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: EHBR1-36-UNV-TASM-L950-UPL12

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 P1431772 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TASM-L950-UPL12
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:	34637.3 lumens
Efficiency:	N/A
Efficacy:	174.2 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.84 / 0.9
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	198.8
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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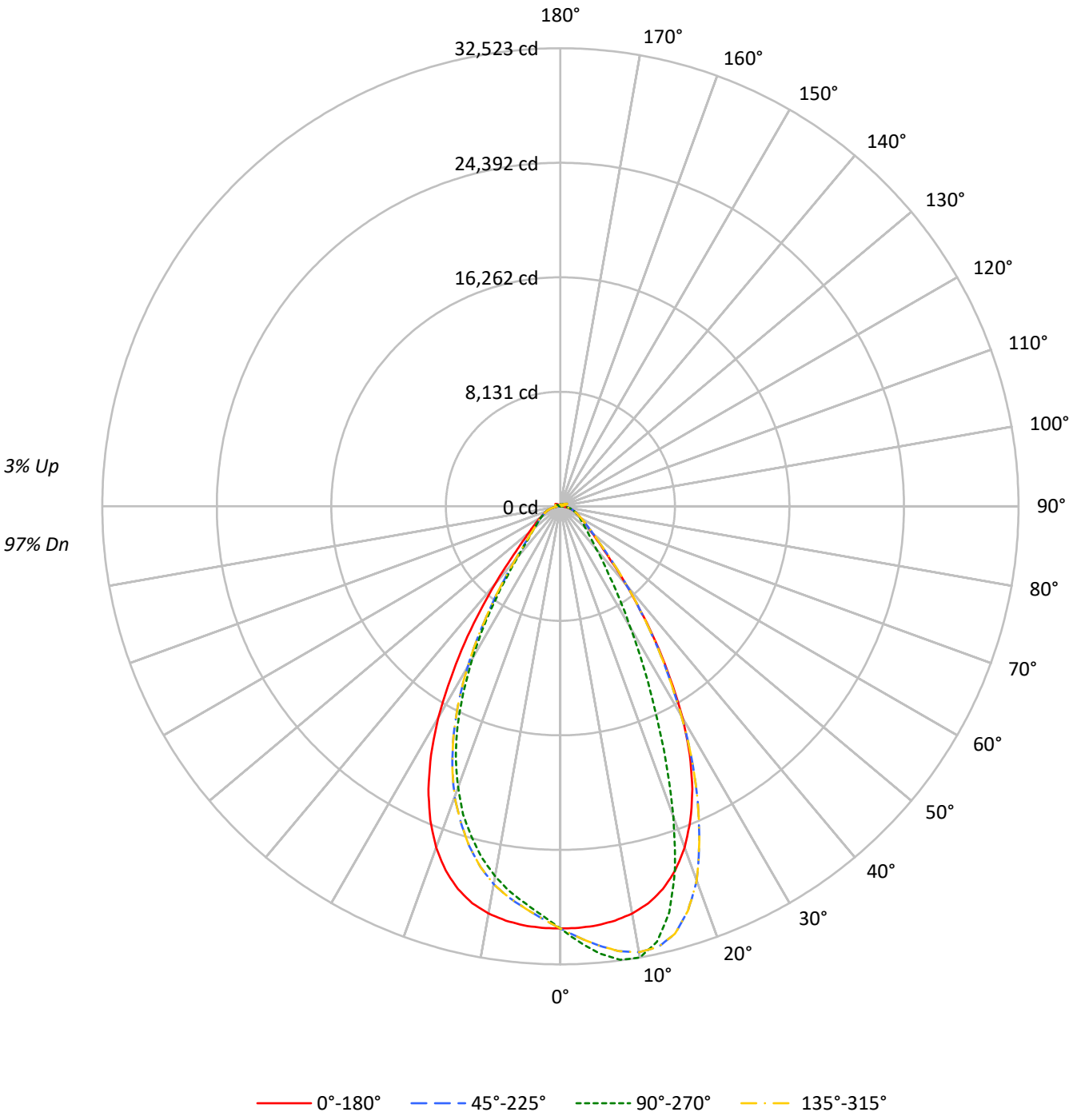
Luminous Intensity Polar Plot



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	108	105	102	108	105	102	100	100	98	96	96	94	93	92	91	89	87
2	104	98	93	89	102	96	92	88	92	89	85	89	86	83	85	83	81	79
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	79	76	73	72
4	92	83	76	71	90	81	75	71	79	74	69	76	72	68	74	70	67	65
5	86	77	70	65	84	75	69	64	73	68	63	71	66	63	69	65	62	60
6	81	71	64	59	80	70	64	59	68	63	58	66	61	58	65	60	57	55
7	77	66	60	55	75	66	59	54	64	58	54	62	57	53	61	56	53	51
8	73	62	55	51	71	61	55	51	60	54	50	59	53	50	57	53	49	48
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	49	46	45
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	51	46	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	140755	140755	140755	140755
5°	139898	149245	139898	132638
10°	138178	153077	138178	125531
15°	134099	142256	134099	115957
20°	125416	114070	125416	103285
25°	111003	79034	111003	86557
30°	90130	51417	90130	64762
35°	64644	33299	64644	43114
40°	41794	22952	41794	27190
45°	26519	17779	26519	19373
50°	19693	15107	19693	16136
55°	16078	13762	16078	14244
60°	13922	13110	13922	13189
65°	12691	12643	12691	12589
70°	12029	12388	12029	12228
75°	11249	11984	11249	11625
80°	9881	11314	9881	10577
85°	6392	8077	6392	7702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 37283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2849.9	8.2
10°-20°	7753.5	22.4
20°-30°	9093.2	26.3
30°-40°	6323.8	18.3
40°-50°	3142.6	9.1
50°-60°	1879.6	5.4
60°-70°	1323.0	3.8
70°-80°	852.2	2.5
80°-90°	272.7	0.8
90°-100°	31.1	0.1
100°-110°	197.7	0.6
110°-120°	364.1	1.1
120°-130°	217.3	0.6
130°-140°	132.6	0.4
140°-150°	92.9	0.3
150°-160°	61.9	0.2
160°-170°	36.7	0.1
170°-180°	12.5	0.0
0°-30°	19696.6	56.9
0°-40°	26020.4	75.1
0°-60°	31042.6	89.6
0°-90°	33490.5	96.7
90°-120°	592.9	1.7
90°-150°	1035.7	3.0
90°-180°	1147.0	3.3
0°-180°	34637.3	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°	9	12	9	9	9	14
95°	17	18	17	14	17	18
105°	91	49	91	69	91	122
115°	387	333	387	314	387	353
125°	249	263	249	228	249	229
135°	159	185	159	167	159	126
145°	146	153	146	142	146	91
155°	132	138	132	129	132	62
165°	129	135	129	127	129	37
175°	131	136	131	129	131	12
180°	132	132	132	132	132	

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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°	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°	8.6	14.9	25.4	15.8	*12.5*	15.8	25.4	14.9	8.6	14.9	23.0
92.5°	11.1	19.8	35.4	20.2	*15.7*	20.2	35.4	19.8	11.1	19.2	36.8
95°	16.7	24.2	44.7	22.0	*18.2*	22.0	44.7	24.2	16.7	25.6	51.1
97.5°	25.5	29.8	50.4	23.3	*21.3*	23.3	50.4	29.8	25.5	31.1	58.6
100°	33.5	33.5	90.9	26.4	*23.8*	26.4	90.9	33.5	33.5	38.6	91.1
102.5°	50.5	65.3	209.4	50.7	*28.2*	50.7	209.4	65.3	50.5	71.6	192.8
105°	91.0	147.7	367.3	126.2	*49.3*	126.2	367.3	147.7	91.0	149.0	343.1
107.5°	171.5	274.4	472.7	246.0	*109.8*	246.0	472.7	274.4	171.5	263.2	452.9
110°	273.8	383.0	515.8	335.9	*218.4*	335.9	515.8	383.0	273.8	361.1	474.8

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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°	356.1	426.6	504.0	372.1	*300.8*	372.1	504.0	426.6	356.1	398.6	454.8
115°	387.3	420.4	450.2	370.8	*333.3*	370.8	450.2	420.4	387.3	389.2	406.1
117.5°	374.2	384.8	389.1	348.3	*335.1*	348.3	389.1	384.8	374.2	350.5	345.0
120°	338.0	333.6	328.5	315.2	*316.4*	315.2	328.5	333.6	338.0	306.1	288.1
122.5°	293.0	283.7	278.0	282.2	*290.8*	282.2	278.0	283.7	293.0	261.2	247.5
125°	248.7	239.3	243.0	253.5	*262.7*	253.5	243.0	239.3	248.7	222.4	218.8
127.5°	211.8	207.5	217.4	229.1	*237.1*	229.1	217.4	207.5	211.8	195.0	198.2
130°	185.5	186.3	199.3	209.7	*214.6*	209.7	199.3	186.3	185.5	177.5	185.6
132.5°	169.3	173.7	186.1	195.3	*198.5*	195.3	186.1	173.7	169.3	167.3	177.4
135°	159.3	165.6	177.3	182.8	*184.7*	182.8	177.3	165.6	159.3	160.4	169.3
137.5°	153.5	159.9	168.5	173.5	*172.8*	173.5	168.5	159.9	153.5	156.0	162.9
140°	150.3	156.7	160.5	165.9	*165.9*	165.9	160.5	156.7	150.3	151.6	157.2
142.5°	147.3	152.9	154.8	159.1	*158.4*	159.1	154.8	152.9	147.3	148.5	152.3
145°	146.0	150.3	148.5	153.5	*152.7*	153.5	148.5	150.3	146.0	146.0	148.5
147.5°	142.8	146.0	144.1	148.5	*147.6*	148.5	144.1	146.0	142.8	142.8	144.0
150°	139.6	142.2	139.1	144.0	*144.5*	144.0	139.1	142.2	139.6	139.0	140.2
152.5°	135.2	137.7	135.2	140.8	*140.7*	140.8	135.2	137.7	135.2	134.5	135.7
155°	131.9	133.2	131.9	137.5	*138.1*	137.5	131.9	133.2	131.9	131.4	132.5
157.5°	130.0	131.1	130.5	135.5	*136.0*	135.5	130.5	131.1	130.0	130.0	130.5
160°	129.1	130.3	130.3	134.5	*135.1*	134.5	130.3	130.3	129.1	129.1	129.7
162.5°	128.9	128.9	129.4	133.7	*134.8*	133.7	129.4	128.9	128.9	128.9	129.5
165°	128.7	129.3	129.2	132.9	*134.6*	132.9	129.2	129.3	128.7	128.8	128.8
167.5°	129.2	128.6	129.8	133.3	*135.1*	133.3	129.8	128.6	129.2	129.2	129.2
170°	128.5	129.1	129.6	133.2	*134.9*	133.2	129.6	129.1	128.5	129.1	129.2
172.5°	130.3	130.3	130.7	133.6	*136.0*	133.6	130.7	130.3	130.3	130.4	131.0
175°	131.4	131.3	131.8	134.1	*136.5*	134.1	131.8	131.3	131.4	130.8	130.8
177.5°	130.7	131.8	133.0	135.3	*138.3*	135.3	133.0	131.8	130.7	130.8	130.8
180°	131.8	131.8	131.8	131.8	*131.8*	131.8	131.8	131.8	131.8	131.8	131.8

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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°	13.7	8.6	13.7	23.0	14.9	8.6
92.5°	20.5	12.5	20.5	36.8	19.2	11.1
95°	23.6	14.3	23.6	51.1	25.6	16.7
97.5°	26.1	18.6	26.1	58.6	31.1	25.5
100°	30.5	24.2	30.5	91.1	38.6	33.5
102.5°	64.2	40.4	64.2	192.8	71.6	50.5
105°	134.7	69.1	134.7	343.1	149.0	91.0
107.5°	240.8	119.0	240.8	452.9	263.2	171.5
110°	319.4	221.4	319.4	474.8	361.1	273.8

TEST NUMBER:
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	343.1	298.8	343.1	454.8	398.6	356.1
115°	330.0	314.4	330.0	406.1	389.2	387.3
117.5°	301.3	303.7	301.3	345.0	350.5	374.2
120°	268.2	281.3	268.2	288.1	306.1	338.0
122.5°	238.2	253.2	238.2	247.5	261.2	293.0
125°	212.0	227.5	212.0	218.8	222.4	248.7
127.5°	193.9	204.5	193.9	198.2	195.0	211.8
130°	180.2	188.9	180.2	185.6	177.5	185.5
132.5°	170.7	176.3	170.7	177.4	167.3	169.3
135°	162.5	167.0	162.5	169.3	160.4	159.3
137.5°	155.6	159.4	155.6	162.9	156.0	153.5
140°	149.9	153.0	149.9	157.2	151.6	150.3
142.5°	143.5	146.1	143.5	152.3	148.5	147.3
145°	139.7	141.6	139.7	148.5	146.0	146.0
147.5°	136.5	137.8	136.5	144.0	142.8	142.8
150°	133.2	134.5	133.2	140.2	139.0	139.6
152.5°	129.4	131.3	129.4	135.7	134.5	135.2
155°	127.5	129.2	127.5	132.5	131.4	131.9
157.5°	126.6	128.4	126.6	130.5	130.0	130.0
160°	126.5	127.7	126.5	129.7	129.1	129.1
162.5°	125.7	126.9	125.7	129.5	128.9	128.9
165°	126.2	126.7	126.2	128.8	128.8	128.7
167.5°	126.2	126.7	126.2	129.2	129.2	129.2
170°	126.7	127.3	126.7	129.2	129.1	128.5
172.5°	127.9	128.5	127.9	131.0	130.4	130.3
175°	128.4	129.0	128.4	130.8	130.8	131.4
177.5°	129.6	130.2	129.6	130.8	130.8	130.7
180°	131.8	131.8	131.8	131.8	131.8	131.8

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

Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-36-UNV-TASM-L950-UPL12

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	18.10	19.25	18.52	19.64	20.04	17.41	18.57	17.84	18.95	19.35
	3H	19.64	20.67	20.09	21.07	21.52	19.26	20.29	19.70	20.69	21.14
	4H	20.28	21.24	20.75	21.66	22.13	20.05	21.00	20.51	21.43	21.89
	6H	20.76	21.65	21.24	22.08	22.56	20.69	21.57	21.17	22.01	22.49
	8H	20.92	21.75	21.41	22.21	22.70	20.91	21.75	21.40	22.20	22.69
	12H	20.99	21.79	21.48	22.24	22.75	21.04	21.84	21.53	22.29	22.80
4H	2H	18.51	19.47	18.98	19.89	20.36	17.99	18.95	18.46	19.37	19.84
	3H	20.31	21.10	20.79	21.58	22.06	20.05	20.84	20.53	21.31	21.80
	4H	21.09	21.80	21.58	22.28	22.81	20.96	21.67	21.46	22.15	22.68
	6H	21.70	22.32	22.23	22.83	23.37	21.73	22.35	22.25	22.85	23.40
	8H	21.90	22.47	22.43	22.98	23.53	22.00	22.57	22.53	23.08	23.63
	12H	22.01	22.51	22.55	23.05	23.61	22.17	22.68	22.72	23.22	23.77
8H	4H	21.34	21.91	21.87	22.42	22.97	21.24	21.81	21.77	22.32	22.87
	6H	22.08	22.55	22.64	23.10	23.66	22.15	22.61	22.71	23.17	23.73
	8H	22.35	22.76	22.93	23.34	23.91	22.50	22.91	23.08	23.49	24.06
	12H	22.53	22.89	23.10	23.44	24.09	22.75	23.11	23.32	23.67	24.31
12H	4H	21.35	21.85	21.89	22.40	22.95	21.25	21.76	21.80	22.30	22.85
	6H	22.12	22.54	22.70	23.11	23.68	22.19	22.61	22.77	23.18	23.75
	8H	22.44	22.81	23.02	23.36	24.01	22.60	22.96	23.17	23.51	24.16

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

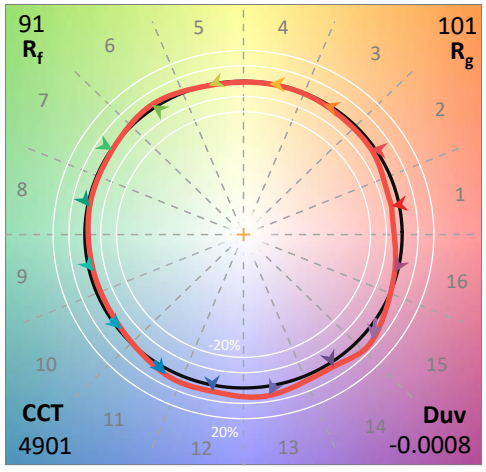
Test Information

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

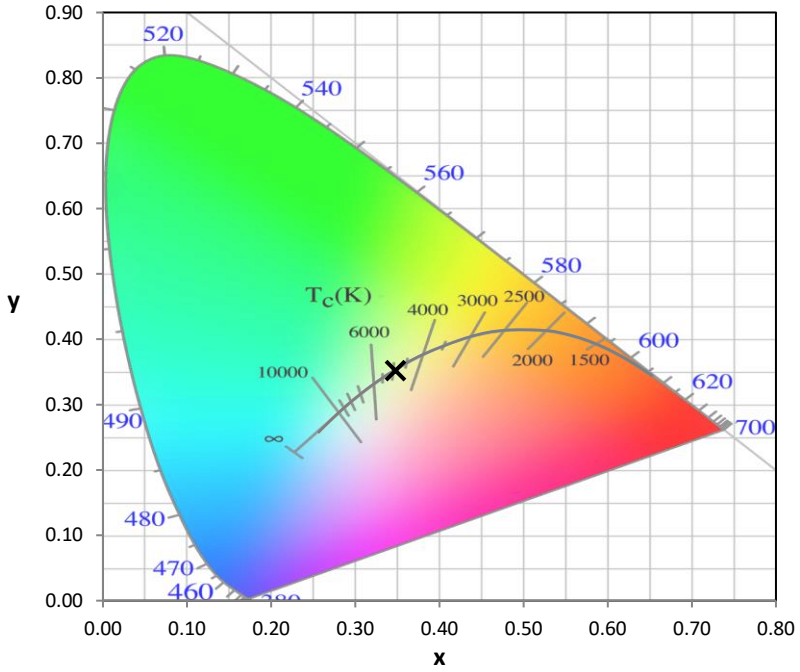
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

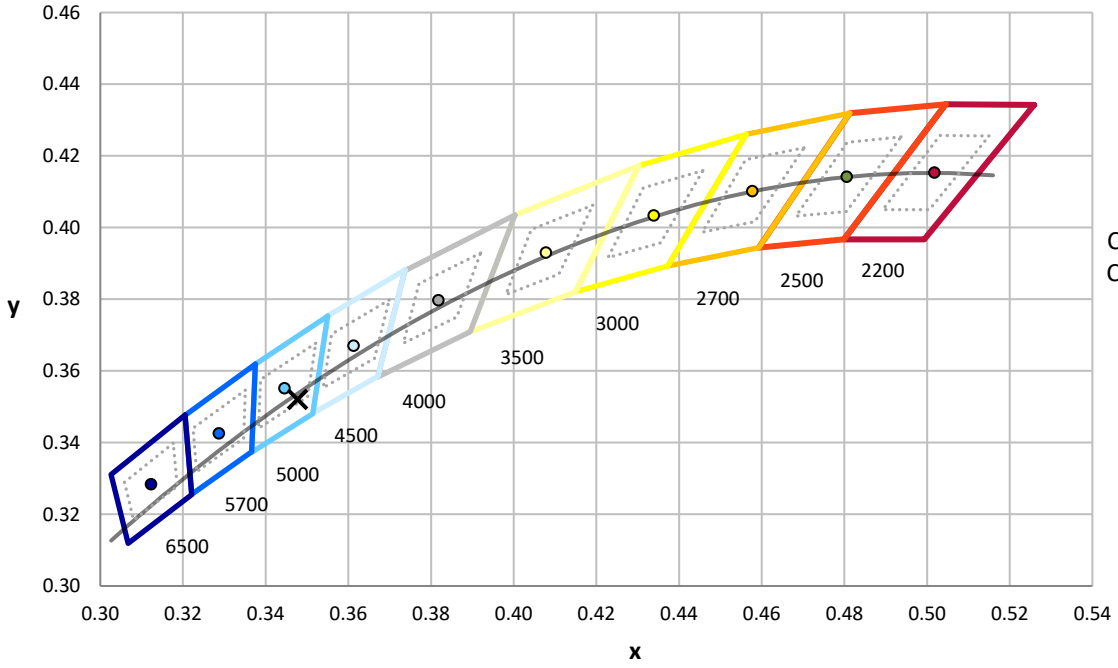
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

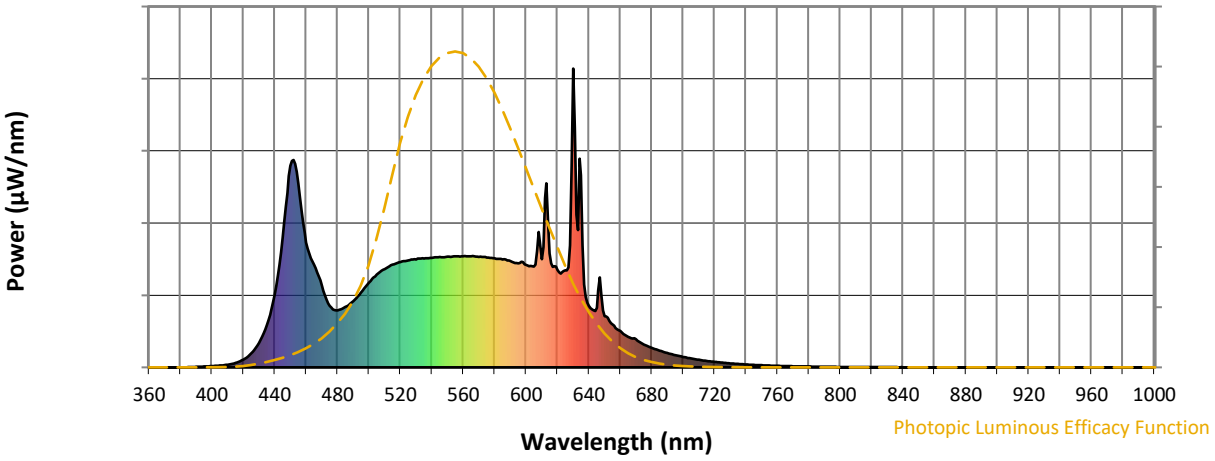


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

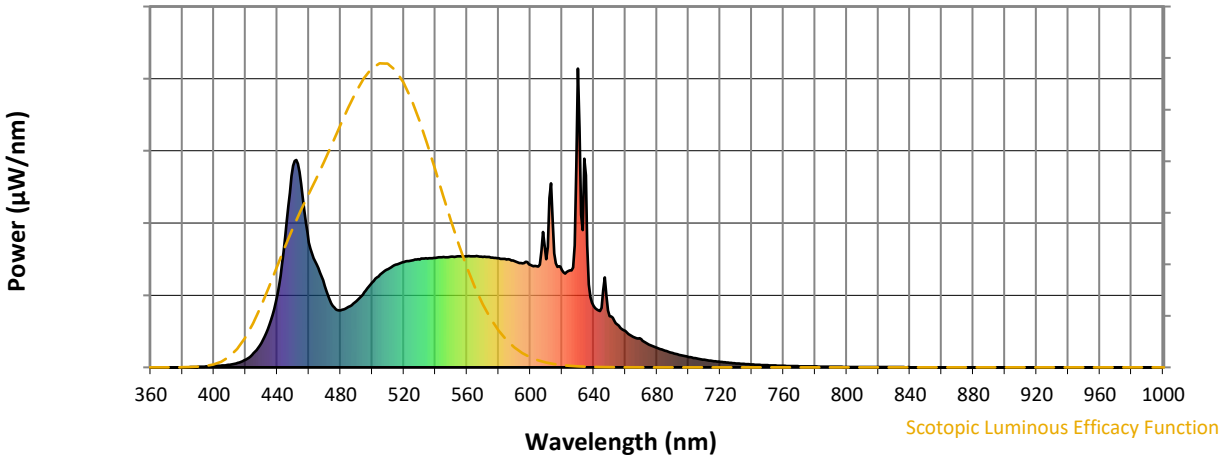


Photopic Lumens: NR

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

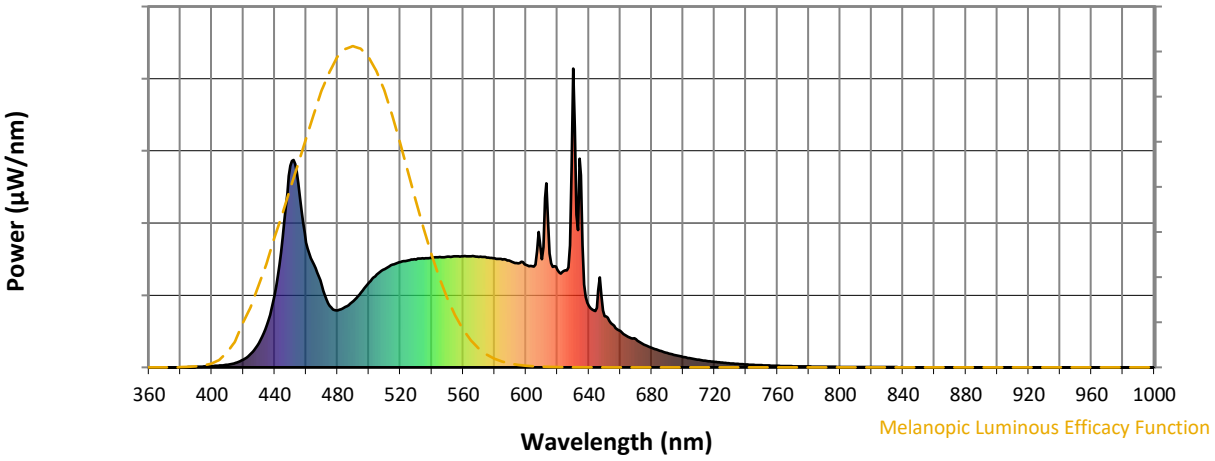


Scotopic Lumens: NR **S/P: 2.04**

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			

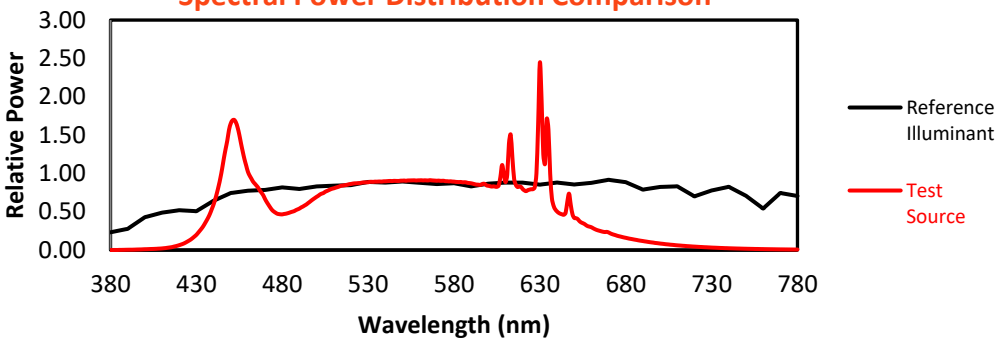
REPORT NUMBER: SP1-2506-472-8

TM-30-18

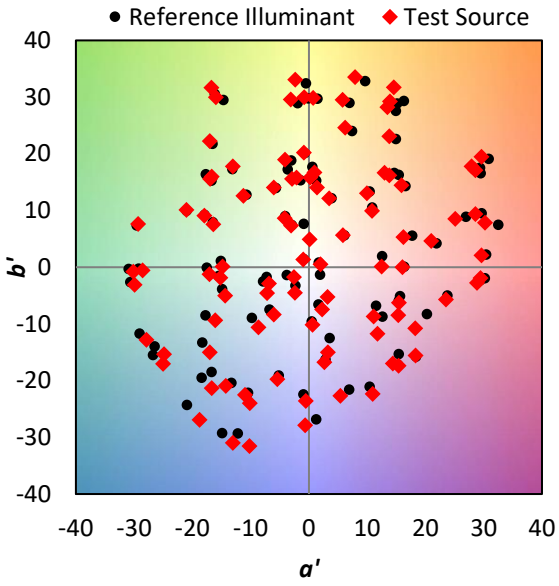
Summary

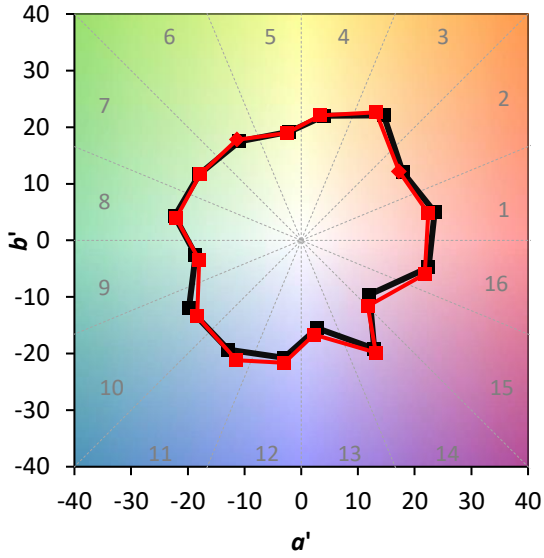
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

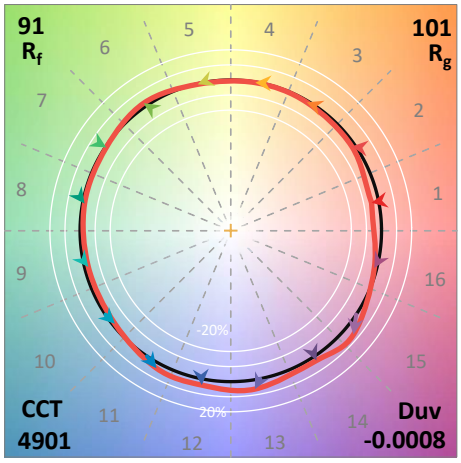
Spectral Power Distribution Comparison

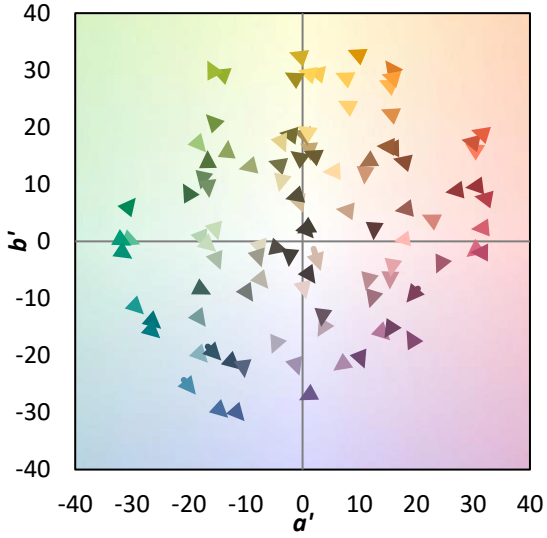


Color Vector Graphics







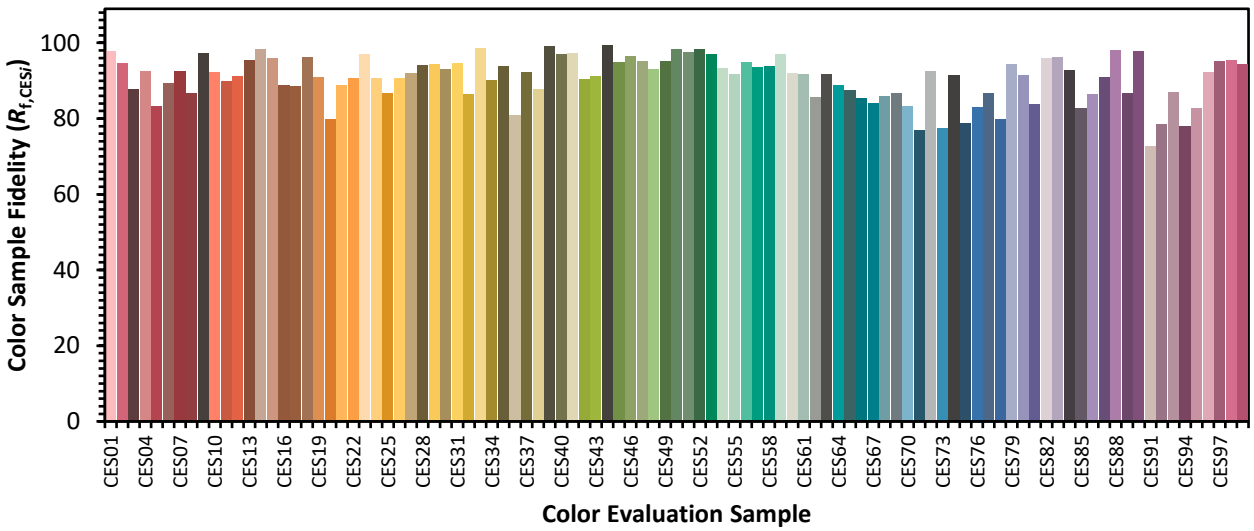


REPORT NUMBER: SP1-2506-472-8

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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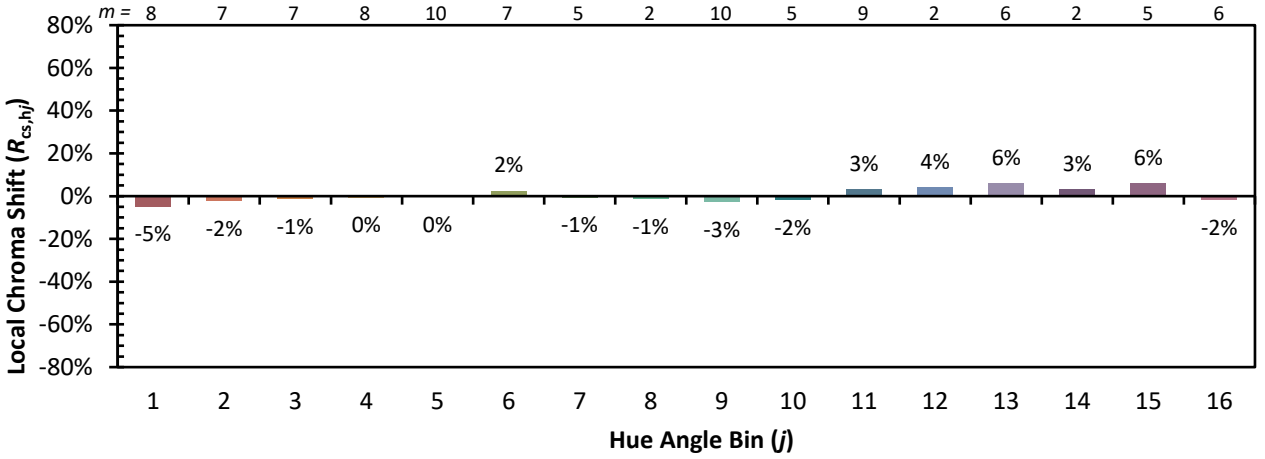
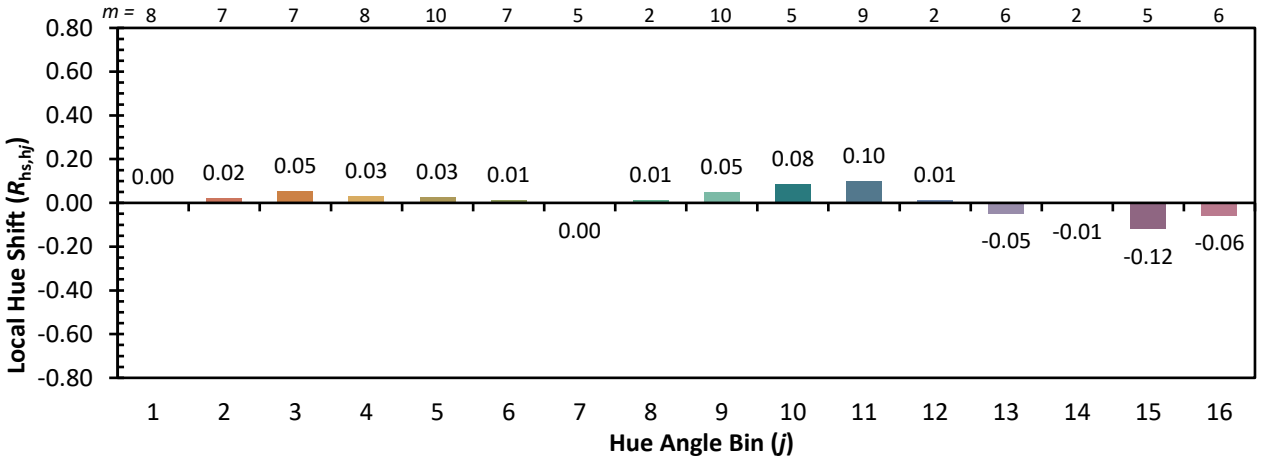
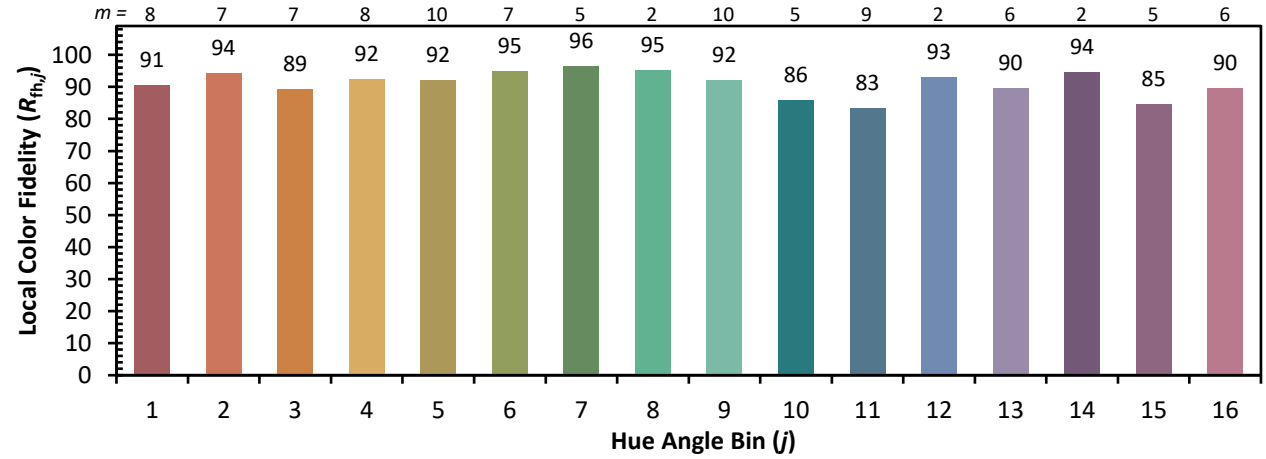
Color Rendition by Hue-Angle Bin







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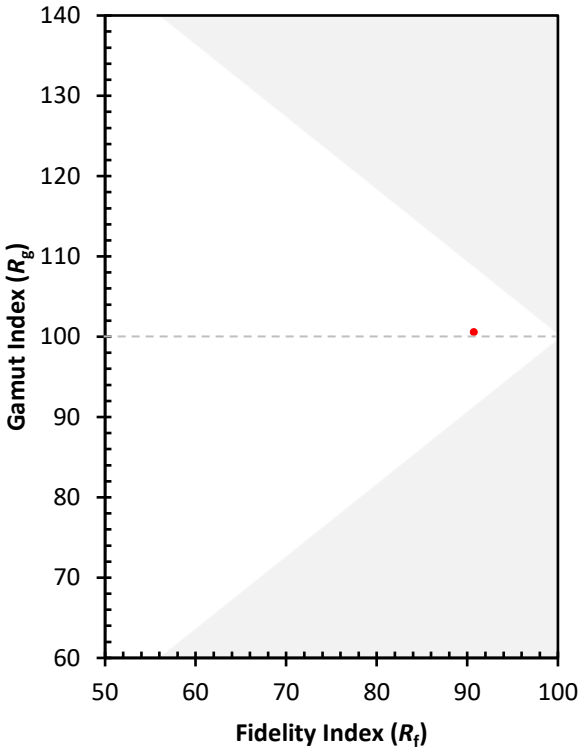
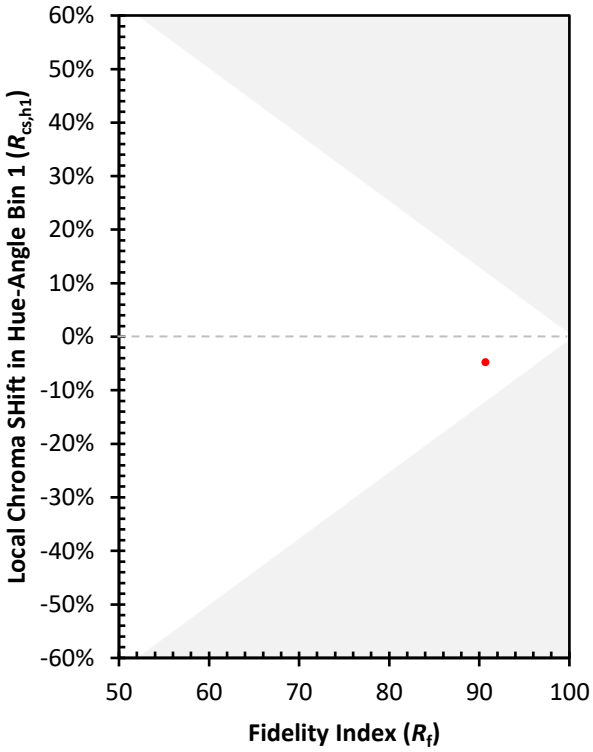
Measure Comparisons





(END OF REPORT)