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:

Luminaire Tested: EHBR1-30-UNV-TA-L950-UPL24

Issue Date: 3/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	
	REPORT IS A COMBINATION OF REPORTS P1431735 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-TA-L950-UPL24
Description:	Elevate Round Highbay at, 30000 lumens, 5000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30528.8 lumens
Efficiency:	N/A
Efficacy:	173.2 lumens/watt
Spacing Criteria (0/90/45):	1.07 / 0.8 / 0.93
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	176.3
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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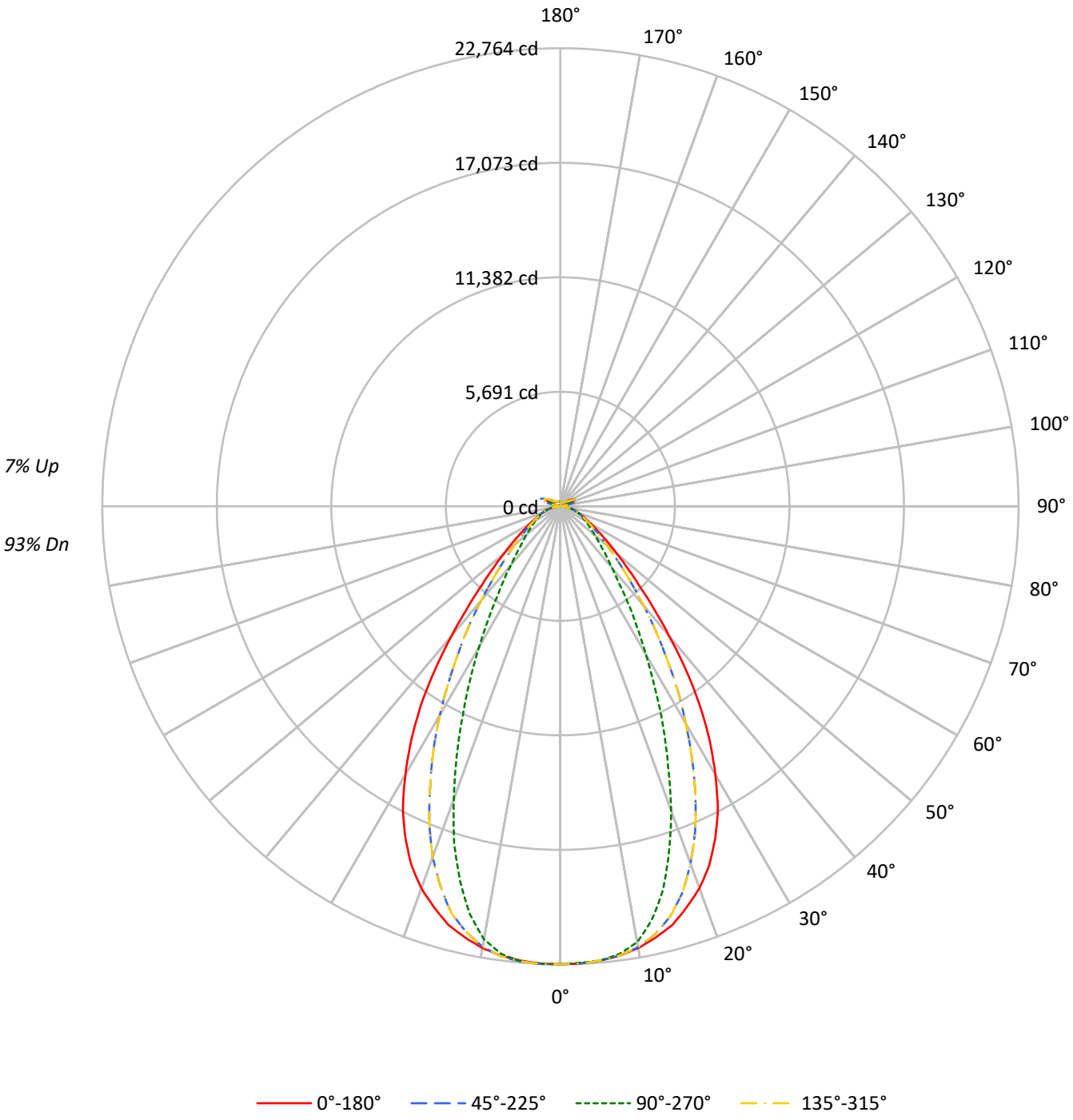
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	110	106	103	100	106	103	100	98	98	96	93	93	91	89	88	87	85	83
2	103	96	91	87	99	94	89	85	89	86	82	85	82	79	81	79	77	74
3	96	88	81	76	93	86	80	75	82	77	73	78	74	71	75	72	69	67
4	90	80	73	68	87	79	72	67	75	70	66	72	68	64	69	66	63	61
5	84	74	67	61	82	72	66	61	70	64	59	67	62	58	65	60	57	55
6	79	68	61	56	77	67	60	55	64	59	54	62	57	53	60	56	52	50
7	74	63	56	51	72	62	55	51	60	54	50	58	53	49	56	52	48	46
8	70	59	52	47	68	58	51	47	56	50	46	54	49	45	53	48	45	43
9	66	55	48	43	64	54	48	43	52	47	43	51	46	42	50	45	41	40
10	62	51	45	40	61	51	44	40	49	44	40	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	106857	106857	106857	106857
5°	106140	106151	106140	106262
10°	104900	103527	104900	102850
15°	102614	93986	102614	91827
20°	98269	78320	98269	75271
25°	91163	60570	91163	57431
30°	80079	44150	80079	41905
35°	65813	31825	65813	29748
40°	48501	22896	48501	22190
45°	33875	18042	33875	17417
50°	24517	14969	24517	14742
55°	18568	13073	18568	12896
60°	14795	11790	14795	11874
65°	12433	11027	12433	11132
70°	11053	10472	11053	10575
75°	9769	9769	9769	9865
80°	8008	8824	8008	8824
85°	5130	6116	5130	6296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 35492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2148.8	7.0
10°-20°	5775.2	18.9
20°-30°	7022.6	23.0
30°-40°	5720.5	18.7
40°-50°	3434.6	11.3
50°-60°	1976.6	6.5
60°-70°	1237.0	4.1
70°-80°	728.6	2.4
80°-90°	217.1	0.7
90°-100°	59.6	0.2
100°-110°	394.2	1.3
110°-120°	729.1	2.4
120°-130°	432.8	1.4
130°-140°	261.8	0.9
140°-150°	181.6	0.6
150°-160°	118.5	0.4
160°-170°	67.8	0.2
170°-180°	22.5	0.1
0°-30°	14946.7	49.0
0°-40°	20667.2	67.7
0°-60°	26078.3	85.4
0°-90°	28261.0	92.6
90°-120°	1182.9	3.9
90°-150°	2059.0	6.7
90°-180°	2268.0	7.4
0°-180°	30528.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	22754	22754	22754	22754	22754	
5°	22662	22665	22662	22689	22662	2152
15°	21528	19718	21528	19265	21528	6036
25°	18205	12096	18205	11469	18205	8299
35°	12079	5841	12079	5460	12079	7458
45°	5481	2919	5481	2818	5481	4366
55°	2509	1767	2509	1743	2509	2307
65°	1298	1151	1298	1162	1298	1312
75°	688	688	688	695	688	727
85°	176	210	176	216	176	193
90°	16	17	16	17	16	15
95°	31	28	31	28	31	34
105°	181	138	181	90	181	244
115°	776	631	776	661	776	707
125°	496	456	496	519	496	457
135°	313	334	313	362	313	248
145°	284	277	284	297	284	178
155°	252	246	252	265	252	118
165°	237	234	237	244	237	67
175°	235	235	235	240	235	22
180°	236	236	236	236	236	

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TEST NUMBER:
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5	*22754.5*
2.5°	*22743.5*	*22738.3*	*22733.5*	*22724.9*	*22704.5*	*22724.9*	*22733.5*	*22738.3*	*22743.5*	*22757.8*	*22764.0*
5°	22662.5	22683.0	22661.6	22666.3	22664.9	22666.3	22661.6	22683.0	22662.5	22676.8	*22702.5*
7.5°	22521.0	22517.2	22510.0	22481.9	22434.2	22481.9	22510.0	22517.2	22521.0	22538.6	*22556.7*
10°	22287.4	22302.6	22252.2	22075.4	21995.8	22075.4	22252.2	22302.6	22287.4	22316.0	*22224.5*
12.5°	21940.9	21978.1	21773.7	21314.2	21034.5	21314.2	21773.7	21978.1	21940.9	21966.2	*21654.5*
15°	21527.8	21496.8	21093.6	20128.0	19717.7	20128.0	21093.6	21496.8	21527.8	21496.8	*20924.4*
17.5°	20884.3	20929.1	20146.6	18725.0	17967.2	18725.0	20146.6	20929.1	20884.3	20899.1	*19812.5*
20°	20197.2	20210.9	18905.6	16904.9	16097.1	16904.9	18905.6	20210.9	20197.2	20114.2	*18549.6*
22.5°	19322.6	19327.8	17483.5	15023.9	13982.1	15023.9	17483.5	19327.8	19322.6	19184.4	*17011.6*
25°	18205.1	18246.0	15883.1	13117.5	12095.7	13117.5	15883.1	18246.0	18205.1	18047.8	*15303.1*
27.5°	16950.2	16978.3	14174.6	11207.8	10145.6	11207.8	14174.6	16978.3	16950.2	16778.6	*13669.9*
30°	15403.2	15583.3	12458.9	9463.5	8492.3	9463.5	12458.9	15583.3	15403.2	15383.6	*11986.0*
32.5°	13805.7	14124.5	10841.4	7908.4	7075.9	7908.4	10841.4	14124.5	13805.7	13896.7	*10308.1*
35°	12079.0	12437.4	9162.8	6574.5	5841.0	6574.5	9162.8	12437.4	12079.0	12196.8	*8768.1*
37.5°	10248.5	10796.5	7740.2	5445.9	4740.6	5445.9	7740.2	10796.5	10248.5	10470.6	*7413.8*
40°	8406.4	8996.0	6391.0	4528.0	3968.5	4528.0	6391.0	8996.0	8406.4	8768.1	*6121.3*
42.5°	6824.7	7276.9	5274.9	3784.6	3419.5	3784.6	5274.9	7276.9	6824.7	7081.1	*5045.1*
45°	5480.8	5742.4	4364.5	3210.3	2919.1	3210.3	4364.5	5742.4	5480.8	5718.5	*4175.3*
47.5°	4474.6	4637.1	3593.0	2774.1	2549.8	2774.1	3593.0	4637.1	4474.6	4550.0	*3487.2*
50°	3653.9	3742.7	3020.5	2404.4	2230.9	2404.4	3020.5	3742.7	3653.9	3700.2	*2920.9*
52.5°	3032.1	3075.8	2533.5	2110.3	1983.1	2110.3	2533.5	3075.8	3032.1	3039.1	*2489.2*
55°	2509.3	2519.7	2162.7	1855.3	1766.7	1855.3	2162.7	2519.7	2509.3	2511.1	*2126.6*
57.5°	2101.3	2116.5	1858.7	1650.8	1577.4	1650.8	1858.7	2116.5	2101.3	2104.6	*1841.5*
60°	1778.6	1788.6	1606.1	1466.4	1417.4	1466.4	1606.1	1788.6	1778.6	1774.3	*1596.0*
62.5°	1514.1	1533.1	1403.5	1306.8	1275.3	1306.8	1403.5	1533.1	1514.1	1518.4	*1403.1*
65°	1297.7	1310.1	1230.1	1161.9	1151.0	1161.9	1230.1	1310.1	1297.7	1308.2	*1233.9*
67.5°	1120.0	1134.3	1080.4	1040.4	1029.5	1040.4	1080.4	1134.3	1120.0	1128.6	*1081.4*
70°	969.8	969.8	940.8	918.3	918.9	918.3	940.8	969.8	969.8	971.3	*946.0*
72.5°	822.5	827.8	808.3	801.6	804.4	801.6	808.3	827.8	822.5	840.7	*814.0*
75°	688.2	693.9	683.9	680.1	688.2	680.1	683.9	693.9	688.2	697.8	*685.8*
77.5°	549.5	560.0	558.6	563.3	578.6	563.3	558.6	560.0	549.5	563.8	*566.7*
80°	421.3	430.4	430.8	442.7	464.2	442.7	430.8	430.4	421.3	430.4	*437.5*
82.5°	296.5	302.1	306.0	326.0	344.6	326.0	306.0	302.1	296.5	301.7	*311.3*
85°	176.3	171.6	178.2	190.7	210.2	190.7	178.2	171.6	176.3	176.3	*181.1*
87.5°	56.2	54.8	54.4	66.2	75.8	66.2	54.4	54.8	56.2	58.2	*60.5*
90°	16.4	28.9	45.2	26.4	17.3	26.4	45.2	28.9	16.4	27.6	*47.8*
92.5°	21.4	37.6	72.8	40.2	24.3	40.2	72.8	37.6	21.4	37.6	*67.8*
95°	31.4	50.3	101.7	46.5	28.5	46.5	101.7	50.3	31.4	46.5	*86.7*
97.5°	49.0	61.5	116.8	51.5	36.0	51.5	116.8	61.5	49.0	57.8	*97.9*
100°	65.3	75.4	182.1	60.3	47.4	60.3	182.1	75.4	65.3	65.3	*179.6*
102.5°	99.2	141.9	386.8	128.1	80.0	128.1	386.8	141.9	99.2	128.1	*416.9*
105°	180.8	297.6	689.4	270.0	137.8	270.0	689.4	297.6	180.8	293.9	*734.7*
107.5°	342.8	527.5	909.1	483.5	238.2	483.5	909.1	527.5	342.8	548.7	*946.9*
110°	548.7	724.6	953.1	641.6	444.2	641.6	953.1	724.6	548.7	767.3	*1033.5*

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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°	714.5	799.9	912.9	689.4	599.9	689.4	912.9	799.9	714.5	855.2	*1009.7*
115°	776.1	781.1	815.0	663.0	631.3	663.0	815.0	781.1	776.1	842.6	*901.6*
117.5°	749.7	701.9	691.9	605.3	610.4	605.3	691.9	701.9	749.7	771.1	*778.6*
120°	676.9	612.8	577.6	538.7	564.8	538.7	577.6	612.8	676.9	668.0	*655.5*
122.5°	585.2	521.1	494.8	477.7	508.7	477.7	494.8	521.1	585.2	566.4	*553.8*
125°	496.1	442.1	435.8	424.9	456.0	424.9	435.8	442.1	496.1	477.2	*482.7*
127.5°	420.7	386.8	394.3	388.5	409.6	388.5	394.3	386.8	420.7	411.9	*431.2*
130°	367.2	350.4	368.4	360.0	378.1	360.0	368.4	350.4	367.2	369.7	*395.2*
132.5°	333.7	328.7	350.5	340.4	352.3	340.4	350.5	328.7	333.7	344.2	*368.1*
135°	313.4	314.0	334.8	323.4	333.9	323.4	334.8	314.0	313.4	328.4	*349.8*
137.5°	301.3	305.0	320.1	308.8	317.6	308.8	320.1	305.0	301.3	316.4	*332.7*
140°	294.3	296.8	308.0	295.5	303.4	295.5	308.0	296.8	294.3	309.3	*316.8*
142.5°	287.2	289.7	297.2	282.5	287.7	282.5	297.2	289.7	287.2	301.4	*305.2*
145°	283.8	285.1	288.9	273.0	276.8	273.0	288.9	285.1	283.8	294.3	*291.8*
147.5°	278.0	278.0	279.3	265.2	268.2	265.2	279.3	278.0	278.0	285.6	*282.3*
150°	270.9	269.7	270.9	256.9	259.9	256.9	270.9	269.7	270.9	275.9	*271.4*
152.5°	260.9	259.7	261.4	248.6	251.6	248.6	261.4	259.7	260.9	265.9	*261.9*
155°	252.2	252.2	253.2	242.8	245.8	242.8	253.2	252.2	252.2	255.1	*253.6*
157.5°	246.9	246.9	247.8	239.9	242.1	239.9	247.8	246.9	246.9	248.6	*248.3*
160°	241.5	242.8	243.7	237.1	239.3	237.1	243.7	242.8	241.5	244.4	*244.2*
162.5°	239.4	239.9	241.7	234.3	236.6	234.3	241.7	239.9	239.4	239.9	*239.6*
165°	236.6	237.9	238.8	233.6	234.5	233.6	238.8	237.9	236.6	237.9	*236.8*
167.5°	235.8	237.1	238.1	233.2	235.0	233.2	238.1	237.1	235.8	234.6	*236.1*
170°	233.3	235.1	237.3	233.7	234.1	233.7	237.3	235.1	233.3	233.8	*234.0*
172.5°	234.3	236.1	238.2	234.6	235.1	234.6	238.2	236.1	234.3	234.8	*233.7*
175°	235.3	235.7	237.1	234.4	235.3	234.4	237.1	235.7	235.3	234.5	*234.6*
177.5°	234.5	236.2	237.6	236.1	237.0	236.1	237.6	236.2	234.5	235.0	*236.4*
180°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	*236.4*

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	22754.5	22754.5	22754.5	22754.5	22754.5	22754.5
2.5°	*22754.0*	*22762.5*	*22754.0*	*22764.0*	*22757.8*	*22743.5*
5°	22692.5	22688.7	22692.5	22702.5	22676.8	22662.5
7.5°	22454.3	22438.9	22454.3	22556.7	22538.6	22521.0
10°	21956.6	21851.8	21956.6	22224.5	22316.0	22287.4
12.5°	21089.3	20764.3	21089.3	21654.5	21966.2	21940.9
15°	19823.0	19264.9	19823.0	20924.4	21496.8	21527.8
17.5°	18184.5	17545.9	18184.5	19812.5	20899.1	20884.3
20°	16402.6	15470.4	16402.6	18549.6	20114.2	20197.2
22.5°	14456.6	13453.0	14456.6	17011.6	19184.4	19322.6
25°	12515.5	11469.0	12515.5	15303.1	18047.8	18205.1
27.5°	10701.2	9705.2	10701.2	13669.9	16778.6	16950.2
30°	9021.2	8060.4	9021.2	11986.0	15383.6	15403.2
32.5°	7616.3	6664.1	7616.3	10308.1	13896.7	13805.7
35°	6249.4	5459.8	6249.4	8768.1	12196.8	12079.0
37.5°	5219.1	4586.2	5219.1	7413.8	10470.6	10248.5
40°	4353.1	3846.1	4353.1	6121.3	8768.1	8406.4
42.5°	3639.2	3259.8	3639.2	5045.1	7081.1	6824.7
45°	3103.1	2818.0	3103.1	4175.3	5718.5	5480.8
47.5°	2707.9	2476.4	2707.9	3487.2	4550.0	4474.6
50°	2356.2	2197.1	2356.2	2920.9	3700.2	3653.9
52.5°	2072.7	1957.4	2072.7	2489.2	3039.1	3032.1
55°	1836.8	1742.8	1836.8	2126.6	2511.1	2509.3
57.5°	1631.3	1570.9	1631.3	1841.5	2104.6	2101.3
60°	1448.3	1427.4	1448.3	1596.0	1774.3	1778.6
62.5°	1308.2	1277.3	1308.2	1403.1	1518.4	1514.1
65°	1169.1	1161.9	1169.1	1233.9	1308.2	1297.7
67.5°	1043.2	1037.1	1043.2	1081.4	1128.6	1120.0
70°	923.2	927.9	923.2	946.0	971.3	969.8
72.5°	806.8	807.8	806.8	814.0	840.7	822.5
75°	694.9	694.9	694.9	685.8	697.8	688.2
77.5°	572.9	587.1	572.9	566.7	563.8	549.5
80°	450.3	464.2	450.3	437.5	430.4	421.3
82.5°	326.5	348.9	326.5	311.3	301.7	296.5
85°	202.5	216.4	202.5	181.1	176.3	176.3
87.5°	76.3	83.4	76.3	60.5	58.2	56.2
90°	25.1	16.8	25.1	47.8	27.6	16.4
92.5°	33.9	23.0	33.9	67.8	37.6	21.4
95°	37.6	28.1	37.6	86.7	46.5	31.4
97.5°	40.2	34.4	40.2	97.9	57.8	49.0
100°	46.5	39.9	46.5	179.6	65.3	65.3
102.5°	94.2	48.7	94.2	416.9	128.1	99.2
105°	246.1	90.1	246.1	734.7	293.9	180.8
107.5°	487.2	211.9	487.2	946.9	548.7	342.8
110°	668.0	430.4	668.0	1033.5	767.3	548.7

TEST NUMBER:
CATALOG NUMBER: EHBR1-30-UNV-TA-L950-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	740.9	596.1	740.9	1009.7	855.2	714.5
115°	738.4	661.4	738.4	901.6	842.6	776.1
117.5°	693.2	665.2	693.2	778.6	771.1	749.7
120°	627.1	627.5	627.1	655.5	668.0	676.9
122.5°	559.2	576.5	559.2	553.8	566.4	585.2
125°	501.5	518.7	501.5	482.7	477.2	496.1
127.5°	453.0	467.3	453.0	431.2	411.9	420.7
130°	412.8	422.1	412.8	395.2	369.7	367.2
132.5°	383.7	388.7	383.7	368.1	344.2	333.7
135°	359.8	361.5	359.8	349.8	328.4	313.4
137.5°	340.2	338.2	340.2	332.7	316.4	301.3
140°	326.1	323.5	326.1	316.8	309.3	294.3
142.5°	311.4	309.4	311.4	305.2	301.4	287.2
145°	301.1	297.3	301.1	291.8	294.3	283.8
147.5°	290.3	287.1	290.3	282.3	285.6	278.0
150°	281.2	280.4	281.2	271.4	275.9	270.9
152.5°	272.4	272.1	272.4	261.9	265.9	260.9
155°	264.6	265.1	264.6	253.6	255.1	252.2
157.5°	258.0	258.5	258.0	248.3	248.6	246.9
160°	252.6	253.2	252.6	244.2	244.4	241.5
162.5°	248.6	249.1	248.6	239.6	239.9	239.4
165°	242.8	244.5	242.8	236.8	237.9	236.6
167.5°	240.7	242.5	240.7	236.1	234.6	235.8
170°	238.7	240.5	238.7	234.0	233.8	233.3
172.5°	237.1	240.1	237.1	233.7	234.8	234.3
175°	236.9	240.4	236.9	234.6	234.5	235.3
177.5°	238.6	243.3	238.6	236.4	235.0	234.5
180°	236.4	236.4	236.4	236.4	236.4	236.4

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

Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-30-UNV-TA-L950-UPL24

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	18.90	20.05	19.40	20.51	21.02	17.17	18.31	17.66	18.78	19.28
	3H	20.06	21.08	20.57	21.56	22.11	18.77	19.79	19.28	20.27	20.81
	4H	20.51	21.47	21.04	21.96	22.53	19.42	20.37	19.95	20.87	21.43
	6H	20.83	21.70	21.37	22.22	22.79	19.93	20.81	20.47	21.32	21.89
	8H	20.92	21.74	21.47	22.28	22.86	20.10	20.93	20.66	21.46	22.04
	12H	20.95	21.74	21.51	22.26	22.87	20.19	20.98	20.75	21.51	22.11
4H	2H	19.16	20.11	19.69	20.61	21.17	17.72	18.67	18.25	19.17	19.73
	3H	20.55	21.33	21.09	21.88	22.46	19.52	20.30	20.06	20.85	21.43
	4H	21.13	21.84	21.70	22.39	23.01	20.28	20.99	20.85	21.54	22.16
	6H	21.58	22.18	22.16	22.76	23.40	20.91	21.52	21.50	22.10	22.74
	8H	21.70	22.26	22.29	22.84	23.48	21.12	21.69	21.71	22.27	22.91
	12H	21.76	22.26	22.36	22.87	23.51	21.24	21.75	21.85	22.36	23.00
8H	4H	21.29	21.86	21.88	22.44	23.08	20.53	21.09	21.12	21.67	22.31
	6H	21.84	22.30	22.46	22.93	23.57	21.27	21.73	21.89	22.36	23.00
	8H	22.02	22.43	22.66	23.07	23.73	21.55	21.96	22.19	22.60	23.26
	12H	22.13	22.49	22.76	23.11	23.85	21.73	22.09	22.37	22.71	23.45
12H	4H	21.29	21.79	21.90	22.40	23.04	20.53	21.03	21.14	21.64	22.28
	6H	21.85	22.27	22.49	22.91	23.57	21.29	21.71	21.93	22.35	23.01
	8H	22.07	22.44	22.71	23.06	23.79	21.62	21.98	22.25	22.60	23.33

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

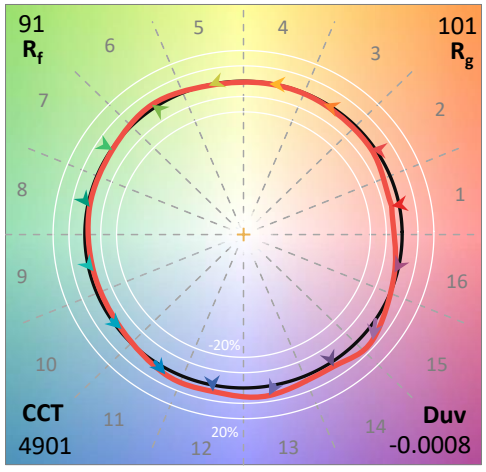
Test Information

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

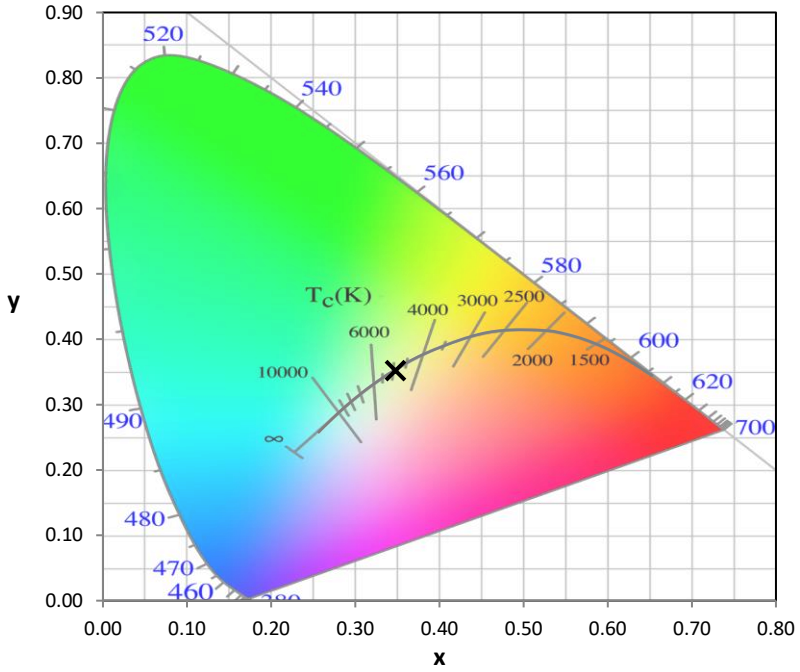
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

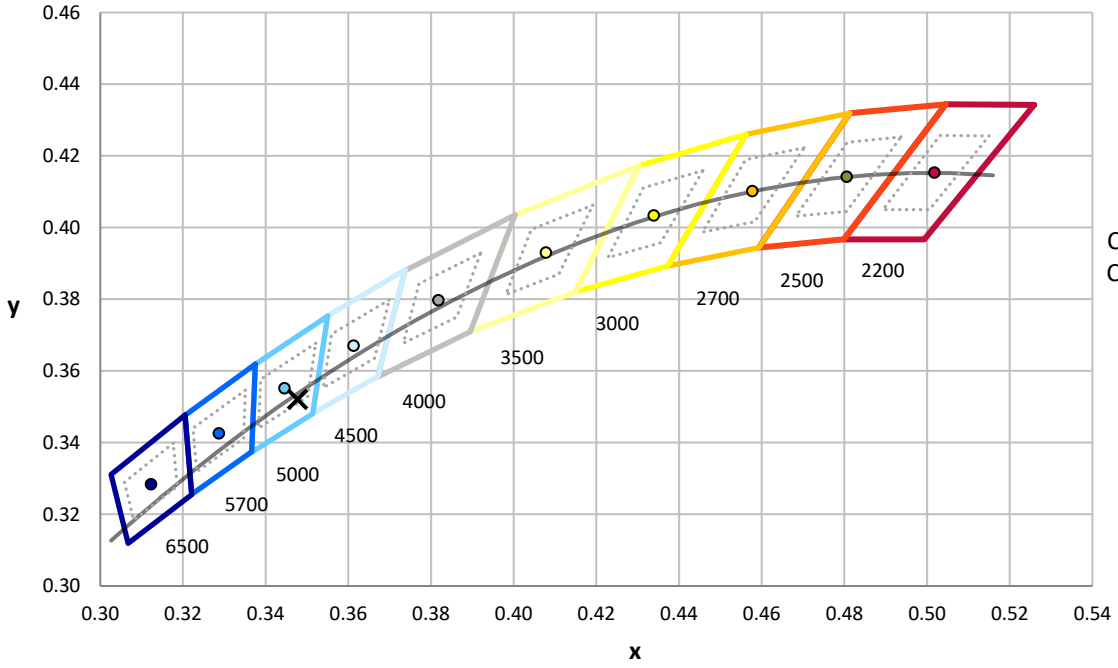
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

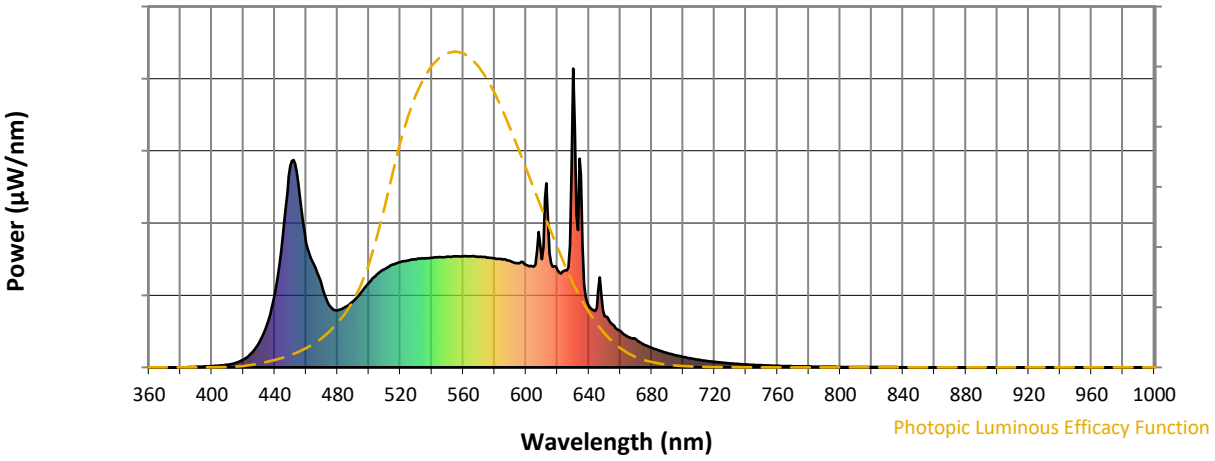


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

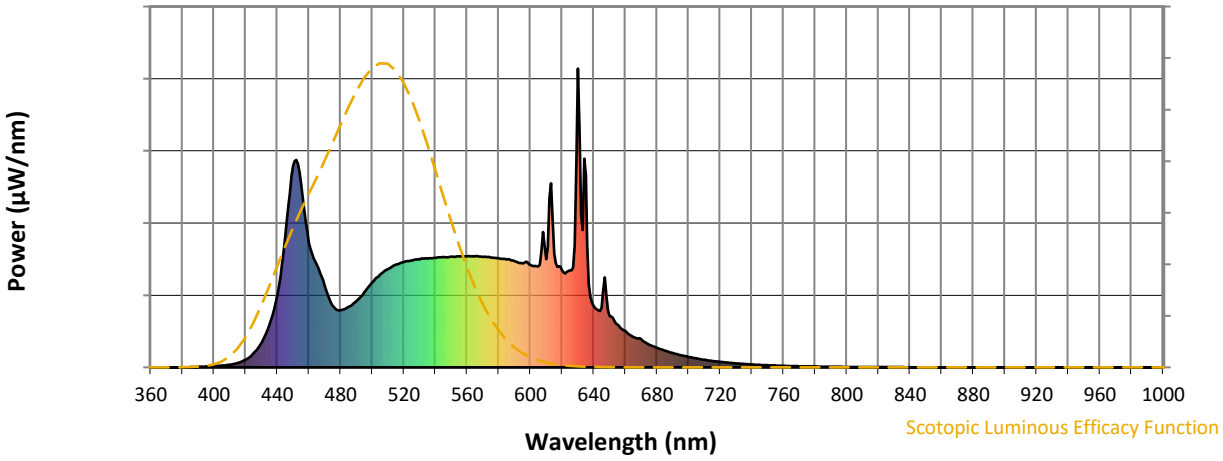


Photopic Lumens: NR

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

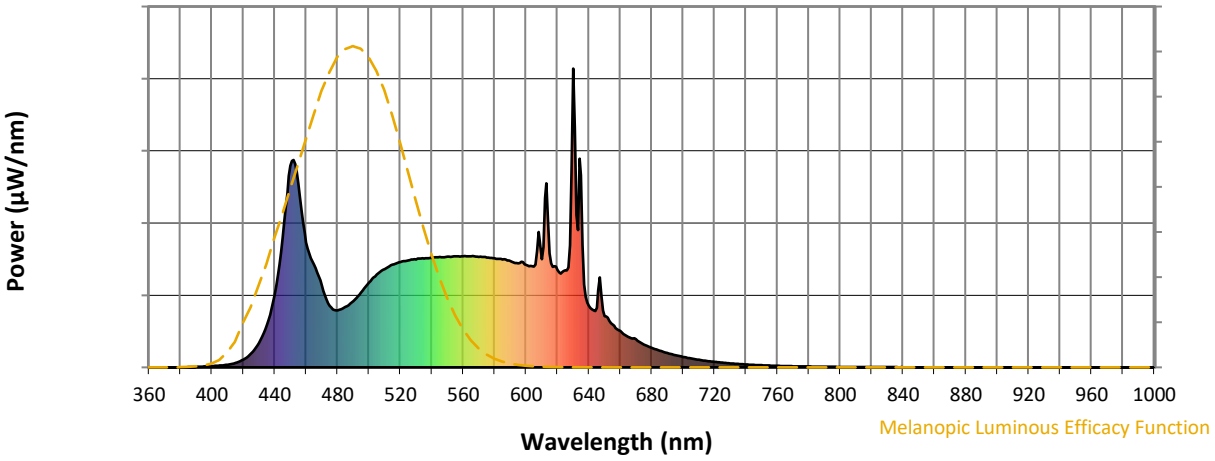


Scotopic Lumens: NR **S/P: 2.04**

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			

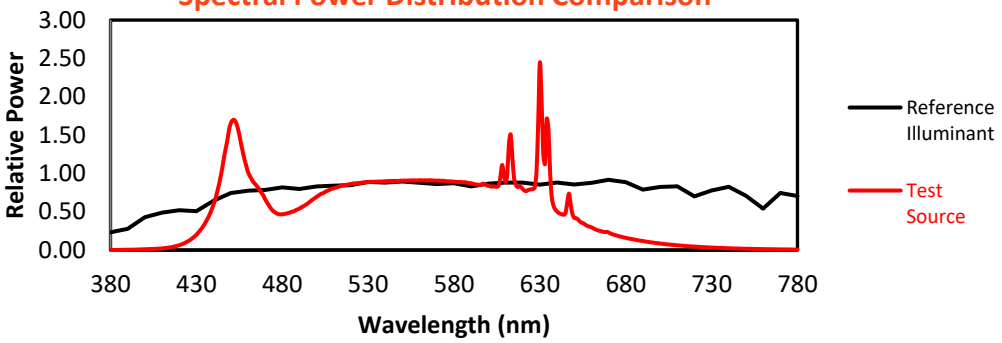
REPORT NUMBER: SP1-2506-472-8

TM-30-18

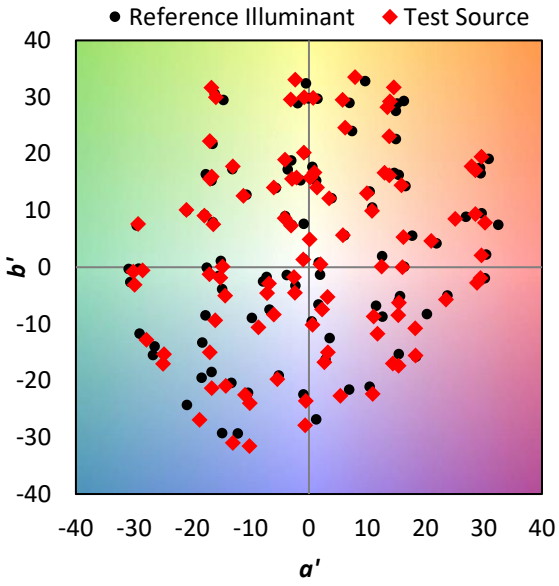
Summary

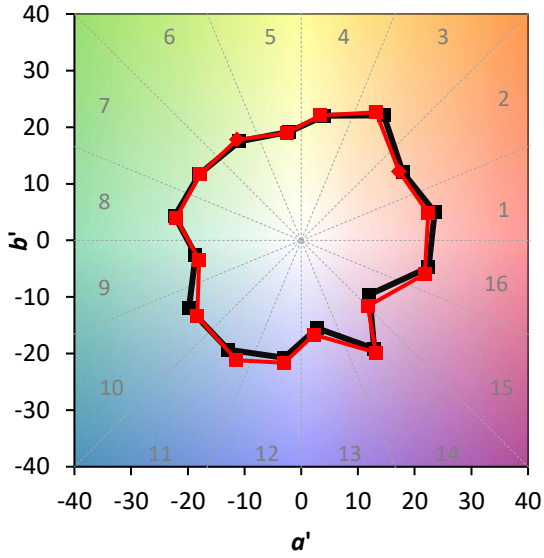
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

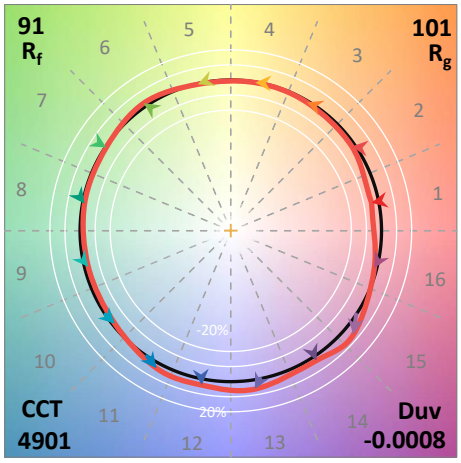
Spectral Power Distribution Comparison

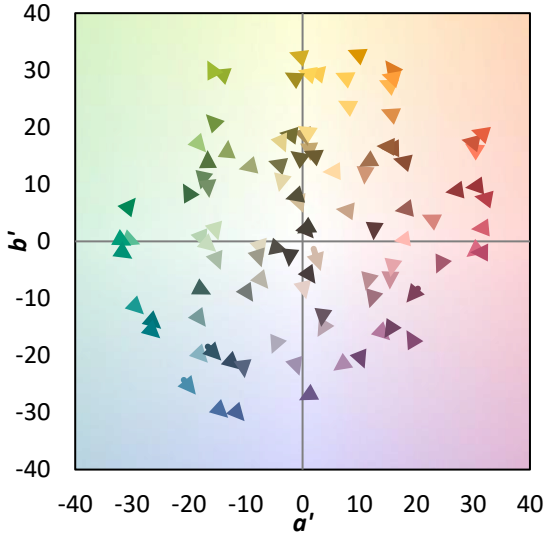


Color Vector Graphics







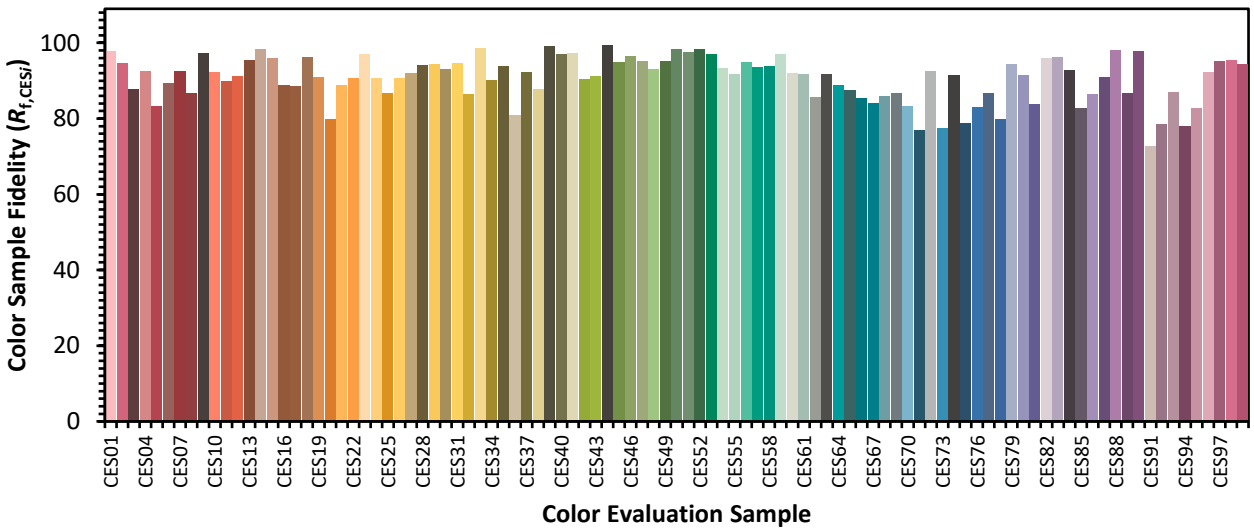


REPORT NUMBER: SP1-2506-472-8

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	



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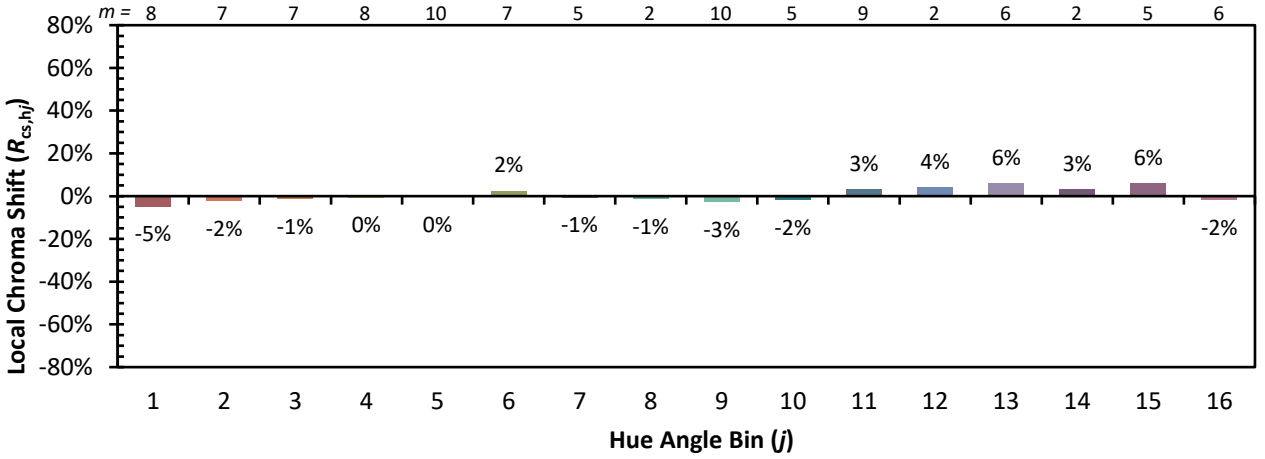
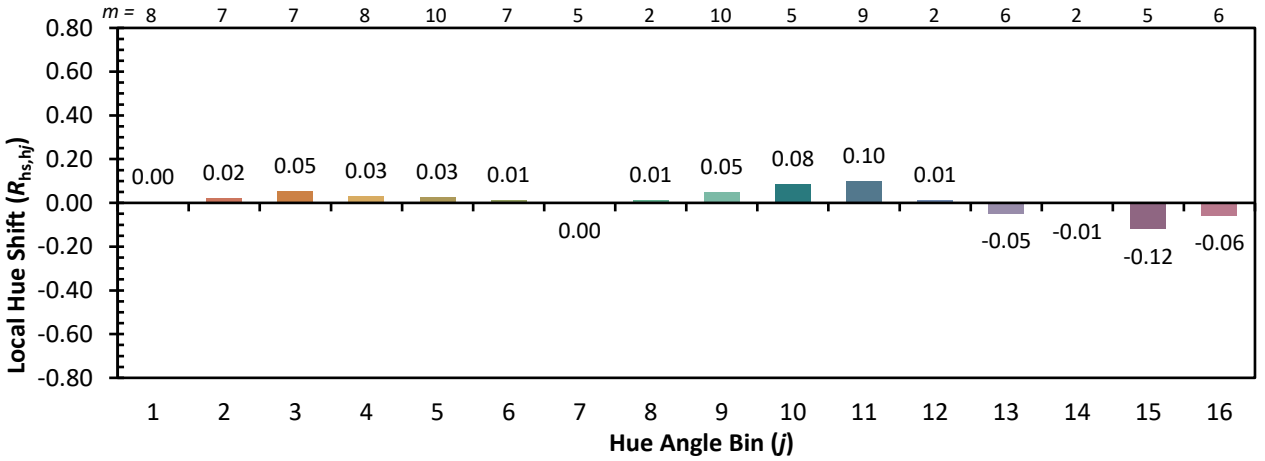
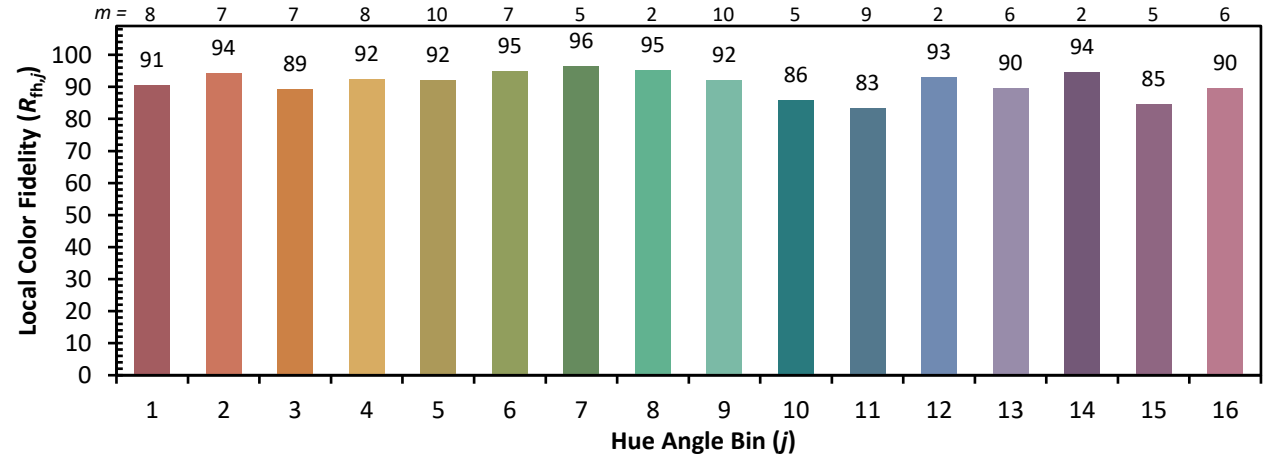
Color Rendition by Hue-Angle Bin







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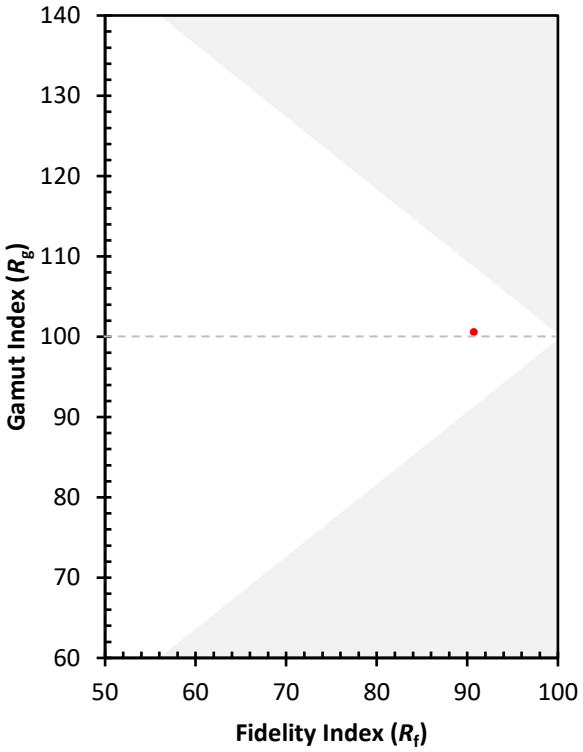
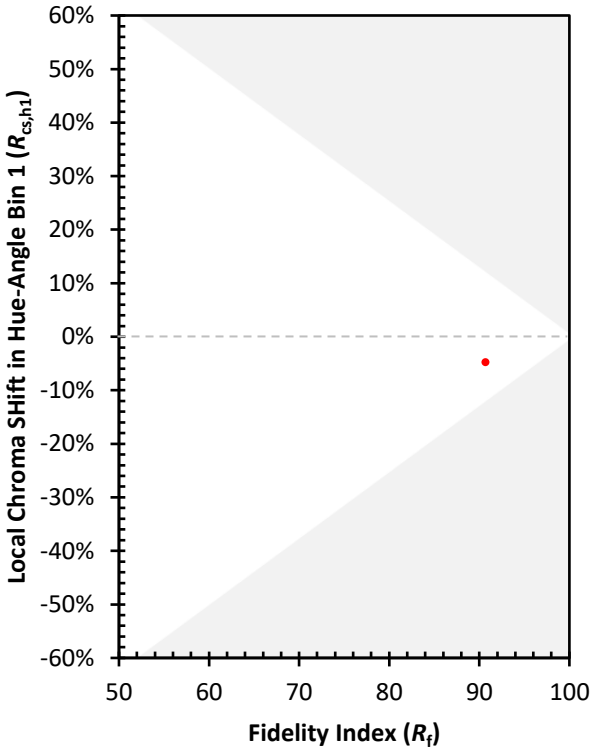
Measure Comparisons





(END OF REPORT)