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: EHBR1-12-UNV-TASM-L950-UPL15

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 P1431645 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-12-UNV-TASM-L950-UPL15
Description:	Elevate Round Highbay at, 12000 lumens, 5000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12805.9 lumens
Efficiency:	N/A
Efficacy:	173.1 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:	Semi-Direct

Input Watts (W):	74
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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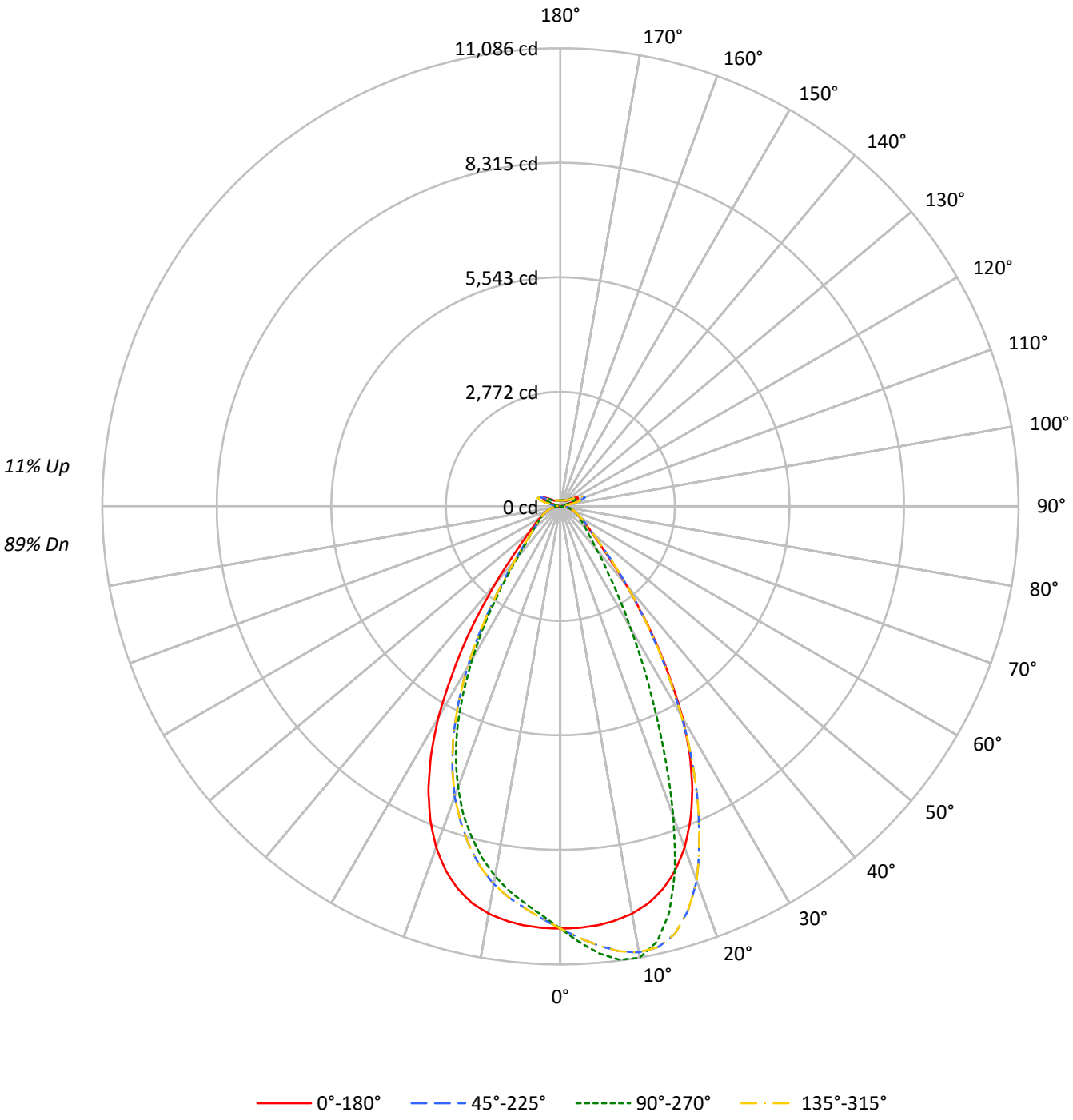
Luminous Intensity Polar Plot



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	109	106	103	100	106	102	100	97	96	94	92	91	89	87	86	84	83	80
2	102	96	91	87	99	93	89	85	88	85	82	84	81	78	79	77	75	73
3	96	88	82	77	93	86	80	76	81	77	73	77	74	71	74	71	68	66
4	90	81	74	69	87	79	73	68	75	70	66	72	68	64	69	65	62	60
5	84	75	68	63	82	73	67	62	70	64	60	67	62	59	64	60	57	55
6	79	69	62	57	77	68	61	57	65	59	55	62	58	54	60	56	53	51
7	75	64	57	53	73	63	57	52	61	55	51	59	54	50	56	52	49	47
8	71	60	53	49	69	59	53	48	57	51	47	55	50	46	53	49	46	44
9	67	56	50	45	65	55	49	45	53	48	44	52	47	43	50	46	43	41
10	64	53	46	42	62	52	46	42	50	45	41	49	44	41	47	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	47977	47977	47977	47977
5°	47685	50871	47685	45210
10°	47098	52177	47098	42788
15°	45708	48489	45708	39525
20°	42749	38881	42749	35205
25°	37836	26940	37836	29503
30°	30722	17526	30722	22075
35°	22034	11350	22034	14695
40°	14246	7823	14246	9268
45°	9039	6060	9039	6603
50°	6713	5149	6713	5501
55°	5480	4691	5480	4855
60°	4746	4469	4746	4496
65°	4326	4309	4326	4291
70°	4101	4222	4101	4168
75°	3834	4084	3834	3962
80°	3368	3857	3368	3604
85°	2179	2755	2179	2624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 12708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.4	7.6
10°-20°	2642.8	20.6
20°-30°	3099.5	24.2
30°-40°	2155.5	16.8
40°-50°	1071.2	8.4
50°-60°	640.7	5.0
60°-70°	450.9	3.5
70°-80°	290.5	2.3
80°-90°	94.7	0.7
90°-100°	36.9	0.3
100°-110°	241.6	1.9
110°-120°	446.5	3.5
120°-130°	265.3	2.1
130°-140°	160.3	1.3
140°-150°	110.8	0.9
150°-160°	72.2	0.6
160°-170°	41.4	0.3
170°-180°	13.7	0.1
0°-30°	6713.7	52.4
0°-40°	8869.2	69.3
0°-60°	10581.0	82.6
0°-90°	11417.1	89.2
90°-120°	725.0	5.7
90°-150°	1261.4	9.9
90°-180°	1389.0	10.8
0°-180°	12805.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10216	10216	10216	10216	10216	
5°	10182	10862	10182	9653	10182	966
15°	9589	10173	9589	8292	9589	2680
25°	7556	5380	7556	5892	7556	3421
35°	4044	2083	4044	2697	4044	2525
45°	1462	980	1462	1068	1462	1197
55°	741	634	741	656	741	677
65°	452	450	452	448	452	453
75°	270	288	270	279	270	284
85°	75	95	75	90	75	83
90°	10	11	10	10	10	8
95°	20	18	20	17	20	21
105°	111	56	111	84	111	150
115°	475	406	475	386	475	433
125°	304	318	304	278	304	280
135°	192	222	192	204	192	152
145°	174	182	174	169	174	109
155°	154	161	154	150	154	72
165°	145	149	145	142	145	41
175°	144	146	144	142	144	14
180°	144	144	144	144	144	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4
2.5°	10210.4	10342.4	10449.3	10519.8	10554.6	10519.8	10449.3	10342.4	10210.4	10079.2	9989.0
5°	10181.5	10445.8	10669.9	10816.4	10861.8	10816.4	10669.9	10445.8	10181.5	9931.7	9766.0
7.5°	10112.4	10524.3	10857.0	11028.0	11069.8	11028.0	10857.0	10524.3	10112.4	9758.7	9549.3
10°	10006.7	10573.7	10958.2	11080.7	11085.7	11080.7	10958.2	10573.7	10006.7	9530.4	9283.4
12.5°	9838.4	10556.0	10924.2	10884.0	10792.6	10884.0	10924.2	10556.0	9838.4	9251.4	8939.9
15°	9589.4	10451.6	10709.4	10382.1	10172.7	10382.1	10709.4	10451.6	9589.4	8874.8	8513.5
17.5°	9238.4	10256.2	10261.2	9613.4	9218.5	9613.4	10261.2	10256.2	9238.4	8414.2	8016.4
20°	8786.1	9942.8	9643.9	8459.3	7991.2	8459.3	9643.9	9942.8	8786.1	7869.8	7479.4
22.5°	8219.0	9520.2	8784.4	7298.2	6659.6	7298.2	8784.4	9520.2	8219.0	7236.7	6830.3
25°	7555.8	9002.4	7859.7	6033.0	5379.8	6033.0	7859.7	9002.4	7555.8	6482.2	6114.8
27.5°	6775.7	8346.0	6875.0	4930.0	4327.3	4930.0	6875.0	8346.0	6775.7	5703.3	5328.0
30°	5909.3	7504.6	5850.3	3926.1	3371.1	3926.1	5850.3	7504.6	5909.3	4828.2	4492.2
32.5°	4939.1	6680.0	4866.1	3145.8	2675.7	3145.8	4866.1	6680.0	4939.1	3993.1	3641.9
35°	4044.1	5648.2	3978.7	2471.8	2083.2	2471.8	3978.7	5648.2	4044.1	3204.8	2860.0
37.5°	3173.8	4673.3	3171.7	1990.4	1689.7	1990.4	3171.7	4673.3	3173.8	2491.6	2211.7
40°	2469.2	3654.0	2485.1	1588.9	1355.9	1588.9	2485.1	3654.0	2469.2	1895.8	1716.7
42.5°	1870.9	2794.1	1953.3	1304.0	1151.7	1304.0	1953.3	2794.1	1870.9	1493.7	1359.6
45°	1462.4	2056.1	1525.3	1100.2	980.5	1100.2	1525.3	2056.1	1462.4	1202.9	1112.8
47.5°	1191.0	1589.1	1236.2	943.7	859.8	943.7	1236.2	1589.1	1191.0	1017.5	950.0
50°	1000.4	1219.4	1026.5	823.8	767.4	823.8	1026.5	1219.4	1000.4	871.2	826.3
52.5°	859.4	994.4	874.1	734.1	696.2	734.1	874.1	994.4	859.4	762.2	734.3
55°	740.6	836.0	760.2	660.1	633.9	660.1	760.2	836.0	740.6	678.3	657.6
57.5°	650.4	709.2	660.1	597.1	579.7	597.1	660.1	709.2	650.4	603.6	592.5
60°	570.5	614.1	582.6	542.1	537.2	542.1	582.6	614.1	570.5	543.1	535.8
62.5°	509.0	536.6	515.1	492.7	488.3	492.7	515.1	536.6	509.0	488.0	489.3
65°	451.5	477.2	460.4	448.3	449.8	448.3	460.4	477.2	451.5	441.8	443.8
67.5°	407.1	420.5	413.2	406.3	408.1	406.3	413.2	420.5	407.1	397.5	400.7
70°	359.8	374.2	366.6	367.7	370.5	367.7	366.6	374.2	359.8	356.9	359.4
72.5°	314.6	325.7	323.1	325.5	328.5	325.5	323.1	325.7	314.6	314.1	314.4
75°	270.1	278.5	279.7	282.9	287.7	282.9	279.7	278.5	270.1	267.2	270.7
77.5°	221.7	231.3	234.9	239.2	246.4	239.2	234.9	231.3	221.7	223.5	225.3
80°	177.2	181.6	189.6	192.9	202.9	192.9	189.6	181.6	177.2	173.9	176.4
82.5°	129.7	133.7	140.6	146.7	152.5	146.7	140.6	133.7	129.7	128.1	128.3
85°	74.9	81.0	85.7	92.9	94.7	92.9	85.7	81.0	74.9	76.7	74.9
87.5°	26.2	28.2	32.1	35.0	35.2	35.0	32.1	28.2	26.2	26.9	24.3
90°	10.1	17.3	29.7	16.4	11.4	16.4	29.7	17.3	10.1	17.8	27.9
92.5°	13.3	23.4	42.0	21.8	15.3	21.8	42.0	23.4	13.3	23.2	44.7
95°	19.6	28.8	53.5	24.2	18.4	24.2	53.5	28.8	19.6	30.9	62.4
97.5°	30.3	35.7	60.5	25.7	22.2	25.7	60.5	35.7	30.3	37.8	71.6
100°	40.3	40.3	110.4	29.5	25.3	29.5	110.4	40.3	40.3	46.5	111.6
102.5°	61.0	78.9	255.7	58.9	30.7	58.9	255.7	78.9	61.0	87.2	236.7
105°	110.9	180.2	450.1	151.8	56.3	151.8	450.1	180.2	110.9	182.4	421.8
107.5°	210.1	336.2	579.9	299.3	130.8	299.3	579.9	336.2	210.1	323.0	556.4
110°	336.0	469.9	632.8	409.9	264.4	409.9	632.8	469.9	336.0	443.5	583.3

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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°	437.3	523.6	618.2	454.4	*365.8*	454.4	618.2	523.6	437.3	489.6	558.7
115°	475.1	515.9	552.2	452.9	*405.7*	452.9	552.2	515.9	475.1	478.0	498.8
117.5°	459.1	472.1	476.9	425.3	*408.1*	425.3	476.9	472.1	459.1	429.9	423.6
120°	414.5	409.2	401.8	384.6	*385.0*	384.6	401.8	409.2	414.5	375.4	353.6
122.5°	358.6	347.1	339.6	343.2	*353.5*	343.2	339.6	347.1	358.6	319.4	303.2
125°	304.1	292.6	296.0	307.9	*318.4*	307.9	296.0	292.6	304.1	271.3	267.2
127.5°	258.2	252.8	264.5	278.0	*286.9*	278.0	264.5	252.8	258.2	237.5	241.9
130°	225.4	226.7	242.3	253.6	*259.2*	253.6	242.3	226.7	225.4	215.4	226.0
132.5°	204.8	210.8	225.6	235.4	*238.7*	235.4	225.6	210.8	204.8	201.9	214.8
135°	192.0	200.8	214.3	220.7	*221.8*	220.7	214.3	200.8	192.0	193.0	204.8
137.5°	184.5	193.3	203.5	208.6	*207.2*	208.6	203.5	193.3	184.5	187.0	196.0
140°	180.2	188.9	193.5	199.3	*198.2*	199.3	193.5	188.9	180.2	181.6	188.6
142.5°	175.7	183.8	186.1	190.3	*189.0*	190.3	186.1	183.8	175.7	177.3	181.8
145°	173.6	179.5	177.8	183.4	*181.5*	183.4	177.8	179.5	173.6	174.2	176.6
147.5°	169.7	174.2	171.9	176.6	*174.8*	176.6	171.9	174.2	169.7	169.7	170.7
150°	165.3	168.4	165.1	170.7	*170.3*	170.7	165.1	168.4	165.3	164.5	165.5
152.5°	159.3	162.4	159.3	165.7	*165.1*	165.7	159.3	162.4	159.3	158.6	159.5
155°	154.3	155.9	154.3	160.7	*160.9*	160.7	154.3	155.9	154.3	154.1	154.5
157.5°	150.9	151.8	151.1	156.6	*156.8*	156.6	151.1	151.8	150.9	150.9	151.1
160°	147.8	149.3	148.8	153.6	*153.9*	153.6	148.8	149.3	147.8	148.4	148.6
162.5°	146.6	146.6	146.3	151.2	*151.5*	151.2	146.3	146.6	146.6	146.6	147.4
165°	144.9	145.8	144.6	148.0	*149.1*	148.0	144.6	145.8	144.9	145.6	145.6
167.5°	144.6	143.8	144.2	147.1	*148.2*	147.1	144.2	143.8	144.6	145.1	145.1
170°	143.3	143.5	143.0	145.9	*147.0*	145.9	143.0	143.5	143.3	144.0	144.6
172.5°	143.8	143.8	142.8	144.9	*146.9*	144.9	142.8	143.8	143.8	144.4	145.1
175°	144.2	143.5	143.2	144.6	*146.5*	144.6	143.2	143.5	144.2	144.0	144.0
177.5°	143.4	143.7	144.1	145.6	*148.2*	145.6	144.1	143.7	143.4	144.0	144.0
180°	143.7	143.7	143.7	143.7	*143.7*	143.7	143.7	143.7	143.7	143.7	143.7

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10216.4	10216.4	10216.4	10216.4	10216.4	10216.4
2.5°	9919.6	9913.1	9919.6	9989.0	10079.2	10210.4
5°	9689.2	9653.1	9689.2	9766.0	9931.7	10181.5
7.5°	9420.8	9399.8	9420.8	9549.3	9758.7	10112.4
10°	*9138.2*	*9090.9*	*9138.2*	*9283.4*	*9530.4*	*10006.7*
12.5°	8789.9	8727.3	8789.9	8939.9	9251.4	9838.4
15°	8347.0	8292.1	8347.0	8513.5	8874.8	9589.4
17.5°	7871.7	7821.9	7871.7	8016.4	8414.2	9238.4
20°	7274.8	7235.7	7274.8	7479.4	7869.8	8786.1
22.5°	6648.6	6611.9	6648.6	6830.3	7236.7	8219.0
25°	5911.8	5891.8	5911.8	6114.8	6482.2	7555.8
27.5°	5115.5	5081.7	5115.5	5328.0	5703.3	6775.7
30°	4302.2	4246.1	4302.2	4492.2	4828.2	5909.3
32.5°	3506.6	3466.2	3506.6	3641.9	3993.1	4939.1
35°	2737.5	2697.1	2737.5	2860.0	3204.8	4044.1
37.5°	2133.2	2061.7	2133.2	2211.7	2491.6	3173.8
40°	1617.9	1606.3	1617.9	1716.7	1895.8	2469.2
42.5°	1317.0	1285.8	1317.0	1359.6	1493.7	1870.9
45°	1080.7	1068.4	1080.7	1112.8	1202.9	1462.4
47.5°	929.3	934.7	929.3	950.0	1017.5	1191.0
50°	816.5	819.8	816.5	826.3	871.2	1000.4
52.5°	733.3	730.5	733.3	734.3	762.2	859.4
55°	659.8	656.1	659.8	657.6	678.3	740.6
57.5°	595.4	598.1	595.4	592.5	603.6	650.4
60°	538.0	540.5	538.0	535.8	543.1	570.5
62.5°	489.5	491.0	489.5	489.3	488.0	509.0
65°	446.2	447.9	446.2	443.8	441.8	451.5
67.5°	404.8	404.8	404.8	400.7	397.5	407.1
70°	365.9	365.7	365.9	359.4	356.9	359.8
72.5°	319.2	323.8	319.2	314.4	314.1	314.6
75°	273.7	279.1	273.7	270.7	267.2	270.1
77.5°	227.8	236.0	227.8	225.3	223.5	221.7
80°	180.6	189.6	180.6	176.4	173.9	177.2
82.5°	133.5	140.2	133.5	128.3	128.1	129.7
85°	79.5	90.2	79.5	74.9	76.7	74.9
87.5°	25.5	32.6	25.5	24.3	26.9	26.2
90°	16.4	10.1	16.4	27.9	17.8	10.1
92.5°	24.8	14.8	24.8	44.7	23.2	13.3
95°	28.6	17.1	28.6	62.4	30.9	19.6
97.5°	31.7	21.8	31.7	71.6	37.8	30.3
100°	37.1	28.8	37.1	111.6	46.5	40.3
102.5°	78.5	48.8	78.5	236.7	87.2	61.0
105°	165.3	84.1	165.3	421.8	182.4	110.9
107.5°	295.8	145.5	295.8	556.4	323.0	210.1
110°	392.6	271.5	392.6	583.3	443.5	336.0

TEST NUMBER:
CATALOG NUMBER: EHBR1-12-UNV-TASM-L950-UPL15

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	421.8	366.7	421.8	558.7	489.6	437.3
115°	405.7	386.0	405.7	498.8	478.0	475.1
117.5°	370.3	372.9	370.3	423.6	429.9	459.1
120°	329.6	345.2	329.6	353.6	375.4	414.5
122.5°	292.2	310.6	292.2	303.2	319.4	358.6
125°	260.0	278.5	260.0	267.2	271.3	304.1
127.5°	237.7	250.1	237.7	241.9	237.5	258.2
130°	220.2	231.0	220.2	226.0	215.4	225.4
132.5°	208.1	215.0	208.1	214.8	201.9	204.8
135°	197.5	203.5	197.5	204.8	193.0	192.0
137.5°	188.5	193.7	188.5	196.0	187.0	184.5
140°	180.4	184.9	180.4	188.6	181.6	180.2
142.5°	172.3	175.3	172.3	181.8	177.3	175.7
145°	166.5	168.8	166.5	176.6	174.2	173.6
147.5°	161.5	163.1	161.5	170.7	169.7	169.7
150°	156.5	158.0	156.5	165.5	164.5	165.3
152.5°	151.3	153.0	151.3	159.5	158.6	159.3
155°	147.8	149.6	147.8	154.5	154.1	154.3
157.5°	145.9	147.0	145.9	151.1	150.9	150.9
160°	144.1	145.1	144.1	148.6	148.4	147.8
162.5°	142.3	143.3	142.3	147.4	146.6	146.6
165°	141.9	142.1	141.9	145.6	145.6	144.9
167.5°	141.3	142.1	141.3	145.1	145.1	144.6
170°	141.5	141.7	141.5	144.6	144.0	143.3
172.5°	141.9	142.1	141.9	145.1	144.4	143.8
175°	141.5	141.7	141.5	144.0	144.0	144.2
177.5°	142.4	142.6	142.4	144.0	144.0	143.4
180°	143.7	143.7	143.7	143.7	143.7	143.7

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

Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-12-UNV-TASM-L950-UPL15

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	13.76	14.81	14.31	15.33	15.92	13.07	14.12	13.62	14.65	15.23
	3H	15.30	16.24	15.87	16.78	17.40	14.92	15.85	15.48	16.40	17.02
	4H	15.94	16.81	16.52	17.37	18.01	15.70	16.57	16.28	17.13	17.77
	6H	16.41	17.22	17.01	17.79	18.44	16.34	17.14	16.94	17.72	18.37
	8H	16.56	17.32	17.17	17.91	18.57	16.56	17.32	17.17	17.91	18.57
	12H	16.64	17.36	17.25	17.94	18.62	16.69	17.41	17.30	17.99	18.68
4H	2H	14.17	15.04	14.75	15.60	16.24	13.64	14.52	14.23	15.08	15.72
	3H	15.96	16.68	16.56	17.28	17.94	15.70	16.42	16.30	17.02	17.68
	4H	16.73	17.39	17.35	17.99	18.69	16.61	17.26	17.22	17.87	18.56
	6H	17.35	17.91	17.99	18.54	19.25	17.38	17.94	18.01	18.57	19.28
	8H	17.54	18.07	18.19	18.70	19.41	17.65	18.17	18.29	18.80	19.51
	12H	17.65	18.11	18.31	18.77	19.49	17.81	18.27	18.47	18.94	19.65
8H	4H	16.98	17.50	17.62	18.14	18.85	16.88	17.41	17.53	18.04	18.75
	6H	17.72	18.15	18.40	18.83	19.55	17.79	18.21	18.46	18.89	19.61
	8H	17.99	18.37	18.68	19.06	19.79	18.14	18.52	18.83	19.21	19.94
	12H	18.16	18.49	18.85	19.16	19.97	18.39	18.72	19.07	19.39	20.19
12H	4H	16.99	17.45	17.65	18.11	18.83	16.89	17.35	17.55	18.02	18.73
	6H	17.77	18.15	18.46	18.83	19.57	17.83	18.21	18.52	18.90	19.63
	8H	18.08	18.41	18.77	19.08	19.89	18.23	18.57	18.92	19.24	20.04

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

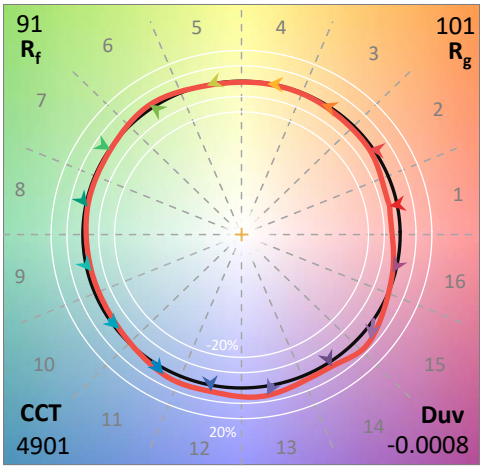
Test Information

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

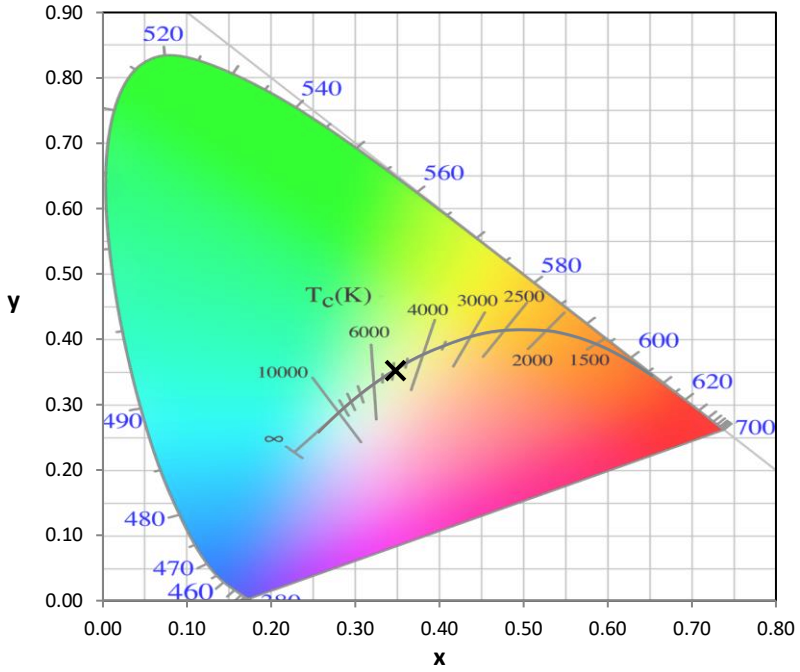
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

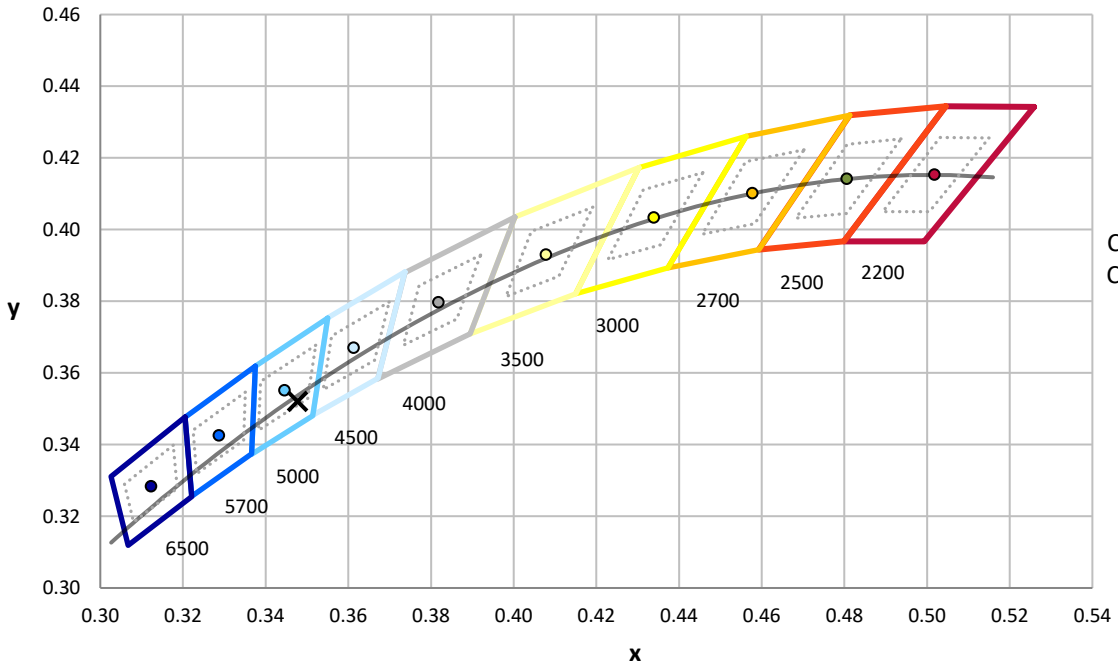
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

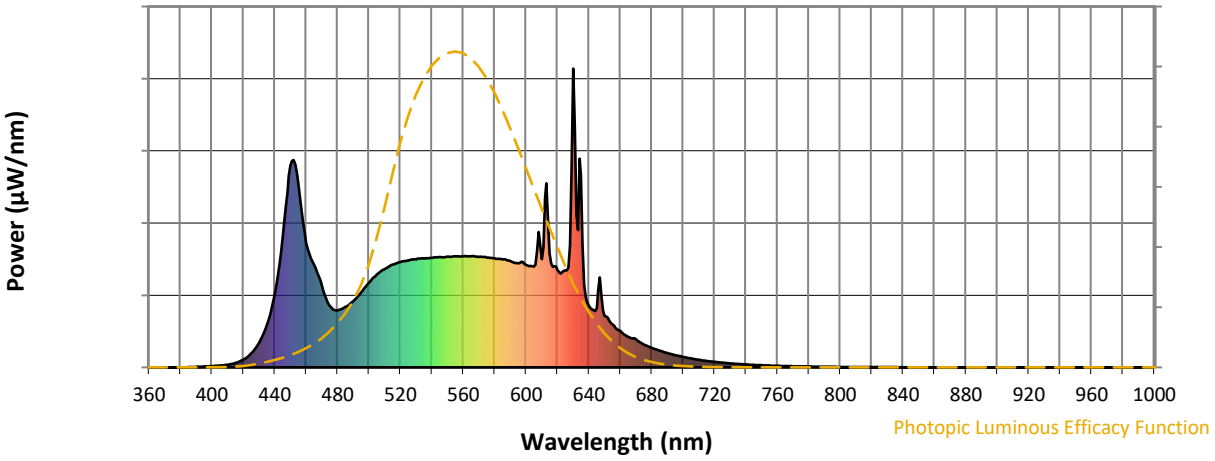


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

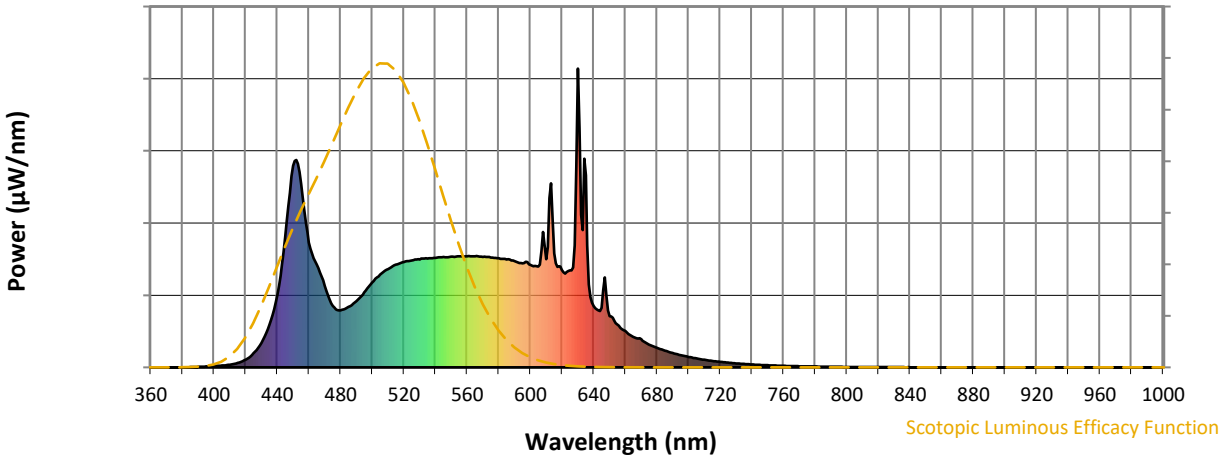


Photopic Lumens: NR

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

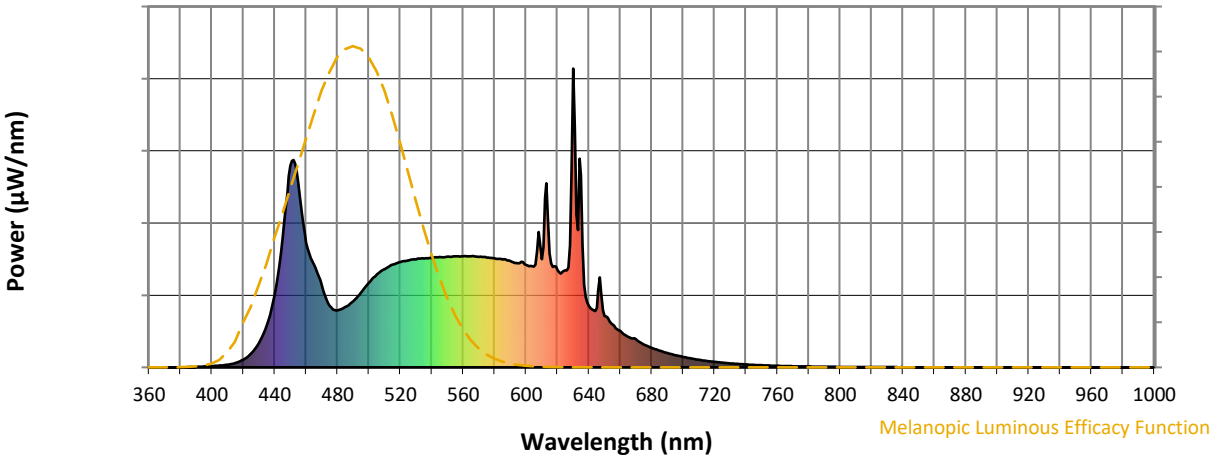


Scotopic Lumens: NR **S/P: 2.04**

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			

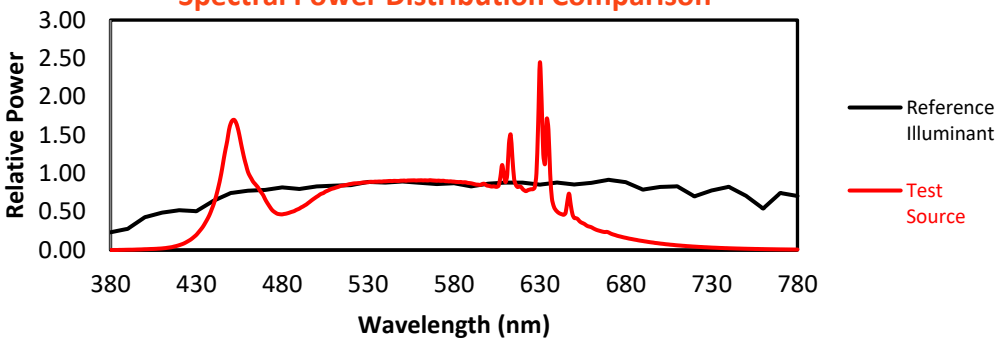
REPORT NUMBER: SP1-2506-472-8

TM-30-18

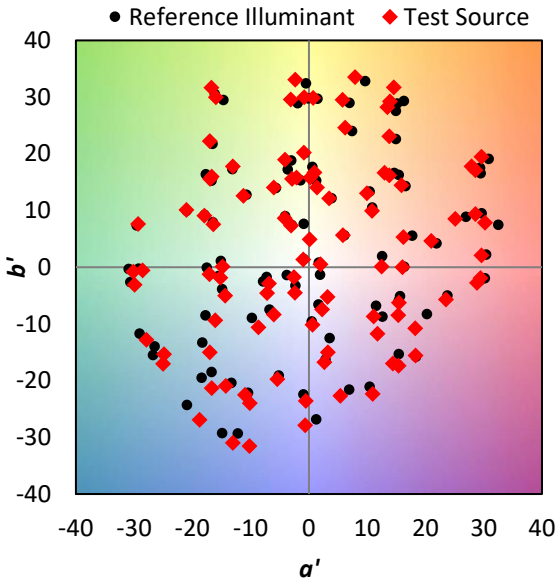
Summary

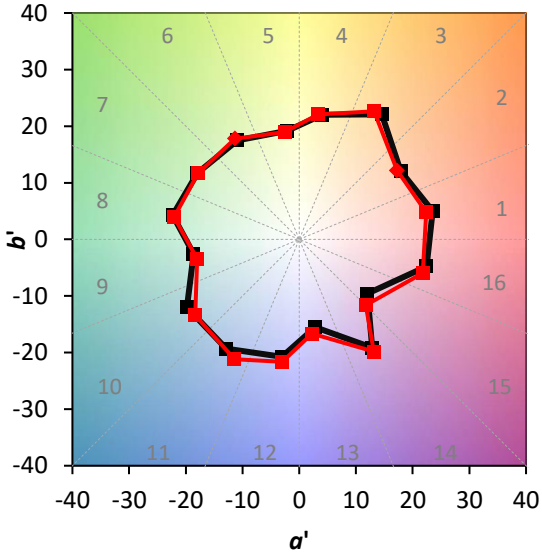
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

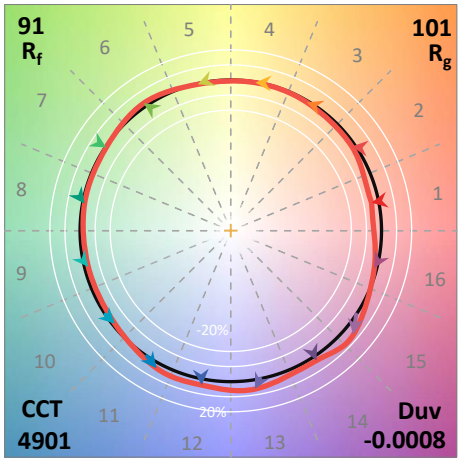
Spectral Power Distribution Comparison

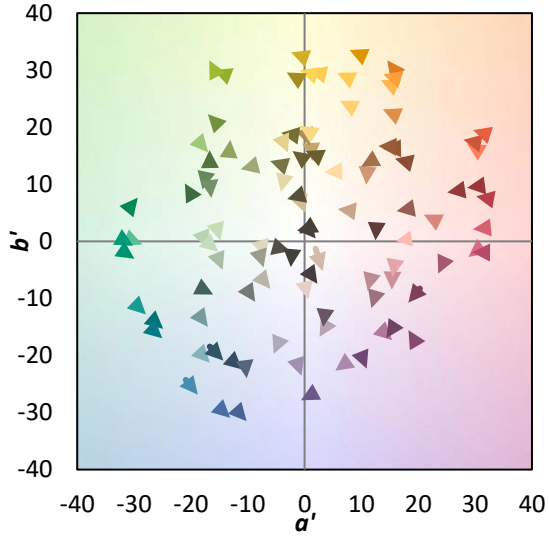


Color Vector Graphics







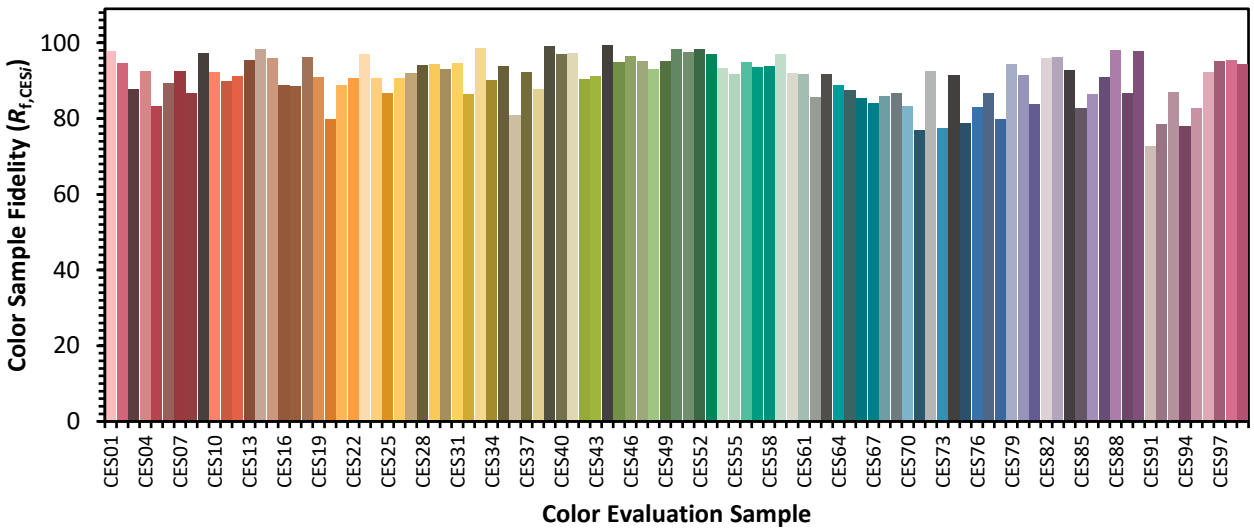


REPORT NUMBER: SP1-2506-472-8

TM-30-18

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

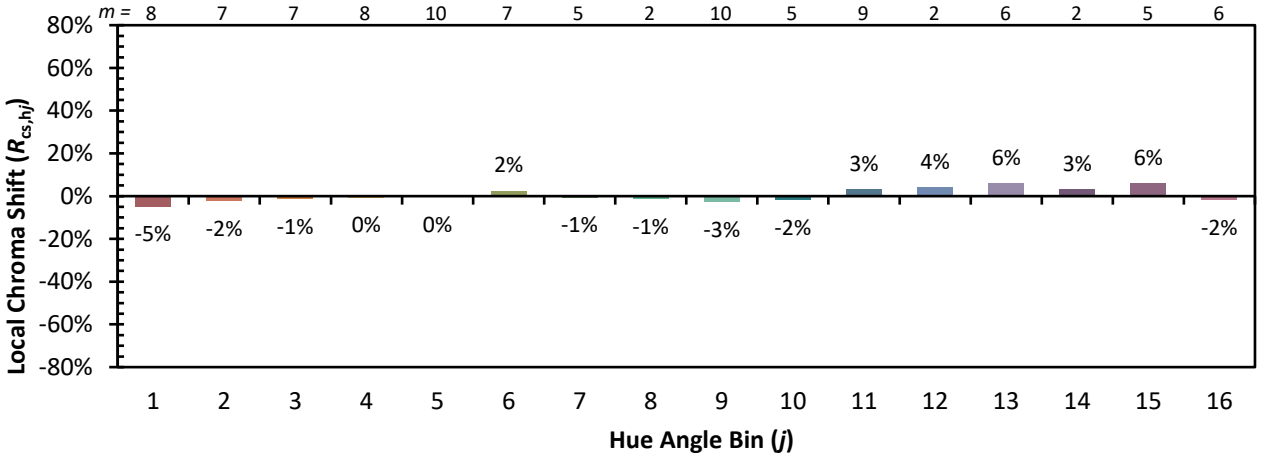
CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82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

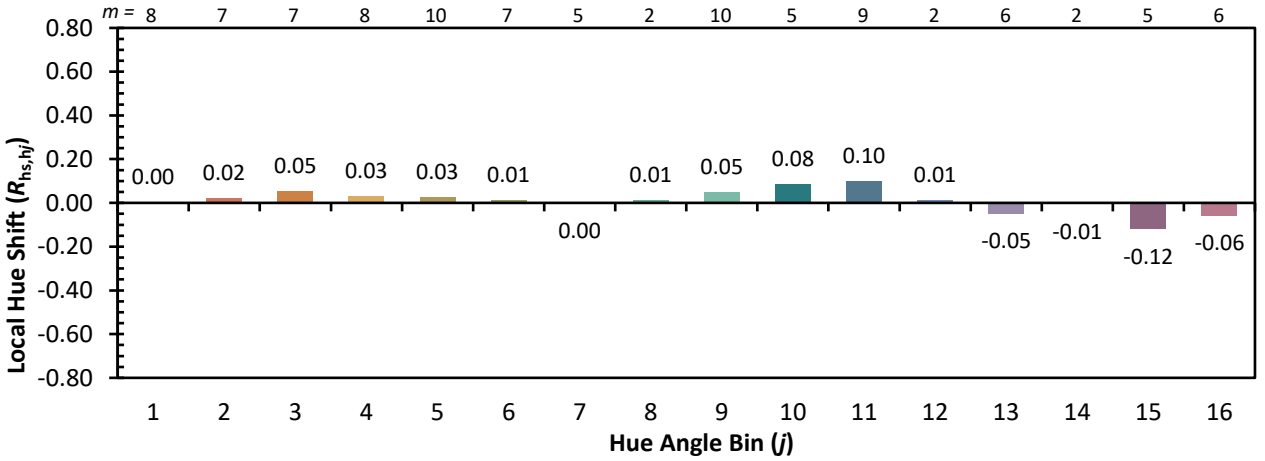


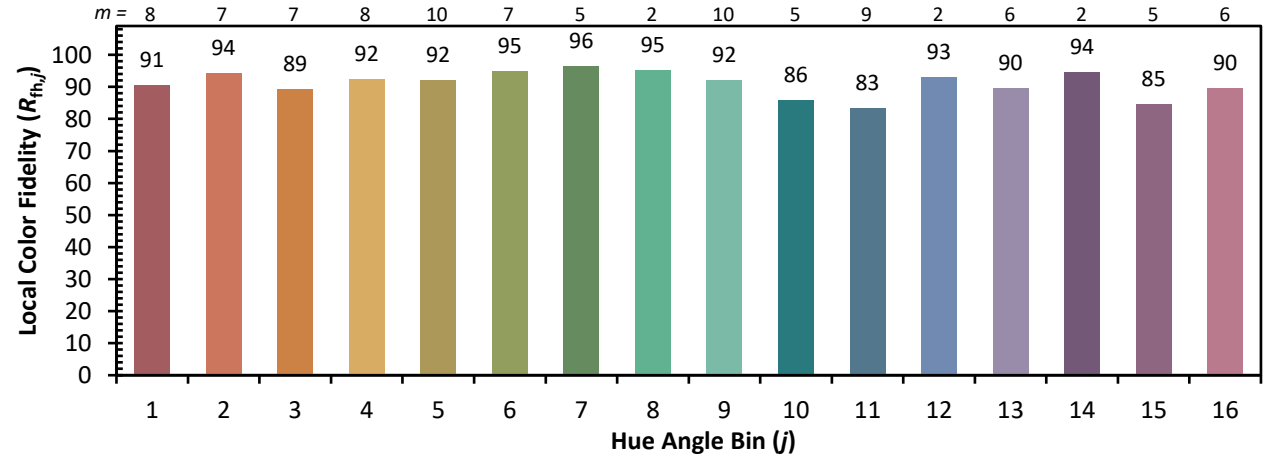
REPORT NUMBER: SP1-2506-472-8

TM-30-18

Color Rendition by Hue-Angle Bin







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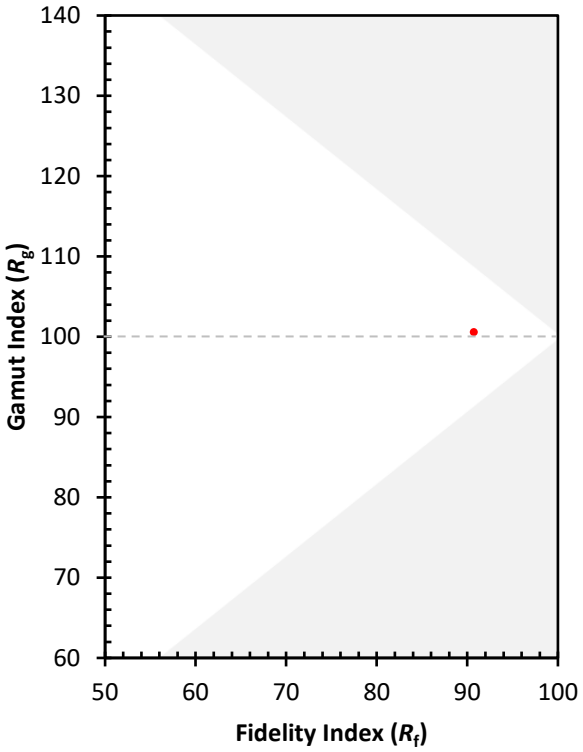
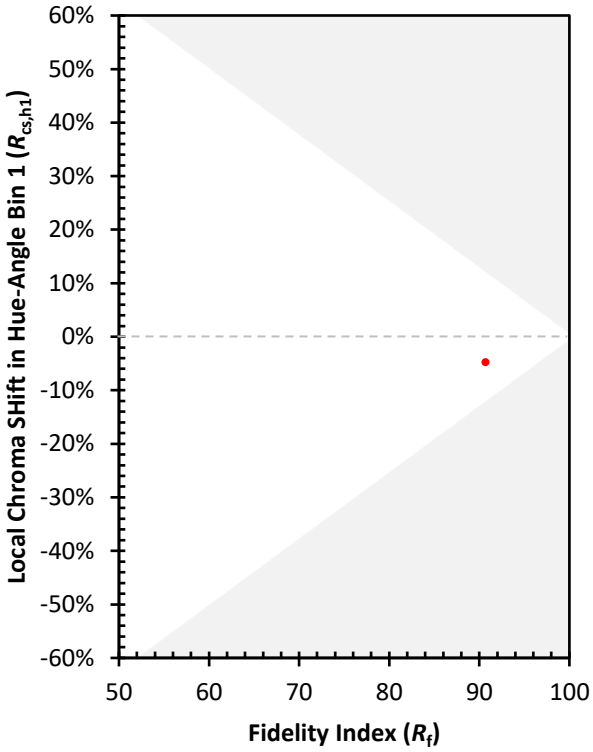
Measure Comparisons





(END OF REPORT)