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: P1431651

Luminaire Tested: EHBR1-12-UNV-TASM-L950

Issue Date: 3/13/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1431651
	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:	EHBR1-12-UNV-TASM-L950
Description:	Elevate Round Highbay at, 12000 lumens, 5000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11423.4 lumens
Efficiency:	N/A
Efficacy:	176.6 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):	64.7
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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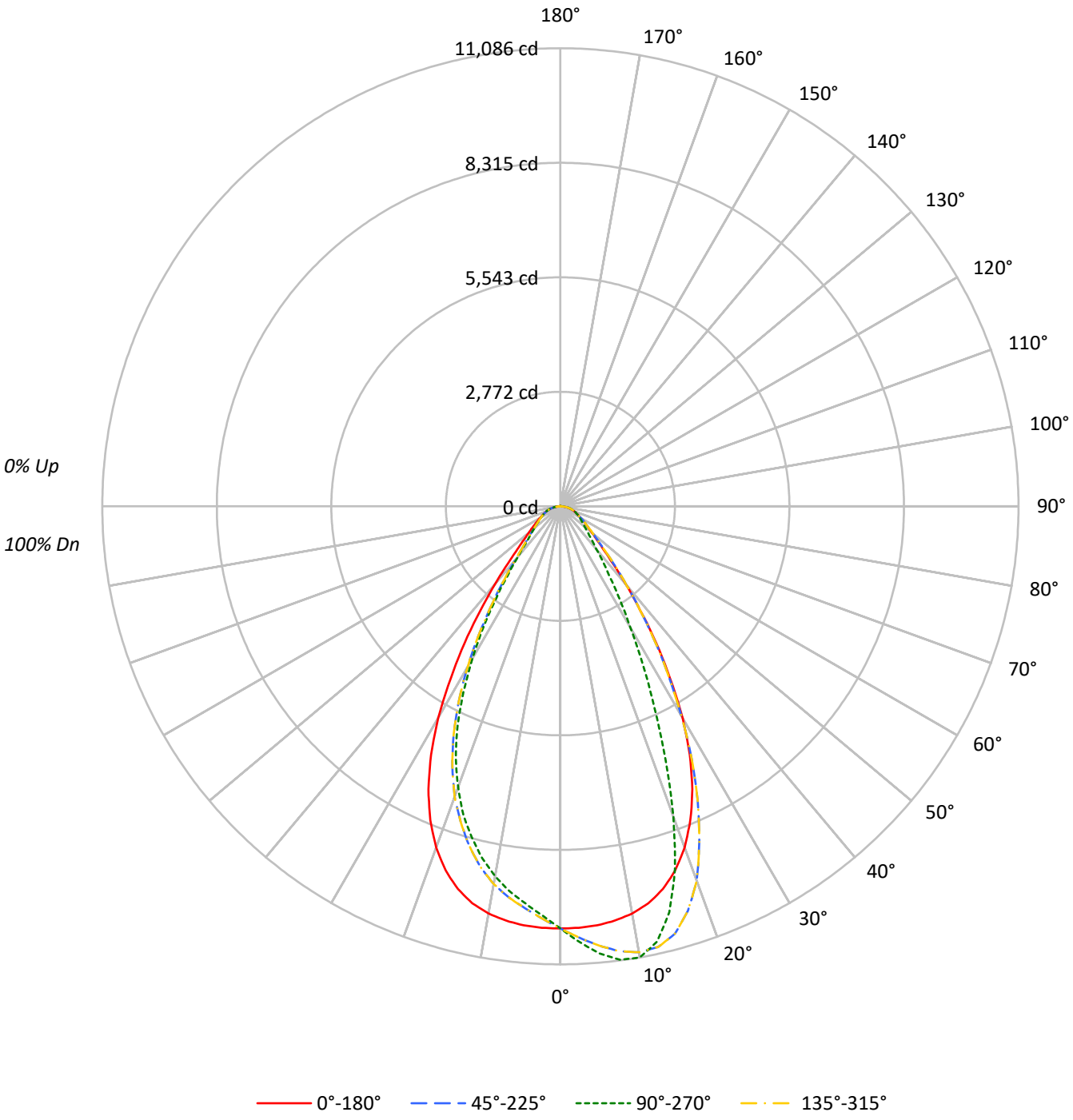
Luminous Intensity Polar Plot



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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°	47977	47977	47977	47977
5°	47996	51203	47996	45505
10°	47717	52863	47717	43350
15°	46621	49457	46621	40314
20°	43908	39936	43908	36160
25°	39151	27876	39151	30529
30°	32044	18280	32044	23025
35°	23184	11943	23184	15462
40°	15137	8312	15137	9847
45°	9712	6512	9712	7096
50°	7309	5606	7309	5989
55°	6064	5190	6064	5372
60°	5358	5045	5358	5076
65°	5017	4998	5017	4977
70°	4940	5087	4940	5021
75°	4901	5220	4901	5064
80°	4792	5487	4792	5127
85°	4036	5103	4036	4860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 13655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.4	8.5
10°-20°	2642.8	23.1
20°-30°	3099.5	27.1
30°-40°	2155.5	18.9
40°-50°	1071.2	9.4
50°-60°	640.7	5.6
60°-70°	450.9	3.9
70°-80°	290.5	2.5
80°-90°	92.3	0.8
90°-100°	0.5	0.0
100°-110°	0.6	0.0
110°-120°	0.7	0.0
120°-130°	0.8	0.0
130°-140°	1.1	0.0
140°-150°	1.4	0.0
150°-160°	1.5	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	6713.7	58.8
0°-40°	8869.2	77.6
0°-60°	10581.0	92.6
0°-90°	11414.7	99.9
90°-120°	1.8	0.0
90°-150°	5.1	0.0
90°-180°	9.0	0.1
0°-180°	11423.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10216	10216	10216	10216	10216	
5°	10182	10862	10182	9653	10182	966
15°	9589	10173	9589	8292	9589	2680
25°	7556	5380	7556	5892	7556	3421
35°	4044	2083	4044	2697	4044	2525
45°	1462	980	1462	1068	1462	1197
55°	741	634	741	656	741	677
65°	452	450	452	448	452	453
75°	270	288	270	279	270	284
85°	75	95	75	90	75	83
90°	0	2	0	0	0	4
95°	0	2	0	0	0	0
105°	0	2	0	0	0	0
115°	1	2	1	0	1	1
125°	1	2	1	1	1	1
135°	2	2	2	1	2	1
145°	2	2	2	2	2	1
155°	3	3	3	4	3	1
165°	5	6	5	5	5	1
175°	7	8	7	6	7	1
180°	7	7	7	7	7	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4
2.5°	10210.4	10342.4	10449.3	10519.8	10554.6	10519.8	10449.3	10342.4	10210.4	10079.2	9989.0
5°	10181.5	10445.8	10669.9	10816.4	10861.8	10816.4	10669.9	10445.8	10181.5	9931.7	9766.0
7.5°	10112.4	10524.3	10857.0	11028.0	11069.8	11028.0	10857.0	10524.3	10112.4	9758.7	9549.3
10°	10006.7	10573.7	10958.2	11080.7	11085.7	11080.7	10958.2	10573.7	10006.7	9530.4	9283.4
12.5°	9838.4	10556.0	10924.2	10884.0	10792.6	10884.0	10924.2	10556.0	9838.4	9251.4	8939.9
15°	9589.4	10451.6	10709.4	10382.1	10172.7	10382.1	10709.4	10451.6	9589.4	8874.8	8513.5
17.5°	9238.4	10256.2	10261.2	9613.4	9218.5	9613.4	10261.2	10256.2	9238.4	8414.2	8016.4
20°	8786.1	9942.8	9643.9	8459.3	7991.2	8459.3	9643.9	9942.8	8786.1	7869.8	7479.4
22.5°	8219.0	9520.2	8784.4	7298.2	6659.6	7298.2	8784.4	9520.2	8219.0	7236.7	6830.3
25°	7555.8	9002.4	7859.7	6033.0	5379.8	6033.0	7859.7	9002.4	7555.8	6482.2	6114.8
27.5°	6775.7	8346.0	6875.0	4930.0	4327.3	4930.0	6875.0	8346.0	6775.7	5703.3	5328.0
30°	5909.3	7504.6	5850.3	3926.1	3371.1	3926.1	5850.3	7504.6	5909.3	4828.2	4492.2
32.5°	4939.1	6680.0	4866.1	3145.8	2675.7	3145.8	4866.1	6680.0	4939.1	3993.1	3641.9
35°	4044.1	5648.2	3978.7	2471.8	2083.2	2471.8	3978.7	5648.2	4044.1	3204.8	2860.0
37.5°	3173.8	4673.3	3171.7	1990.4	1689.7	1990.4	3171.7	4673.3	3173.8	2491.6	2211.7
40°	2469.2	3654.0	2485.1	1588.9	1355.9	1588.9	2485.1	3654.0	2469.2	1895.8	1716.7
42.5°	1870.9	2794.1	1953.3	1304.0	1151.7	1304.0	1953.3	2794.1	1870.9	1493.7	1359.6
45°	1462.4	2056.1	1525.3	1100.2	980.5	1100.2	1525.3	2056.1	1462.4	1202.9	1112.8
47.5°	1191.0	1589.1	1236.2	943.7	859.8	943.7	1236.2	1589.1	1191.0	1017.5	950.0
50°	1000.4	1219.4	1026.5	823.8	767.4	823.8	1026.5	1219.4	1000.4	871.2	826.3
52.5°	859.4	994.4	874.1	734.1	696.2	734.1	874.1	994.4	859.4	762.2	734.3
55°	740.6	836.0	760.2	660.1	633.9	660.1	760.2	836.0	740.6	678.3	657.6
57.5°	650.4	709.2	660.1	597.1	579.7	597.1	660.1	709.2	650.4	603.6	592.5
60°	570.5	614.1	582.6	542.1	537.2	542.1	582.6	614.1	570.5	543.1	535.8
62.5°	509.0	536.6	515.1	492.7	488.3	492.7	515.1	536.6	509.0	488.0	489.3
65°	451.5	477.2	460.4	448.3	449.8	448.3	460.4	477.2	451.5	441.8	443.8
67.5°	407.1	420.5	413.2	406.3	408.1	406.3	413.2	420.5	407.1	397.5	400.7
70°	359.8	374.2	366.6	367.7	370.5	367.7	366.6	374.2	359.8	356.9	359.4
72.5°	314.6	325.7	323.1	325.5	328.5	325.5	323.1	325.7	314.6	314.1	314.4
75°	270.1	278.5	279.7	282.9	287.7	282.9	279.7	278.5	270.1	267.2	270.7
77.5°	221.7	231.3	234.9	239.2	246.4	239.2	234.9	231.3	221.7	223.5	225.3
80°	177.2	181.6	189.6	192.9	202.9	192.9	189.6	181.6	177.2	173.9	176.4
82.5°	129.7	133.7	140.6	146.7	152.5	146.7	140.6	133.7	129.7	128.1	128.3
85°	74.9	81.0	85.7	92.9	94.7	92.9	85.7	81.0	74.9	76.7	74.9
87.5°	26.2	28.2	32.1	35.0	35.2	35.0	32.1	28.2	26.2	26.9	24.3
90°	0.2	0.4	0.6	1.1	1.5	1.1	0.6	0.4	0.2	0.2	0.2
92.5°	0.2	0.4	0.6	1.1	1.5	1.1	0.6	0.4	0.2	0.2	0.2
95°	0.4	0.4	0.6	1.1	1.5	1.1	0.6	0.4	0.4	0.2	0.2
97.5°	0.4	0.4	0.6	1.1	1.5	1.1	0.6	0.4	0.4	0.2	0.2
100°	0.4	0.4	0.6	1.1	1.5	1.1	0.6	0.4	0.4	0.4	0.2
102.5°	0.4	0.6	0.7	1.3	1.5	1.3	0.7	0.6	0.4	0.4	0.2
105°	0.4	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.4	0.4	0.2
107.5°	0.4	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.4	0.4	0.4
110°	0.4	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.4	0.4	0.4

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CATALOG NUMBER: EHBR1-12-UNV-TASM-L950

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.4	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.4	0.4	0.4
115°	0.6	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.6	0.4	0.4
117.5°	0.6	0.6	0.7	1.3	1.8	1.3	0.7	0.6	0.6	0.6	0.4
120°	0.6	0.6	0.9	1.3	1.8	1.3	0.9	0.6	0.6	0.6	0.4
122.5°	0.7	0.7	0.9	1.5	1.8	1.5	0.9	0.7	0.7	0.7	0.6
125°	0.7	0.7	1.1	1.5	2.0	1.5	1.1	0.7	0.7	0.9	0.7
127.5°	0.9	0.9	1.1	1.5	2.0	1.5	1.1	0.9	0.9	0.9	0.7
130°	1.1	0.9	1.1	1.8	2.0	1.8	1.1	0.9	1.1	1.1	0.9
132.5°	1.3	1.1	1.3	2.0	2.1	2.0	1.3	1.1	1.3	1.5	1.3
135°	1.5	1.1	1.5	1.8	2.1	1.8	1.5	1.1	1.5	1.8	1.3
137.5°	1.8	1.3	1.5	2.0	2.1	2.0	1.5	1.3	1.8	2.0	1.8
140°	2.0	1.5	1.5	2.0	2.3	2.0	1.5	1.5	2.0	2.0	2.0
142.5°	2.1	1.8	1.8	2.1	2.3	2.1	1.8	1.8	2.1	2.1	2.1
145°	2.3	2.1	2.0	2.1	2.5	2.1	2.0	2.1	2.3	2.1	2.3
147.5°	2.3	2.1	2.1	2.3	2.7	2.3	2.1	2.1	2.3	2.3	2.5
150°	2.5	2.5	2.3	2.5	2.9	2.5	2.3	2.5	2.5	2.5	2.7
152.5°	2.7	2.7	2.7	2.9	3.1	2.9	2.7	2.7	2.7	2.7	2.9
155°	3.1	3.1	3.1	3.3	3.4	3.3	3.1	3.1	3.1	2.9	3.3
157.5°	3.4	3.6	3.6	3.8	4.0	3.8	3.6	3.6	3.4	3.4	3.6
160°	4.2	4.2	4.4	4.6	4.8	4.6	4.4	4.2	4.2	4.0	4.2
162.5°	4.6	4.6	5.0	5.2	5.6	5.2	5.0	4.6	4.6	4.6	4.6
165°	5.2	5.2	5.6	5.9	6.3	5.9	5.6	5.2	5.2	5.0	5.0
167.5°	5.6	5.6	5.9	6.5	6.9	6.5	5.9	5.6	5.6	5.4	5.4
170°	5.8	5.9	6.3	6.9	7.2	6.9	6.3	5.9	5.8	5.8	5.6
172.5°	6.3	6.3	6.9	7.4	7.9	7.4	6.9	6.3	6.3	6.1	6.1
175°	6.7	6.9	7.2	7.9	8.3	7.9	7.2	6.9	6.7	6.5	6.5
177.5°	6.7	7.1	7.4	8.1	8.5	8.1	7.4	7.1	6.7	6.5	6.5
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4
2.5°	9919.6	9913.1	9919.6	9989.0	10079.2	10210.4
5°	9689.2	9653.1	9689.2	9766.0	9931.7	10181.5
7.5°	9420.8	9399.8	9420.8	9549.3	9758.7	10112.4
10°	*9138.2*	*9090.9*	*9138.2*	*9283.4*	*9530.4*	*10006.7*
12.5°	8789.9	8727.3	8789.9	8939.9	9251.4	9838.4
15°	8347.0	8292.1	8347.0	8513.5	8874.8	9589.4
17.5°	7871.7	7821.9	7871.7	8016.4	8414.2	9238.4
20°	7274.8	7235.7	7274.8	7479.4	7869.8	8786.1
22.5°	6648.6	6611.9	6648.6	6830.3	7236.7	8219.0
25°	5911.8	5891.8	5911.8	6114.8	6482.2	7555.8
27.5°	5115.5	5081.7	5115.5	5328.0	5703.3	6775.7
30°	4302.2	4246.1	4302.2	4492.2	4828.2	5909.3
32.5°	3506.6	3466.2	3506.6	3641.9	3993.1	4939.1
35°	2737.5	2697.1	2737.5	2860.0	3204.8	4044.1
37.5°	2133.2	2061.7	2133.2	2211.7	2491.6	3173.8
40°	1617.9	1606.3	1617.9	1716.7	1895.8	2469.2
42.5°	1317.0	1285.8	1317.0	1359.6	1493.7	1870.9
45°	1080.7	1068.4	1080.7	1112.8	1202.9	1462.4
47.5°	929.3	934.7	929.3	950.0	1017.5	1191.0
50°	816.5	819.8	816.5	826.3	871.2	1000.4
52.5°	733.3	730.5	733.3	734.3	762.2	859.4
55°	659.8	656.1	659.8	657.6	678.3	740.6
57.5°	595.4	598.1	595.4	592.5	603.6	650.4
60°	538.0	540.5	538.0	535.8	543.1	570.5
62.5°	489.5	491.0	489.5	489.3	488.0	509.0
65°	446.2	447.9	446.2	443.8	441.8	451.5
67.5°	404.8	404.8	404.8	400.7	397.5	407.1
70°	365.9	365.7	365.9	359.4	356.9	359.8
72.5°	319.2	323.8	319.2	314.4	314.1	314.6
75°	273.7	279.1	273.7	270.7	267.2	270.1
77.5°	227.8	236.0	227.8	225.3	223.5	221.7
80°	180.6	189.6	180.6	176.4	173.9	177.2
82.5°	133.5	140.2	133.5	128.3	128.1	129.7
85°	79.5	90.2	79.5	74.9	76.7	74.9
87.5°	25.5	32.6	25.5	24.3	26.9	26.2
90°	0.2	0.2	0.2	0.2	0.2	0.2
92.5°	0.2	0.2	0.2	0.2	0.2	0.2
95°	0.2	0.2	0.2	0.2	0.2	0.4
97.5°	0.2	0.4	0.2	0.2	0.2	0.4
100°	0.2	0.4	0.2	0.2	0.4	0.4
102.5°	0.2	0.4	0.2	0.2	0.4	0.4
105°	0.2	0.4	0.2	0.2	0.4	0.4
107.5°	0.2	0.4	0.2	0.4	0.4	0.4
110°	0.2	0.4	0.2	0.4	0.4	0.4

TEST NUMBER: P1431651
CATALOG NUMBER: EHBR1-12-UNV-TASM-L950

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.2	0.4	0.2	0.4	0.4	0.4
115°	0.2	0.4	0.2	0.4	0.4	0.6
117.5°	0.2	0.4	0.2	0.4	0.6	0.6
120°	0.2	0.4	0.2	0.4	0.6	0.6
122.5°	0.4	0.4	0.4	0.6	0.7	0.7
125°	0.4	0.6	0.4	0.7	0.9	0.7
127.5°	0.4	0.6	0.4	0.7	0.9	0.9
130°	0.6	0.6	0.6	0.9	1.1	1.1
132.5°	0.7	0.7	0.7	1.3	1.5	1.3
135°	0.9	0.7	0.9	1.3	1.8	1.5
137.5°	1.1	0.9	1.1	1.8	2.0	1.8
140°	1.5	1.3	1.5	2.0	2.0	2.0
142.5°	1.8	1.8	1.8	2.1	2.1	2.1
145°	2.1	2.1	2.1	2.3	2.1	2.3
147.5°	2.5	2.5	2.5	2.5	2.3	2.3
150°	2.9	2.9	2.9	2.7	2.5	2.5
152.5°	3.1	3.3	3.1	2.9	2.7	2.7
155°	3.4	3.6	3.4	3.3	2.9	3.1
157.5°	3.8	4.2	3.8	3.6	3.4	3.4
160°	4.4	4.6	4.4	4.2	4.0	4.2
162.5°	4.8	5.0	4.8	4.6	4.6	4.6
165°	5.2	5.4	5.2	5.0	5.0	5.2
167.5°	5.4	5.4	5.4	5.4	5.4	5.6
170°	5.6	5.8	5.6	5.6	5.8	5.8
172.5°	5.9	6.1	5.9	6.1	6.1	6.3
175°	6.3	6.5	6.3	6.5	6.5	6.7
177.5°	6.5	6.7	6.5	6.5	6.5	6.7
180°	7.1	7.1	7.1	7.1	7.1	7.1

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

Scaled Data Report

TEST NUMBER: P1431651
CATALOG NUMBER: EHBR1-12-UNV-TASM-L950

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	15.10	16.31	15.47	16.62	16.94	14.42	15.62	14.78	15.94	16.26
	3H	16.74	17.81	17.12	18.14	18.51	16.37	17.44	16.75	17.77	18.14
	4H	17.44	18.44	17.85	18.80	19.18	17.23	18.23	17.63	18.58	18.97
	6H	18.01	18.93	18.43	19.31	19.70	17.98	18.90	18.40	19.27	19.67
	8H	18.22	19.09	18.65	19.48	19.89	18.27	19.14	18.70	19.53	19.94
	12H	18.34	19.17	18.78	19.56	19.99	18.46	19.29	18.90	19.68	20.11
4H	2H	15.56	16.56	15.97	16.91	17.30	15.05	16.05	15.45	16.40	16.79
	3H	17.47	18.30	17.89	18.70	19.11	17.22	18.05	17.64	18.46	18.86
	4H	18.33	19.07	18.77	19.49	19.94	18.22	18.96	18.66	19.38	19.83
	6H	19.05	19.69	19.52	20.14	20.61	19.12	19.75	19.58	20.20	20.67
	8H	19.31	19.91	19.78	20.36	20.83	19.46	20.06	19.93	20.51	20.98
	12H	19.48	20.00	19.97	20.49	20.97	19.71	20.24	20.20	20.72	21.20
8H	4H	18.64	19.23	19.11	19.68	20.16	18.56	19.16	19.03	19.61	20.08
	6H	19.51	20.00	20.02	20.50	20.98	19.61	20.10	20.12	20.60	21.08
	8H	19.86	20.30	20.39	20.82	21.31	20.06	20.49	20.59	21.01	21.51
	12H	20.12	20.50	20.64	21.00	21.57	20.42	20.80	20.94	21.29	21.87
12H	4H	18.67	19.19	19.16	19.68	20.15	18.59	19.12	19.08	19.60	20.08
	6H	19.58	20.02	20.11	20.54	21.03	19.69	20.12	20.21	20.64	21.13
	8H	20.00	20.38	20.52	20.88	21.45	20.20	20.58	20.72	21.08	21.65

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: SP1-2506-472-8

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L950-N

Data in this report applies to families of products including EHBR-60-L950-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

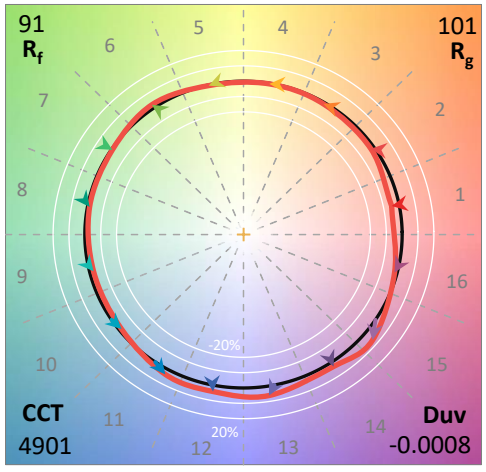
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-8
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-L950-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	4901
CIE u':	0.2131
CIE v':	0.4853
Duv:	-0.0008
CIE x:	0.3477
CIE y:	0.3520
CIE z:	0.3003
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	574
Purity:	9.953987
Rf:	90.7
Rg:	100.5

CRI (Ra):	94.3				
R1:	95.8	R9:	72.3		
R2:	96.5	R10:	89.1		
R3:	94.4	R11:	94.9		
R4:	95.3	R12:	68.4		
R5:	94.1	R13:	96.4		
R6:	92.5	R14:	96.4		
R7:	95.5	R15:	93.9		
R8:	90.1				



Test Conditions

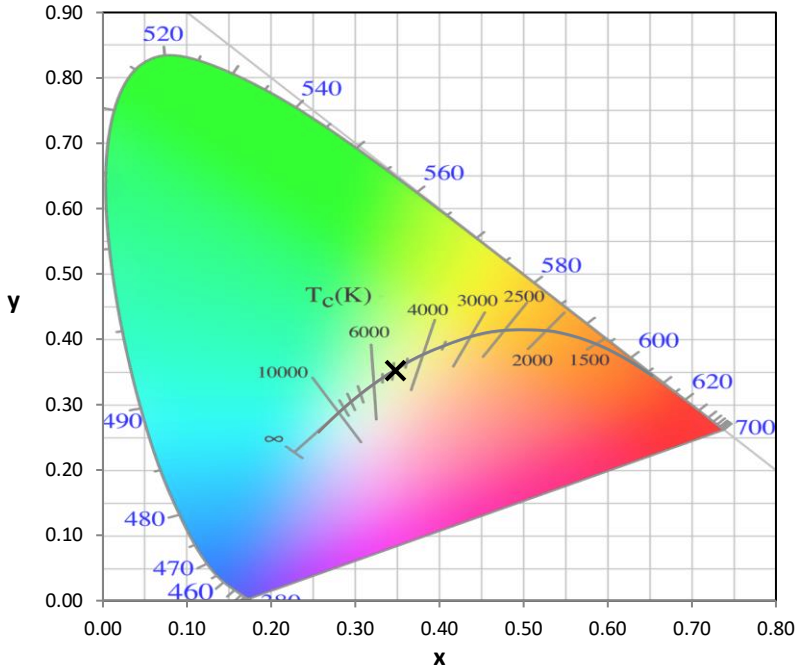
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

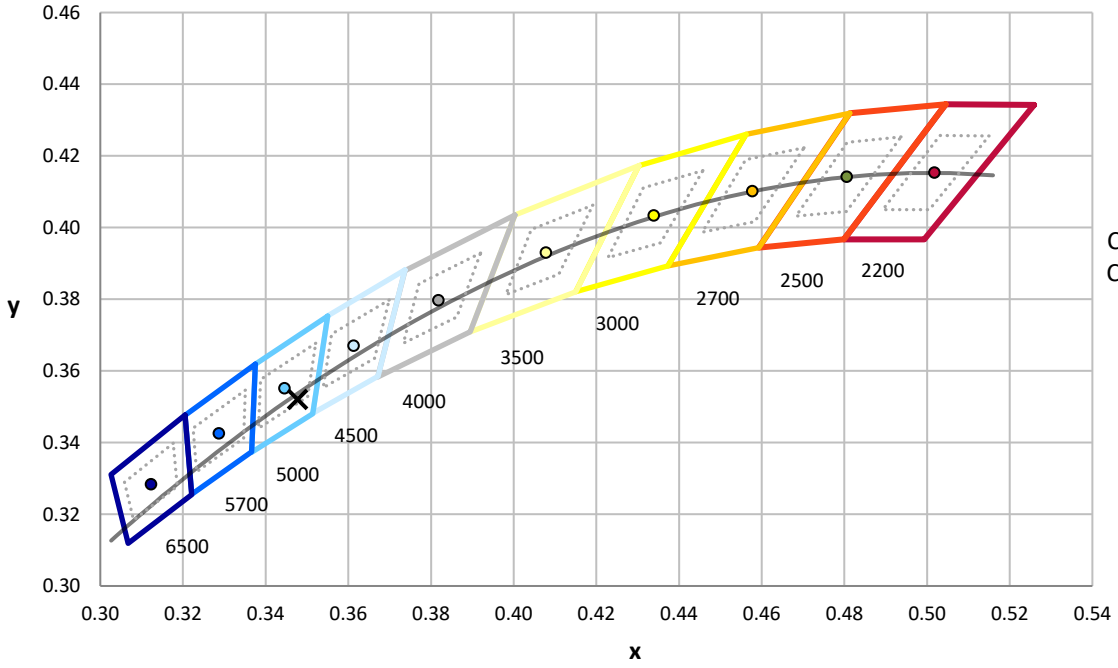
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-8

CIE 1931 Chromaticity Diagram



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

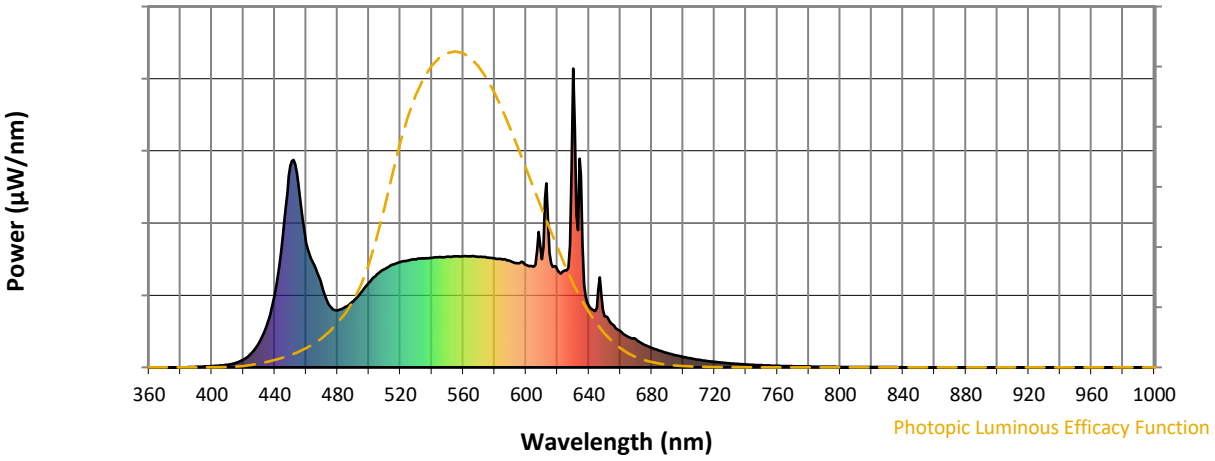


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

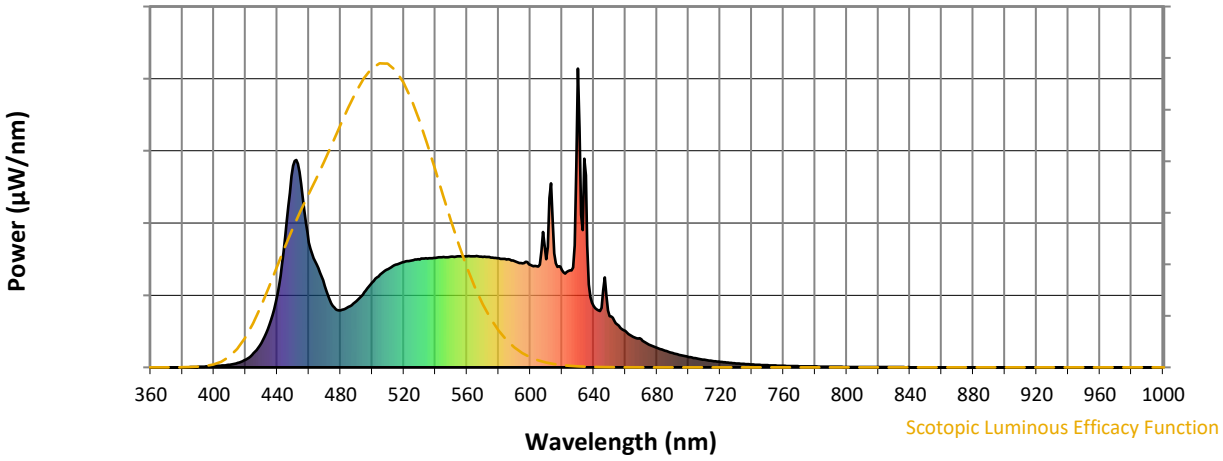


Photopic Lumens: NR

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Scotopic Flux vs. Wavelength

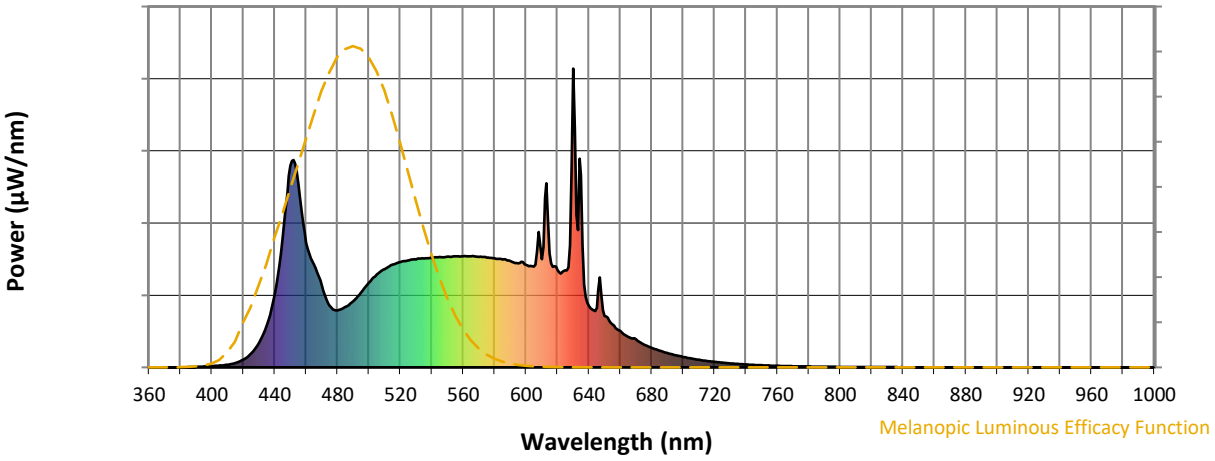


Scotopic Lumens: NR **S/P: 2.04**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.41**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

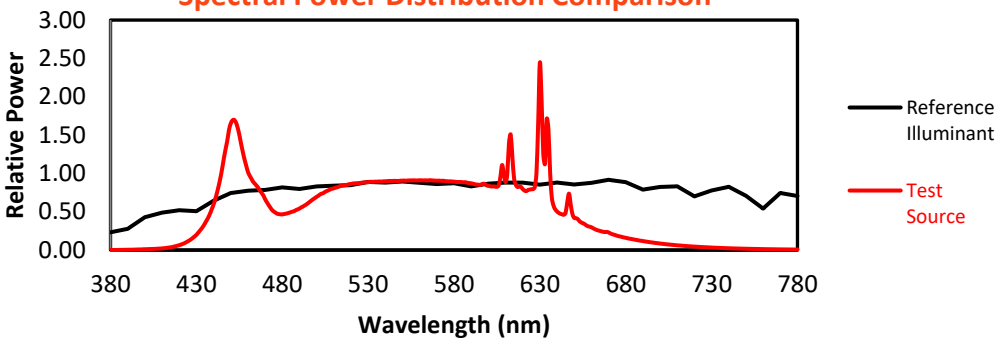
REPORT NUMBER: SP1-2506-472-8

TM-30-18

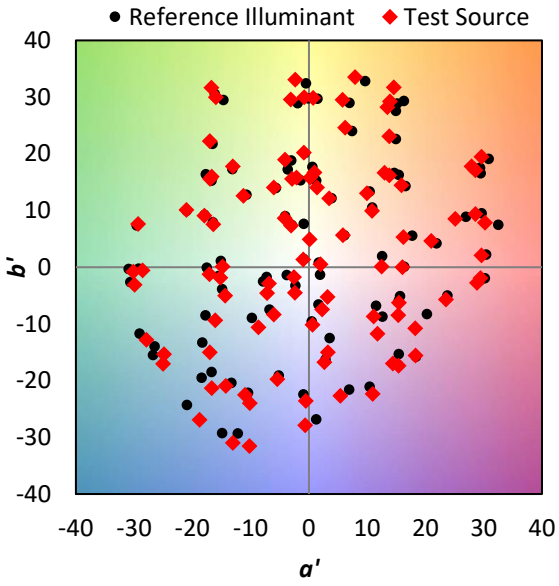
Summary

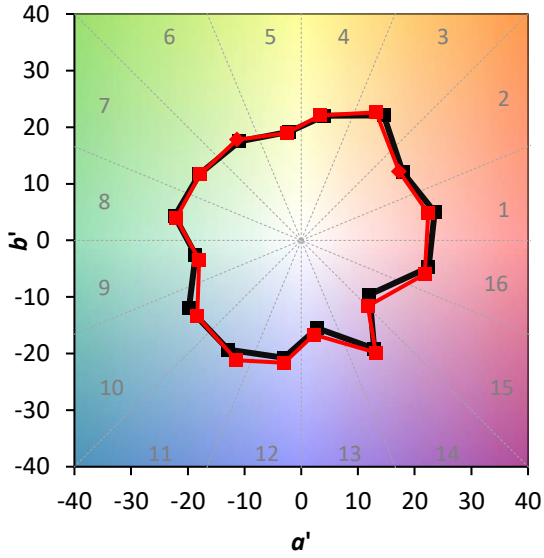
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

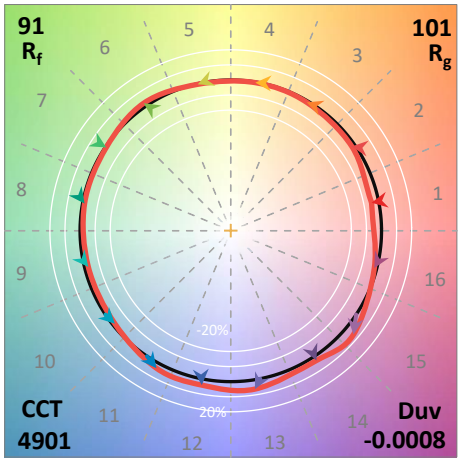
Spectral Power Distribution Comparison

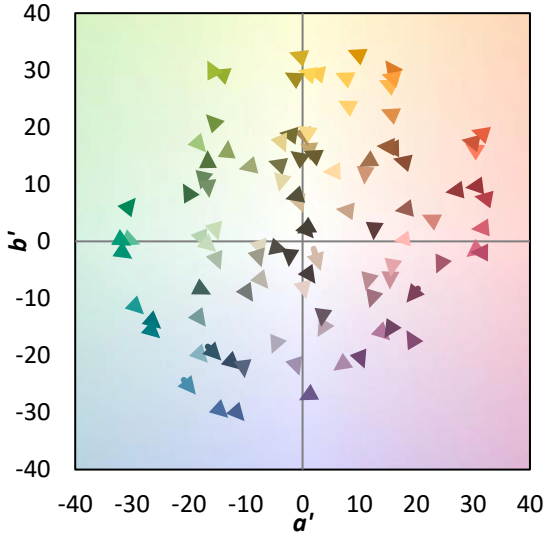


Color Vector Graphics







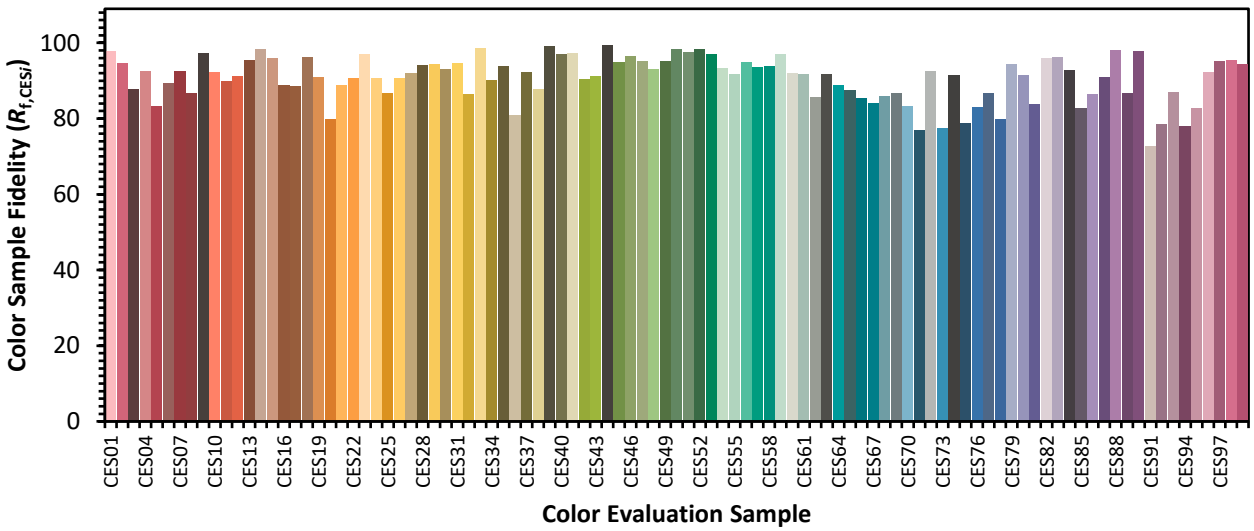


REPORT NUMBER: SP1-2506-472-8

TM-30-18

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

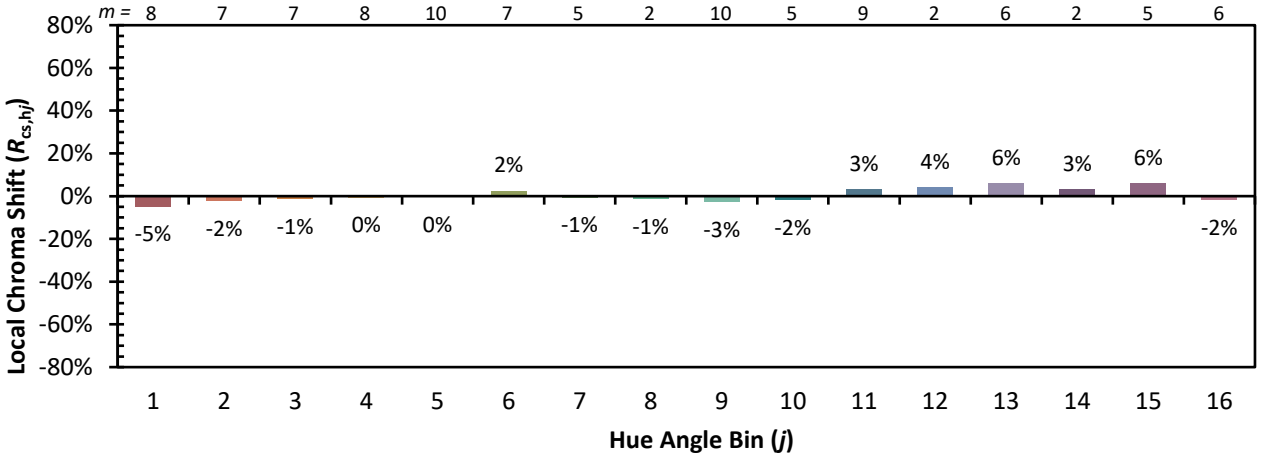
CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 96
CES08 = 40	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 93
CES10 = 73	CES35 = 94	CES60 = 92	CES85 = 83
CES11 = 56	CES36 = 81	CES61 = 92	CES86 = 86
CES12 = 62	CES37 = 92	CES62 = 86	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 88	CES90 = 98
CES16 = 47	CES41 = 97	CES66 = 85	CES91 = 73
CES17 = 48	CES42 = 90	CES67 = 84	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 65	CES45 = 95	CES70 = 83	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 77	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 77	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 92	CES99 = 94
CES25 = 70	CES50 = 98	CES75 = 79	

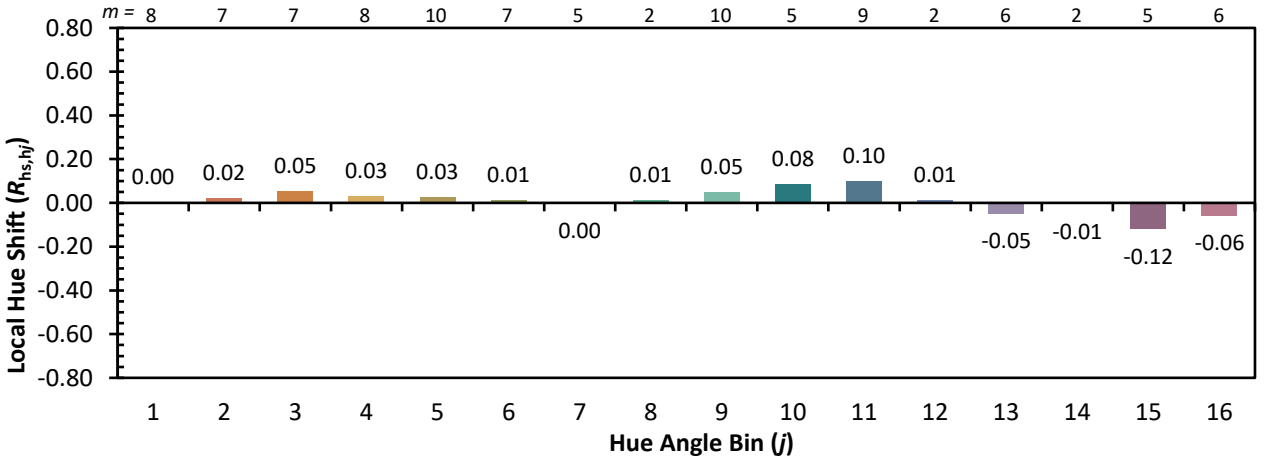


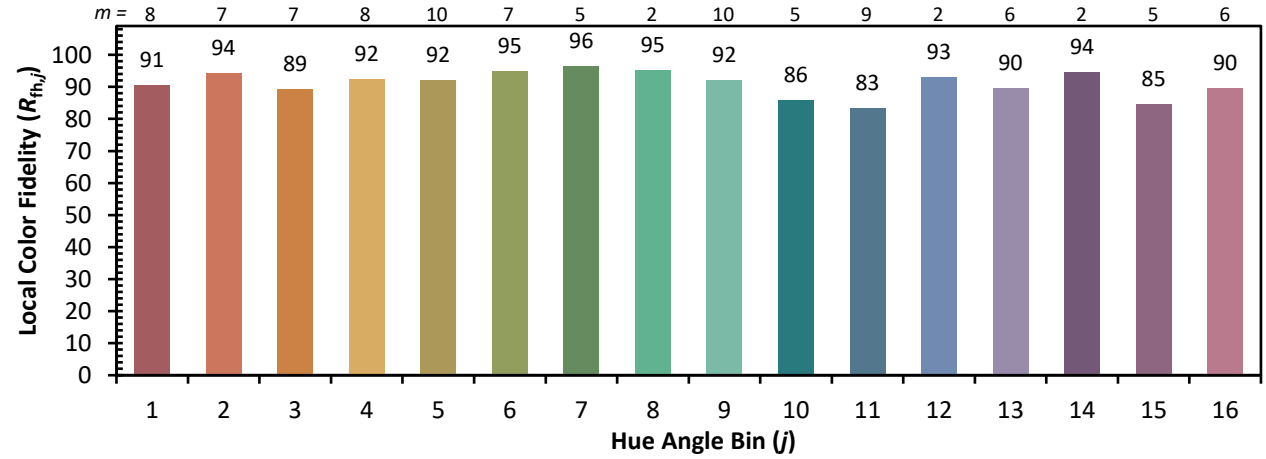
REPORT NUMBER: SP1-2506-472-8

TM-30-18

Color Rendition by Hue-Angle Bin







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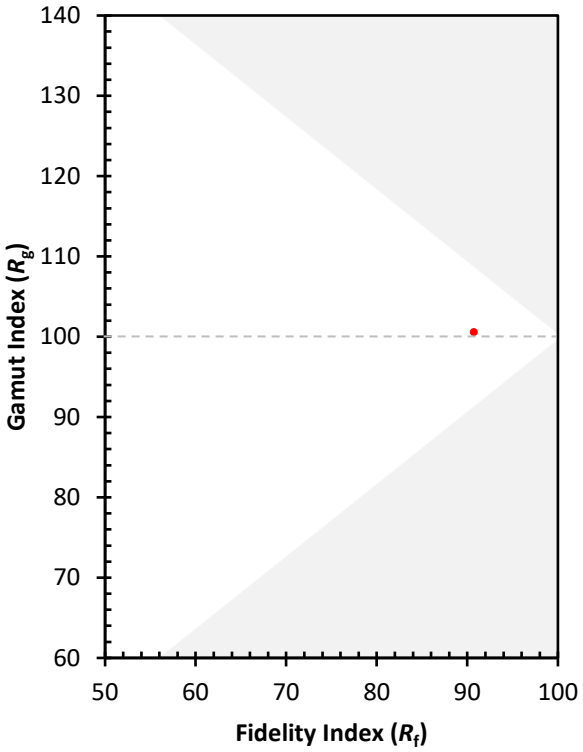
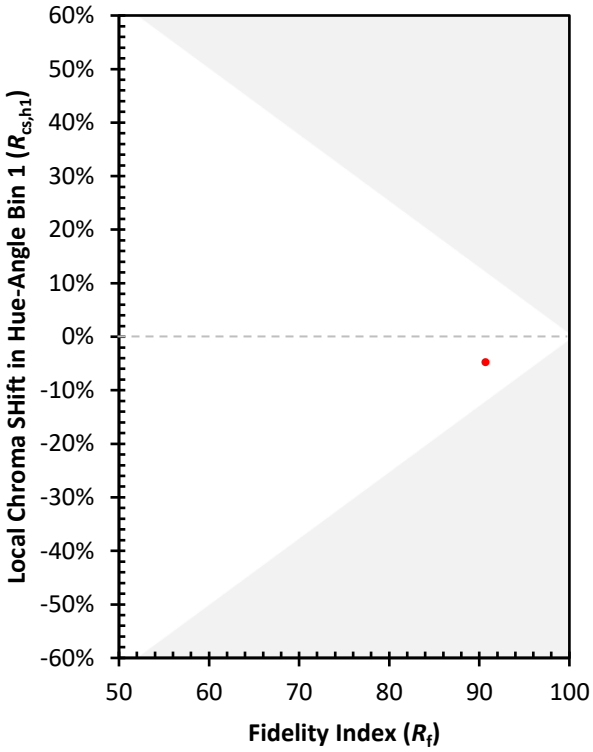
Measure Comparisons





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