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: P1431779

Luminaire Tested: EHBR1-36-UNV-TASM-L950

Issue Date: 3/13/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1431779
	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:	EHBR1-36-UNV-TASM-L950
Description:	Elevate Round Highbay at, 36000 lumens, 5000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	33514.0 lumens
Efficiency:	N/A
Efficacy:	175.1 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

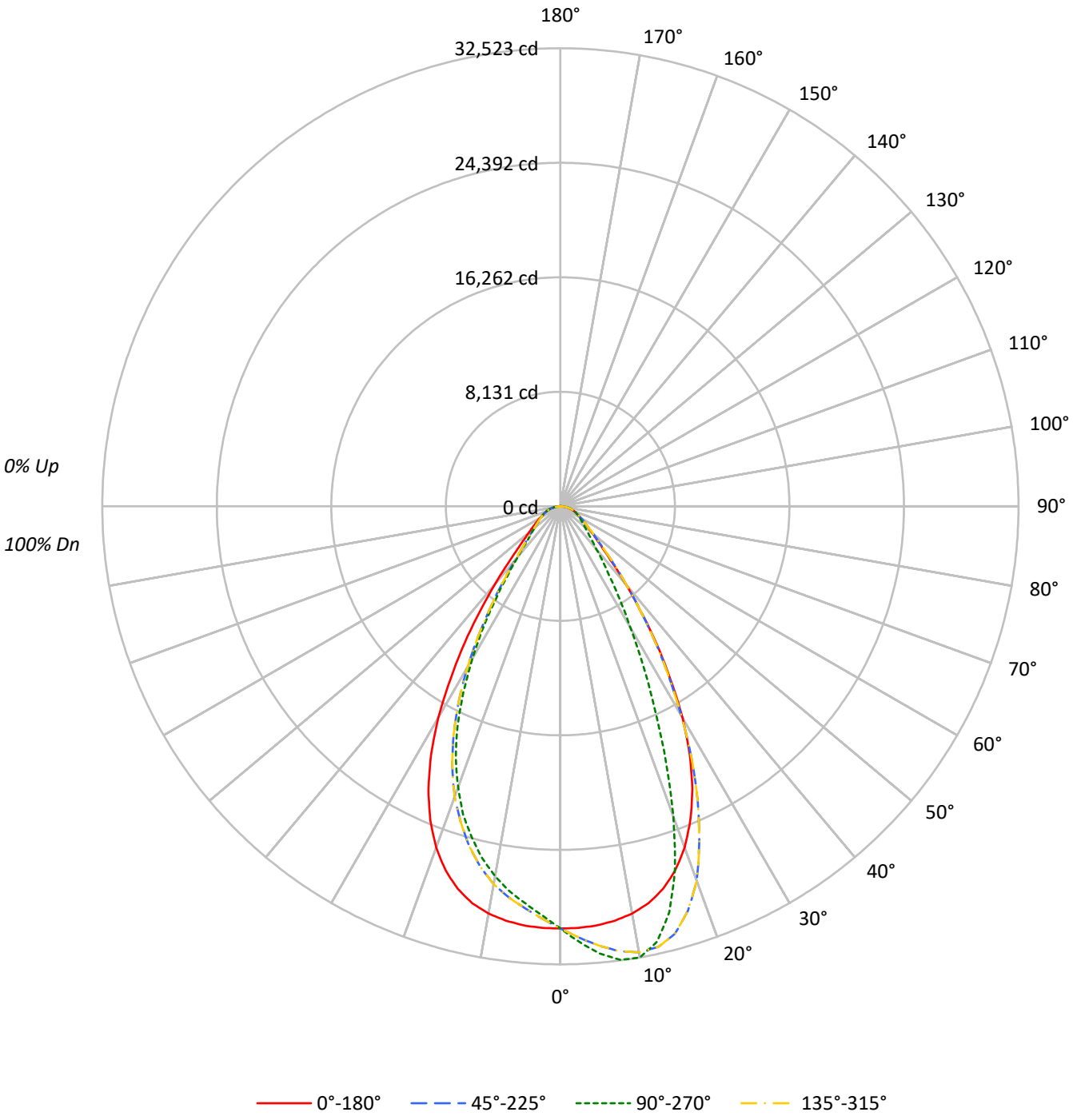
Input Watts (W):	191.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

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°	140755	140755	140755	140755
5°	140811	150218	140811	133503
10°	139994	155089	139994	127181
15°	136777	145097	136777	118272
20°	128818	117164	128818	106086
25°	114861	81781	114861	89565
30°	94009	53630	94009	67549
35°	68018	35036	68018	45364
40°	44408	24387	44408	28890
45°	28495	19104	28495	20817
50°	21443	16449	21443	17570
55°	17790	15227	17790	15760
60°	15720	14802	15720	14891
65°	14720	14663	14720	14601
70°	14493	14925	14493	14731
75°	14378	15317	14378	14858
80°	14057	16096	14057	15047
85°	11838	14958	11838	14262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 40062 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2849.9	8.5
10°-20°	7753.5	23.1
20°-30°	9093.2	27.1
30°-40°	6323.8	18.9
40°-50°	3142.6	9.4
50°-60°	1879.6	5.6
60°-70°	1323.0	3.9
70°-80°	852.2	2.5
80°-90°	270.7	0.8
90°-100°	1.6	0.0
100°-110°	1.9	0.0
110°-120°	1.9	0.0
120°-130°	2.4	0.0
130°-140°	3.3	0.0
140°-150°	3.9	0.0
150°-160°	4.4	0.0
160°-170°	4.3	0.0
170°-180°	1.9	0.0
0°-30°	19696.6	58.8
0°-40°	26020.4	77.6
0°-60°	31042.6	92.6
0°-90°	33488.5	99.9
90°-120°	5.4	0.0
90°-150°	15.0	0.0
90°-180°	26.0	0.1
0°-180°	33514.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	29973	29973	29973	29973	29973	
5°	29870	31866	29870	28320	29870	2835
15°	28133	29844	28133	24327	28133	7862
25°	22167	15783	22167	17285	22167	10036
35°	11864	6112	11864	7913	11864	7407
45°	4291	2876	4291	3134	4291	3511
55°	2173	1860	2173	1925	2173	1987
65°	1325	1320	1325	1314	1325	1330
75°	792	844	792	819	792	832
85°	220	278	220	265	220	244
90°	1	4	1	1	1	11
95°	1	4	1	1	1	1
105°	1	5	1	1	1	1
115°	2	5	2	1	2	1
125°	2	6	2	2	2	2
135°	4	6	4	2	4	3
145°	7	7	7	6	7	4
155°	9	10	9	11	9	4
165°	15	19	15	16	15	4
175°	20	24	20	19	20	2
180°	21	21	21	21	21	

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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	29972.8	29972.8	29972.8	29972.8	*29972.8*	29972.8	29972.8	29972.8	29972.8	29972.8	29972.8
2.5°	29955.3	30342.5	30656.1	30863.0	*30965.2*	30863.0	30656.1	30342.5	29955.3	29570.3	29305.6
5°	29870.5	30646.1	31303.1	31733.1	*31866.2*	31733.1	31303.1	30646.1	29870.5	29137.6	28651.4
7.5°	29667.5	30875.9	31852.2	32354.1	*32476.6*	32354.1	31852.2	30875.9	29667.5	28630.0	28015.8
10°	*29357.9*	*31020.9*	*32148.9*	*32508.6*	*32523.3*	*32508.6*	*32148.9*	*31020.9*	*29357.9*	*27960.1*	*27235.6*
12.5°	28863.9	30969.2	32049.4	31931.4	*31663.3*	31931.4	32049.4	30969.2	28863.9	27141.7	26227.9
15°	28133.2	30662.9	31419.4	30458.9	*29844.5*	30458.9	31419.4	30662.9	28133.2	26036.8	24976.8
17.5°	27103.6	30089.6	30104.2	28204.0	*27045.1*	28204.0	30104.2	30089.6	27103.6	24685.6	23518.3
20°	25776.6	29170.2	28293.4	24817.7	*23444.7*	24817.7	28293.4	29170.2	25776.6	23088.4	21943.0
22.5°	24112.9	27930.3	25771.5	21411.2	*19538.0*	21411.2	25771.5	27930.3	24112.9	21230.8	20038.8
25°	22167.2	26411.1	23058.6	17699.6	*15783.0*	17699.6	23058.6	26411.1	22167.2	19017.6	17939.6
27.5°	19878.6	24485.6	20169.8	14463.4	*12695.2*	14463.4	20169.8	24485.6	19878.6	16732.3	15631.3
30°	17336.5	22017.1	17163.4	11518.3	*9890.1*	11518.3	17163.4	22017.1	17336.5	14165.0	13179.1
32.5°	14490.4	19597.6	14276.2	9229.2	*7849.9*	9229.2	14276.2	19597.6	14490.4	11715.0	10684.8
35°	11864.5	16570.5	11672.9	7251.9	*6111.5*	7251.9	11672.9	16570.5	11864.5	9402.3	8390.6
37.5°	9311.2	13710.3	9305.1	5839.6	*4957.1*	5839.6	9305.1	13710.3	9311.2	7309.8	6488.7
40°	7244.0	10720.2	7290.7	4661.6	*3978.1*	4661.6	7290.7	10720.2	7244.0	5561.9	5036.4
42.5°	5488.8	8197.3	5730.5	3825.8	*3378.9*	3825.8	5730.5	8197.3	5488.8	4382.2	3988.8
45°	4290.6	6032.3	4474.9	3227.7	*2876.5*	3227.7	4474.9	6032.3	4290.6	3529.1	3264.8
47.5°	3494.2	4662.1	3626.8	2768.6	*2522.5*	2768.6	3626.8	4662.1	3494.2	2985.0	2787.2
50°	2935.0	3577.4	3011.4	2416.7	*2251.5*	2416.7	3011.4	3577.4	2935.0	2556.1	2424.1
52.5°	2521.2	2917.5	2564.5	2153.7	*2042.5*	2153.7	2564.5	2917.5	2521.2	2236.4	2154.2
55°	2172.8	2452.7	2230.2	1936.7	*1859.8*	1936.7	2230.2	2452.7	2172.8	1990.2	1929.5
57.5°	1908.1	2080.7	1936.7	1751.8	*1700.7*	1751.8	1936.7	2080.7	1908.1	1771.0	1738.4
60°	1673.7	1801.9	1709.1	1590.6	*1576.0*	1590.6	1709.1	1801.9	1673.7	1593.3	1572.0
62.5°	1493.4	1574.3	1511.3	1445.5	*1432.6*	1445.5	1511.3	1574.3	1493.4	1431.5	1435.5
65°	1324.7	1400.0	1350.6	1315.2	*1319.6*	1315.2	1350.6	1400.0	1324.7	1296.0	1302.2
67.5°	1194.3	1233.7	1212.3	1192.1	*1197.2*	1192.1	1212.3	1233.7	1194.3	1166.2	1175.8
70°	1055.5	1097.7	1075.7	1078.5	*1087.0*	1078.5	1075.7	1097.7	1055.5	1047.1	1054.4
72.5°	922.9	955.5	948.2	954.9	*963.9*	954.9	948.2	955.5	922.9	921.8	922.3
75°	792.4	817.2	820.6	830.2	*844.2*	830.2	820.6	817.2	792.4	784.1	794.1
77.5°	650.3	678.3	689.0	701.9	*722.8*	701.9	689.0	678.3	650.3	655.9	661.0
80°	519.8	532.8	556.4	565.9	*595.2*	565.9	556.4	532.8	519.8	510.4	517.6
82.5°	380.5	392.3	412.5	430.6	*447.4*	430.6	412.5	392.3	380.5	376.0	376.6
85°	219.7	237.8	251.2	272.6	*277.6*	272.6	251.2	237.8	219.7	224.8	219.7
87.5°	77.0	82.6	94.4	102.9	*103.4*	102.9	94.4	82.6	77.0	78.7	71.4
90°	0.6	1.1	1.7	3.3	*4.5*	3.3	1.7	1.1	0.6	0.6	0.6
92.5°	0.6	1.1	1.7	3.3	*4.5*	3.3	1.7	1.1	0.6	0.6	0.6
95°	1.1	1.1	1.7	3.3	*4.5*	3.3	1.7	1.1	1.1	0.6	0.6
97.5°	1.1	1.1	1.7	3.3	*4.5*	3.3	1.7	1.1	1.1	0.6	0.6
100°	1.1	1.1	1.7	3.3	*4.5*	3.3	1.7	1.1	1.1	1.1	0.6
102.5°	1.1	1.7	2.2	3.9	*4.5*	3.9	2.2	1.7	1.1	1.1	0.6
105°	1.1	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.1	1.1	0.6
107.5°	1.1	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.1	1.1	1.1
110°	1.1	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.1	1.1	1.1

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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.1	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.1	1.1	1.1
115°	1.7	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.7	1.1	1.1
117.5°	1.7	1.7	2.2	3.9	*5.0*	3.9	2.2	1.7	1.7	1.7	1.1
120°	1.7	1.7	2.8	3.9	*5.0*	3.9	2.8	1.7	1.7	1.7	1.1
122.5°	2.2	2.2	2.8	4.5	*5.0*	4.5	2.8	2.2	2.2	2.2	1.7
125°	2.2	2.2	3.3	4.5	*5.6*	4.5	3.3	2.2	2.2	2.8	2.2
127.5°	2.8	2.8	3.3	4.5	*5.6*	4.5	3.3	2.8	2.8	2.8	2.2
130°	3.3	2.8	3.3	5.0	*5.6*	5.0	3.3	2.8	3.3	3.3	2.8
132.5°	3.9	3.3	3.9	5.6	*6.2*	5.6	3.9	3.3	3.9	4.5	3.9
135°	4.5	3.3	4.5	5.0	*6.2*	5.0	4.5	3.3	4.5	5.0	3.9
137.5°	5.0	3.9	4.5	5.6	*6.2*	5.6	4.5	3.9	5.0	5.6	5.0
140°	5.6	4.5	4.5	5.6	*6.8*	5.6	4.5	4.5	5.6	5.6	5.6
142.5°	6.2	5.0	5.0	6.2	*6.8*	6.2	5.0	5.0	6.2	6.2	6.2
145°	6.8	6.2	5.6	6.2	*7.3*	6.2	5.6	6.2	6.8	6.2	6.8
147.5°	6.8	6.2	6.2	6.8	*7.9*	6.8	6.2	6.2	6.8	6.8	7.3
150°	7.3	7.3	6.8	7.3	*8.5*	7.3	6.8	7.3	7.3	7.3	7.9
152.5°	7.9	7.9	7.9	8.5	*9.0*	8.5	7.9	7.9	7.9	7.9	8.5
155°	9.0	9.0	9.0	9.6	*10.1*	9.6	9.0	9.0	9.0	8.5	9.6
157.5°	10.1	10.7	10.7	11.2	*11.8*	11.2	10.7	10.7	10.1	10.1	10.7
160°	12.4	12.4	12.9	13.5	*14.0*	13.5	12.9	12.4	12.4	11.8	12.4
162.5°	13.5	13.5	14.6	15.1	*16.3*	15.1	14.6	13.5	13.5	13.5	13.5
165°	15.1	15.1	16.3	17.5	*18.6*	17.5	16.3	15.1	15.1	14.6	14.6
167.5°	16.3	16.3	17.5	19.1	*20.3*	19.1	17.5	16.3	16.3	15.7	15.7
170°	16.8	17.5	18.6	20.3	*21.4*	20.3	18.6	17.5	16.8	16.8	16.3
172.5°	18.6	18.6	20.3	21.9	*23.0*	21.9	20.3	18.6	18.6	18.0	18.0
175°	19.7	20.3	21.4	23.0	*24.2*	23.0	21.4	20.3	19.7	19.1	19.1
177.5°	19.7	20.8	21.9	23.6	*24.7*	23.6	21.9	20.8	19.7	19.1	19.1
180°	20.8	20.8	20.8	20.8	*20.8*	20.8	20.8	20.8	20.8	20.8	20.8

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	29972.8	29972.8	29972.8	29972.8	29972.8	29972.8
2.5°	29102.2	29083.0	29102.2	29305.6	29570.3	29955.3
5°	28426.0	28320.3	28426.0	28651.4	29137.6	29870.5
7.5°	27638.6	27577.3	27638.6	28015.8	28630.0	29667.5
10°	*26809.6*	*26670.8*	*26809.6*	*27235.6*	*27960.1*	*29357.9*
12.5°	25787.8	25604.1	25787.8	26227.9	27141.7	28863.9
15°	24488.4	24327.1	24488.4	24976.8	26036.8	28133.2
17.5°	23094.0	22947.8	23094.0	23518.3	24685.6	27103.6
20°	21342.7	21228.0	21342.7	21943.0	23088.4	25776.6
22.5°	19505.4	19398.0	19505.4	20038.8	21230.8	24112.9
25°	17343.8	17285.3	17343.8	17939.6	19017.6	22167.2
27.5°	15008.0	14908.6	15008.0	15631.3	16732.3	19878.6
30°	12621.6	12456.9	12621.6	13179.1	14165.0	17336.5
32.5°	10287.4	10168.9	10287.4	10684.8	11715.0	14490.4
35°	8031.4	7912.9	8031.4	8390.6	9402.3	11864.5
37.5°	6258.2	6048.6	6258.2	6488.7	7309.8	9311.2
40°	4746.4	4712.7	4746.4	5036.4	5561.9	7244.0
42.5°	3864.0	3772.4	3864.0	3988.8	4382.2	5488.8
45°	3170.4	3134.5	3170.4	3264.8	3529.1	4290.6
47.5°	2726.4	2742.2	2726.4	2787.2	2985.0	3494.2
50°	2395.3	2404.9	2395.3	2424.1	2556.1	2935.0
52.5°	2151.5	2143.0	2151.5	2154.2	2236.4	2521.2
55°	1935.6	1924.9	1935.6	1929.5	1990.2	2172.8
57.5°	1746.8	1754.6	1746.8	1738.4	1771.0	1908.1
60°	1578.2	1585.5	1578.2	1572.0	1593.3	1673.7
62.5°	1436.0	1440.5	1436.0	1435.5	1431.5	1493.4
65°	1308.9	1314.0	1308.9	1302.2	1296.0	1324.7
67.5°	1187.6	1187.6	1187.6	1175.8	1166.2	1194.3
70°	1073.5	1072.9	1073.5	1054.4	1047.1	1055.5
72.5°	936.4	949.8	936.4	922.3	921.8	922.9
75°	803.1	818.9	803.1	794.1	784.1	792.4
77.5°	668.2	692.5	668.2	661.0	655.9	650.3
80°	530.0	556.4	530.0	517.6	510.4	519.8
82.5°	391.7	411.4	391.7	376.6	376.0	380.5
85°	233.2	264.7	233.2	219.7	224.8	219.7
87.5°	74.8	95.5	74.8	71.4	78.7	77.0
90°	0.6	0.6	0.6	0.6	0.6	0.6
92.5°	0.6	0.6	0.6	0.6	0.6	0.6
95°	0.6	0.6	0.6	0.6	0.6	1.1
97.5°	0.6	1.1	0.6	0.6	0.6	1.1
100°	0.6	1.1	0.6	0.6	1.1	1.1
102.5°	0.6	1.1	0.6	0.6	1.1	1.1
105°	0.6	1.1	0.6	0.6	1.1	1.1
107.5°	0.6	1.1	0.6	1.1	1.1	1.1
110°	0.6	1.1	0.6	1.1	1.1	1.1

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.6	1.1	0.6	1.1	1.1	1.1
115°	0.6	1.1	0.6	1.1	1.1	1.7
117.5°	0.6	1.1	0.6	1.1	1.7	1.7
120°	0.6	1.1	0.6	1.1	1.7	1.7
122.5°	1.1	1.1	1.1	1.7	2.2	2.2
125°	1.1	1.7	1.1	2.2	2.8	2.2
127.5°	1.1	1.7	1.1	2.2	2.8	2.8
130°	1.7	1.7	1.7	2.8	3.3	3.3
132.5°	2.2	2.2	2.2	3.9	4.5	3.9
135°	2.8	2.2	2.8	3.9	5.0	4.5
137.5°	3.3	2.8	3.3	5.0	5.6	5.0
140°	4.5	3.9	4.5	5.6	5.6	5.6
142.5°	5.0	5.0	5.0	6.2	6.2	6.2
145°	6.2	6.2	6.2	6.8	6.2	6.8
147.5°	7.3	7.3	7.3	7.3	6.8	6.8
150°	8.5	8.5	8.5	7.9	7.3	7.3
152.5°	9.0	9.6	9.0	8.5	7.9	7.9
155°	10.1	10.7	10.1	9.6	8.5	9.0
157.5°	11.2	12.4	11.2	10.7	10.1	10.1
160°	12.9	13.5	12.9	12.4	11.8	12.4
162.5°	14.0	14.6	14.0	13.5	13.5	13.5
165°	15.1	15.7	15.1	14.6	14.6	15.1
167.5°	15.7	15.7	15.7	15.7	15.7	16.3
170°	16.3	16.8	16.3	16.3	16.8	16.8
172.5°	17.5	18.0	17.5	18.0	18.0	18.6
175°	18.6	19.1	18.6	19.1	19.1	19.7
177.5°	19.1	19.7	19.1	19.1	19.1	19.7
180°	20.8	20.8	20.8	20.8	20.8	20.8

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

Scaled Data Report

TEST NUMBER: P1431779
CATALOG NUMBER: EHBR1-36-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	18.84	20.05	19.21	20.36	20.68	18.16	19.36	18.52	19.68	20.00
	3H	20.48	21.55	20.86	21.88	22.25	20.11	21.18	20.49	21.51	21.88
	4H	21.18	22.18	21.59	22.54	22.92	20.97	21.97	21.37	22.32	22.71
	6H	21.75	22.67	22.17	23.05	23.44	21.72	22.64	22.14	23.01	23.41
	8H	21.96	22.83	22.39	23.22	23.63	22.01	22.88	22.44	23.27	23.68
	12H	22.08	22.91	22.52	23.30	23.73	22.20	23.03	22.64	23.42	23.85
4H	2H	19.30	20.30	19.71	20.65	21.04	18.79	19.79	19.19	20.14	20.53
	3H	21.21	22.04	21.63	22.44	22.85	20.96	21.79	21.38	22.20	22.60
	4H	22.07	22.81	22.51	23.23	23.68	21.96	22.70	22.40	23.12	23.57
	6H	22.79	23.43	23.26	23.88	24.35	22.86	23.49	23.32	23.94	24.41
	8H	23.05	23.65	23.52	24.10	24.57	23.20	23.80	23.67	24.25	24.72
	12H	23.22	23.74	23.71	24.23	24.71	23.45	23.98	23.94	24.46	24.94
8H	4H	22.38	22.97	22.85	23.42	23.90	22.30	22.90	22.77	23.35	23.82
	6H	23.25	23.74	23.76	24.24	24.72	23.35	23.84	23.86	24.34	24.82
	8H	23.60	24.04	24.13	24.56	25.05	23.80	24.23	24.33	24.75	25.25
	12H	23.86	24.24	24.38	24.74	25.31	24.16	24.54	24.68	25.03	25.61
12H	4H	22.41	22.93	22.90	23.42	23.89	22.33	22.86	22.82	23.34	23.82
	6H	23.32	23.76	23.85	24.27	24.77	23.43	23.86	23.95	24.38	24.87
	8H	23.74	24.12	24.26	24.61	25.19	23.94	24.32	24.46	24.82	25.39

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

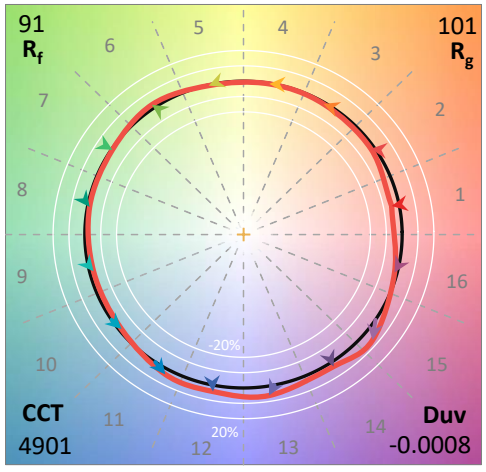
Test Information

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

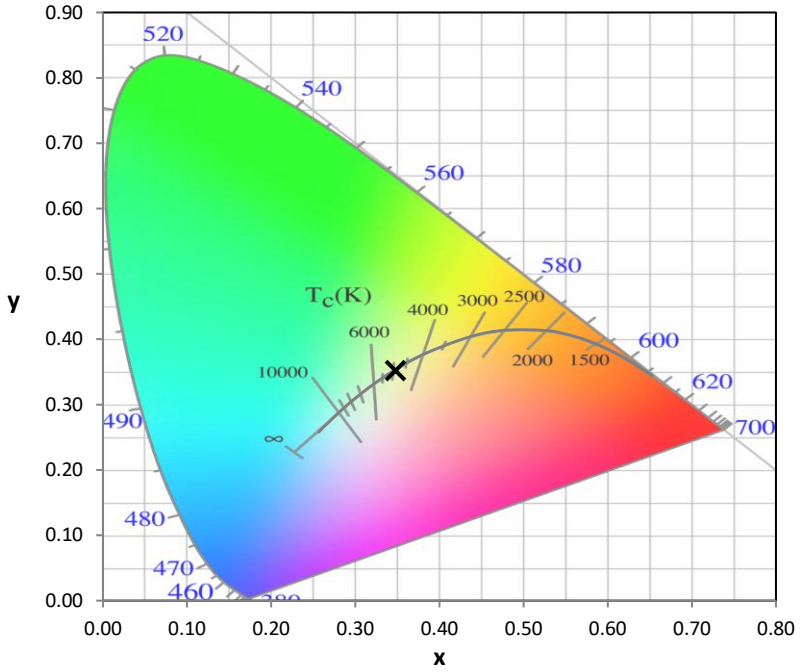
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

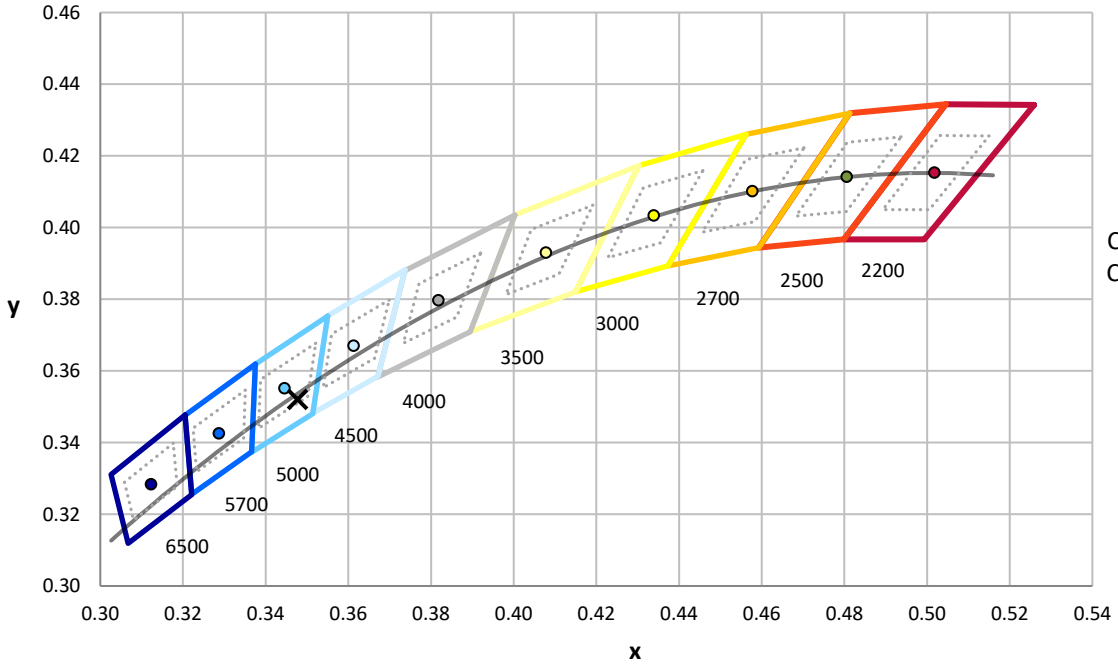
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

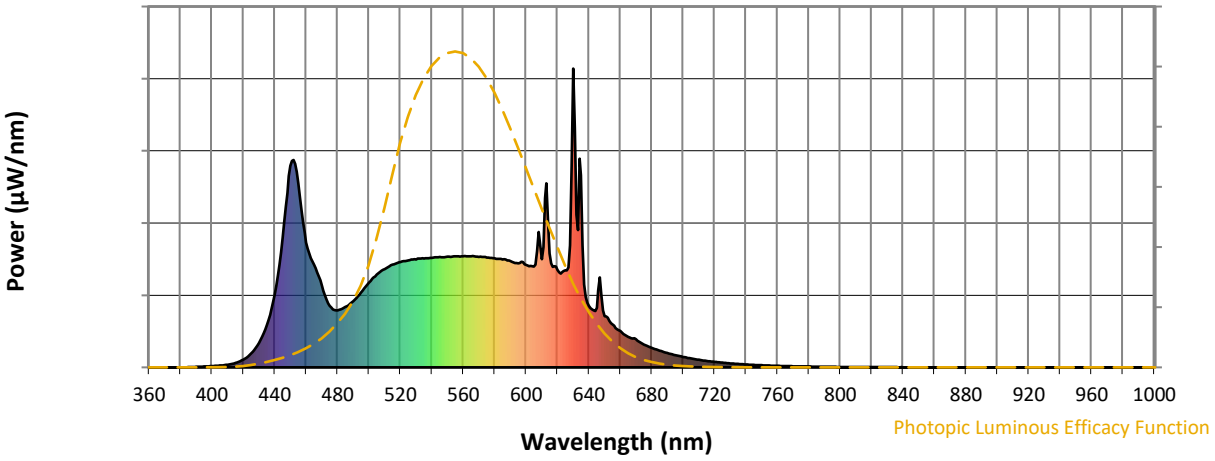


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

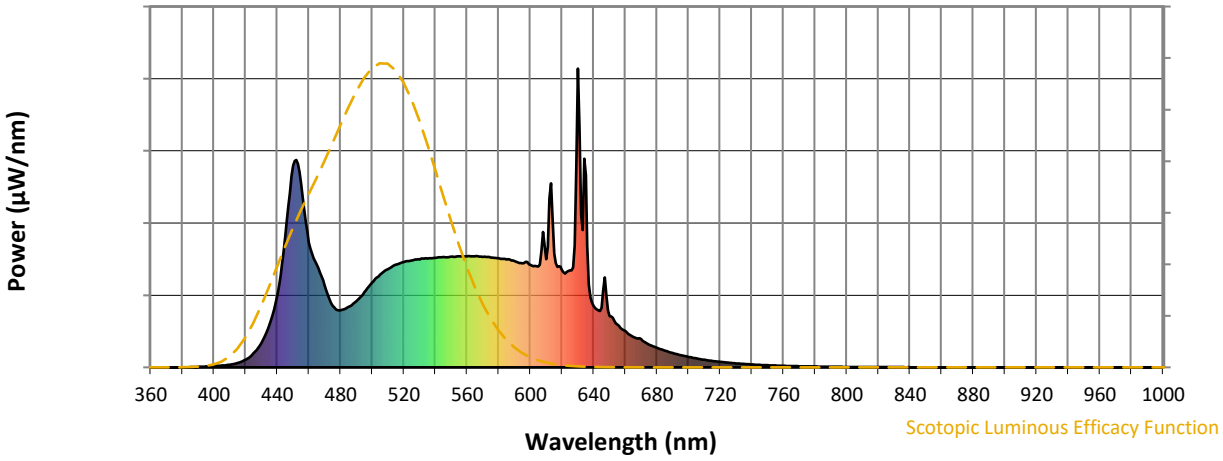


Photopic Lumens: NR

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

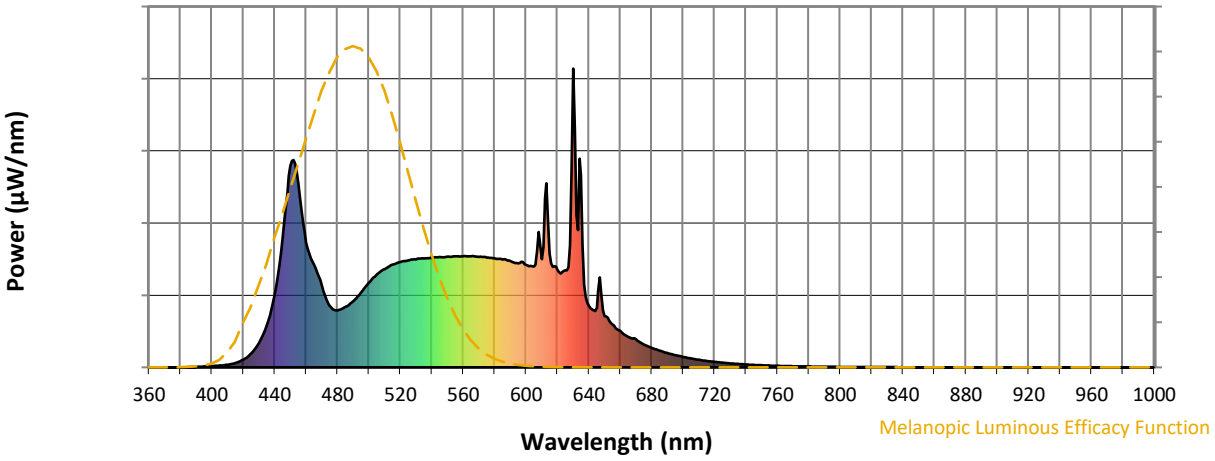


Scotopic Lumens: NR **S/P: 2.04**

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			

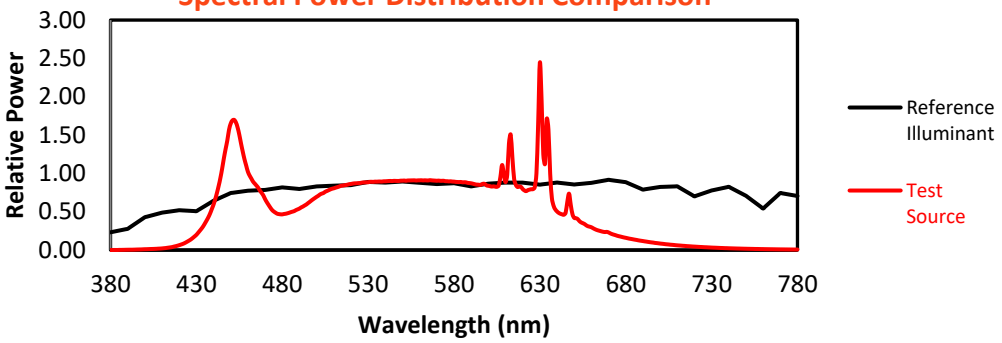
REPORT NUMBER: SP1-2506-472-8

TM-30-18

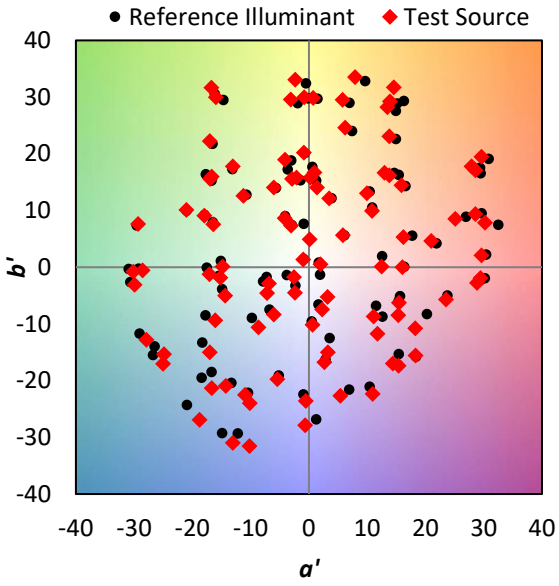
Summary

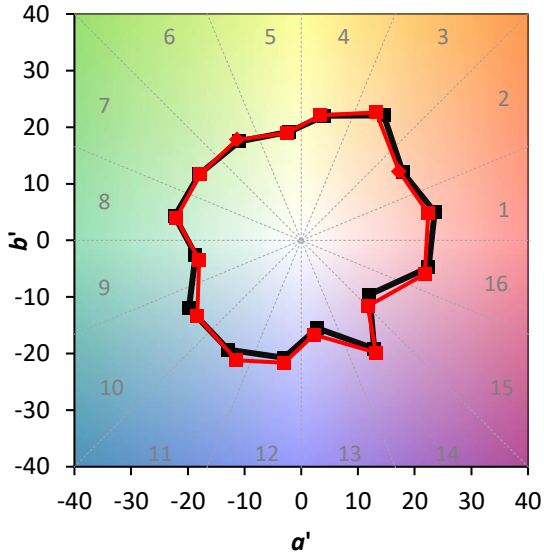
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

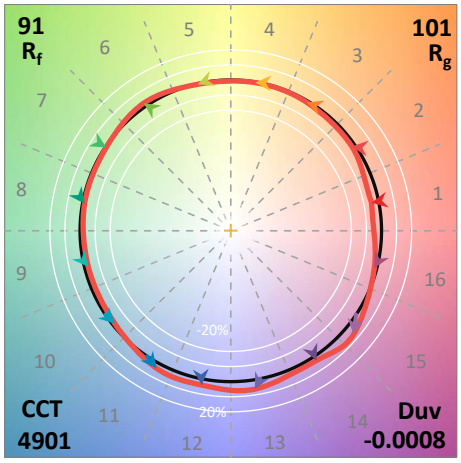
Spectral Power Distribution Comparison

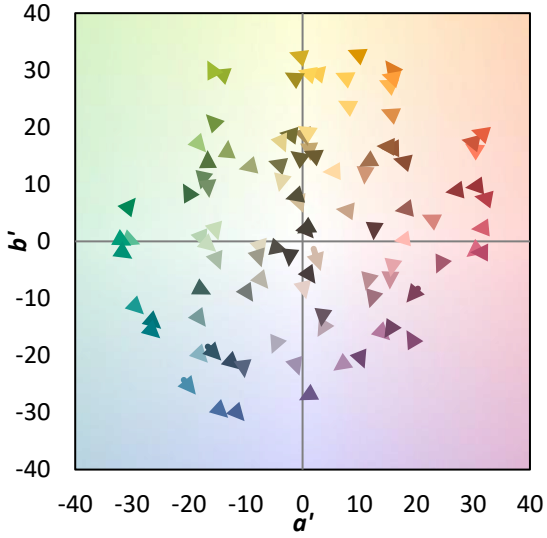


Color Vector Graphics







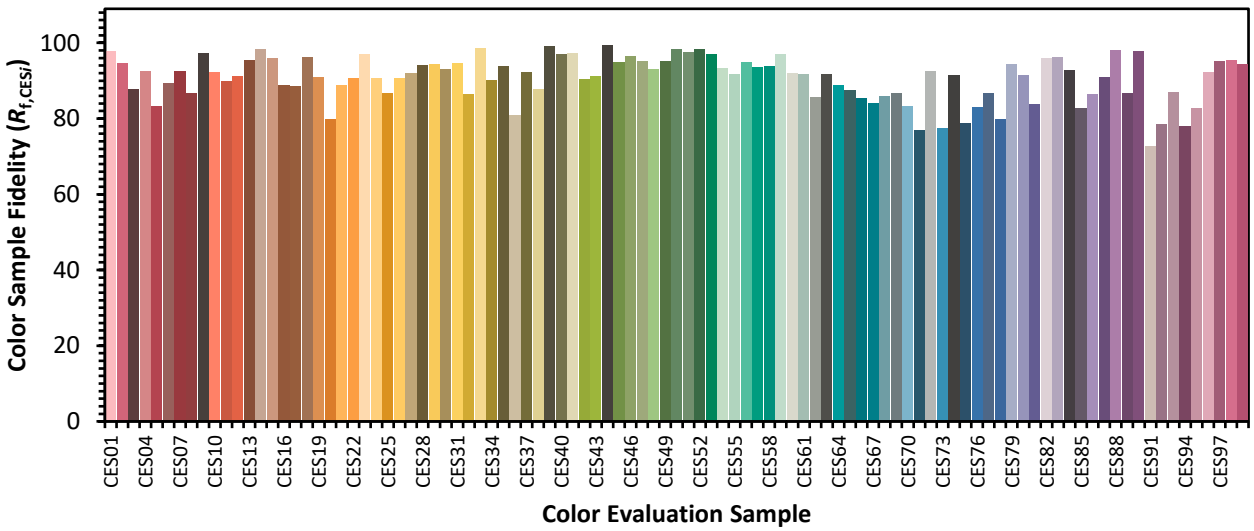


REPORT NUMBER: SP1-2506-472-8

TM-30-18

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

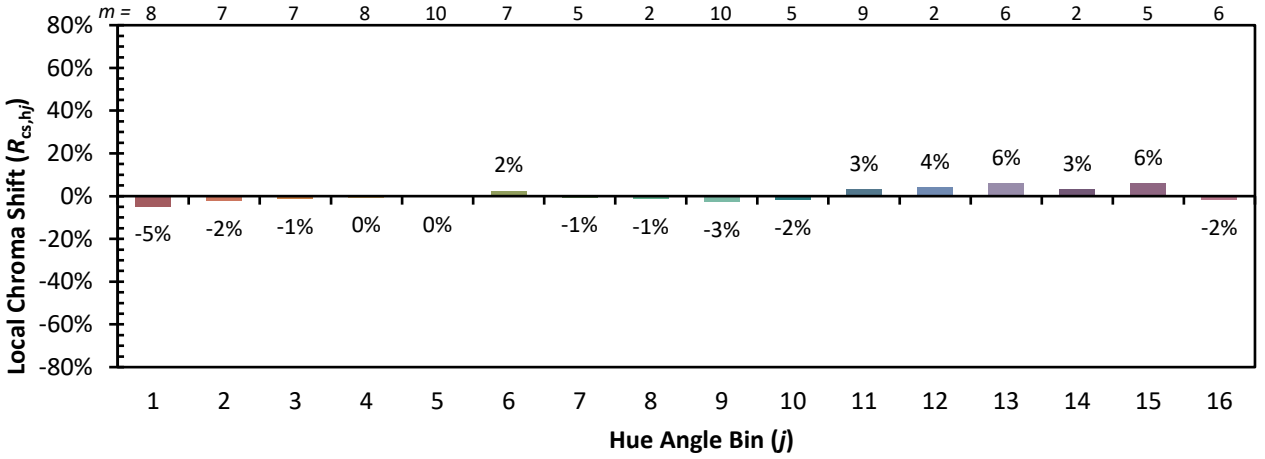
CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 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	

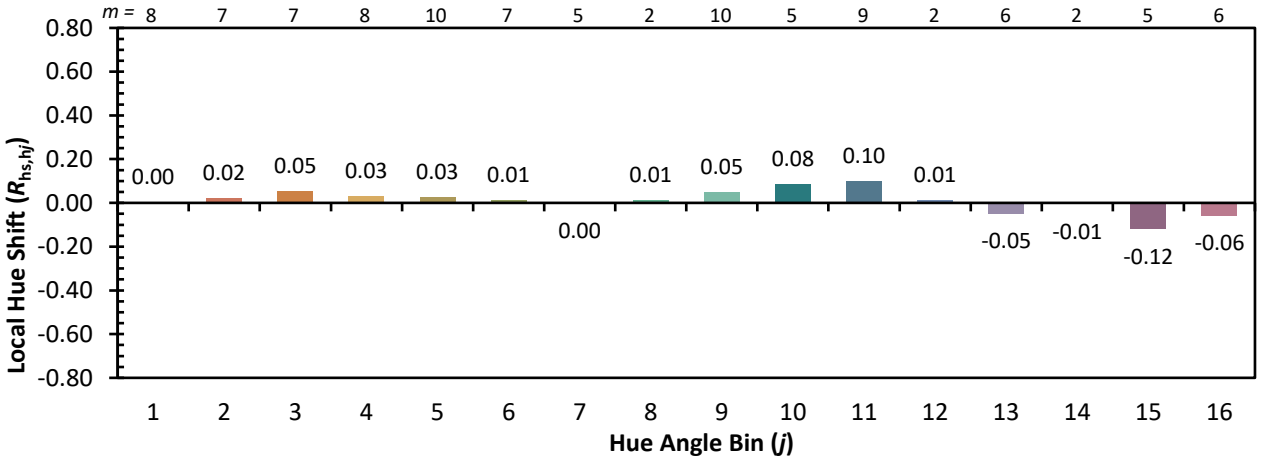


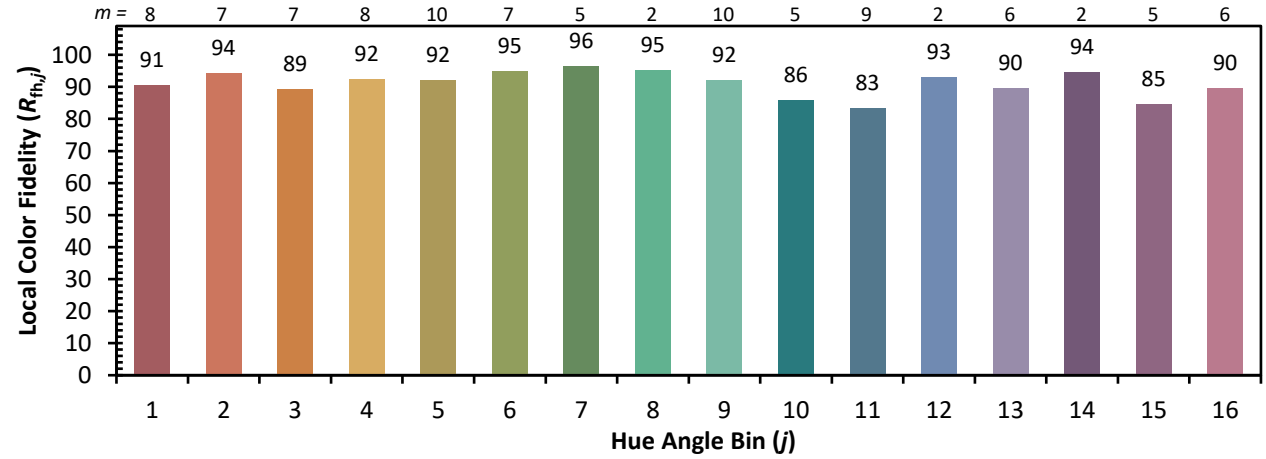
REPORT NUMBER: SP1-2506-472-8

TM-30-18

Color Rendition by Hue-Angle Bin



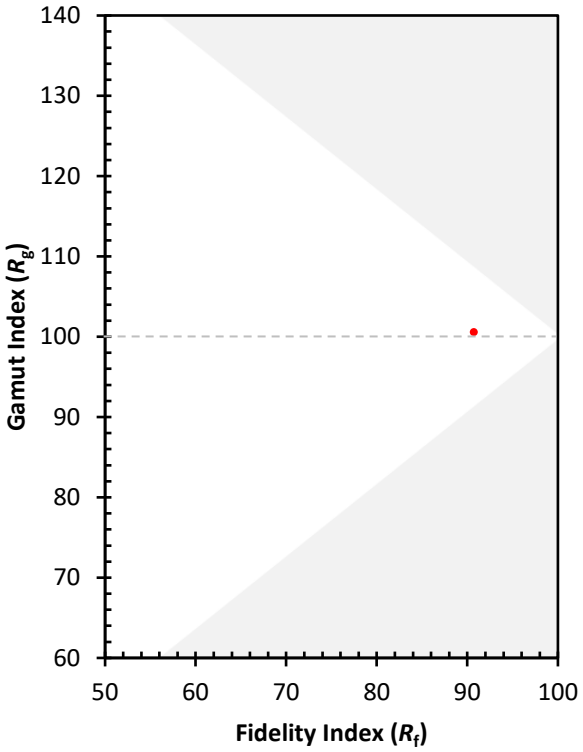


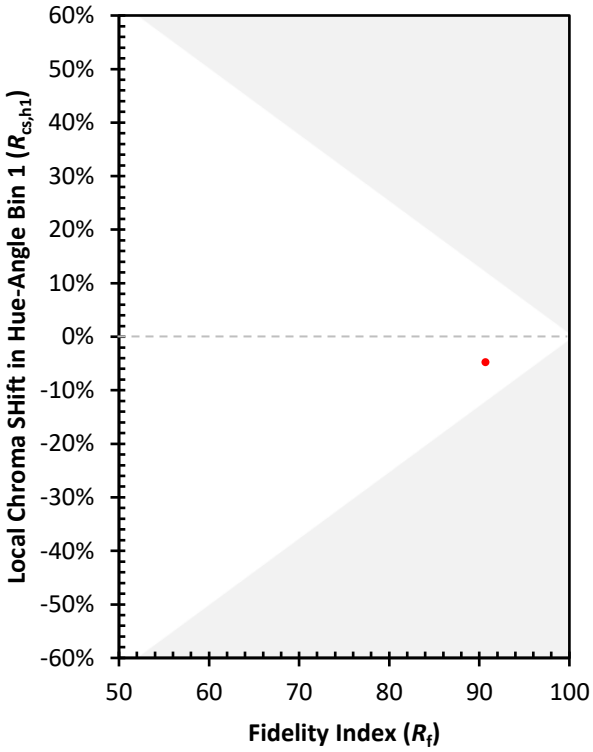


REPORT NUMBER: SP1-2506-472-8

TM-30-18

Measure Comparisons





(END OF REPORT)