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: P1431707

Luminaire Tested: EHBR1-24-UNV-TA-L950

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:	P1431707
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-5)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-TA-L950
Description:	Elevate Round Highbay at, 24000 lumens, 5000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22975.1 lumens
Efficiency:	N/A
Efficacy:	179.1 lumens/watt
Spacing Criteria (0/90/45):	1.07 / 0.8 / 0.93
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	128.3
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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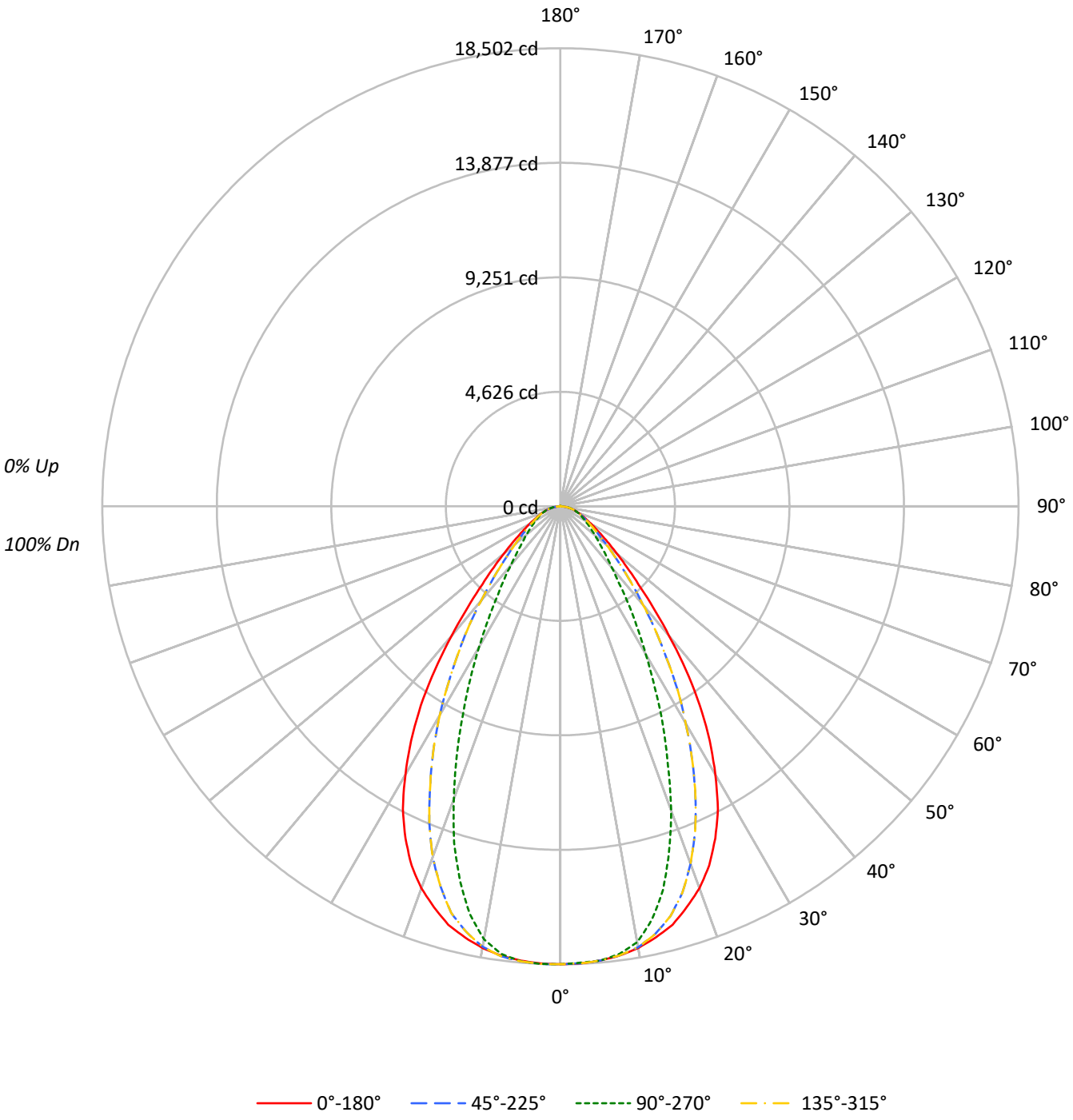
Luminous Intensity Polar Plot



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	83	78	95	88	82	78	85	81	77	83	79	75	80	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	86848	86848	86848	86848
5°	86828	86837	86828	86928
10°	86378	85248	86378	84690
15°	85065	77913	85065	76123
20°	82035	65382	82035	62836
25°	76667	50939	76667	48299
30°	67885	37427	67885	35524
35°	56281	27216	56281	25439
40°	41884	19773	41884	19163
45°	29584	15756	29584	15211
50°	21696	13247	21696	13046
55°	16697	11756	16697	11597
60°	13577	10820	13577	10896
65°	11720	10394	11720	10494
70°	10824	10254	10824	10356
75°	10148	10148	10148	10246
80°	9260	10204	9260	10204
85°	7727	9208	7727	9478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 30996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1746.5	7.6
10°-20°	4693.8	20.4
20°-30°	5707.7	24.8
30°-40°	4649.3	20.2
40°-50°	2791.5	12.1
50°-60°	1606.5	7.0
60°-70°	1005.4	4.4
70°-80°	592.1	2.6
80°-90°	173.2	0.8
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.3	0.0
130°-140°	1.2	0.0
140°-150°	2.1	0.0
150°-160°	2.3	0.0
160°-170°	2.1	0.0
170°-180°	0.9	0.0
0°-30°	12148.0	52.9
0°-40°	16797.3	73.1
0°-60°	21195.2	92.3
0°-90°	22966.0	100.0
90°-120°	0.3	0.0
90°-150°	3.9	0.0
90°-180°	9.0	0.0
0°-180°	22975.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	18494	18494	18494	18494	18494	
5°	18419	18421	18419	18440	18419	1749
15°	17497	16026	17497	15658	17497	4905
25°	14796	9831	14796	9321	14796	6745
35°	9817	4747	9817	4437	9817	6062
45°	4454	2372	4454	2290	4454	3549
55°	2039	1436	2039	1416	2039	1875
65°	1055	935	1055	944	1055	1066
75°	559	559	559	565	559	591
85°	143	171	143	176	143	157
90°	0	1	0	0	0	6
95°	0	1	0	0	0	0
105°	0	1	0	1	0	0
115°	0	1	0	1	0	0
125°	0	1	0	1	0	0
135°	2	2	2	2	2	1
145°	3	4	3	4	3	2
155°	4	6	4	6	4	2
165°	7	9	7	9	7	2
175°	8	12	8	12	8	1
180°	10	10	10	10	10	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7	*18493.7*
2.5°	*18484.8*	*18480.6*	*18476.7*	*18469.8*	*18453.1*	*18469.8*	*18476.7*	*18480.6*	*18484.8*	*18496.5*	*18501.5*
5°	18419.0	18435.7	18418.2	18422.1	18421.0	18422.1	18418.2	18435.7	18419.0	18430.6	*18451.6*
7.5°	18304.0	18300.9	18295.1	18272.2	18233.5	18272.2	18295.1	18300.9	18304.0	18318.3	*18333.0*
10°	18114.2	18126.5	18085.5	17941.8	17877.1	17941.8	18085.5	18126.5	18114.2	18137.4	*18063.0*
12.5°	17832.6	17862.8	17696.6	17323.2	17095.9	17323.2	17696.6	17862.8	17832.6	17853.1	*17599.7*
15°	17496.7	17471.5	17143.8	16359.1	16025.6	16359.1	17143.8	17471.5	17496.7	17471.5	*17006.3*
17.5°	16973.8	17010.2	16374.2	15218.8	14602.9	15218.8	16374.2	17010.2	16973.8	16985.9	*16102.7*
20°	16415.3	16426.5	15365.6	13739.5	13082.9	13739.5	15365.6	16426.5	16415.3	16347.9	*15076.3*
22.5°	15704.5	15708.7	14209.8	12210.7	11363.9	12210.7	14209.8	15708.7	15704.5	15592.2	*13826.2*
25°	14796.1	14829.5	12909.0	10661.3	9830.8	10661.3	12909.0	14829.5	14796.1	14668.4	*12437.7*
27.5°	13776.3	13799.1	11520.4	9109.2	8245.8	9109.2	11520.4	13799.1	13776.3	13636.9	*11110.2*
30°	12519.0	12665.4	10125.9	7691.5	6902.1	7691.5	10125.9	12665.4	12519.0	12503.1	*9741.8*
32.5°	11220.6	11479.8	8811.3	6427.6	5750.9	6427.6	8811.3	11479.8	11220.6	11294.6	*8377.9*
35°	9817.2	10108.6	7447.1	5343.4	4747.3	5343.4	7447.1	10108.6	9817.2	9912.9	*7126.4*
37.5°	8329.4	8774.9	6290.8	4426.2	3852.9	4426.2	6290.8	8774.9	8329.4	8509.9	*6025.5*
40°	6832.3	7311.5	5194.3	3680.1	3225.4	3680.1	5194.3	7311.5	6832.3	7126.4	*4975.0*
42.5°	5546.8	5914.4	4287.1	3075.9	2779.2	3075.9	4287.1	5914.4	5546.8	5755.2	*4100.5*
45°	4454.5	4667.1	3547.3	2609.1	2372.5	2609.1	3547.3	4667.1	4454.5	4647.7	*3393.5*
47.5°	3636.7	3768.9	2920.2	2254.8	2072.3	2254.8	2920.2	3768.9	3636.7	3698.0	*2834.2*
50°	2969.7	3041.8	2455.0	1954.1	1813.2	1954.1	2455.0	3041.8	2969.7	3007.4	*2374.1*
52.5°	2464.3	2500.0	2059.1	1715.1	1611.7	1715.1	2059.1	2500.0	2464.3	2470.1	*2023.1*
55°	2039.4	2047.9	1757.8	1508.0	1435.9	1508.0	1757.8	2047.9	2039.4	2040.9	*1728.3*
57.5°	1707.8	1720.2	1510.6	1341.7	1282.1	1341.7	1510.6	1720.2	1707.8	1710.5	*1496.7*
60°	1445.6	1453.7	1305.3	1191.9	1152.0	1191.9	1305.3	1453.7	1445.6	1442.1	*1297.2*
62.5°	1230.6	1246.1	1140.8	1062.1	1036.5	1062.1	1140.8	1246.1	1230.6	1234.0	*1140.3*
65°	1054.7	1064.8	999.7	944.4	935.4	944.4	999.7	1064.8	1054.7	1063.3	*1002.8*
67.5°	910.3	921.9	878.1	845.6	836.7	845.6	878.1	921.9	910.3	917.2	*878.8*
70°	788.3	788.3	764.7	746.5	746.8	746.5	764.7	788.3	788.3	789.4	*768.8*
72.5°	668.6	672.8	657.0	651.5	653.8	651.5	657.0	672.8	668.6	683.3	*661.6*
75°	559.3	564.0	555.8	552.7	559.3	552.7	555.8	564.0	559.3	567.0	*557.4*
77.5°	446.6	455.2	454.0	457.9	470.2	457.9	454.0	455.2	446.6	458.2	*460.6*
80°	342.4	349.8	350.2	359.8	377.3	359.8	350.2	349.8	342.4	349.8	*355.6*
82.5°	240.9	245.6	248.6	265.0	280.0	265.0	248.6	245.6	240.9	245.2	*252.9*
85°	143.4	139.5	144.8	155.0	170.9	155.0	144.8	139.5	143.4	143.4	*147.2*
87.5°	45.7	44.5	44.1	53.8	61.6	53.8	44.1	44.5	45.7	47.3	*49.2*
90°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
92.5°	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	*0.0*
95°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
97.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
100°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
102.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
105°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
107.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
110°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*

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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°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
115°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
117.5°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*
120°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*0.0*
122.5°	0.0	0.0	0.0	0.4	1.2	0.4	0.0	0.0	0.0	0.0	*0.0*
125°	0.0	0.0	0.0	0.4	1.2	0.4	0.0	0.0	0.0	0.0	*0.4*
127.5°	0.0	0.0	0.0	0.4	1.2	0.4	0.0	0.0	0.0	0.0	*0.4*
130°	0.4	0.0	0.4	0.7	1.2	0.7	0.4	0.0	0.4	0.4	*0.7*
132.5°	0.7	0.7	1.2	1.2	1.6	1.2	1.2	0.7	0.7	1.2	*1.2*
135°	1.6	1.2	1.6	1.6	2.0	1.6	1.6	1.2	1.6	1.6	*1.6*
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	*2.0*
140°	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.3	2.3	*2.3*
142.5°	2.7	2.7	2.7	3.1	3.1	3.1	2.7	2.7	2.7	3.1	*3.1*
145°	3.1	3.1	3.1	3.5	3.5	3.5	3.1	3.1	3.1	3.5	*3.5*
147.5°	3.5	3.5	3.5	4.3	4.6	4.3	3.5	3.5	3.5	3.5	*3.9*
150°	3.9	3.9	3.9	4.6	5.0	4.6	3.9	3.9	3.9	3.9	*4.3*
152.5°	3.9	3.9	4.3	5.0	5.4	5.0	4.3	3.9	3.9	3.9	*4.6*
155°	3.9	3.9	4.6	5.4	5.9	5.4	4.6	3.9	3.9	4.3	*5.0*
157.5°	4.6	4.6	5.4	6.2	7.0	6.2	5.4	4.6	4.6	5.0	*5.9*
160°	5.4	5.4	6.2	7.0	7.7	7.0	6.2	5.4	5.4	5.9	*6.6*
162.5°	5.9	6.2	6.6	7.7	8.5	7.7	6.6	6.2	5.9	6.2	*7.0*
165°	6.6	6.6	7.3	8.2	8.9	8.2	7.3	6.6	6.6	6.6	*7.7*
167.5°	7.0	7.0	7.7	8.9	9.3	8.9	7.7	7.0	7.0	7.0	*8.2*
170°	7.0	7.3	8.2	9.3	9.7	9.3	8.2	7.3	7.0	7.3	*8.5*
172.5°	7.7	8.2	8.9	10.0	10.5	10.0	8.9	8.2	7.7	8.2	*9.3*
175°	8.5	8.9	10.0	10.9	11.6	10.9	10.0	8.9	8.5	8.9	*10.0*
177.5°	8.9	9.3	10.5	11.2	12.0	11.2	10.5	9.3	8.9	9.3	*10.5*
180°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	*10.5*

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	18493.7	18493.7	18493.7	18493.7	18493.7	18493.7
2.5°	*18493.4*	*18500.3*	*18493.4*	*18501.5*	*18496.5*	*18484.8*
5°	18443.4	18440.3	18443.4	18451.6	18430.6	18419.0
7.5°	18249.8	18237.3	18249.8	18333.0	18318.3	18304.0
10°	17845.3	17760.1	17845.3	18063.0	18137.4	18114.2
12.5°	17140.4	16876.2	17140.4	17599.7	17853.1	17832.6
15°	16111.2	15657.6	16111.2	17006.3	17471.5	17496.7
17.5°	14779.5	14260.5	14779.5	16102.7	16985.9	16973.8
20°	13331.2	12573.6	13331.2	15076.3	16347.9	16415.3
22.5°	11749.7	10934.0	11749.7	13826.2	15592.2	15704.5
25°	10172.0	9321.4	10172.0	12437.7	14668.4	14796.1
27.5°	8697.4	7887.9	8697.4	11110.2	13636.9	13776.3
30°	7332.0	6551.2	7332.0	9741.8	12503.1	12519.0
32.5°	6190.1	5416.3	6190.1	8377.9	11294.6	11220.6
35°	5079.3	4437.4	5079.3	7126.4	9912.9	9817.2
37.5°	4241.8	3727.4	4241.8	6025.5	8509.9	8329.4
40°	3538.0	3125.9	3538.0	4975.0	7126.4	6832.3
42.5°	2957.7	2649.5	2957.7	4100.5	5755.2	5546.8
45°	2522.0	2290.4	2522.0	3393.5	4647.7	4454.5
47.5°	2200.9	2012.6	2200.9	2834.2	3698.0	3636.7
50°	1915.0	1785.7	1915.0	2374.1	3007.4	2969.7
52.5°	1684.6	1590.8	1684.6	2023.1	2470.1	2464.3
55°	1492.8	1416.5	1492.8	1728.3	2040.9	2039.4
57.5°	1325.8	1276.7	1325.8	1496.7	1710.5	1707.8
60°	1177.1	1160.1	1177.1	1297.2	1442.1	1445.6
62.5°	1063.3	1038.1	1063.3	1140.3	1234.0	1230.6
65°	950.1	944.4	950.1	1002.8	1063.3	1054.7
67.5°	847.9	842.9	847.9	878.8	917.2	910.3
70°	750.3	754.2	750.3	768.8	789.4	788.3
72.5°	655.8	656.5	655.8	661.6	683.3	668.6
75°	564.7	564.7	564.7	557.4	567.0	559.3
77.5°	465.6	477.2	465.6	460.6	458.2	446.6
80°	366.1	377.3	366.1	355.6	349.8	342.4
82.5°	265.4	283.6	265.4	252.9	245.2	240.9
85°	164.6	175.9	164.6	147.2	143.4	143.4
87.5°	62.0	67.8	62.0	49.2	47.3	45.7
90°	0.0	0.4	0.0	0.0	0.0	0.0
92.5°	0.0	0.4	0.0	0.0	0.0	0.0
95°	0.0	0.4	0.0	0.0	0.0	0.0
97.5°	0.0	0.4	0.0	0.0	0.0	0.0
100°	0.0	0.7	0.0	0.0	0.0	0.0
102.5°	0.0	0.7	0.0	0.0	0.0	0.0
105°	0.0	0.7	0.0	0.0	0.0	0.0
107.5°	0.0	0.7	0.0	0.0	0.0	0.0
110°	0.0	0.7	0.0	0.0	0.0	0.0

TEST NUMBER: P1431707
CATALOG NUMBER: EHBR1-24-UNV-TA-L950

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.7	0.0	0.0	0.0	0.0
115°	0.0	0.7	0.0	0.0	0.0	0.0
117.5°	0.0	0.7	0.0	0.0	0.0	0.0
120°	0.4	0.7	0.4	0.0	0.0	0.0
122.5°	0.4	1.2	0.4	0.0	0.0	0.0
125°	0.4	1.2	0.4	0.4	0.0	0.0
127.5°	0.7	1.2	0.7	0.4	0.0	0.0
130°	0.7	1.2	0.7	0.7	0.4	0.4
132.5°	1.6	1.6	1.6	1.2	1.2	0.7
135°	1.6	2.0	1.6	1.6	1.6	1.6
137.5°	2.0	2.3	2.0	2.0	2.0	2.0
140°	2.7	2.7	2.7	2.3	2.3	2.3
142.5°	3.1	3.5	3.1	3.1	3.1	2.7
145°	3.9	3.9	3.9	3.5	3.5	3.1
147.5°	4.3	4.6	4.3	3.9	3.5	3.5
150°	5.0	5.4	5.0	4.3	3.9	3.9
152.5°	5.0	5.9	5.0	4.6	3.9	3.9
155°	5.9	6.2	5.9	5.0	4.3	3.9
157.5°	6.6	7.0	6.6	5.9	5.0	4.6
160°	7.3	7.7	7.3	6.6	5.9	5.4
162.5°	8.2	8.5	8.2	7.0	6.2	5.9
165°	8.5	8.9	8.5	7.7	6.6	6.6
167.5°	8.9	9.3	8.9	8.2	7.0	7.0
170°	9.3	9.7	9.3	8.5	7.3	7.0
172.5°	10.0	10.5	10.0	9.3	8.2	7.7
175°	10.9	11.6	10.9	10.0	8.9	8.5
177.5°	11.2	12.0	11.2	10.5	9.3	8.9
180°	10.5	10.5	10.5	10.5	10.5	10.5

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

Scaled Data Report

TEST NUMBER: P1431707
CATALOG NUMBER: EHBR1-24-UNV-TA-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	19.25	20.51	19.61	20.83	21.14	17.51	18.78	17.88	19.09	19.41
	3H	20.48	21.61	20.86	21.94	22.31	19.21	20.33	19.59	20.66	21.03
	4H	20.99	22.04	21.40	22.39	22.78	19.93	20.98	20.33	21.33	21.72
	6H	21.38	22.34	21.80	22.72	23.11	20.54	21.50	20.95	21.87	22.27
	8H	21.50	22.42	21.94	22.81	23.22	20.76	21.67	21.19	22.07	22.47
	12H	21.57	22.45	22.01	22.83	23.26	20.91	21.78	21.34	22.16	22.59
4H	2H	19.54	20.59	19.94	20.94	21.33	18.12	19.17	18.52	19.52	19.90
	3H	21.04	21.90	21.45	22.30	22.71	20.03	20.89	20.44	21.30	21.70
	4H	21.69	22.47	22.13	22.89	23.33	20.88	21.65	21.31	22.07	22.52
	6H	22.22	22.89	22.69	23.34	23.81	21.62	22.29	22.08	22.73	23.20
	8H	22.39	23.02	22.86	23.46	23.94	21.89	22.52	22.36	22.96	23.44
	12H	22.50	23.05	22.99	23.54	24.01	22.08	22.63	22.57	23.12	23.59
8H	4H	21.90	22.53	22.37	22.97	23.45	21.18	21.80	21.65	22.25	22.72
	6H	22.56	23.07	23.07	23.57	24.05	22.05	22.56	22.56	23.06	23.54
	8H	22.81	23.26	23.33	23.78	24.27	22.41	22.87	22.94	23.39	23.88
	12H	22.99	23.39	23.51	23.88	24.46	22.69	23.09	23.21	23.59	24.16
12H	4H	21.91	22.46	22.40	22.95	23.42	21.20	21.75	21.69	22.23	22.71
	6H	22.60	23.06	23.12	23.57	24.07	22.10	22.56	22.63	23.08	23.57
	8H	22.90	23.30	23.42	23.80	24.37	22.52	22.92	23.04	23.42	23.99

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

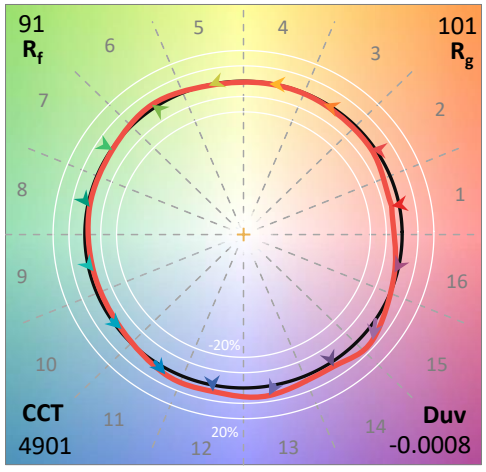
Test Information

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

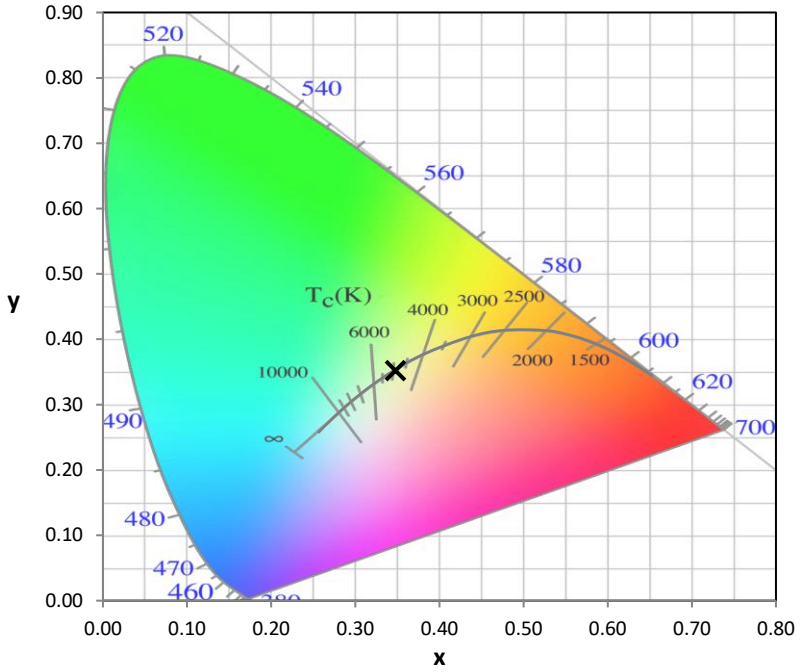
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

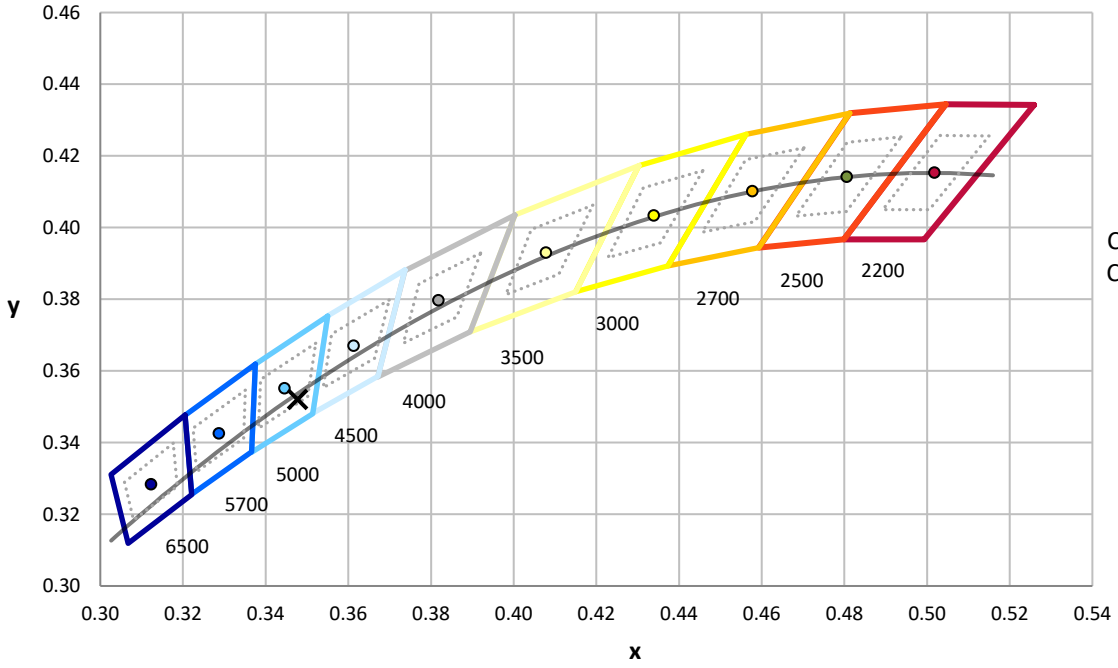
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

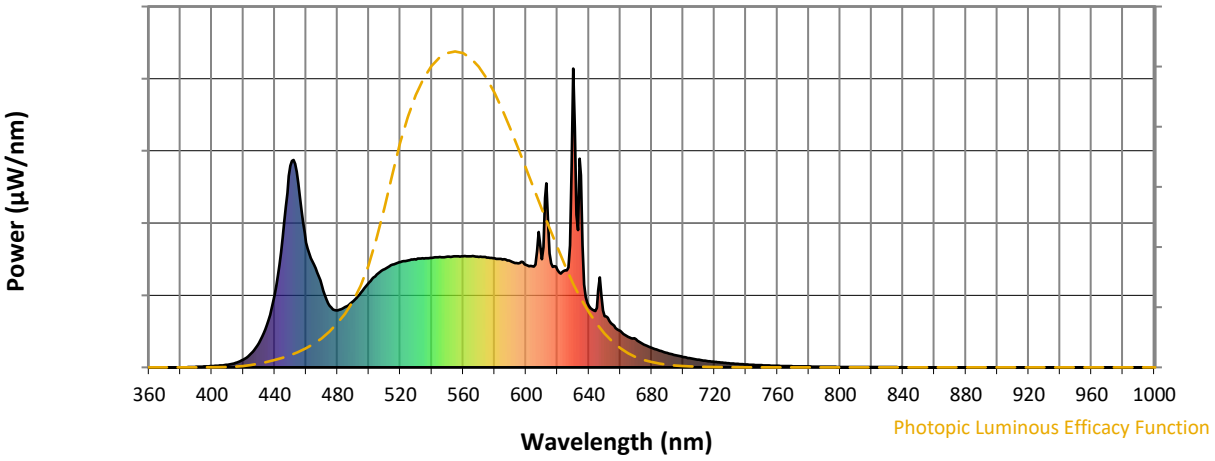


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

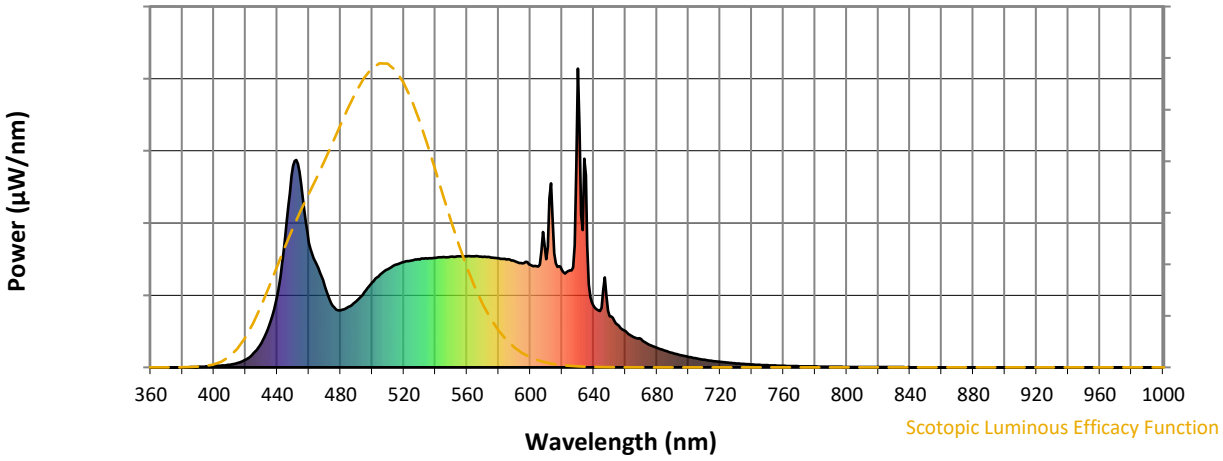


Photopic Lumens: NR

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

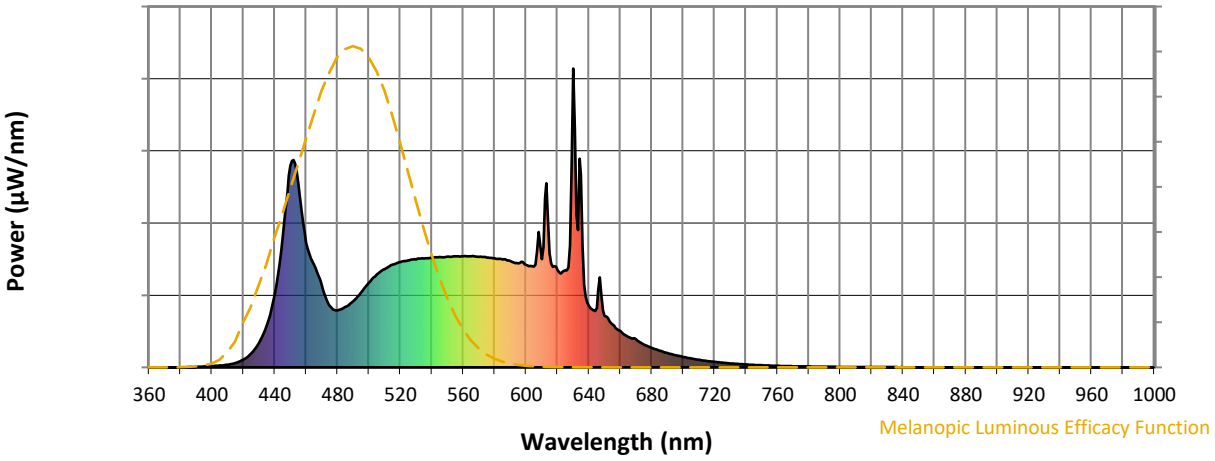


Scotopic Lumens: NR **S/P: 2.04**

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			

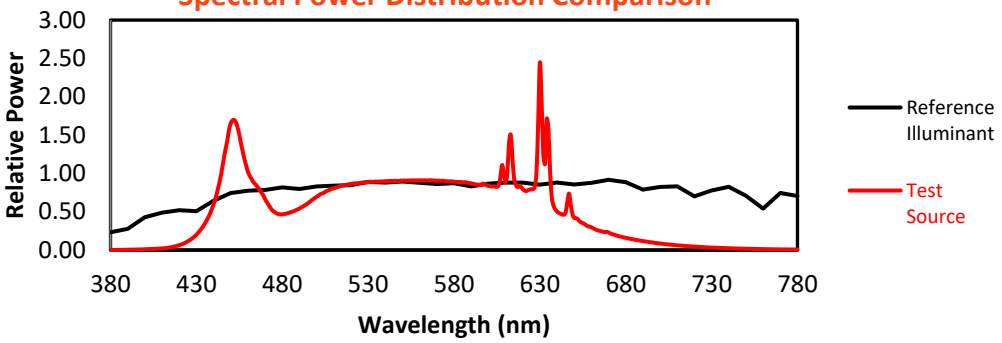
REPORT NUMBER: SP1-2506-472-8

TM-30-18

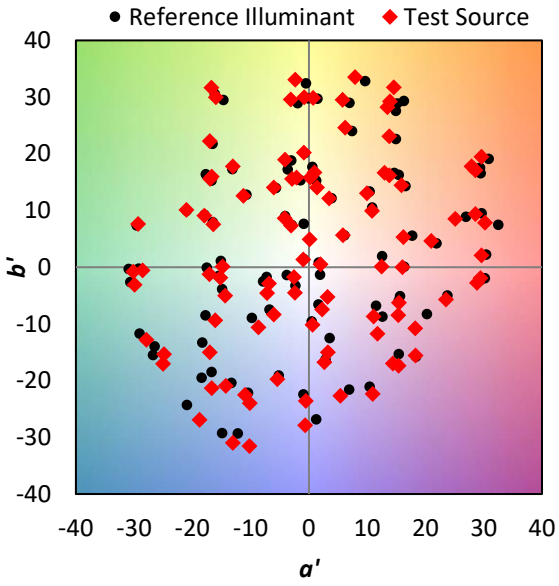
Summary

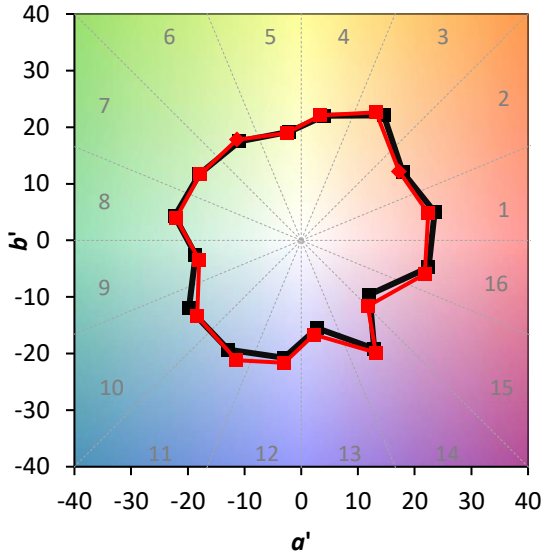
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

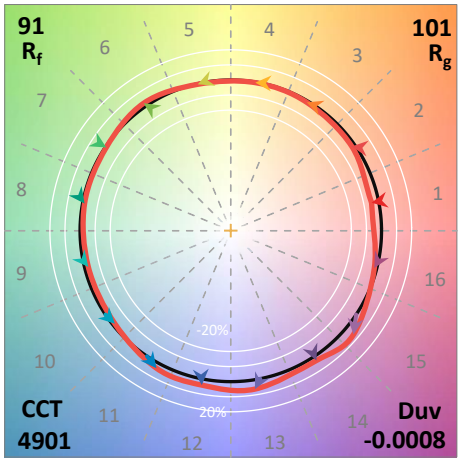
Spectral Power Distribution Comparison

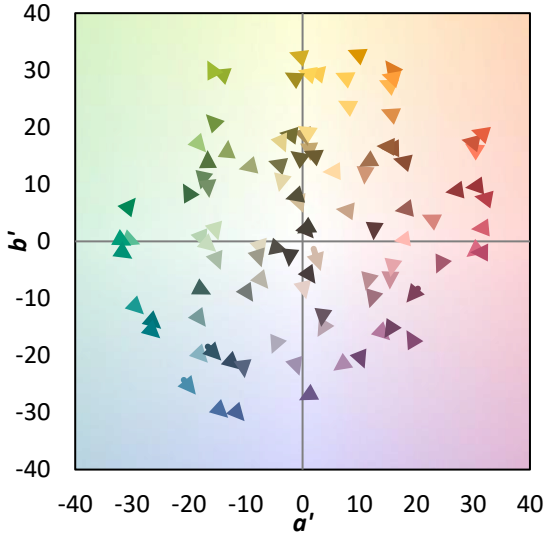


Color Vector Graphics







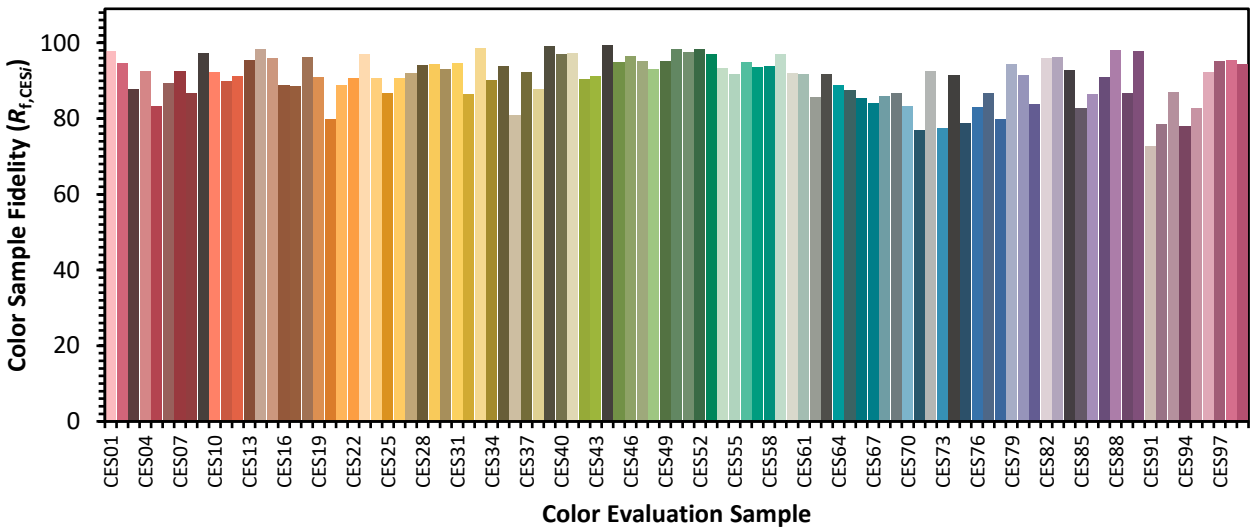


REPORT NUMBER: SP1-2506-472-8

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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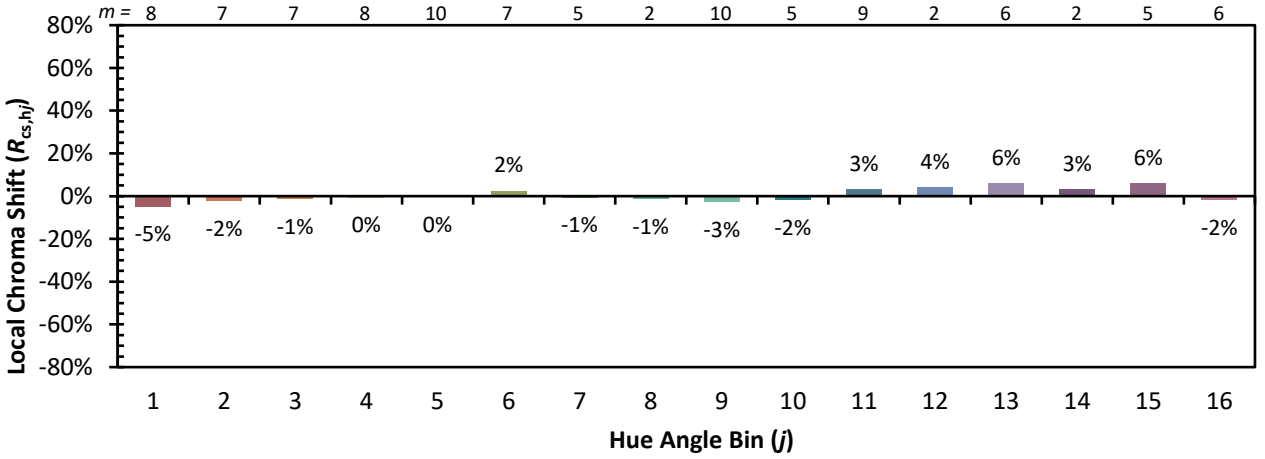
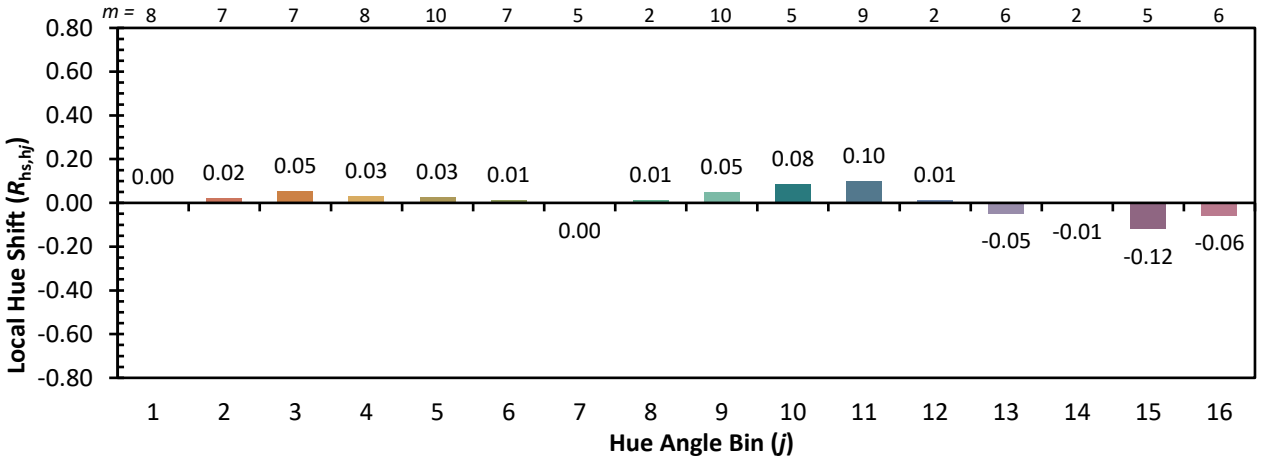
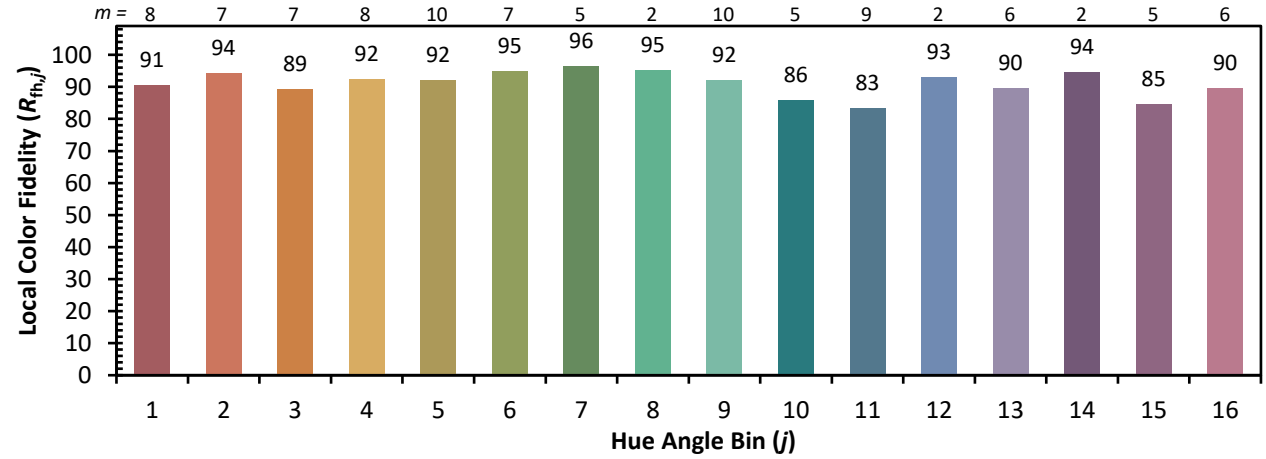
Color Rendition by Hue-Angle Bin







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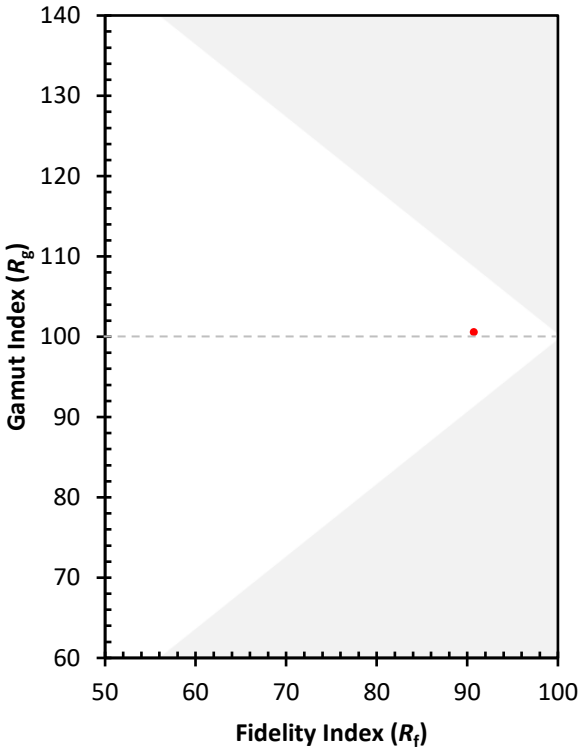
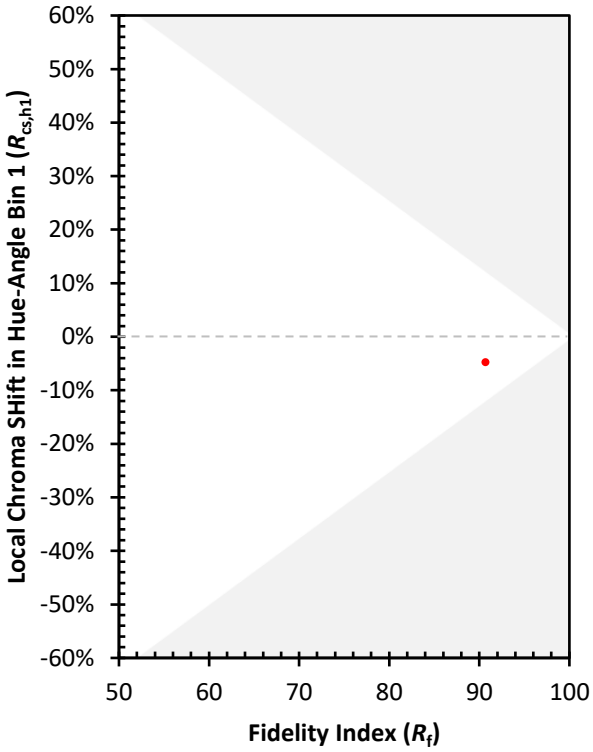
Measure Comparisons





(END OF REPORT)