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: EHBR1-60-UNV-TA-L950-UPL12

Issue Date: 3/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	
	REPORT IS A COMBINATION OF REPORTS P1431892 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-TA-L950-UPL12
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	56203.1 lumens
Efficiency:	N/A
Efficacy:	166.4 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):	337.8
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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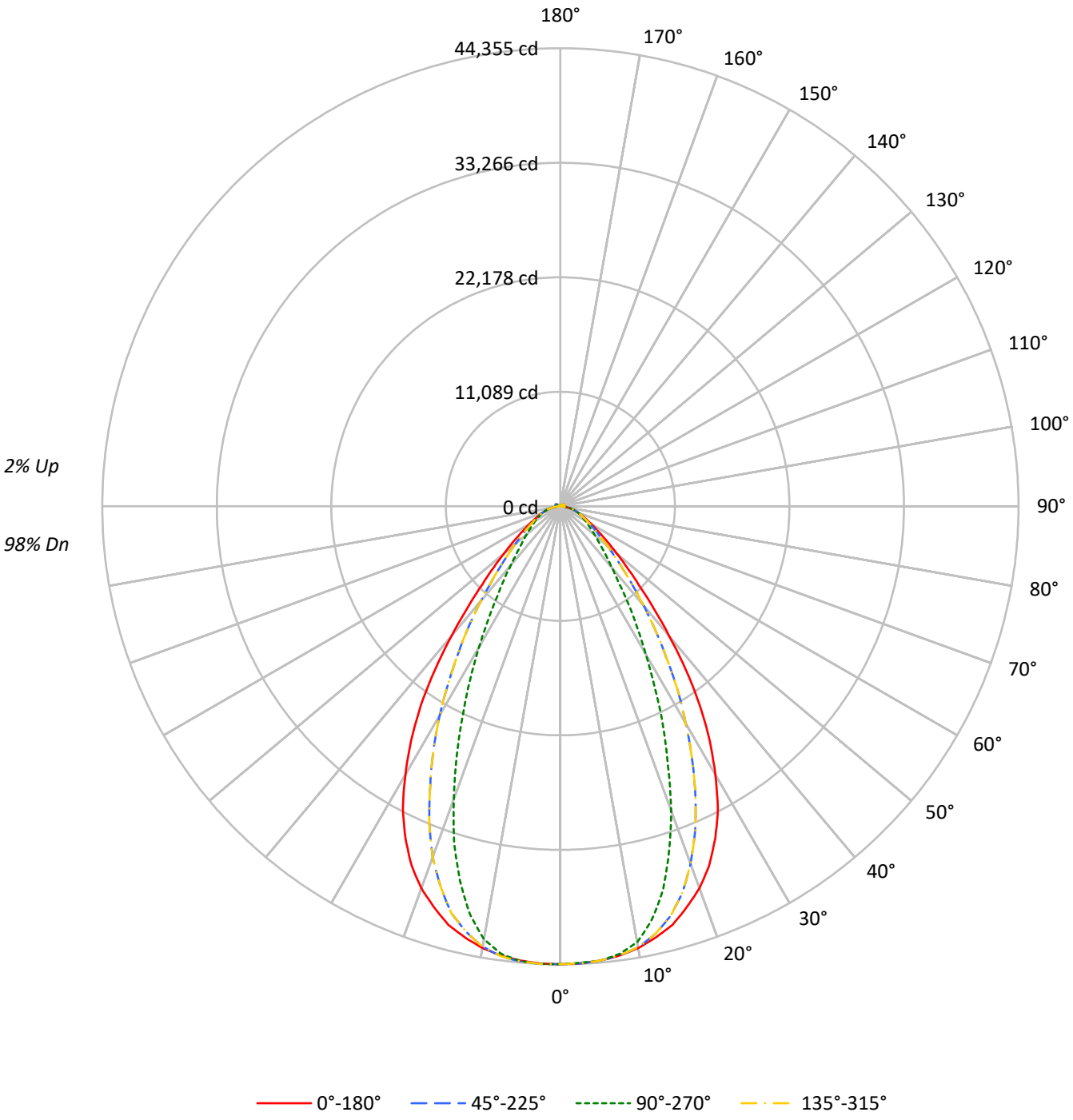
Luminous Intensity Polar Plot



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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	104	102	108	105	102	100	101	98	96	97	95	93	93	91	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	85	83	86	83	81	79
3	97	89	83	78	95	87	82	77	84	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	80	74	69	78	72	68	75	71	67	73	69	66	64
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	68	64	60	58
6	80	70	62	57	78	69	62	57	67	61	56	65	60	56	63	59	55	53
7	75	65	57	52	74	64	57	52	62	56	52	61	55	51	59	54	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	45	66	56	49	45	54	48	44	53	48	44	52	47	44	42
10	64	53	46	42	63	52	46	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	208207	208207	208207	208207
5°	206809	206831	206809	207049
10°	204393	201719	204393	200399
15°	199939	183128	199939	178923
20°	191474	152604	191474	146662
25°	177626	118018	177626	111903
30°	156031	86025	156031	81651
35°	128234	62010	128234	57962
40°	94502	44613	94502	43236
45°	66003	35154	66003	33937
50°	47771	29166	47771	28724
55°	36178	25473	36178	25129
60°	28828	22973	28828	23135
65°	24226	21485	24226	21691
70°	21536	20404	21536	20605
75°	19035	19035	19035	19220
80°	15604	17194	15604	17194
85°	9997	11917	9997	12267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 69154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4186.9	7.4
10°-20°	11252.8	20.0
20°-30°	13683.4	24.3
30°-40°	11146.1	19.8
40°-50°	6692.1	11.9
50°-60°	3851.4	6.9
60°-70°	2410.3	4.3
70°-80°	1419.6	2.5
80°-90°	417.1	0.7
90°-100°	29.7	0.1
100°-110°	196.1	0.3
110°-120°	362.5	0.6
120°-130°	215.5	0.4
130°-140°	132.2	0.2
140°-150°	94.0	0.2
150°-160°	63.1	0.1
160°-170°	37.4	0.1
170°-180°	12.8	0.0
0°-30°	29123.1	51.8
0°-40°	40269.2	71.6
0°-60°	50812.7	90.4
0°-90°	55059.7	98.0
90°-120°	588.3	1.0
90°-150°	1030.0	1.8
90°-180°	1143.0	2.0
0°-180°	56203.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	44336	44336	44336	44336	44336	
5°	44157	44162	44157	44208	44157	4192
15°	41946	38419	41946	37537	41946	11760
25°	35472	23568	35472	22347	35472	16171
35°	23536	11381	23536	10638	23536	14532
45°	10679	5688	10679	5491	10679	8507
55°	4889	3442	4889	3396	4889	4496
65°	2529	2243	2529	2264	2529	2556
75°	1341	1341	1341	1354	1341	1416
85°	344	410	344	422	344	377
90°	8	10	8	9	8	19
95°	16	16	16	15	16	17
105°	90	70	90	46	90	121
115°	386	315	386	330	386	352
125°	246	229	246	260	246	227
135°	158	169	158	183	158	125
145°	147	144	147	155	147	92
155°	132	132	132	143	132	62
165°	129	132	129	137	129	37
175°	132	138	132	140	132	12
180°	136	136	136	136	136	

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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°	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3	*44336.3*
2.5°	*44314.9*	*44304.7*	*44295.4*	*44278.7*	*44238.7*	*44278.7*	*44295.4*	*44304.7*	*44314.9*	*44342.8*	*44354.9*
5°	44157.1	44197.0	44155.2	44164.5	44161.7	44164.5	44155.2	44197.0	44157.1	44184.9	*44235.0*
7.5°	43881.2	43873.8	43859.9	43805.1	43712.2	43805.1	43859.9	43873.8	43881.2	43915.6	*43950.9*
10°	43426.2	43456.0	43357.6	43013.1	42857.9	43013.1	43357.6	43456.0	43426.2	43482.0	*43303.7*
12.5°	42751.1	42823.6	42425.2	41530.0	40985.0	41530.0	42425.2	42823.6	42751.1	42800.4	*42193.0*
15°	41946.1	41885.7	41100.1	39218.7	38419.2	39218.7	41100.1	41885.7	41946.1	41885.7	*40770.5*
17.5°	40692.4	40779.7	39255.0	36484.9	35008.5	36484.9	39255.0	40779.7	40692.4	40721.2	*38604.0*
20°	39353.4	39380.3	36836.9	32938.6	31364.6	32938.6	36836.9	39380.3	39353.4	39191.8	*36143.2*
22.5°	37649.4	37659.6	34065.9	29273.4	27243.4	29273.4	34065.9	37659.6	37649.4	37380.1	*33146.6*
25°	35471.8	35551.7	30947.7	25558.9	23568.0	25558.9	30947.7	35551.7	35471.8	35165.4	*29817.5*
27.5°	33026.8	33081.6	27618.6	21838.0	19768.2	21838.0	27618.6	33081.6	33026.8	32692.5	*26635.2*
30°	30012.5	30363.5	24275.6	18439.3	16546.9	18439.3	24275.6	30363.5	30012.5	29974.4	*23354.4*
32.5°	26899.9	27521.1	21124.0	15409.3	13787.0	15409.3	21124.0	27521.1	26899.9	27077.2	*20084.8*
35°	23535.5	24233.8	17853.4	12810.2	11381.0	12810.2	17853.4	24233.8	23535.5	23764.9	*17084.5*
37.5°	19968.7	21036.6	15081.5	10611.1	9236.9	10611.1	15081.5	21036.6	19968.7	20401.5	*14445.4*
40°	16379.6	17528.4	12452.6	8822.7	7732.5	8822.7	12452.6	17528.4	16379.6	17084.5	*11927.0*
42.5°	13297.7	14178.8	10277.8	7374.1	6662.8	7374.1	10277.8	14178.8	13297.7	13797.2	*9830.2*
45°	10679.0	11188.8	8504.2	6255.1	5687.7	6255.1	8504.2	11188.8	10679.0	11142.3	*8135.5*
47.5°	8718.7	9035.4	7000.8	5405.4	4968.1	5405.4	7000.8	9035.4	8718.7	8865.4	*6794.6*
50°	7119.6	7292.3	5885.5	4684.8	4346.8	4684.8	5885.5	7292.3	7119.6	7209.7	*5691.4*
52.5°	5907.8	5993.2	4936.5	4111.9	3863.9	4111.9	4936.5	5993.2	5907.8	5921.7	*4850.1*
55°	4889.1	4909.5	4214.0	3615.1	3442.4	3615.1	4214.0	4909.5	4889.1	4892.8	*4143.5*
57.5°	4094.2	4124.0	3621.6	3216.7	3073.7	3216.7	3621.6	4124.0	4094.2	4100.7	*3588.1*
60°	3465.6	3485.0	3129.4	2857.3	2761.7	2857.3	3129.4	3485.0	3465.6	3457.2	*3109.9*
62.5°	2950.2	2987.3	2734.8	2546.2	2484.9	2546.2	2734.8	2987.3	2950.2	2958.6	*2733.8*
65°	2528.6	2552.7	2396.7	2264.0	2242.6	2264.0	2396.7	2552.7	2528.6	2549.0	*2404.2*
67.5°	2182.2	2210.1	2105.2	2027.1	2005.8	2027.1	2105.2	2210.1	2182.2	2198.9	*2107.0*
70°	1889.7	1889.7	1833.0	1789.4	1790.3	1789.4	1833.0	1889.7	1889.7	1892.5	*1843.3*
72.5°	1602.8	1612.9	1574.9	1561.9	1567.5	1561.9	1574.9	1612.9	1602.8	1638.0	*1586.1*
75°	1340.9	1352.0	1332.5	1325.1	1340.9	1325.1	1332.5	1352.0	1340.9	1359.5	*1336.3*
77.5°	1070.7	1091.2	1088.4	1097.7	1127.3	1097.7	1088.4	1091.2	1070.7	1098.6	*1104.1*
80°	820.9	838.5	839.5	862.7	904.5	862.7	839.5	838.5	820.9	838.5	*852.5*
82.5°	577.6	588.8	596.1	635.1	671.4	635.1	596.1	588.8	577.6	587.9	*606.3*
85°	343.6	334.3	347.3	371.5	409.6	371.5	347.3	334.3	343.6	343.6	*352.9*
87.5°	109.5	106.8	105.8	129.1	147.6	129.1	105.8	106.8	109.5	113.3	*117.9*
90°	8.1	14.3	22.5	13.1	9.9	13.1	22.5	14.3	8.1	13.8	*23.7*
92.5°	10.6	18.7	36.2	20.0	12.8	20.0	36.2	18.7	10.6	18.7	*33.7*
95°	15.6	25.0	50.5	23.0	15.6	23.0	50.5	25.0	15.6	23.0	*43.0*
97.5°	24.3	30.6	58.1	25.6	19.3	25.6	58.1	30.6	24.3	28.7	*48.7*
100°	32.4	37.4	90.5	29.9	24.9	29.9	90.5	37.4	32.4	32.4	*89.2*
102.5°	49.3	70.5	192.2	63.6	41.2	63.6	192.2	70.5	49.3	63.6	*207.2*
105°	89.8	147.9	342.6	134.2	69.9	134.2	342.6	147.9	89.8	146.1	*365.0*
107.5°	170.4	262.1	451.7	240.3	119.8	240.3	451.7	262.1	170.4	272.7	*470.5*
110°	272.7	360.0	473.7	318.9	222.2	318.9	473.7	360.0	272.7	381.3	*513.5*

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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°	355.0	397.5	453.7	342.6	299.5	342.6	453.7	397.5	355.0	425.0	*501.7*
115°	385.7	388.1	405.0	329.5	315.2	329.5	405.0	388.1	385.7	418.8	*448.0*
117.5°	372.6	348.8	343.9	300.8	305.4	300.8	343.9	348.8	372.6	383.2	*386.9*
120°	336.3	304.5	287.0	267.7	282.1	267.7	287.0	304.5	336.3	332.0	*325.7*
122.5°	290.8	258.9	245.8	238.0	254.9	238.0	245.8	258.9	290.8	281.4	*275.2*
125°	246.5	219.6	216.6	211.8	228.7	211.8	216.6	219.6	246.5	237.1	*240.5*
127.5°	209.1	192.2	196.0	193.7	205.6	193.7	196.0	192.2	209.1	204.7	*215.0*
130°	183.1	174.1	183.8	180.3	190.0	180.3	183.8	174.1	183.1	184.4	*197.8*
132.5°	167.2	164.7	176.3	171.2	177.8	171.2	176.3	164.7	167.2	173.2	*185.0*
135°	158.5	158.1	169.1	163.4	169.4	163.4	169.1	158.1	158.5	165.9	*176.5*
137.5°	153.1	155.1	162.5	156.9	161.3	156.9	162.5	155.1	153.1	160.6	*168.7*
140°	150.3	151.6	157.2	151.0	155.6	151.0	157.2	151.6	150.3	157.9	*161.6*
142.5°	147.5	148.8	152.6	146.0	148.5	146.0	152.6	148.8	147.5	155.3	*157.2*
145°	146.6	147.2	149.1	141.9	143.7	141.9	149.1	147.2	146.6	152.5	*151.3*
147.5°	144.4	144.4	145.0	139.4	141.6	139.4	145.0	144.4	144.4	148.1	*147.2*
150°	141.6	140.9	141.6	135.9	138.2	135.9	141.6	140.9	141.6	144.1	*142.5*
152.5°	136.6	135.9	137.5	132.5	134.7	132.5	137.5	135.9	136.6	139.1	*138.4*
155°	132.2	132.2	134.1	130.4	132.5	130.4	134.1	132.2	132.2	134.4	*135.0*
157.5°	131.0	131.0	132.9	130.3	132.8	130.3	132.9	131.0	131.0	132.5	*133.8*
160°	129.7	130.4	132.2	130.3	132.8	130.3	132.2	130.4	129.7	131.8	*133.1*
162.5°	129.3	130.3	131.8	130.3	132.8	130.3	131.8	130.3	129.3	130.3	*131.6*
165°	129.3	130.0	131.8	130.5	132.4	130.5	131.8	130.0	129.3	130.0	*131.6*
167.5°	129.7	130.3	132.1	131.8	133.3	131.8	132.1	130.3	129.7	129.1	*131.8*
170°	128.4	130.0	132.5	132.8	133.7	132.8	132.5	130.0	128.4	129.3	*131.5*
172.5°	130.3	131.8	134.3	134.6	135.6	134.6	134.3	131.8	130.3	131.2	*132.8*
175°	132.1	133.0	135.8	135.8	137.7	135.8	135.8	133.0	132.1	132.4	*134.6*
177.5°	132.4	134.0	136.8	137.4	139.3	137.4	136.8	134.0	132.4	133.3	*136.1*
180°	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	*136.1*

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	44336.3	44336.3	44336.3	44336.3	44336.3	44336.3
2.5°	*44335.4*	*44352.1*	*44335.4*	*44354.9*	*44342.8*	*44314.9*
5°	44215.5	44208.2	44215.5	44235.0	44184.9	44157.1
7.5°	43751.2	43721.5	43751.2	43950.9	43915.6	43881.2
10°	42781.8	42577.5	42781.8	43303.7	43482.0	43426.2
12.5°	41091.7	40458.5	41091.7	42193.0	42800.4	42751.1
15°	38624.4	37537.0	38624.4	40770.5	41885.7	41946.1
17.5°	35431.9	34187.6	35431.9	38604.0	40721.2	40692.4
20°	31959.8	30143.4	31959.8	36143.2	39191.8	39353.4
22.5°	28168.3	26212.7	28168.3	33146.6	37380.1	37649.4
25°	24386.1	22346.9	24386.1	29817.5	35165.4	35471.8
27.5°	20850.9	18910.2	20850.9	26635.2	32692.5	33026.8
30°	17577.5	15705.5	17577.5	23354.4	29974.4	30012.5
32.5°	14840.1	12984.6	14840.1	20084.8	27077.2	26899.9
35°	12176.8	10638.1	12176.8	17084.5	23764.9	23535.5
37.5°	10169.2	8935.9	10169.2	14445.4	20401.5	19968.7
40°	8481.9	7493.9	8481.9	11927.0	17084.5	16379.6
42.5°	7090.8	6351.7	7090.8	9830.2	13797.2	13297.7
45°	6046.1	5490.9	6046.1	8135.5	11142.3	10679.0
47.5°	5276.3	4825.1	5276.3	6794.6	8865.4	8718.7
50°	4591.0	4280.9	4591.0	5691.4	7209.7	7119.6
52.5°	4038.5	3813.8	4038.5	4850.1	5921.7	5907.8
55°	3578.9	3395.9	3578.9	4143.5	4892.8	4889.1
57.5°	3178.6	3060.7	3178.6	3588.1	4100.7	4094.2
60°	2822.0	2781.2	2822.0	3109.9	3457.2	3465.6
62.5°	2549.0	2488.6	2549.0	2733.8	2958.6	2950.2
65°	2277.9	2264.0	2277.9	2404.2	2549.0	2528.6
67.5°	2032.7	2020.6	2032.7	2107.0	2198.9	2182.2
70°	1798.7	1808.0	1798.7	1843.3	1892.5	1889.7
72.5°	1572.2	1574.0	1572.2	1586.1	1638.0	1602.8
75°	1353.9	1353.9	1353.9	1336.3	1359.5	1340.9
77.5°	1116.1	1144.0	1116.1	1104.1	1098.6	1070.7
80°	877.5	904.5	877.5	852.5	838.5	820.9
82.5°	636.1	679.7	636.1	606.3	587.9	577.6
85°	394.7	421.6	394.7	352.9	343.6	343.6
87.5°	148.6	162.5	148.6	117.9	113.3	109.5
90°	12.5	9.0	12.5	23.7	13.8	8.1
92.5°	16.8	12.2	16.8	33.7	18.7	10.6
95°	18.7	14.7	18.7	43.0	23.0	15.6
97.5°	20.0	17.7	20.0	48.7	28.7	24.3
100°	23.0	21.2	23.0	89.2	32.4	32.4
102.5°	46.8	25.6	46.8	207.2	63.6	49.3
105°	122.3	46.2	122.3	365.0	146.1	89.8
107.5°	242.1	106.7	242.1	470.5	272.7	170.4
110°	332.0	215.3	332.0	513.5	381.3	272.7

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

Scaled Data Report

TEST NUMBER:
CATALOG NUMBER: EHBR1-60-UNV-TA-L950-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	368.2	297.6	368.2	501.7	425.0	355.0
115°	366.9	330.1	366.9	448.0	418.8	385.7
117.5°	344.4	332.0	344.4	386.9	383.2	372.6
120°	312.3	313.2	312.3	325.7	332.0	336.3
122.5°	278.6	288.6	278.6	275.2	281.4	290.8
125°	249.9	259.9	249.9	240.5	237.1	246.5
127.5°	226.5	234.3	226.5	215.0	204.7	209.1
130°	206.5	211.8	206.5	197.8	184.4	183.1
132.5°	193.4	196.0	193.4	185.0	173.2	167.2
135°	181.5	183.1	181.5	176.5	165.9	158.5
137.5°	172.5	172.2	172.5	168.7	160.6	153.1
140°	166.9	165.7	166.9	161.6	157.9	150.3
142.5°	160.3	160.0	160.3	157.2	155.3	147.5
145°	156.6	154.7	156.6	151.3	152.5	146.6
147.5°	151.9	150.9	151.9	147.2	148.1	144.4
150°	148.8	149.0	148.8	142.5	144.1	141.6
152.5°	144.4	145.6	144.4	138.4	139.1	136.6
155°	141.9	142.8	141.9	135.0	134.4	132.2
157.5°	140.0	140.9	140.0	133.8	132.5	131.0
160°	138.7	139.6	138.7	133.1	131.8	129.7
162.5°	138.1	139.0	138.1	131.6	130.3	129.3
165°	135.8	137.4	135.8	131.6	130.0	129.3
167.5°	135.6	137.1	135.6	131.8	129.1	129.7
170°	135.3	136.8	135.3	131.5	129.3	128.4
172.5°	135.8	138.1	135.8	132.8	131.2	130.3
175°	137.0	140.2	137.0	134.6	132.4	132.1
177.5°	138.6	142.3	138.6	136.1	133.3	132.4
180°	136.1	136.1	136.1	136.1	136.1	136.1

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

Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-60-UNV-TA-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	21.64	22.87	22.05	23.23	23.60	19.91	21.14	20.31	21.50	21.87
	3H	22.81	23.90	23.22	24.28	24.69	21.51	22.61	21.93	22.98	23.40
	4H	23.26	24.28	23.70	24.68	25.11	22.17	23.19	22.61	23.58	24.02
	6H	23.58	24.52	24.03	24.93	25.38	22.68	23.62	23.14	24.03	24.48
	8H	23.67	24.56	24.14	24.99	25.45	22.85	23.74	23.32	24.17	24.63
	12H	23.70	24.55	24.17	24.98	25.46	22.94	23.79	23.41	24.22	24.70
4H	2H	21.90	22.93	22.35	23.32	23.75	20.46	21.49	20.91	21.88	22.31
	3H	23.30	24.14	23.75	24.59	25.04	22.27	23.11	22.72	23.56	24.01
	4H	23.89	24.64	24.36	25.10	25.60	23.04	23.79	23.51	24.25	24.75
	6H	24.33	24.98	24.83	25.47	25.98	23.67	24.32	24.17	24.81	25.32
	8H	24.46	25.06	24.96	25.55	26.07	23.88	24.49	24.39	24.97	25.49
	12H	24.52	25.05	25.04	25.57	26.10	24.01	24.54	24.53	25.06	25.59
8H	4H	24.05	24.66	24.56	25.15	25.67	23.28	23.89	23.79	24.38	24.90
	6H	24.60	25.09	25.14	25.63	26.16	24.03	24.52	24.56	25.06	25.59
	8H	24.78	25.22	25.33	25.77	26.31	24.30	24.75	24.86	25.30	25.84
	12H	24.89	25.28	25.44	25.81	26.43	24.49	24.88	25.04	25.41	26.03
12H	4H	24.05	24.58	24.57	25.11	25.63	23.29	23.82	23.81	24.35	24.87
	6H	24.61	25.06	25.17	25.61	26.15	24.05	24.50	24.61	25.05	25.59
	8H	24.84	25.23	25.39	25.76	26.38	24.38	24.77	24.93	25.30	25.92

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

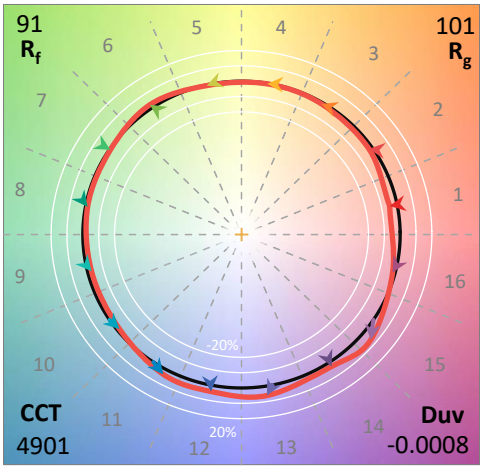
Test Information

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

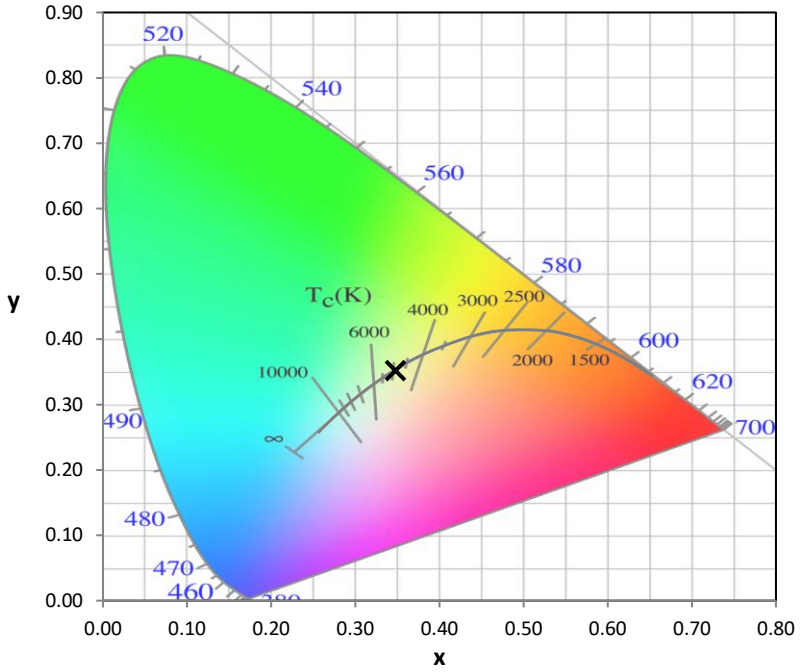
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

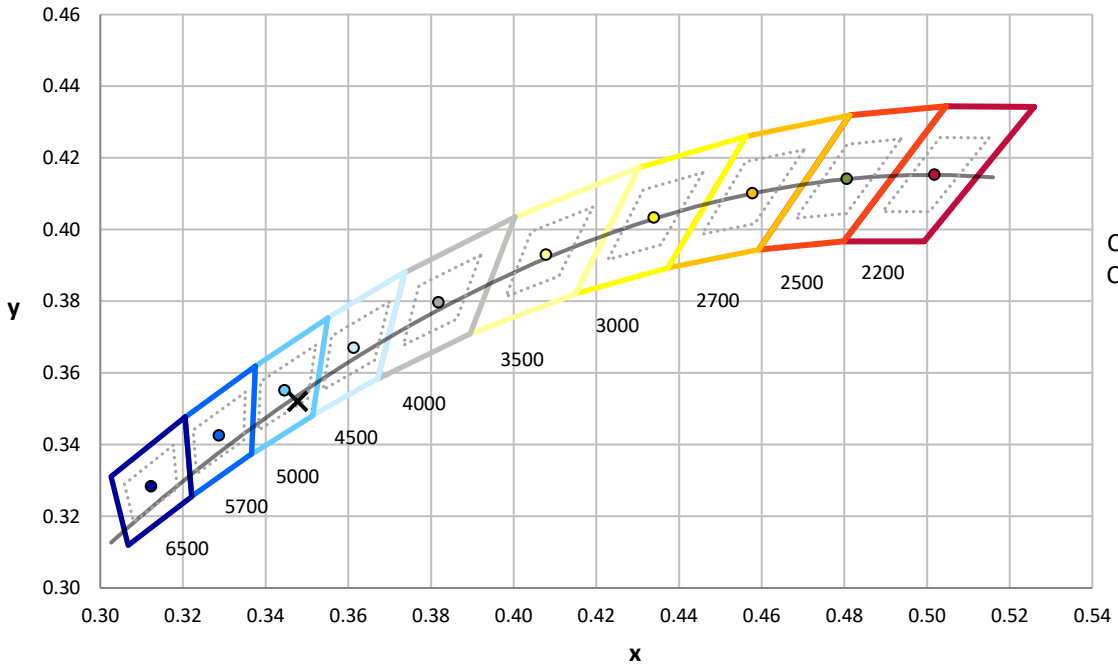
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

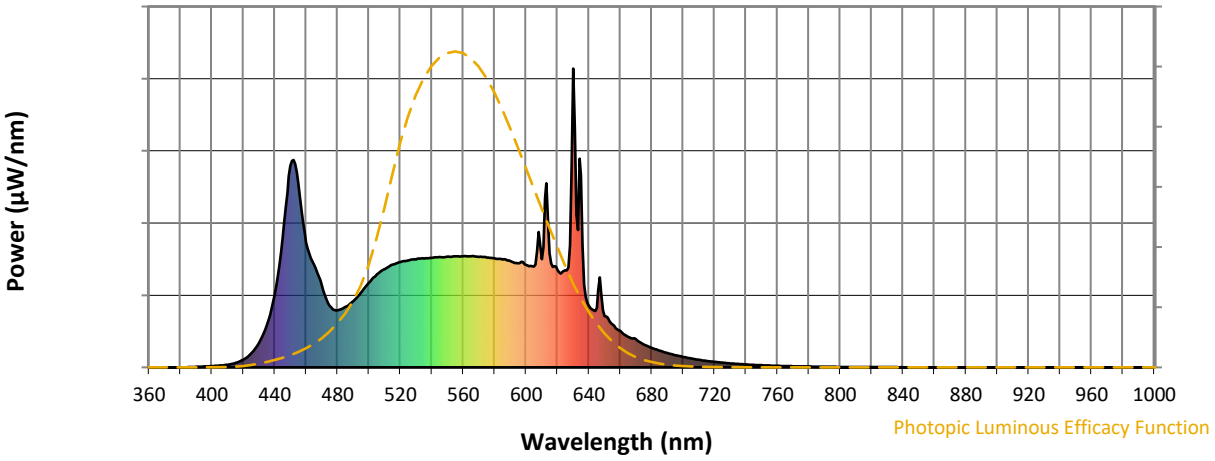


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

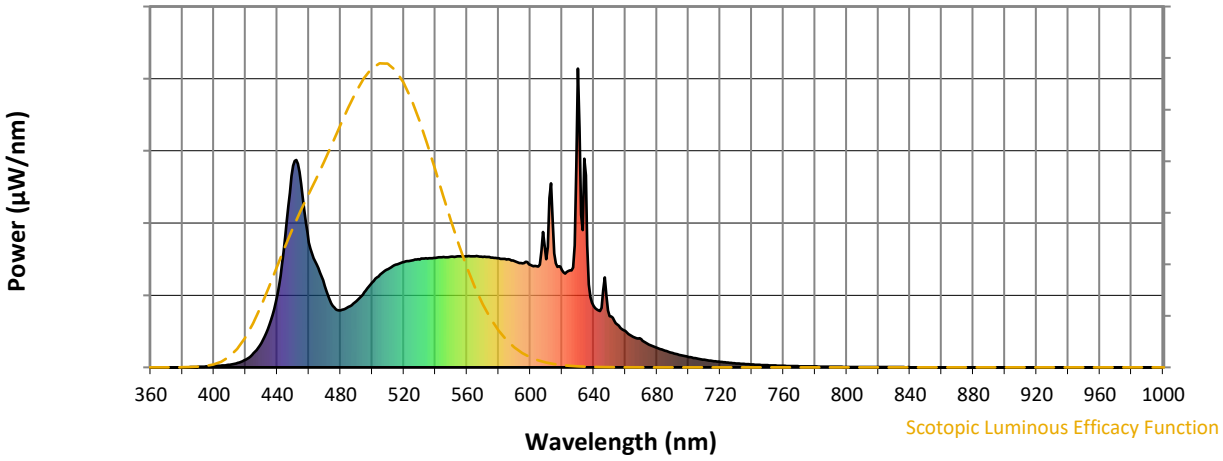


Photopic Lumens: NR

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

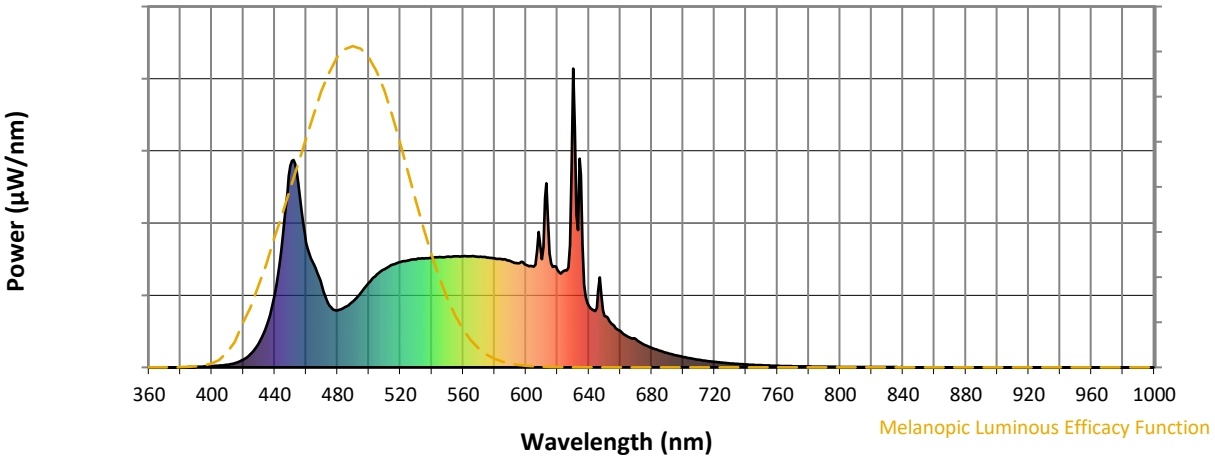


Scotopic Lumens: NR **S/P: 2.04**

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			

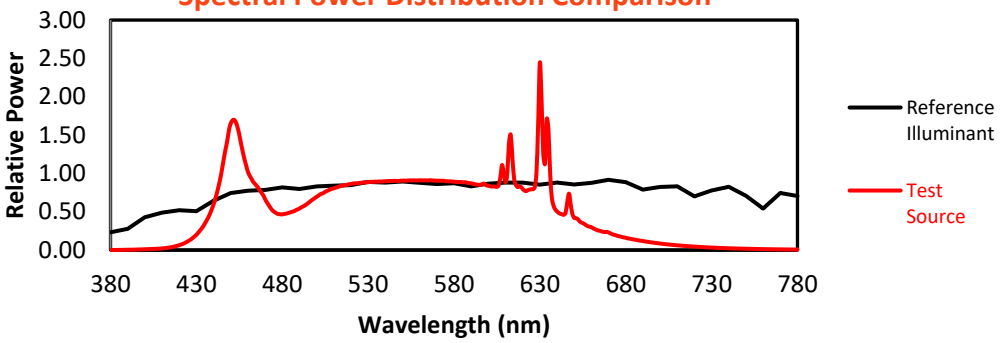
REPORT NUMBER: SP1-2506-472-8

TM-30-18

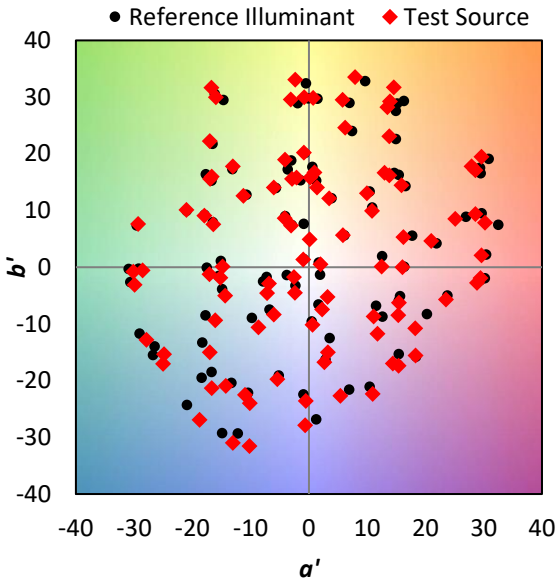
Summary

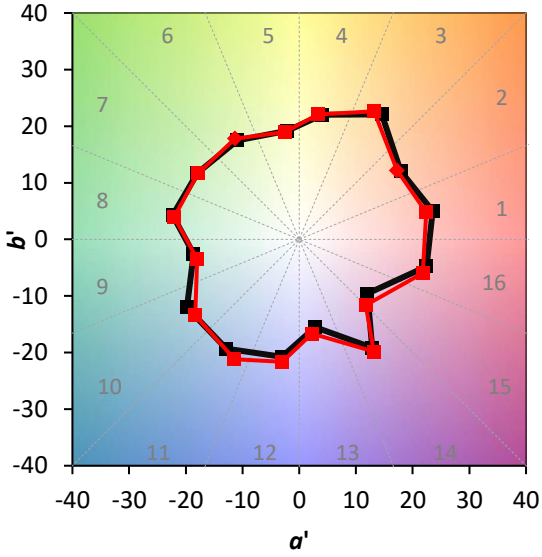
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

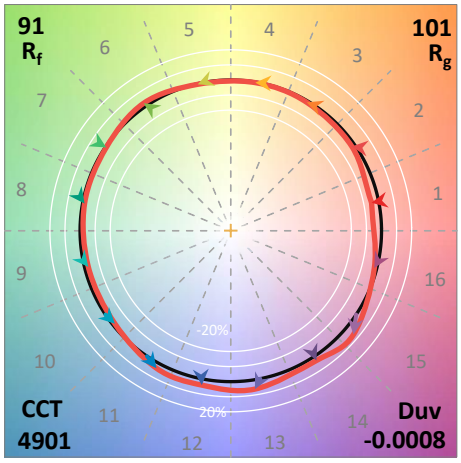
Spectral Power Distribution Comparison

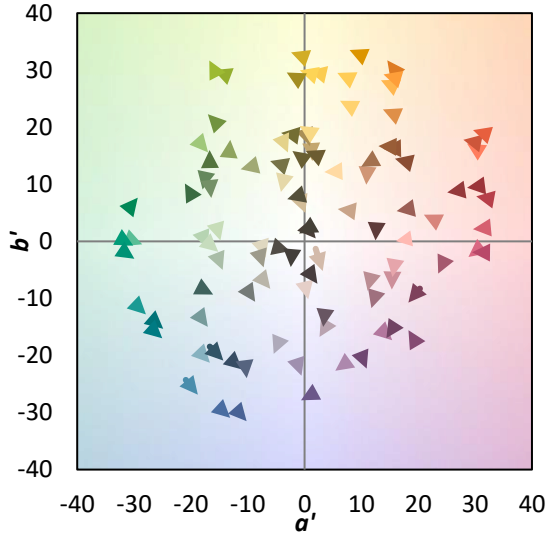


Color Vector Graphics







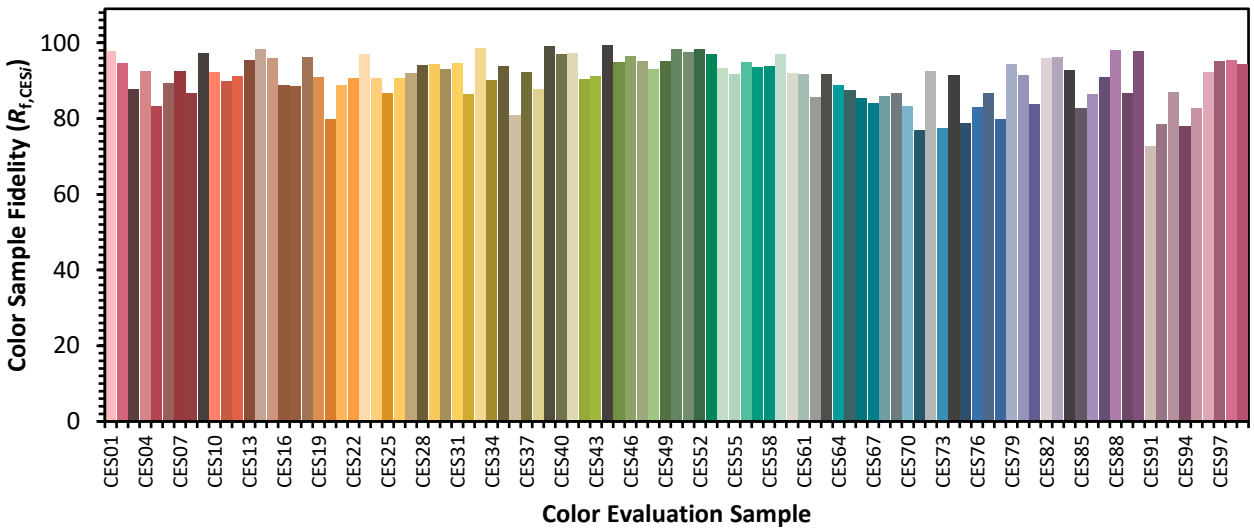


REPORT NUMBER: SP1-2506-472-8

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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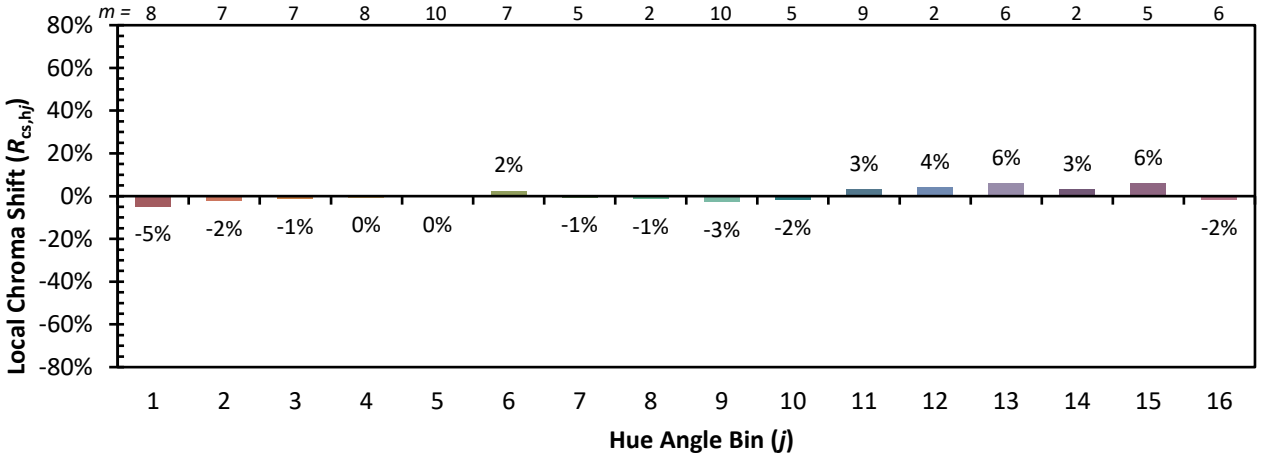
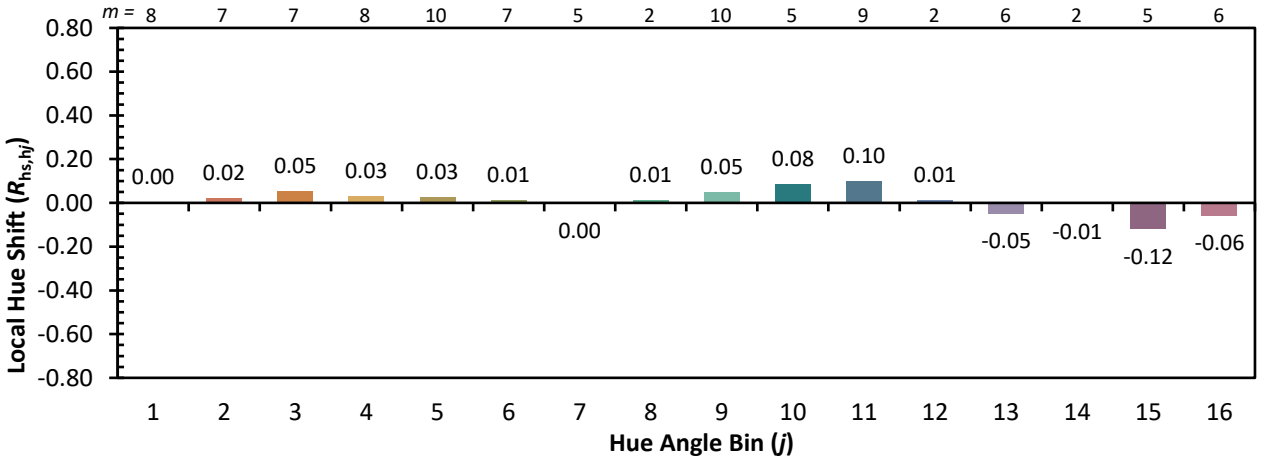
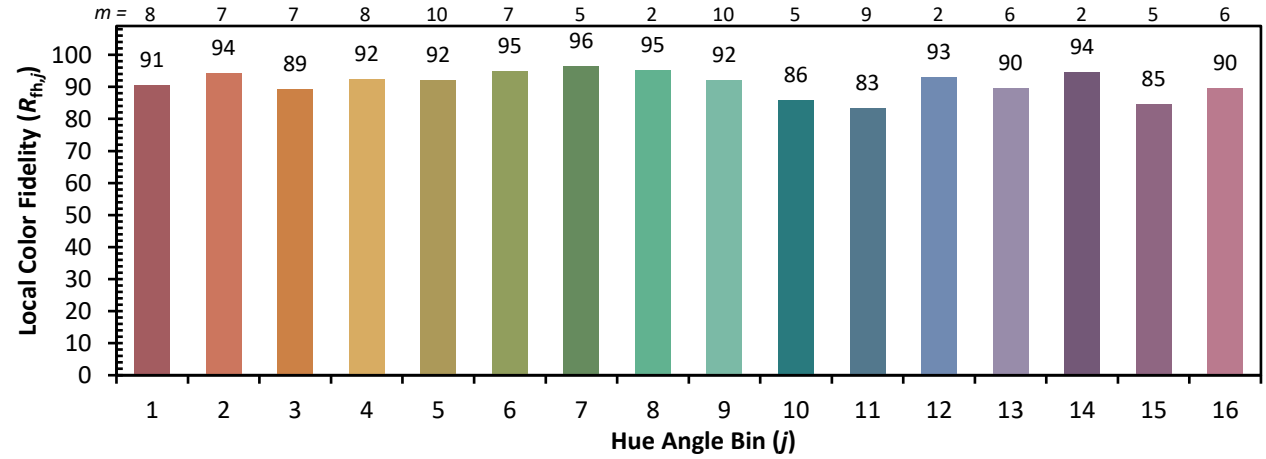
Color Rendition by Hue-Angle Bin







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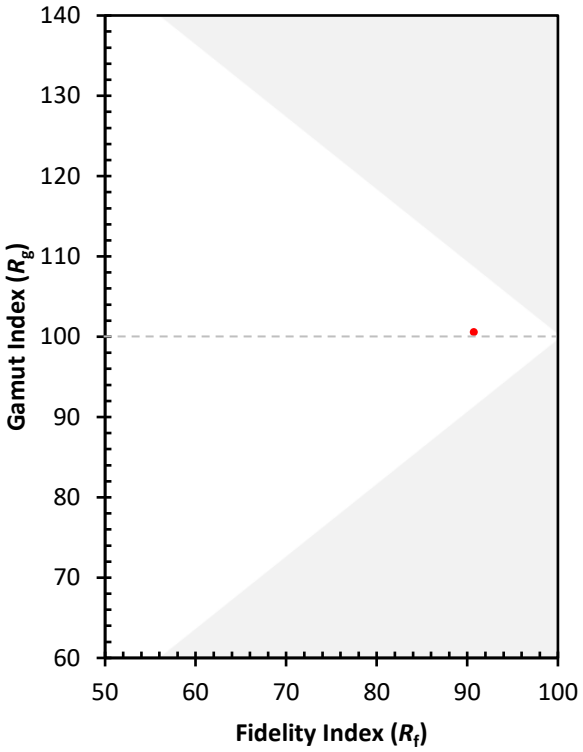
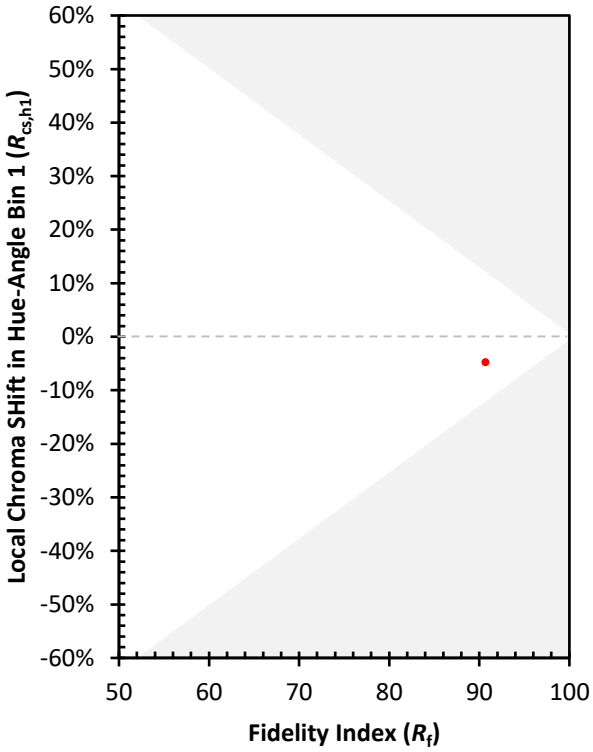
Measure Comparisons





(END OF REPORT)