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: P1433965

Luminaire Tested: EHBR1-60-UNV-TASM-L940-UPL18

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:	P1433965
	REPORT IS A COMBINATION OF REPORTS P1431902 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-TASM-L940-UPL18
Description:	Elevate Round Highbay at, 60000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	57053.1 lumens
Efficiency:	N/A
Efficacy:	166.7 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):	342.3
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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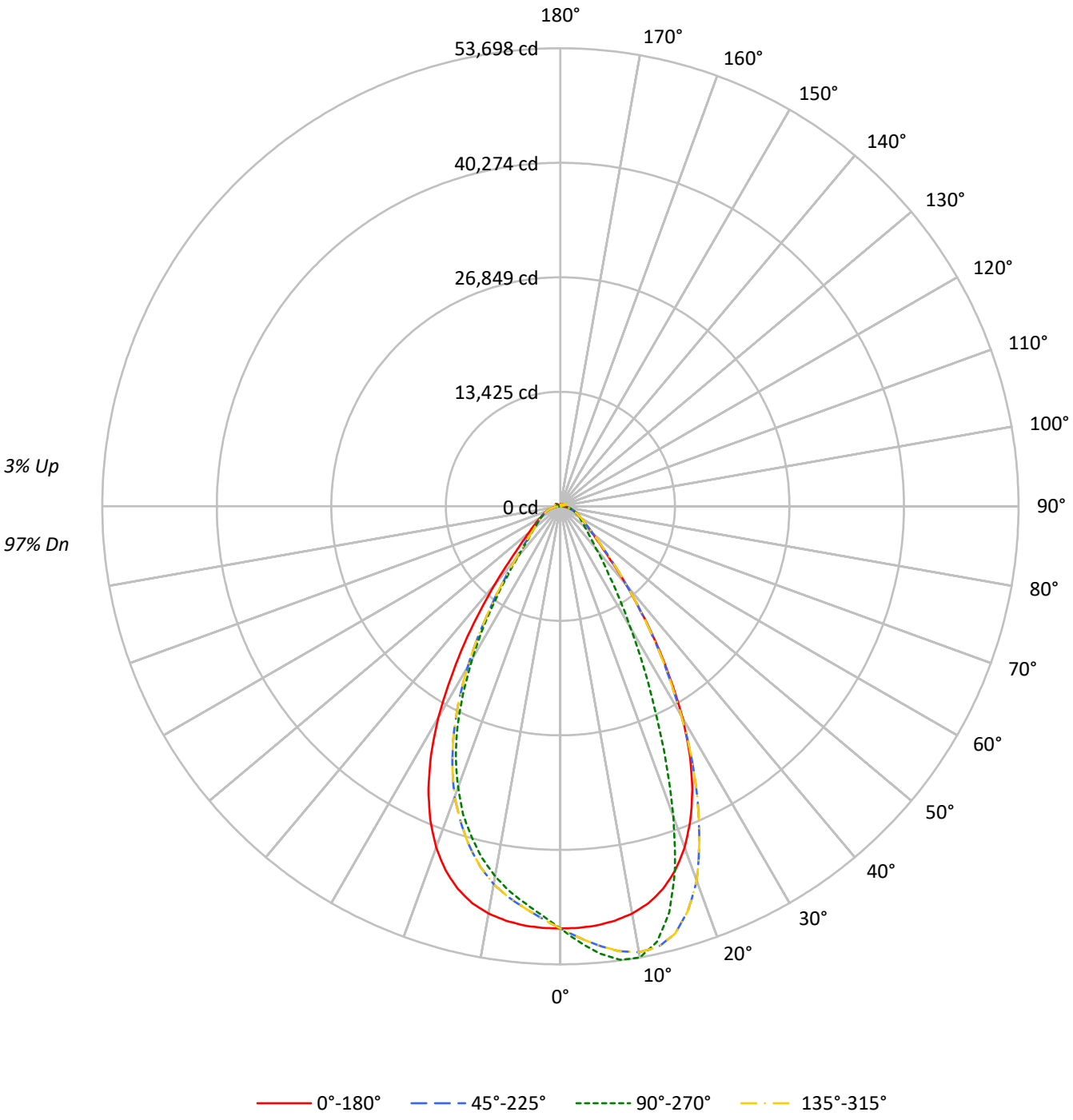
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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	101	98	96	96	94	93	92	91	90	88
2	104	98	93	89	102	96	92	88	92	89	85	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	81	77	82	78	75	80	76	74	72
4	92	83	76	71	90	82	75	71	79	74	70	76	72	68	74	70	67	65
5	87	77	70	65	85	76	69	64	73	68	64	71	66	63	69	65	62	60
6	82	71	64	59	80	70	64	59	68	63	58	67	62	58	65	61	57	55
7	77	66	60	55	75	66	59	55	64	58	54	62	57	54	61	56	53	51
8	73	62	55	51	71	61	55	51	60	54	50	59	54	50	57	53	49	48
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	50	46	45
10	66	55	48	44	64	54	48	44	53	48	44	52	47	44	51	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	232397	232397	232397	232397
5°	230982	246415	230982	218995
10°	228142	252741	228142	207261
15°	221406	234875	221406	191453
20°	207071	188338	207071	170531
25°	183274	130491	183274	142912
30°	148811	84894	148811	106927
35°	106733	54979	106733	71184
40°	69006	37895	69006	44892
45°	43784	29354	43784	31986
50°	32515	24943	32515	26643
55°	26547	22722	26547	23518
60°	22987	21644	22987	21775
65°	20955	20874	20955	20785
70°	19861	20453	19861	20188
75°	18574	19786	18574	19193
80°	16315	18680	16315	17463
85°	10559	13337	10559	12715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 61558 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4705.5	8.2
10°-20°	12801.5	22.4
20°-30°	15013.6	26.3
30°-40°	10441.0	18.3
40°-50°	5188.7	9.1
50°-60°	3103.4	5.4
60°-70°	2184.3	3.8
70°-80°	1407.0	2.5
80°-90°	450.0	0.8
90°-100°	47.8	0.1
100°-110°	302.7	0.5
110°-120°	557.5	1.0
120°-130°	332.8	0.6
130°-140°	203.4	0.4
140°-150°	142.6	0.3
150°-160°	95.2	0.2
160°-170°	56.7	0.1
170°-180°	19.3	0.0
0°-30°	32520.6	57.0
0°-40°	42961.6	75.3
0°-60°	51253.7	89.8
0°-90°	55294.9	96.9
90°-120°	908.1	1.6
90°-150°	1586.9	2.8
90°-180°	1758.0	3.1
0°-180°	57053.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	49487	49487	49487	49487	49487	
5°	49318	52614	49318	46759	49318	4680
15°	46450	49276	46450	40166	46450	12981
25°	36600	26059	36600	28539	36600	16570
35°	19589	10091	19589	13065	19589	12229
45°	7084	4749	7084	5175	7084	5797
55°	3588	3071	3588	3178	3588	3281
65°	2187	2179	2187	2170	2187	2197
75°	1308	1394	1308	1352	1308	1373
85°	363	458	363	437	363	403
90°	13	20	13	13	13	23
95°	26	28	26	22	26	27
105°	139	76	139	106	139	188
115°	593	511	593	481	593	540
125°	381	403	381	348	381	351
135°	244	283	244	256	244	194
145°	224	234	224	217	224	140
155°	203	212	203	199	203	95
165°	199	208	199	196	199	56
175°	204	212	204	200	204	19
180°	204	204	204	204	204	

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TEST NUMBER: P1433965
CATALOG NUMBER: EHBR1-60-UNV-TASM-L940-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	49487.2	49487.2	49487.2	49487.2	*49487.2*	49487.2	49487.2	49487.2	49487.2	49487.2	49487.2
2.5°	49458.4	50097.8	50615.6	50957.0	*51125.9*	50957.0	50615.6	50097.8	49458.4	48822.7	48385.7
5°	49318.3	50598.8	51683.6	52393.5	*52613.5*	52393.5	51683.6	50598.8	49318.3	48108.2	47305.5
7.5°	48983.2	50978.4	52590.3	53418.9	*53621.3*	53418.9	52590.3	50978.4	48983.2	47270.2	46256.0
10°	*48472.0*	*51217.8*	*53080.3*	*53674.1*	*53698.2*	*53674.1*	*53080.3*	*51217.8*	*48472.0*	*46164.2*	*44968.0*
12.5°	47656.3	51132.5	52916.0	52721.1	*52278.5*	52721.1	52916.0	51132.5	47656.3	44813.0	43304.1
15°	46449.9	50626.7	51875.7	50289.9	*49275.6*	50289.9	51875.7	50626.7	46449.9	42988.7	41238.6
17.5°	44749.9	49680.2	49704.3	46566.8	*44653.4*	46566.8	49704.3	49680.2	44749.9	40757.8	38830.4
20°	42559.0	48162.0	46714.4	40975.9	*38708.9*	40975.9	46714.4	48162.0	42559.0	38120.6	36229.4
22.5°	39812.2	46115.0	42550.7	35351.6	*32258.6*	35351.6	42550.7	46115.0	39812.2	35053.6	33085.5
25°	36599.6	43606.7	38071.4	29223.3	*26059.0*	29223.3	38071.4	43606.7	36599.6	31399.4	29619.5
27.5°	32821.0	40427.5	33301.7	23880.1	*20960.7*	23880.1	33301.7	40427.5	32821.0	27626.3	25808.5
30°	28623.8	36351.9	28338.1	19017.6	*16329.3*	19017.6	28338.1	36351.9	28623.8	23387.4	21759.7
32.5°	23924.7	32357.0	23571.1	15238.0	*12960.8*	15238.0	23571.1	32357.0	23924.7	19342.4	17641.5
35°	19589.3	27359.0	19272.8	11973.4	*10090.7*	11973.4	19272.8	27359.0	19589.3	15523.8	13853.5
37.5°	15373.5	22636.7	15363.3	9641.5	*8184.6*	9641.5	15363.3	22636.7	15373.5	12069.0	10713.3
40°	11960.5	17699.9	12037.5	7696.5	*6568.1*	7696.5	12037.5	17699.9	11960.5	9183.0	8315.4
42.5°	9062.5	13534.3	9461.5	6316.7	*5578.9*	6316.7	9461.5	13534.3	9062.5	7235.3	6585.7
45°	7084.0	9959.8	7388.4	5329.3	*4749.3*	5329.3	7388.4	9959.8	7084.0	5826.7	5390.5
47.5°	5769.1	7697.4	5988.2	4571.1	*4164.6*	4571.1	5988.2	7697.4	5769.1	4928.4	4601.8
50°	4845.8	5906.4	4972.0	3990.2	*3717.4*	3990.2	4972.0	5906.4	4845.8	4220.4	4002.3
52.5°	4162.8	4817.1	4234.2	3555.9	*3372.2*	3555.9	4234.2	4817.1	4162.8	3692.4	3556.8
55°	3587.5	4049.6	3682.1	3197.8	*3070.6*	3197.8	3682.1	4049.6	3587.5	3285.9	3185.7
57.5°	3150.5	3435.4	3197.8	2892.5	*2808.0*	2892.5	3197.8	3435.4	3150.5	2924.0	2870.2
60°	2763.4	2975.0	2822.0	2626.1	*2602.0*	2626.1	2822.0	2975.0	2763.4	2630.8	2595.5
62.5°	2465.6	2599.2	2495.3	2386.7	*2365.4*	2386.7	2495.3	2599.2	2465.6	2363.5	2370.0
65°	2187.2	2311.5	2229.9	2171.4	*2178.8*	2171.4	2229.9	2311.5	2187.2	2139.9	2150.1
67.5°	1971.9	2036.9	2001.6	1968.2	*1976.6*	1968.2	2001.6	2036.9	1971.9	1925.5	1941.3
70°	1742.7	1812.3	1776.1	1780.7	*1794.6*	1780.7	1776.1	1812.3	1742.7	1728.8	1740.9
72.5°	1523.7	1577.6	1565.4	1576.6	*1591.4*	1576.6	1565.4	1577.6	1523.7	1521.8	1522.8
75°	1308.4	1349.2	1354.8	1370.6	*1393.8*	1370.6	1354.8	1349.2	1308.4	1294.5	1311.2
77.5°	1073.6	1120.0	1137.6	1159.1	*1193.3*	1159.1	1137.6	1120.0	1073.6	1082.9	1091.2
80°	858.3	879.7	918.7	934.4	*982.7*	934.4	918.7	879.7	858.3	842.6	854.7
82.5°	628.2	647.7	681.1	710.8	*738.7*	710.8	681.1	647.7	628.2	620.8	621.7
85°	362.9	392.5	414.8	450.1	*458.4*	450.1	414.8	392.5	362.9	371.2	362.9
87.5°	127.2	136.4	155.9	169.8	*170.8*	169.8	155.9	136.4	127.2	129.9	117.9
90°	13.3	22.8	39.0	24.7	*19.8*	24.7	39.0	22.8	13.3	22.9	35.3
92.5°	17.1	30.5	54.3	31.4	*24.6*	31.4	54.3	30.5	17.1	29.5	56.3
95°	25.7	37.2	68.7	34.2	*28.4*	34.2	68.7	37.2	25.7	39.1	78.3
97.5°	39.1	45.7	77.2	36.1	*33.3*	36.1	77.2	45.7	39.1	47.7	89.7
100°	51.5	51.5	139.4	40.9	*37.1*	40.9	139.4	51.5	51.5	59.2	139.4
102.5°	77.3	100.2	320.8	78.2	*43.7*	78.2	320.8	100.2	77.3	109.7	295.1
105°	139.4	226.2	562.3	193.7	*76.2*	193.7	562.3	226.2	139.4	228.2	525.2
107.5°	262.5	420.1	723.7	377.0	*168.8*	377.0	723.7	420.1	262.5	402.9	693.1
110°	419.1	586.2	789.6	514.5	*334.9*	514.5	789.6	586.2	419.1	552.8	726.6

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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°	545.2	653.1	771.4	569.9	*461.0*	569.9	771.4	653.1	545.2	610.1	696.0
115°	592.9	643.5	689.3	568.0	*510.6*	568.0	689.3	643.5	592.9	595.8	621.6
117.5°	572.9	589.1	595.8	533.6	*513.5*	533.6	595.8	589.1	572.9	536.5	528.0
120°	517.4	510.8	503.1	483.0	*484.8*	483.0	503.1	510.8	517.4	468.8	441.1
122.5°	448.7	434.3	425.8	432.4	*445.7*	432.4	425.8	434.3	448.7	400.0	379.0
125°	380.9	366.6	372.3	388.4	*402.8*	388.4	372.3	366.6	380.9	340.8	335.0
127.5°	324.5	317.9	333.1	351.2	*363.5*	351.2	333.1	317.9	324.5	298.8	303.5
130°	284.4	285.4	305.4	321.6	*329.2*	321.6	305.4	285.4	284.4	272.0	284.4
132.5°	259.6	266.3	285.4	299.6	*304.4*	299.6	285.4	266.3	259.6	256.7	271.9
135°	244.3	253.9	271.9	280.5	*283.3*	280.5	271.9	253.9	244.3	246.1	259.6
137.5°	235.6	245.2	258.6	266.2	*265.2*	266.2	258.6	245.2	235.6	239.4	250.0
140°	230.9	240.5	246.1	254.7	*254.7*	254.7	246.1	240.5	230.9	232.7	241.4
142.5°	226.0	234.7	237.6	244.2	*243.3*	244.2	237.6	234.7	226.0	228.0	233.7
145°	224.2	230.9	228.0	235.6	*234.5*	235.6	228.0	230.9	224.2	224.2	228.0
147.5°	219.3	224.2	221.3	228.0	*226.9*	228.0	221.3	224.2	219.3	219.3	221.2
150°	214.5	218.3	213.6	221.2	*222.0*	221.2	213.6	218.3	214.5	213.5	215.4
152.5°	207.8	211.6	207.8	216.3	*216.3*	216.3	207.8	211.6	207.8	206.8	208.7
155°	202.9	204.9	202.9	211.5	*212.4*	211.5	202.9	204.9	202.9	202.0	203.8
157.5°	200.0	201.9	201.0	208.6	*209.5*	208.6	201.0	201.9	200.0	200.0	201.0
160°	199.0	200.9	200.9	207.5	*208.4*	207.5	200.9	200.9	199.0	199.0	199.9
162.5°	198.9	198.9	199.8	206.5	*208.3*	206.5	199.8	198.9	198.9	198.9	199.8
165°	198.8	199.8	199.7	205.4	*208.2*	205.4	199.7	199.8	198.8	198.9	198.9
167.5°	199.7	198.8	200.7	206.4	*209.2*	206.4	200.7	198.8	199.7	199.7	199.7
170°	198.8	199.7	200.6	206.3	*209.0*	206.3	200.6	199.7	198.8	199.7	199.7
172.5°	201.6	201.6	202.4	207.1	*210.8*	207.1	202.4	201.6	201.6	201.6	202.5
175°	203.5	203.4	204.2	207.9	*211.8*	207.9	204.2	203.4	203.5	202.5	202.5
177.5°	202.4	204.3	206.1	209.9	*214.6*	209.9	206.1	204.3	202.4	202.5	202.5
180°	204.3	204.3	204.3	204.3	*204.3*	204.3	204.3	204.3	204.3	204.3	204.3

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	49487.2	49487.2	49487.2	49487.2	49487.2	49487.2
2.5°	48049.7	48018.2	48049.7	48385.7	48822.7	49458.4
5°	46933.4	46758.9	46933.4	47305.5	48108.2	49318.3
7.5°	45633.3	45532.1	45633.3	46256.0	47270.2	48983.2
10°	*44264.6*	*44035.4*	*44264.6*	*44968.0*	*46164.2*	*48472.0*
12.5°	42577.5	42274.1	42577.5	43304.1	44813.0	47656.3
15°	40432.1	40165.8	40432.1	41238.6	42988.7	46449.9
17.5°	38129.8	37888.6	38129.8	38830.4	40757.8	44749.9
20°	35238.3	35049.0	35238.3	36229.4	38120.6	42559.0
22.5°	32204.9	32027.6	32204.9	33085.5	35053.6	39812.2
25°	28635.9	28539.4	28635.9	29619.5	31399.4	36599.6
27.5°	24779.3	24615.0	24779.3	25808.5	27626.3	32821.0
30°	20839.2	20567.3	20839.2	21759.7	23387.4	28623.8
32.5°	16985.4	16789.6	16985.4	17641.5	19342.4	23924.7
35°	13260.6	13064.8	13260.6	13853.5	15523.8	19589.3
37.5°	10332.8	9986.7	10332.8	10713.3	12069.0	15373.5
40°	7836.6	7780.9	7836.6	8315.4	9183.0	11960.5
42.5°	6379.7	6228.4	6379.7	6585.7	7235.3	9062.5
45°	5234.6	5175.2	5234.6	5390.5	5826.7	7084.0
47.5°	4501.5	4527.5	4501.5	4601.8	4928.4	5769.1
50°	3954.9	3970.8	3954.9	4002.3	4220.4	4845.8
52.5°	3552.3	3538.3	3552.3	3556.8	3692.4	4162.8
55°	3195.9	3178.2	3195.9	3185.7	3285.9	3587.5
57.5°	2884.1	2897.0	2884.1	2870.2	2924.0	3150.5
60°	2605.7	2617.7	2605.7	2595.5	2630.8	2763.4
62.5°	2370.9	2378.4	2370.9	2370.0	2363.5	2465.6
65°	2161.2	2169.5	2161.2	2150.1	2139.9	2187.2
67.5°	1960.7	1960.7	1960.7	1941.3	1925.5	1971.9
70°	1772.4	1771.4	1772.4	1740.9	1728.8	1742.7
72.5°	1546.0	1568.2	1546.0	1522.8	1521.8	1523.7
75°	1326.0	1352.0	1326.0	1311.2	1294.5	1308.4
77.5°	1103.3	1143.2	1103.3	1091.2	1082.9	1073.6
80°	875.1	918.7	875.1	854.7	842.6	858.3
82.5°	646.7	679.3	646.7	621.7	620.8	628.2
85°	385.1	437.0	385.1	362.9	371.2	362.9
87.5°	123.4	157.7	123.4	117.9	129.9	127.2
90°	21.0	13.3	21.0	35.3	22.9	13.3
92.5°	31.5	19.1	31.5	56.3	29.5	17.1
95°	36.2	21.9	36.2	78.3	39.1	25.7
97.5°	40.1	28.6	40.1	89.7	47.7	39.1
100°	46.8	37.2	46.8	139.4	59.2	51.5
102.5°	98.3	62.0	98.3	295.1	109.7	77.3
105°	206.3	105.9	206.3	525.2	228.2	139.4
107.5°	368.6	182.3	368.6	693.1	402.9	262.5
110°	488.8	338.9	488.8	726.6	552.8	419.1

TEST NUMBER: P1433965
CATALOG NUMBER: EHBR1-60-UNV-TASM-L940-UPL18

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	525.2	457.3	525.2	696.0	610.1	545.2
115°	505.1	481.2	505.1	621.6	595.8	592.9
117.5°	461.2	465.0	461.2	528.0	536.5	572.9
120°	410.6	430.6	410.6	441.1	468.8	517.4
122.5°	364.7	387.7	364.7	379.0	400.0	448.7
125°	324.6	348.4	324.6	335.0	340.8	380.9
127.5°	296.9	313.1	296.9	303.5	298.8	324.5
130°	275.9	289.3	275.9	284.4	272.0	284.4
132.5°	261.5	270.2	261.5	271.9	256.7	259.6
135°	249.1	255.8	249.1	259.6	246.1	244.3
137.5°	238.6	244.4	238.6	250.0	239.4	235.6
140°	229.9	234.8	229.9	241.4	232.7	230.9
142.5°	220.3	224.2	220.3	233.7	228.0	226.0
145°	214.6	217.4	214.6	228.0	224.2	224.2
147.5°	209.7	211.6	209.7	221.2	219.3	219.3
150°	204.9	206.7	204.9	215.4	213.5	214.5
152.5°	199.1	202.0	199.1	208.7	206.8	207.8
155°	196.2	199.0	196.2	203.8	202.0	202.9
157.5°	195.2	198.0	195.2	201.0	200.0	200.0
160°	195.1	197.0	195.1	199.9	199.0	199.0
162.5°	194.2	196.0	194.2	199.8	198.9	198.9
165°	195.0	195.9	195.0	198.9	198.9	198.8
167.5°	195.0	195.9	195.0	199.7	199.7	199.7
170°	195.9	196.9	195.9	199.7	199.7	198.8
172.5°	197.8	198.7	197.8	202.5	201.6	201.6
175°	198.7	199.7	198.7	202.5	202.5	203.5
177.5°	200.6	201.5	200.6	202.5	202.5	202.4
180°	204.3	204.3	204.3	204.3	204.3	204.3

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

Scaled Data Report

TEST NUMBER: P1433965
CATALOG NUMBER: EHBR1-60-UNV-TASM-L940-UPL18

CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.86	21.01	20.28	21.39	21.79	19.17	20.33	19.60	20.71	21.11
	3H	21.41	22.44	21.84	22.83	23.28	21.02	22.05	21.46	22.45	22.90
	4H	22.04	23.00	22.50	23.42	23.88	21.81	22.77	22.27	23.18	23.65
	6H	22.53	23.41	23.00	23.84	24.32	22.45	23.33	22.92	23.77	24.24
	8H	22.68	23.51	23.16	23.97	24.45	22.67	23.51	23.16	23.96	24.45
	12H	22.75	23.55	23.24	24.00	24.50	22.80	23.60	23.29	24.05	24.55
4H	2H	20.27	21.24	20.73	21.65	22.11	19.75	20.71	20.21	21.13	21.59
	3H	22.07	22.87	22.54	23.33	23.81	21.81	22.61	22.28	23.07	23.55
	4H	22.85	23.56	23.34	24.04	24.56	22.72	23.43	23.21	23.91	24.43
	6H	23.47	24.08	23.98	24.59	25.13	23.49	24.11	24.01	24.61	25.15
	8H	23.66	24.23	24.19	24.74	25.28	23.76	24.34	24.29	24.84	25.39
	12H	23.77	24.27	24.31	24.81	25.36	23.93	24.44	24.47	24.98	25.53
8H	4H	23.10	23.67	23.62	24.18	24.72	23.00	23.58	23.53	24.08	24.63
	6H	23.84	24.31	24.40	24.86	25.42	23.91	24.37	24.46	24.93	25.48
	8H	24.11	24.53	24.69	25.10	25.66	24.26	24.68	24.84	25.25	25.81
	12H	24.29	24.65	24.86	25.20	25.84	24.51	24.87	25.08	25.42	26.07
12H	4H	23.11	23.62	23.65	24.16	24.70	23.01	23.52	23.56	24.06	24.61
	6H	23.88	24.30	24.46	24.87	25.44	23.95	24.37	24.53	24.94	25.50
	8H	24.20	24.57	24.77	25.12	25.76	24.36	24.72	24.93	25.27	25.91

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: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

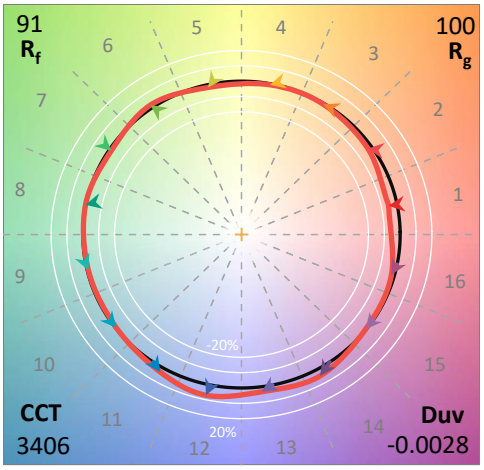
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-6
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-L935-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	3406	CRI (Ra):	94.6		
CIE u':	0.2394	R1:	96.6	R9:	63.8
CIE v':	0.5094	R2:	98.4	R10:	94.7
Duv:	-0.0028	R3:	98.1	R11:	96.6
CIE x:	0.4076	R4:	95.8	R12:	80.9
CIE y:	0.3856	R5:	96.2	R13:	97.4
CIE z:	0.2068	R6:	95.4	R14:	98.3
Peak Wavelength (nm):	630	R7:	91.8	R15:	93.1
Dominant Wavelength (nm):	582	R8:	84.4		
Purity:	38.0517				
Rf:	91.3				
Rg:	100				



Test Conditions

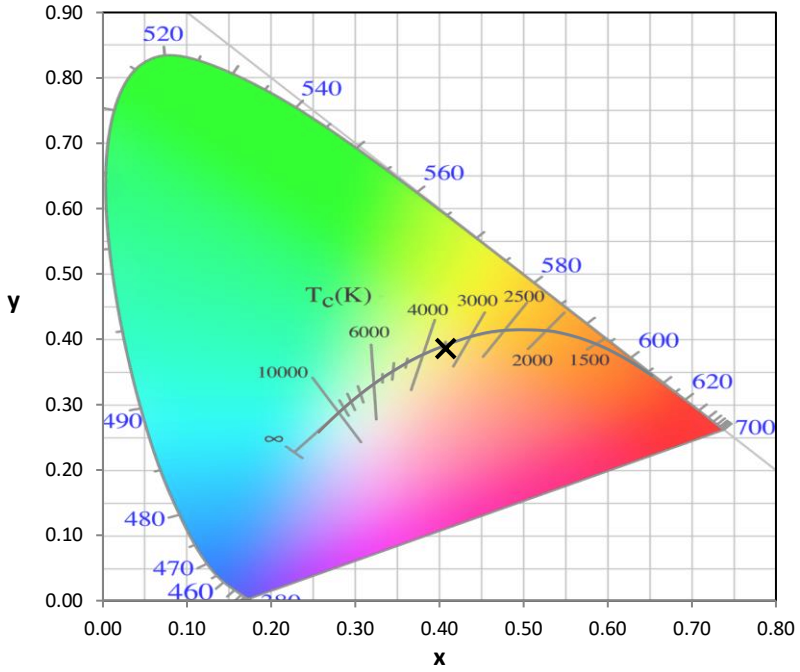
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

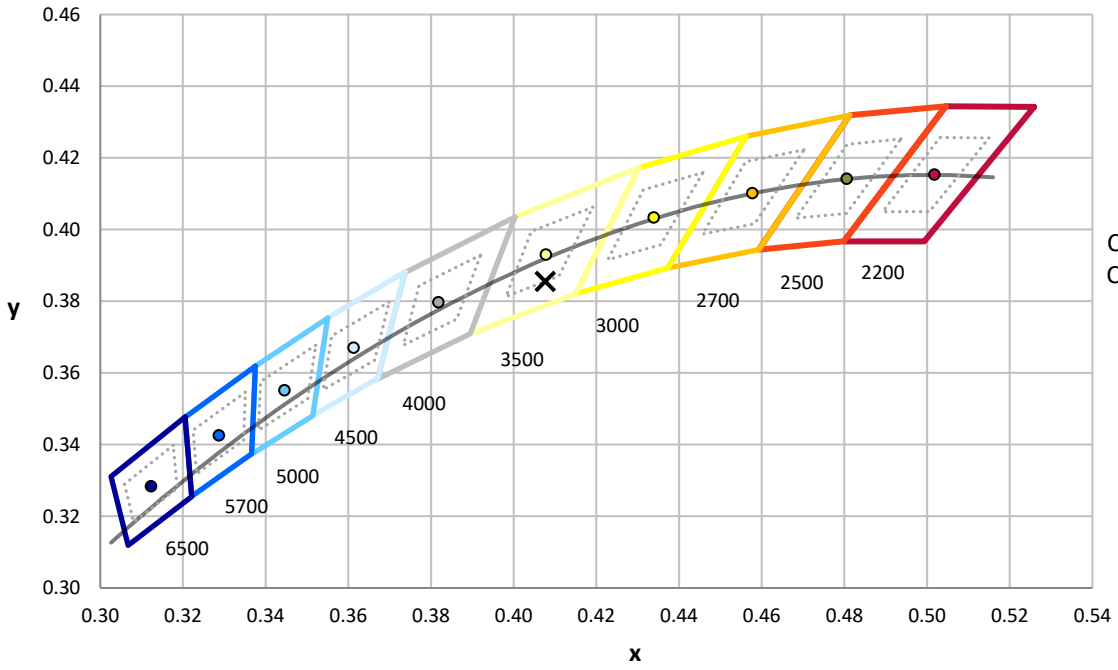
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-6

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

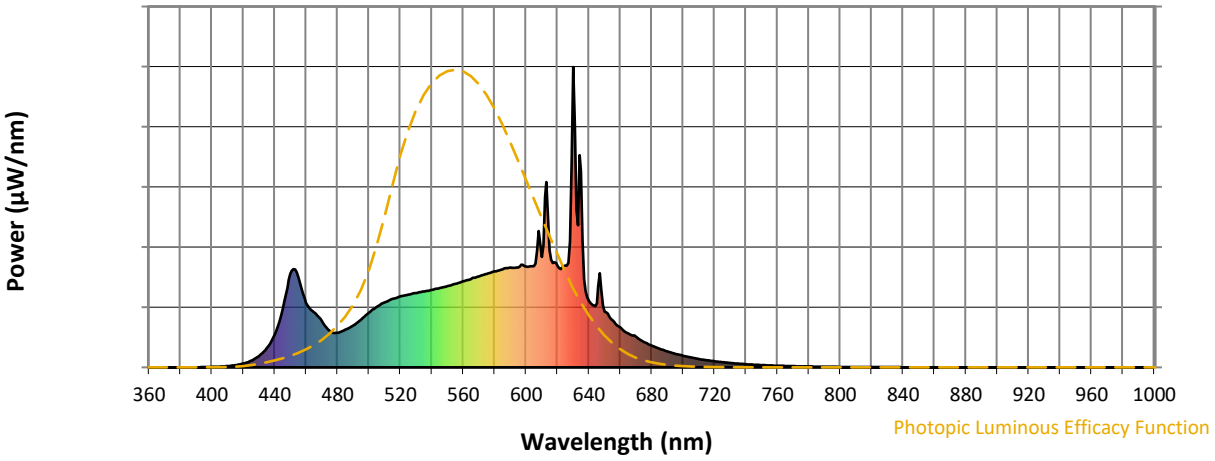


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

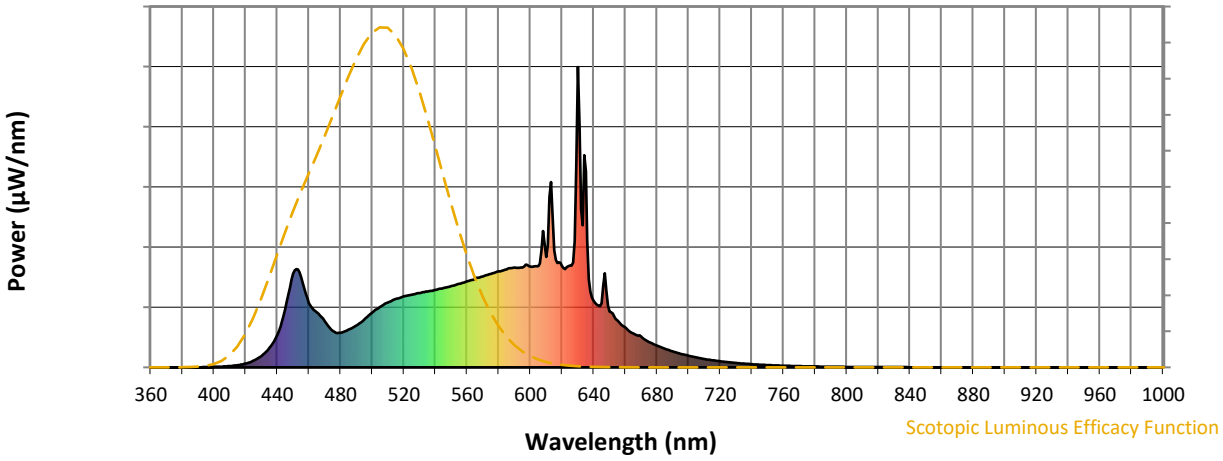


Photopic Lumens: NR

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength

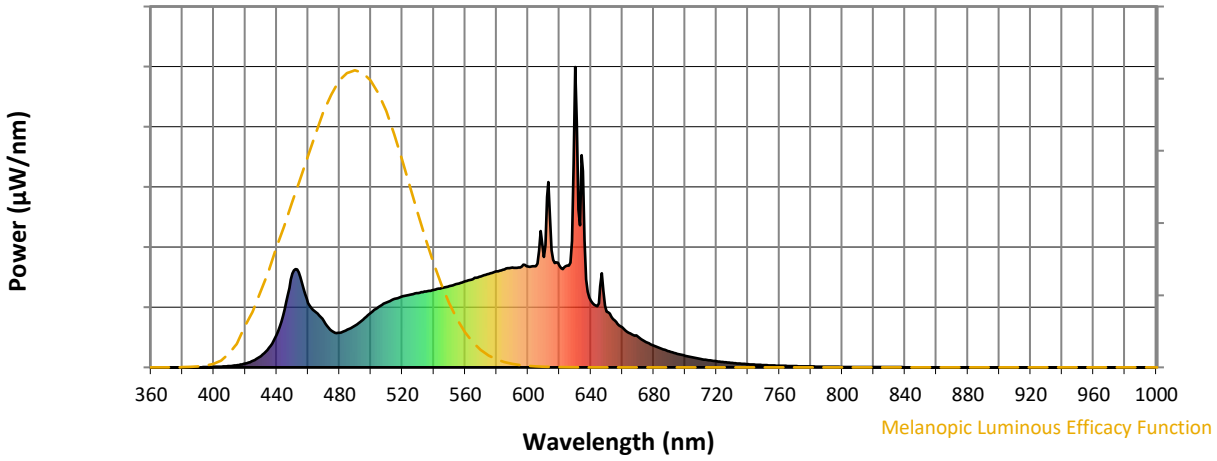


Scotopic Lumens: NR **S/P: 1.62**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.3**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

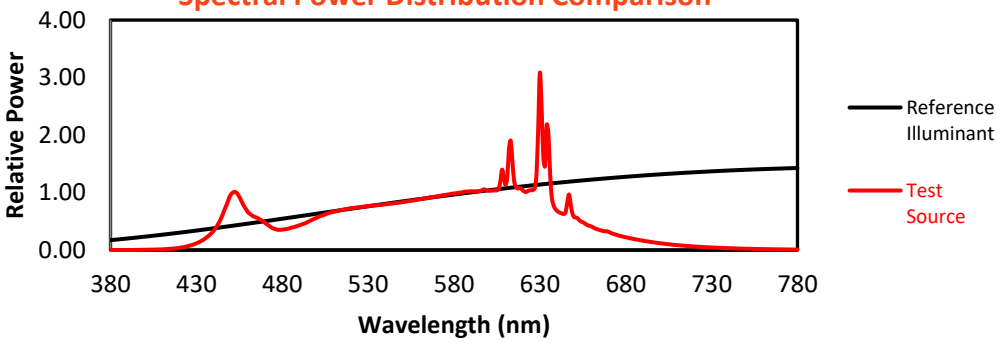
REPORT NUMBER: SP1-2506-472-6

TM-30-18

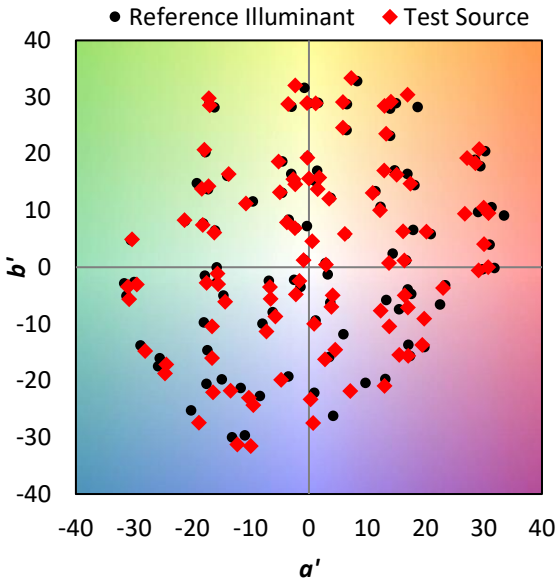
Summary

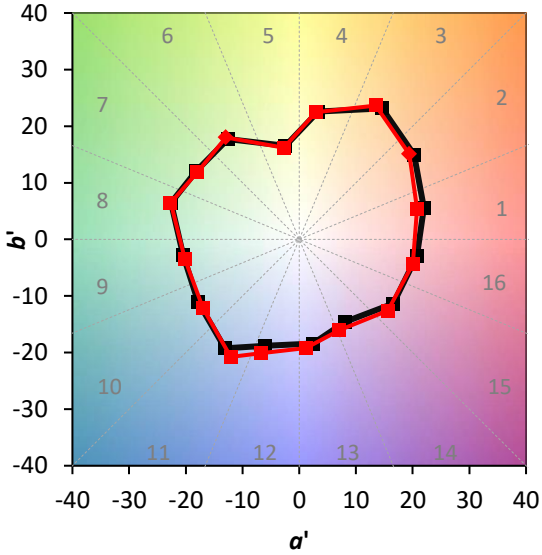
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

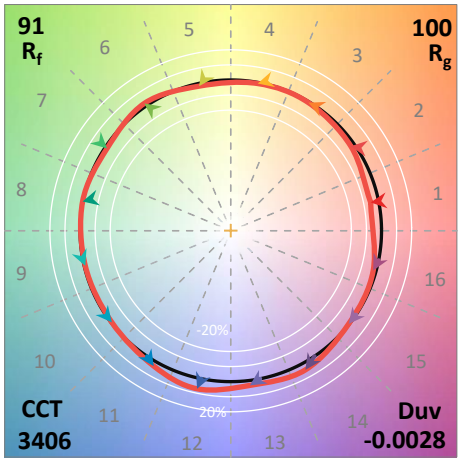
Spectral Power Distribution Comparison

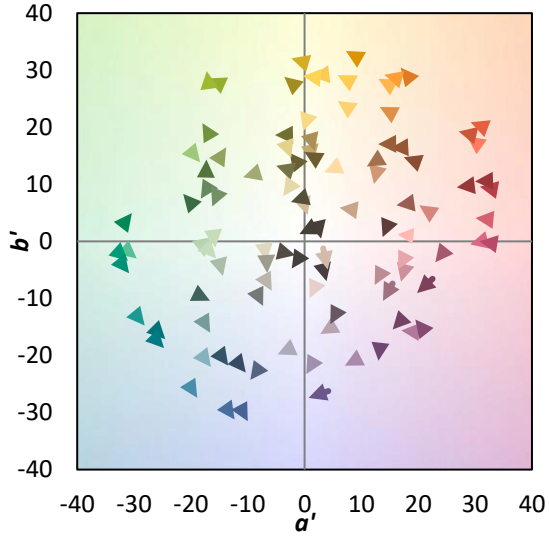


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-6

TM-30-18

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

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 92	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 96	CES62 = 86	CES87 = 92
CES13 = 44	CES38 = 87	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 96	CES66 = 89	CES91 = 75
CES17 = 49	CES42 = 94	CES67 = 88	CES92 = 76
CES18 = 56	CES43 = 93	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 74
CES20 = 67	CES45 = 97	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 92
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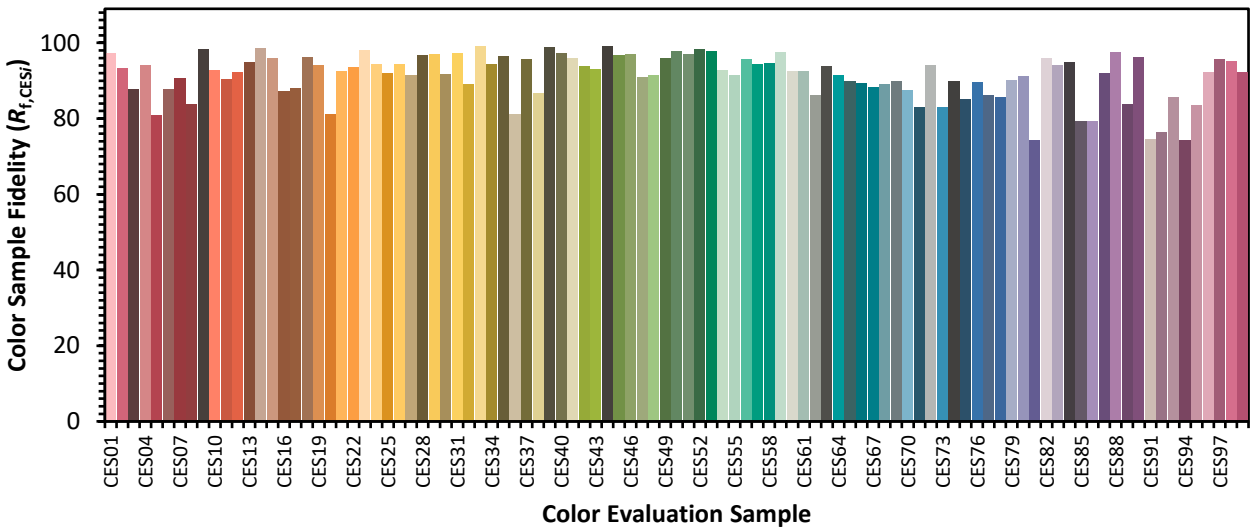

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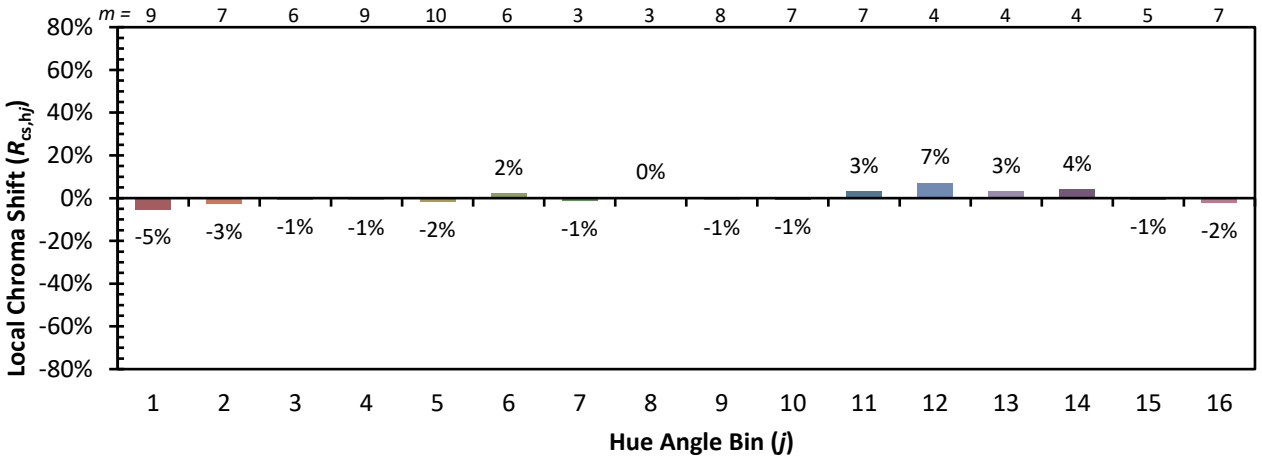
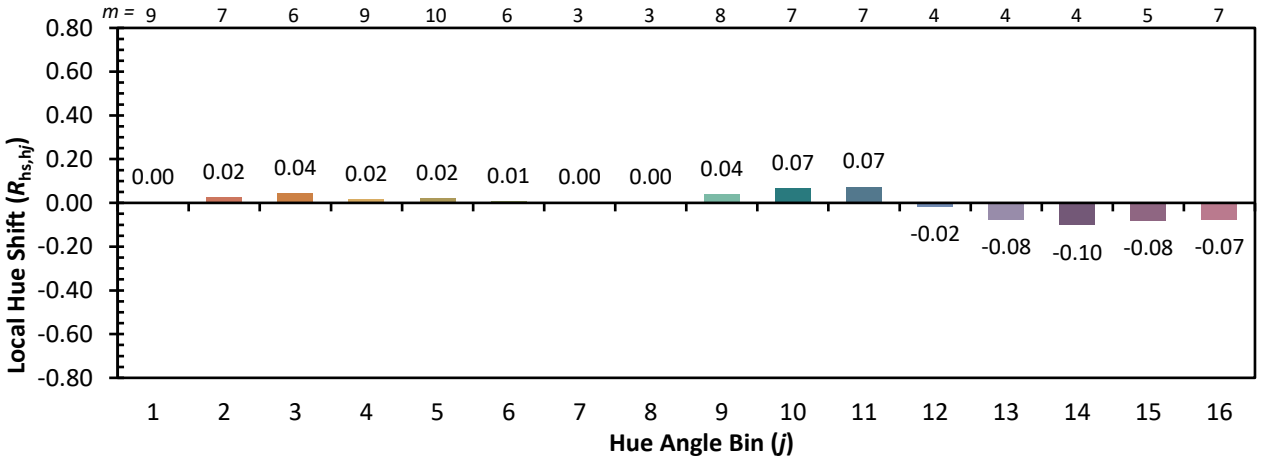
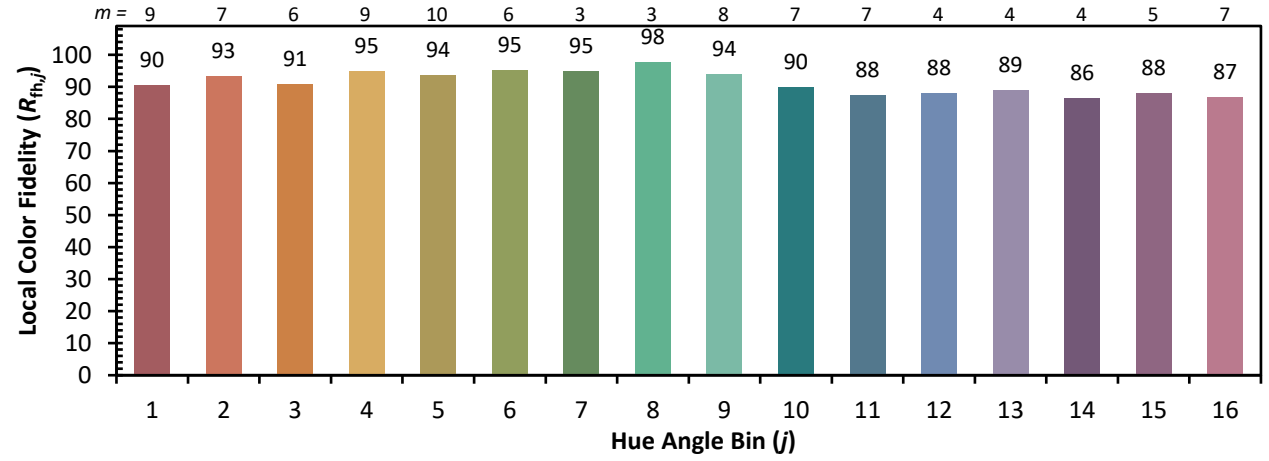
Color Rendition by Hue-Angle Bin







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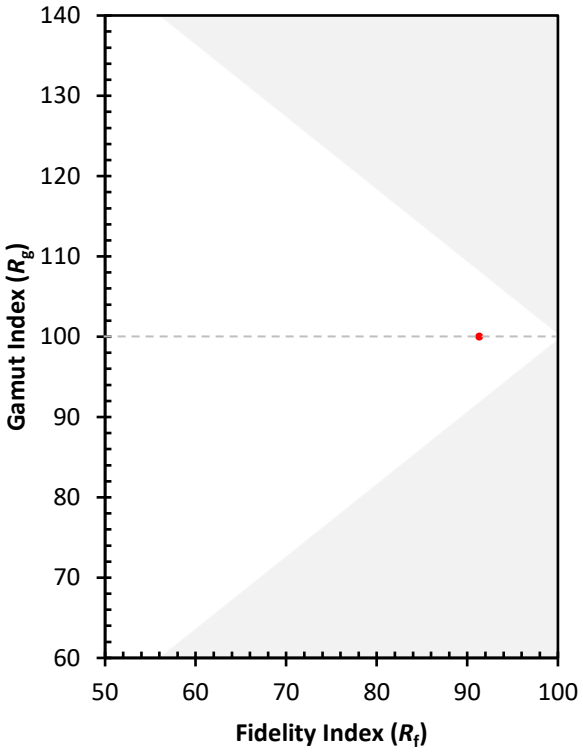
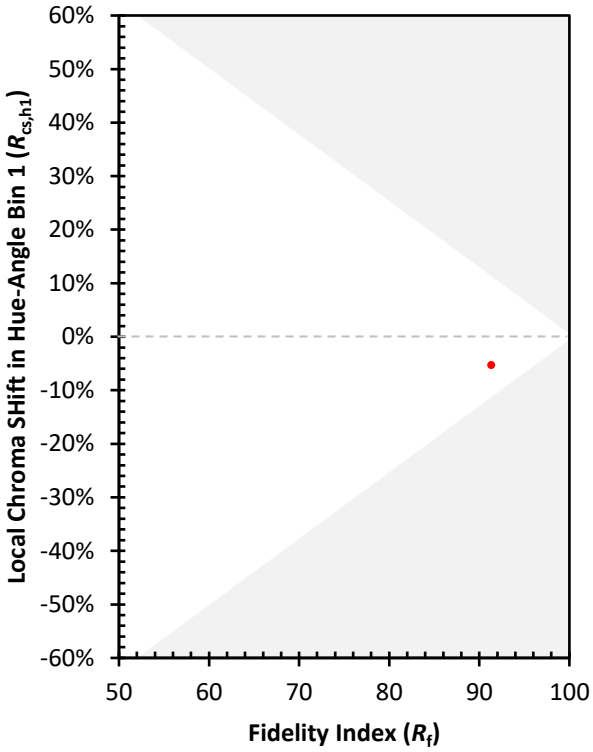
Measure Comparisons





(END OF REPORT)