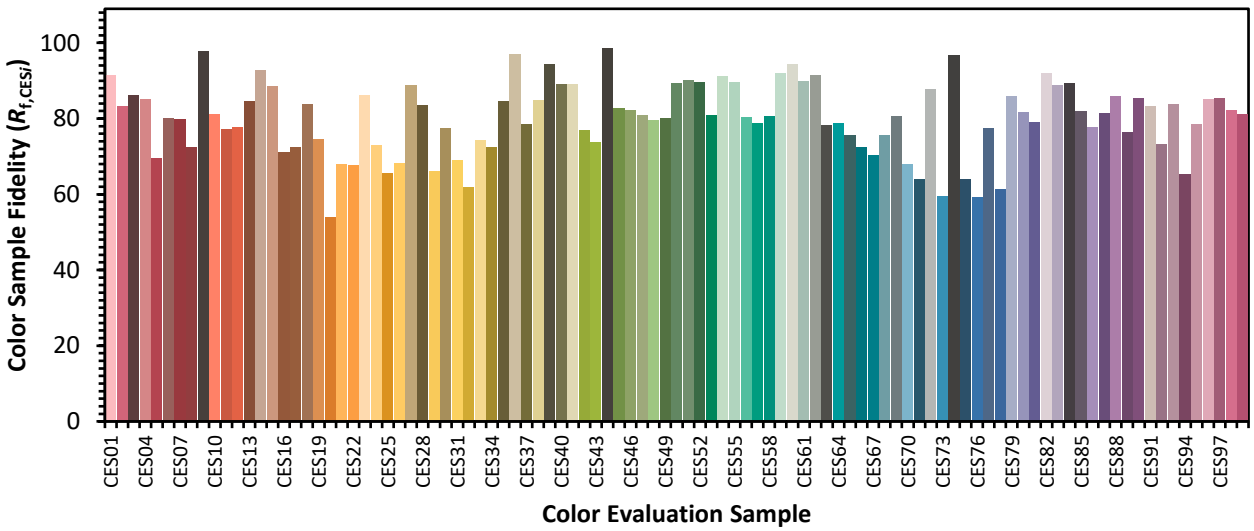


REPORT NUMBER: SP1-2506-472-3

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

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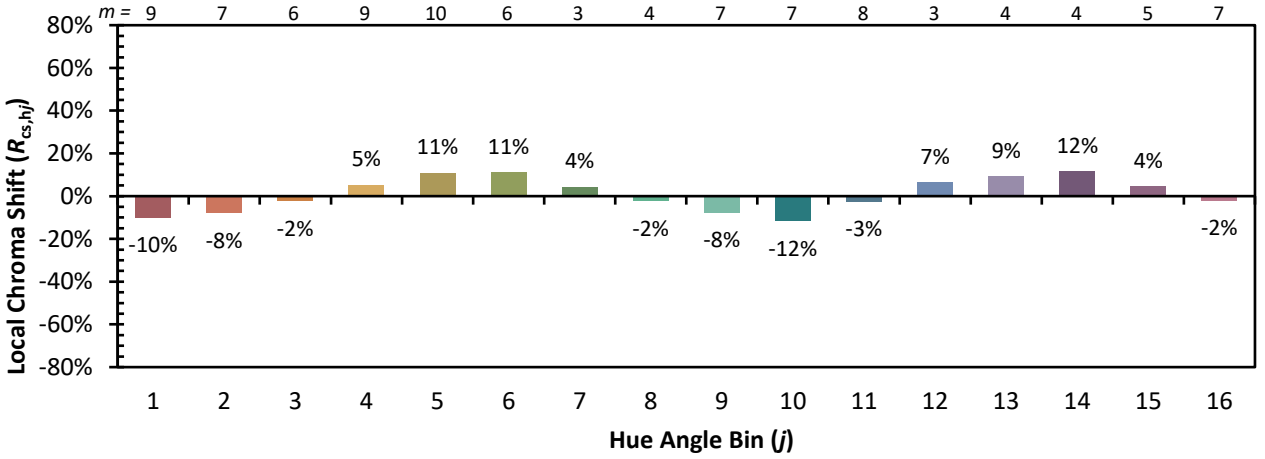
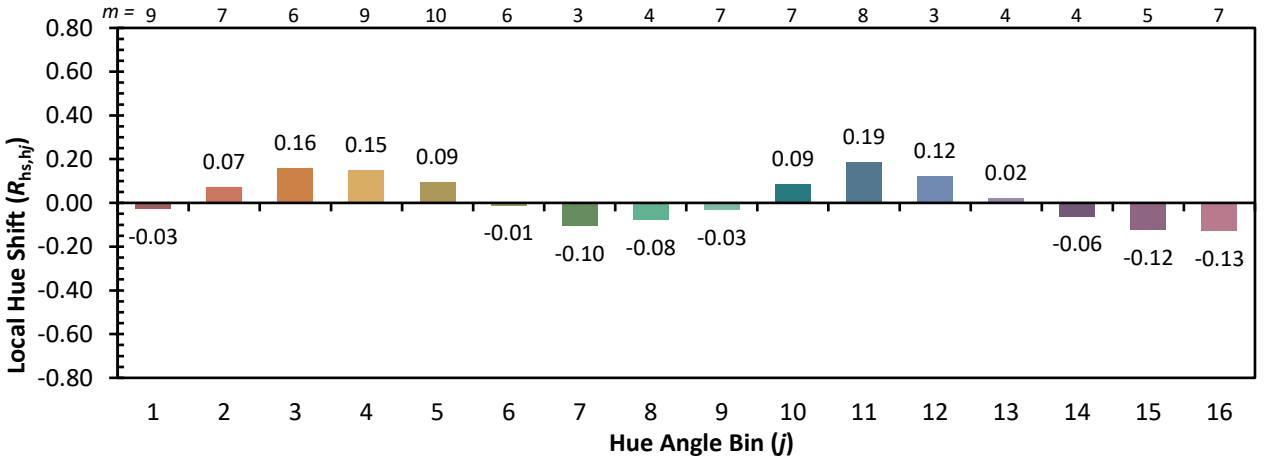
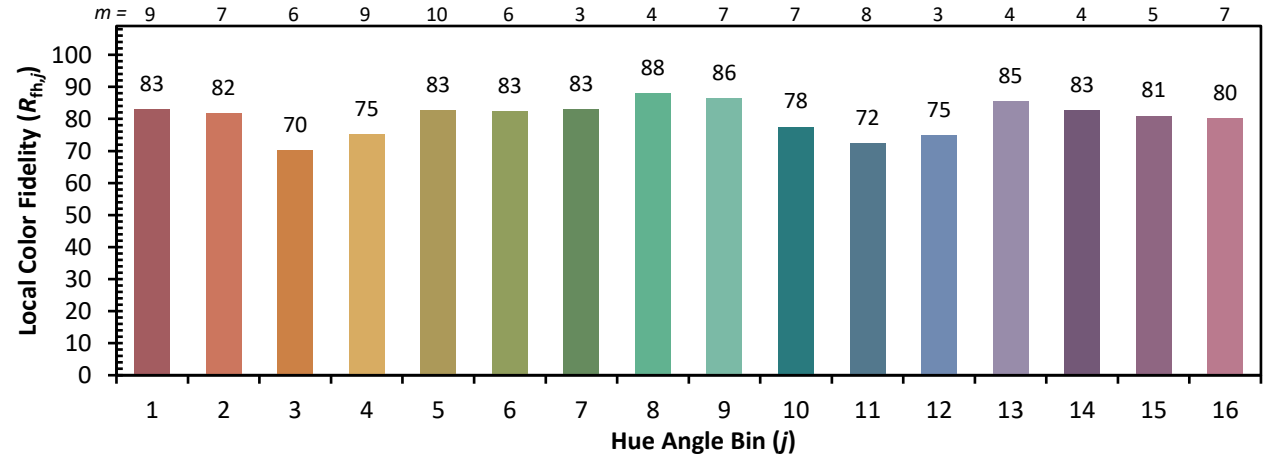
Color Rendition by Hue-Angle Bin







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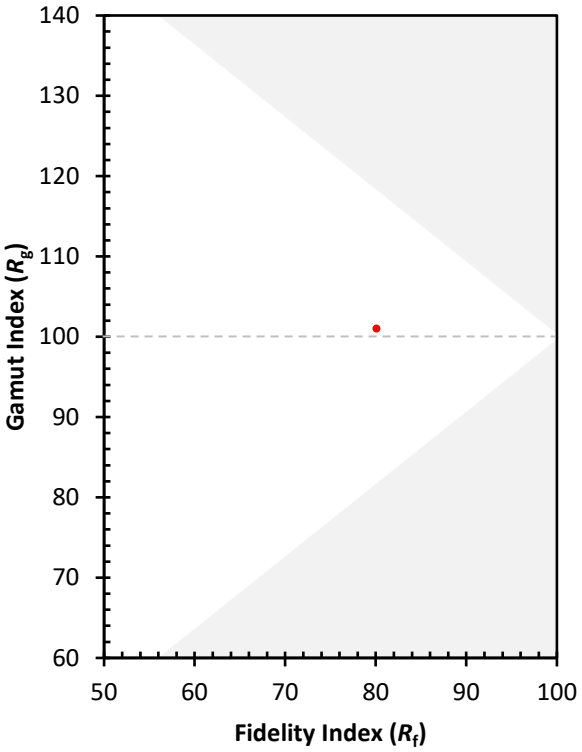
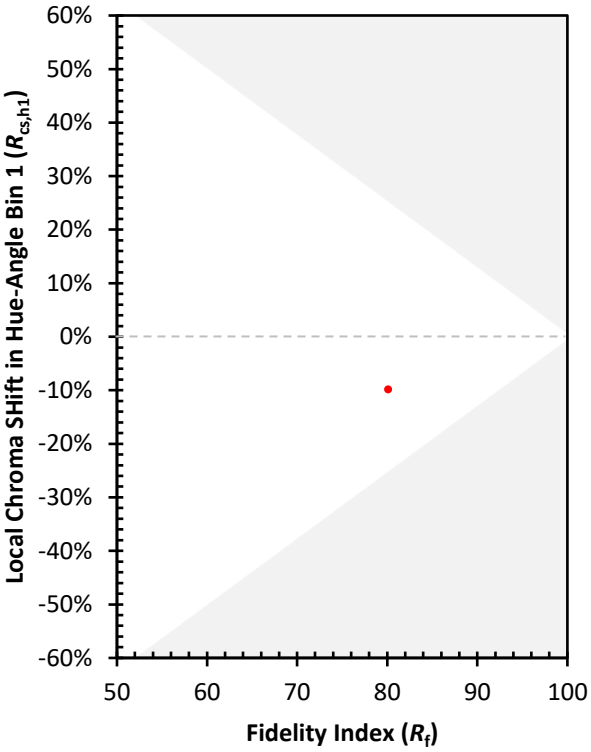
Measure Comparisons





(END OF REPORT)