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: P1433583

Luminaire Tested: EHBR1-42-UNV-TASM-L935-UPL30

Issue Date: 3/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1433583
	REPORT IS A COMBINATION OF REPORTS P1431908 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-42-UNV-TASM-L935-UPL30
Description:	Elevate Round Highbay at, 42000 lumens, 3500K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	40349.9 lumens
Efficiency:	N/A
Efficacy:	163.8 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):	246.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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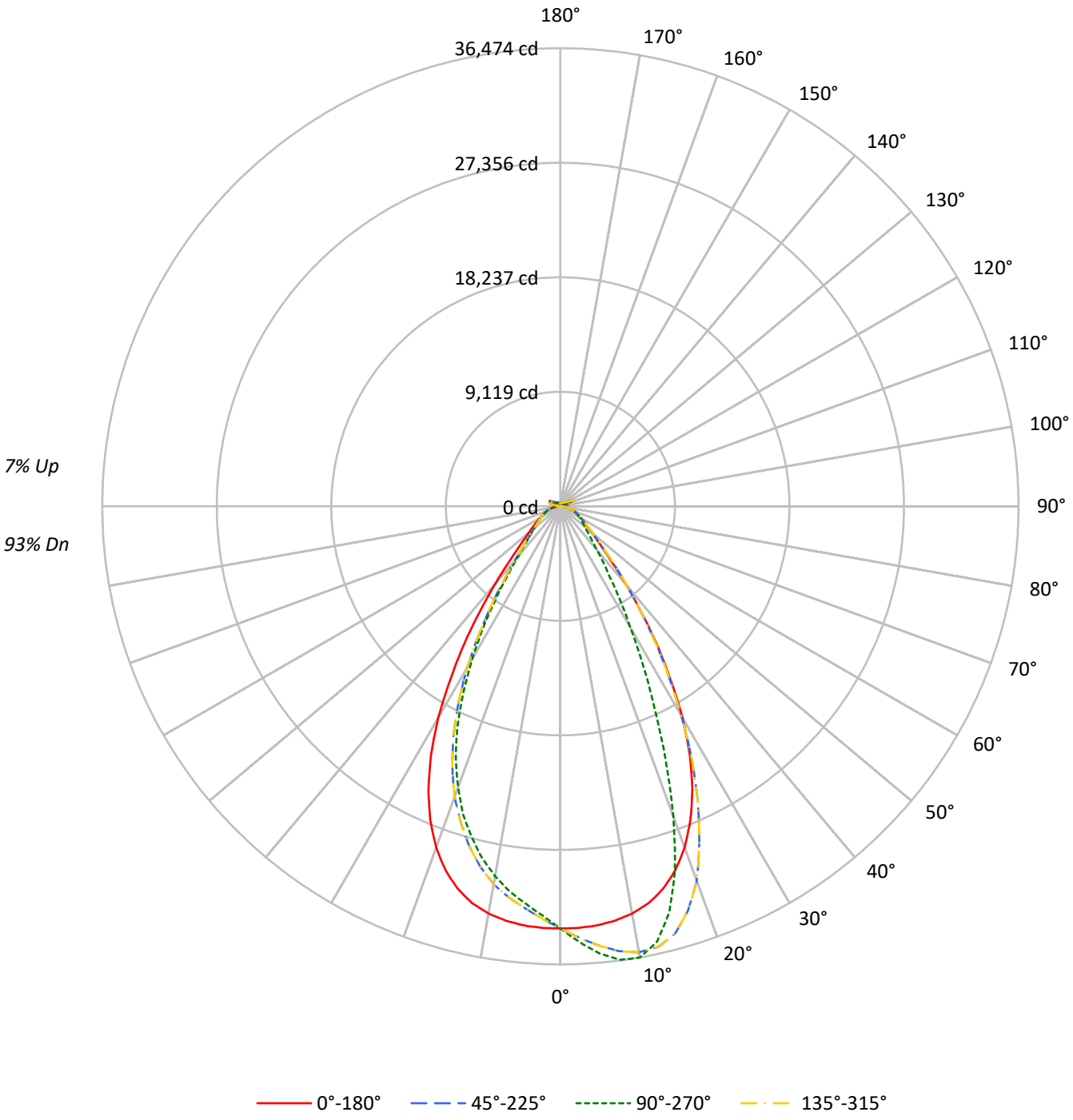
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	110	107	104	101	107	104	101	99	98	96	94	94	92	90	89	88	86	84
2	103	97	92	88	100	95	90	87	90	87	84	86	83	81	83	80	78	76
3	97	89	83	78	94	87	82	77	83	79	75	80	76	73	77	74	71	69
4	91	82	75	70	88	80	74	69	77	72	68	74	70	66	71	68	65	63
5	85	76	69	64	83	74	68	63	72	66	62	69	64	61	67	63	60	58
6	81	70	63	58	78	69	63	58	67	61	57	65	60	56	63	58	55	53
7	76	65	59	54	74	64	58	53	62	57	53	61	56	52	59	54	51	49
8	72	61	54	50	70	60	54	49	58	53	49	57	52	48	55	51	48	46
9	68	57	51	46	67	57	50	46	55	49	45	54	49	45	52	48	44	43
10	65	54	47	43	63	53	47	43	52	46	42	51	46	42	49	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	157855	157855	157855	157855
5°	156893	167376	156893	148752
10°	154964	171673	154964	140781
15°	150389	159538	150389	130043
20°	140652	127927	140652	115832
25°	124488	88635	124488	97072
30°	101080	57664	101080	72630
35°	72498	37344	72498	48351
40°	46872	25739	46872	30493
45°	29740	19938	29740	21727
50°	22085	16942	22085	18097
55°	18032	15434	18032	15975
60°	15614	14702	15614	14791
65°	14234	14178	14234	14119
70°	13491	13893	13491	13713
75°	12616	13441	12616	13037
80°	11082	12688	11082	11862
85°	7169	9060	7169	8638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 41813 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3196.2	7.9
10°-20°	8695.4	21.5
20°-30°	10197.9	25.3
30°-40°	7092.0	17.6
40°-50°	3524.4	8.7
50°-60°	2108.0	5.2
60°-70°	1483.7	3.7
70°-80°	955.7	2.4
80°-90°	308.5	0.8
90°-100°	74.5	0.2
100°-110°	484.0	1.2
110°-120°	893.6	2.2
120°-130°	531.5	1.3
130°-140°	322.0	0.8
140°-150°	223.3	0.6
150°-160°	146.3	0.4
160°-170°	84.6	0.2
170°-180°	28.3	0.1
0°-30°	22089.5	54.7
0°-40°	29181.5	72.3
0°-60°	34813.8	86.3
0°-90°	37561.7	93.1
90°-120°	1452.1	3.6
90°-150°	2529.0	6.3
90°-180°	2788.0	6.9
0°-180°	40349.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	33614	33614	33614	33614	33614	
5°	33499	35738	33499	31761	33499	3179
15°	31551	33470	31551	27282	31551	8817
25°	24860	17700	24860	19385	24860	11255
35°	13306	6854	13306	8874	13306	8306
45°	4812	3226	4812	3515	4812	3937
55°	2437	2086	2437	2159	2437	2228
65°	1486	1480	1486	1474	1486	1492
75°	889	947	889	918	889	933
85°	246	311	246	297	246	274
90°	21	25	21	21	21	21
95°	40	39	40	34	40	42
105°	222	115	222	169	222	300
115°	951	813	951	772	951	867
125°	609	639	609	558	609	561
135°	386	446	386	408	386	306
145°	350	366	350	340	350	219
155°	313	326	313	304	313	146
165°	297	306	297	291	297	84
175°	297	304	297	292	297	28
180°	297	297	297	297	297	

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TEST NUMBER: P1433583
CATALOG NUMBER: EHBR1-42-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	33614.0	33614.0	33614.0	33614.0	*33614.0*	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0
2.5°	33594.4	34028.7	34380.4	34612.4	*34727.0*	34612.4	34380.4	34028.7	33594.4	33162.6	32865.8
5°	33499.2	34369.0	35105.9	35588.0	*35737.5*	35588.0	35105.9	34369.0	33499.2	32677.3	32132.1
7.5°	33271.6	34626.9	35721.7	36284.6	*36422.0*	36284.6	35721.7	34626.9	33271.6	32108.1	31419.2
10°	*32924.3*	*34789.5*	*36054.5*	*36457.9*	*36474.3*	*36457.9*	*36054.5*	*34789.5*	*32924.3*	*31356.8*	*30544.3*
12.5°	32370.3	34731.5	35943.0	35810.5	*35509.9*	35810.5	35943.0	34731.5	32370.3	30439.1	29414.1
15°	31550.9	34388.0	35236.4	34159.1	*33470.2*	34159.1	35236.4	34388.0	31550.9	29199.9	28011.1
17.5°	30396.2	33745.0	33761.4	31630.4	*30330.6*	31630.4	33761.4	33745.0	30396.2	27684.6	26375.5
20°	28908.0	32713.9	31730.5	27832.7	*26292.8*	27832.7	31730.5	32713.9	28908.0	25893.2	24608.7
22.5°	27042.3	31323.4	28902.3	24012.4	*21911.5*	24012.4	28902.3	31323.4	27042.3	23810.0	22473.2
25°	24860.2	29619.7	25859.9	19849.8	*17700.4*	19849.8	25859.9	29619.7	24860.2	21327.8	20119.0
27.5°	22293.5	27460.2	22620.0	16220.5	*14237.5*	16220.5	22620.0	27460.2	22293.5	18765.0	17530.2
30°	19442.6	24691.9	19248.5	12917.6	*11091.6*	12917.6	19248.5	24691.9	19442.6	15885.8	14780.2
32.5°	16250.7	21978.4	16010.6	10350.4	*8803.5*	10350.4	16010.6	21978.4	16250.7	13138.3	11982.9
35°	13305.9	18583.5	13090.9	8133.0	*6854.0*	8133.0	13090.9	18583.5	13305.9	10544.5	9410.0
37.5°	10442.4	15375.9	10435.5	6549.0	*5559.3*	6549.0	10435.5	15375.9	10442.4	8197.8	7276.9
40°	8124.1	12022.6	8176.5	5227.8	*4461.3*	5227.8	8176.5	12022.6	8124.1	6237.5	5648.2
42.5°	6155.6	9193.1	6426.7	4290.6	*3789.5*	4290.6	6426.7	9193.1	6155.6	4914.6	4473.4
45°	4811.8	6765.1	5018.5	3619.9	*3225.9*	3619.9	5018.5	6765.1	4811.8	3957.8	3661.5
47.5°	3918.6	5228.4	4067.4	3104.9	*2828.8*	3104.9	4067.4	5228.4	3918.6	3347.6	3125.8
50°	3291.5	4012.0	3377.3	2710.4	*2525.0*	2710.4	3377.3	4012.0	3291.5	2866.6	2718.5
52.5°	2827.6	3271.9	2876.1	2415.4	*2290.6*	2415.4	2876.1	3271.9	2827.6	2508.0	2416.0
55°	2436.8	2750.7	2501.1	2172.0	*2085.7*	2172.0	2501.1	2750.7	2436.8	2231.9	2163.9
57.5°	2139.9	2333.4	2172.0	1964.7	*1907.3*	1964.7	2172.0	2333.4	2139.9	1986.1	1949.5
60°	1877.1	2020.8	1916.8	1783.7	*1767.4*	1783.7	1916.8	2020.8	1877.1	1786.9	1763.0
62.5°	1674.7	1765.5	1694.9	1621.2	*1606.7*	1621.2	1694.9	1765.5	1674.7	1605.4	1609.8
65°	1485.7	1570.1	1514.7	1475.0	*1479.9*	1475.0	1514.7	1570.1	1485.7	1453.5	1460.5
67.5°	1339.4	1383.5	1359.6	1336.9	*1342.5*	1336.9	1359.6	1383.5	1339.4	1307.9	1318.6
70°	1183.8	1231.0	1206.4	1209.6	*1219.0*	1209.6	1206.4	1231.0	1183.8	1174.2	1182.5
72.5°	1034.9	1071.6	1063.3	1070.9	*1081.0*	1070.9	1063.3	1071.6	1034.9	1033.7	1034.3
75°	888.7	916.5	920.3	931.0	*946.8*	931.0	920.3	916.5	888.7	879.3	890.7
77.5°	729.2	760.8	772.7	787.2	*810.6*	787.2	772.7	760.8	729.2	735.6	741.3
80°	583.0	597.5	624.0	634.7	*667.5*	634.7	624.0	597.5	583.0	572.3	580.5
82.5°	426.7	439.9	462.7	482.8	*501.7*	482.8	462.7	439.9	426.7	421.7	422.3
85°	246.4	266.6	281.8	305.7	*311.4*	305.7	281.8	266.6	246.4	252.1	246.4
87.5°	86.4	92.6	105.9	115.4	*116.0*	115.4	105.9	92.6	86.4	88.3	80.0
90°	20.6	35.1	60.3	34.5	*25.0*	34.5	60.3	35.1	20.6	36.0	55.9
92.5°	26.7	47.3	84.8	45.2	*32.7*	45.2	84.8	47.3	26.7	46.7	89.7
95°	39.7	58.1	107.9	49.8	*38.9*	49.8	107.9	58.1	39.7	62.1	125.0
97.5°	61.2	71.9	121.7	52.9	*46.5*	52.9	121.7	71.9	61.2	75.9	143.5
100°	81.1	81.1	221.5	60.6	*52.7*	60.6	221.5	81.1	81.1	93.4	223.3
102.5°	122.6	158.5	512.3	119.6	*63.4*	119.6	512.3	158.5	122.6	174.8	473.6
105°	222.4	361.3	900.9	305.4	*114.7*	305.4	900.9	361.3	222.4	365.3	843.7
107.5°	420.4	673.0	1160.4	600.3	*263.7*	600.3	1160.4	673.0	420.4	646.2	1113.1
110°	672.3	940.1	1266.3	821.4	*530.9*	821.4	1266.3	940.1	672.3	887.3	1166.8

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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°	875.1	1047.6	1237.1	910.4	*733.6*	910.4	1237.1	1047.6	875.1	979.5	1117.7
115°	950.9	1032.3	1105.1	907.4	*813.4*	907.4	1105.1	1032.3	950.9	956.5	997.9
117.5°	918.7	944.8	954.6	852.1	*818.1*	852.1	954.6	944.8	918.7	860.3	847.4
120°	829.6	818.9	804.7	770.7	*772.0*	770.7	804.7	818.9	829.6	751.3	707.7
122.5°	718.2	695.1	680.4	688.4	*709.0*	688.4	680.4	695.1	718.2	639.8	607.0
125°	609.1	586.0	593.5	617.8	*639.1*	617.8	593.5	586.0	609.1	543.7	535.4
127.5°	517.6	506.8	530.5	557.9	*576.1*	557.9	530.5	506.8	517.6	476.1	484.7
130°	452.2	454.6	486.0	509.4	*520.8*	509.4	486.0	454.6	452.2	432.2	453.1
132.5°	411.4	423.0	452.8	473.2	*479.9*	473.2	452.8	423.0	411.4	405.9	431.3
135°	385.9	403.0	430.4	443.4	*446.2*	443.4	430.4	403.0	385.9	388.1	411.4
137.5°	371.1	388.4	408.9	419.4	*417.0*	419.4	408.9	388.4	371.1	376.4	394.3
140°	362.6	379.8	389.0	401.0	*399.1*	401.0	389.0	379.8	362.6	365.7	379.5
142.5°	354.0	369.7	374.2	383.2	*380.7*	383.2	374.2	369.7	354.0	357.1	366.3
145°	349.9	361.7	358.0	369.4	*366.0*	369.4	358.0	361.7	349.9	350.9	356.1
147.5°	342.3	350.9	346.3	356.1	*352.7*	356.1	346.3	350.9	342.3	342.3	344.5
150°	333.7	339.9	333.1	344.5	*344.2*	344.5	333.1	339.9	333.7	332.2	334.3
152.5°	322.0	328.2	322.0	335.0	*334.1*	335.0	322.0	328.2	322.0	320.5	322.7
155°	312.6	315.7	312.6	325.5	*326.1*	325.5	312.6	315.7	312.6	312.0	313.2
157.5°	306.2	308.3	306.8	318.2	*318.8*	318.2	306.8	308.3	306.2	306.2	306.8
160°	301.0	304.1	303.2	313.0	*313.7*	313.0	303.2	304.1	301.0	301.9	302.5
162.5°	299.2	299.2	299.0	308.8	*310.1*	308.8	299.0	299.2	299.2	299.2	300.7
165°	296.6	298.1	296.3	303.6	*306.4*	303.6	296.3	298.1	296.6	297.5	297.5
167.5°	296.3	294.7	296.0	302.4	*305.3*	302.4	296.0	294.7	296.3	297.2	297.2
170°	293.8	294.5	294.2	300.6	*303.4*	300.6	294.2	294.5	293.8	295.4	296.3
172.5°	295.7	295.7	294.5	299.5	*303.8*	299.5	294.5	295.7	295.7	296.6	298.2
175°	296.9	296.0	295.7	299.2	*303.5*	299.2	295.7	296.0	296.9	296.3	296.3
177.5°	295.4	296.6	297.9	301.4	*307.2*	301.4	297.9	296.6	295.4	296.3	296.3
180°	296.6	296.6	296.6	296.6	*296.6*	296.6	296.6	296.6	296.6	296.6	296.6

TEST NUMBER: P1433583
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0
2.5°	32637.6	32616.2	32637.6	32865.8	33162.6	33594.4
5°	31879.3	31760.8	31879.3	32132.1	32677.3	33499.2
7.5°	30996.2	30927.5	30996.2	31419.2	32108.1	33271.6
10°	*30066.5*	*29910.9*	*30066.5*	*30544.3*	*31356.8*	*32924.3*
12.5°	28920.6	28714.5	28920.6	29414.1	30439.1	32370.3
15°	27463.3	27282.4	27463.3	28011.1	29199.9	31550.9
17.5°	25899.6	25735.7	25899.6	26375.5	27684.6	30396.2
20°	23935.5	23806.9	23935.5	24608.7	25893.2	28908.0
22.5°	21875.0	21754.6	21875.0	22473.2	23810.0	27042.3
25°	19450.8	19385.2	19450.8	20119.0	21327.8	24860.2
27.5°	16831.3	16719.7	16831.3	17530.2	18765.0	22293.5
30°	14155.0	13970.3	14155.0	14780.2	15885.8	19442.6
32.5°	11537.2	11404.3	11537.2	11982.9	13138.3	16250.7
35°	9007.2	8874.1	9007.2	9410.0	10544.5	13305.9
37.5°	7018.5	6783.4	7018.5	7276.9	8197.8	10442.4
40°	5323.0	5285.2	5323.0	5648.2	6237.5	8124.1
42.5°	4333.4	4230.7	4333.4	4473.4	4914.6	6155.6
45°	3555.6	3515.3	3555.6	3661.5	3957.8	4811.8
47.5°	3057.7	3075.3	3057.7	3125.8	3347.6	3918.6
50°	2686.4	2697.1	2686.4	2718.5	2866.6	3291.5
52.5°	2412.8	2403.4	2412.8	2416.0	2508.0	2827.6
55°	2170.8	2158.8	2170.8	2163.9	2231.9	2436.8
57.5°	1959.0	1967.8	1959.0	1949.5	1986.1	2139.9
60°	1769.9	1778.1	1769.9	1763.0	1786.9	1877.1
62.5°	1610.5	1615.5	1610.5	1609.8	1605.4	1674.7
65°	1468.0	1473.7	1468.0	1460.5	1453.5	1485.7
67.5°	1331.9	1331.9	1331.9	1318.6	1307.9	1339.4
70°	1203.9	1203.2	1203.9	1182.5	1174.2	1183.8
72.5°	1050.1	1065.2	1050.1	1034.3	1033.7	1034.9
75°	900.7	918.4	900.7	890.7	879.3	888.7
77.5°	749.4	776.5	749.4	741.3	735.6	729.2
80°	594.4	624.0	594.4	580.5	572.3	583.0
82.5°	439.3	461.4	439.3	422.3	421.7	426.7
85°	261.6	296.9	261.6	246.4	252.1	246.4
87.5°	83.8	107.1	83.8	80.0	88.3	86.4
90°	32.9	20.6	32.9	55.9	36.0	20.6
92.5°	49.8	29.8	49.8	89.7	46.7	26.7
95°	57.5	34.4	57.5	125.0	62.1	39.7
97.5°	63.6	44.2	63.6	143.5	75.9	61.2
100°	74.3	58.1	74.3	223.3	93.4	81.1
102.5°	157.2	98.0	157.2	473.6	174.8	122.6
105°	330.8	168.7	330.8	843.7	365.3	222.4
107.5°	591.8	291.5	591.8	1113.1	646.2	420.4
110°	785.3	543.3	785.3	1166.8	887.3	672.3

TEST NUMBER: P1433583
CATALOG NUMBER: EHBR1-42-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	843.7	733.8	843.7	1117.7	979.5	875.1
115°	811.4	772.1	811.4	997.9	956.5	950.9
117.5°	740.8	746.0	740.8	847.4	860.3	918.7
120°	659.4	690.7	659.4	707.7	751.3	829.6
122.5°	584.8	621.7	584.8	607.0	639.8	718.2
125°	520.3	557.8	520.3	535.4	543.7	609.1
127.5°	475.7	501.0	475.7	484.7	476.1	517.6
130°	441.1	462.6	441.1	453.1	432.2	452.2
132.5°	417.2	431.0	417.2	431.3	405.9	411.4
135°	396.2	407.9	396.2	411.4	388.1	385.9
137.5°	378.5	388.6	378.5	394.3	376.4	371.1
140°	362.9	371.4	362.9	379.5	365.7	362.6
142.5°	346.6	352.7	346.6	366.3	357.1	354.0
145°	335.6	340.2	335.6	356.1	350.9	349.9
147.5°	326.0	329.1	326.0	344.5	342.3	342.3
150°	316.6	319.7	316.6	334.3	332.2	333.7
152.5°	306.4	310.1	306.4	322.7	320.5	322.0
155°	300.0	303.7	300.0	313.2	312.0	312.6
157.5°	296.6	299.5	296.6	306.8	306.2	306.2
160°	294.0	296.2	294.0	302.5	301.9	301.0
162.5°	290.7	292.8	290.7	300.7	299.2	299.2
165°	290.4	291.0	290.4	297.5	297.5	296.6
167.5°	289.5	291.0	289.5	297.2	297.2	296.3
170°	290.1	290.8	290.1	296.3	295.4	293.8
172.5°	291.4	292.0	291.4	298.2	296.6	295.7
175°	291.1	291.7	291.1	296.3	296.3	296.9
177.5°	293.2	293.8	293.2	296.3	296.3	295.4
180°	296.6	296.6	296.6	296.6	296.6	296.6

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

Scaled Data Report

TEST NUMBER: P1433583
CATALOG NUMBER: EHBR1-42-UNV-TASM-L935-UPL30

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	18.21	19.31	18.69	19.77	20.26	17.53	18.63	18.01	19.08	19.57
	3H	19.75	20.73	20.26	21.21	21.74	19.37	20.35	19.87	20.83	21.36
	4H	20.39	21.31	20.91	21.79	22.35	20.15	21.07	20.68	21.56	22.11
	6H	20.87	21.71	21.41	22.22	22.78	20.80	21.64	21.33	22.14	22.71
	8H	21.02	21.82	21.57	22.34	22.91	21.02	21.81	21.57	22.34	22.91
	12H	21.09	21.85	21.65	22.37	22.96	21.15	21.91	21.70	22.42	23.02
4H	2H	18.62	19.54	19.15	20.03	20.58	18.10	19.01	18.62	19.50	20.06
	3H	20.42	21.17	20.95	21.71	22.28	20.16	20.91	20.69	21.45	22.02
	4H	21.19	21.87	21.75	22.42	23.03	21.06	21.74	21.62	22.29	22.90
	6H	21.81	22.39	22.39	22.96	23.59	21.83	22.42	22.41	22.99	23.62
	8H	22.00	22.55	22.59	23.12	23.75	22.10	22.65	22.69	23.22	23.85
	12H	22.11	22.59	22.71	23.19	23.83	22.27	22.76	22.87	23.36	23.99
8H	4H	21.44	21.99	22.03	22.56	23.19	21.34	21.89	21.93	22.46	23.09
	6H	22.18	22.63	22.80	23.25	23.88	22.25	22.69	22.86	23.31	23.95
	8H	22.45	22.85	23.09	23.48	24.13	22.60	23.00	23.23	23.63	24.28
	12H	22.62	22.97	23.25	23.58	24.31	22.85	23.20	23.48	23.81	24.53
12H	4H	21.45	21.93	22.05	22.54	23.17	21.35	21.84	21.96	22.44	23.07
	6H	22.23	22.62	22.86	23.25	23.90	22.29	22.69	22.93	23.32	23.97
	8H	22.54	22.89	23.17	23.50	24.23	22.70	23.04	23.33	23.65	24.38

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

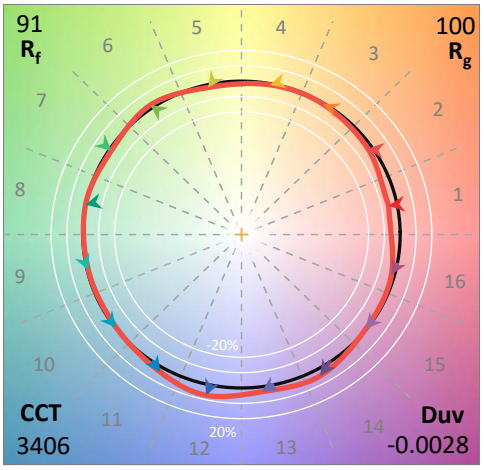
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

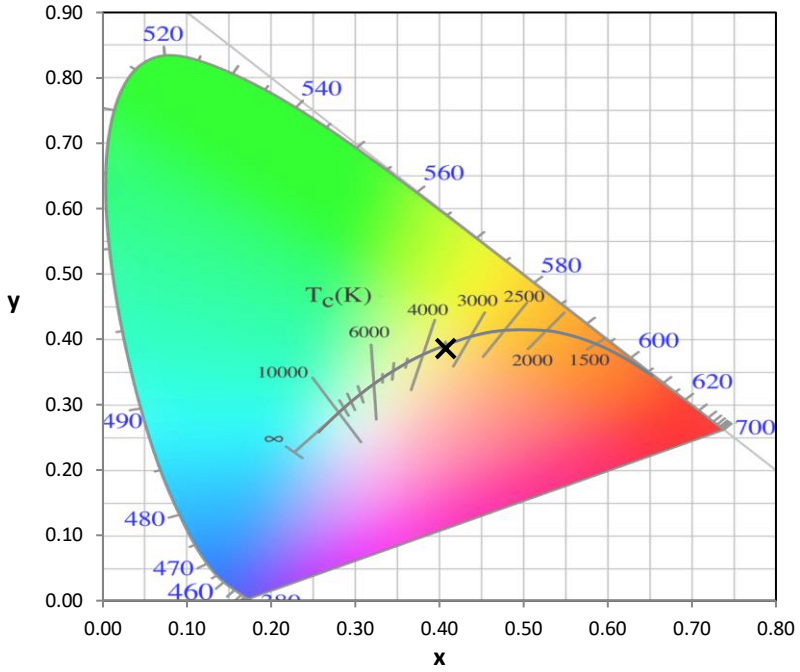
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

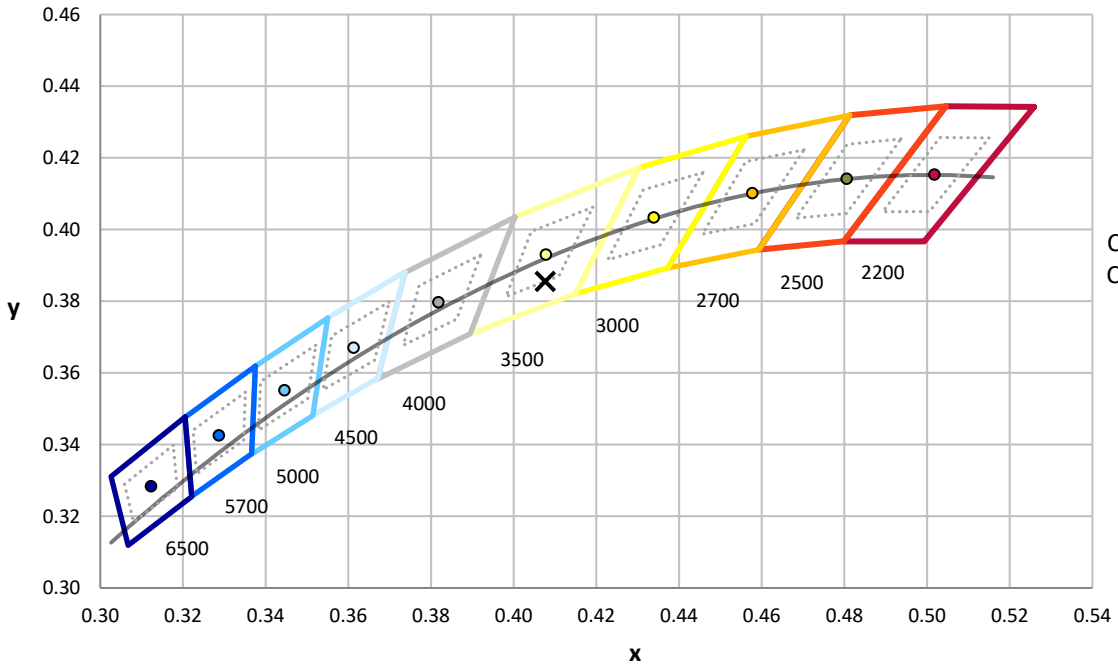
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

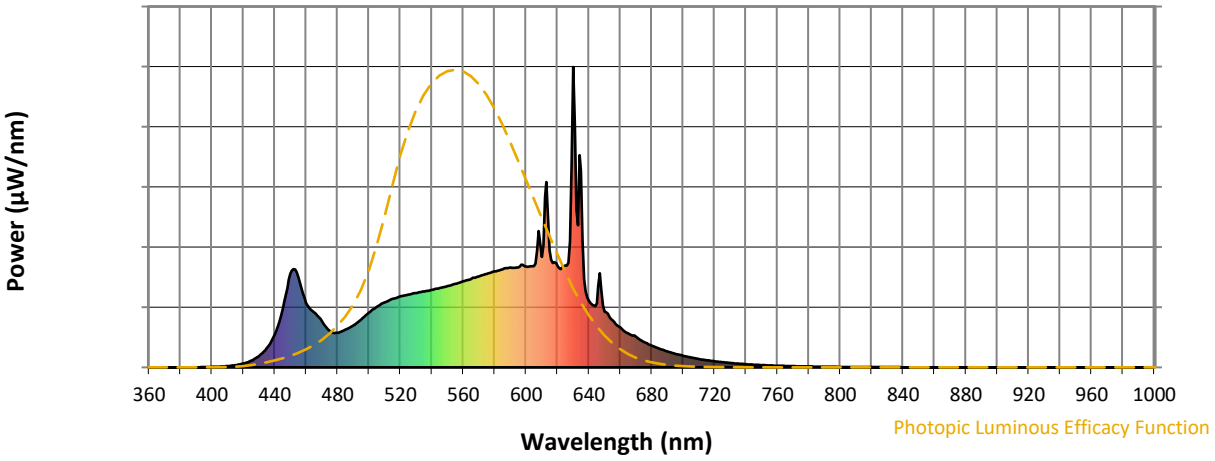


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

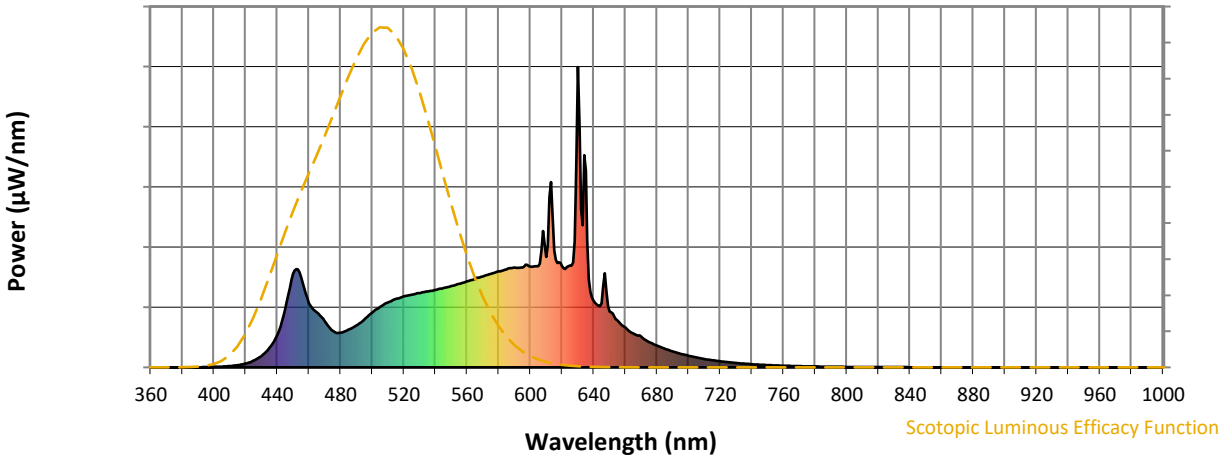


Photopic Lumens: NR

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

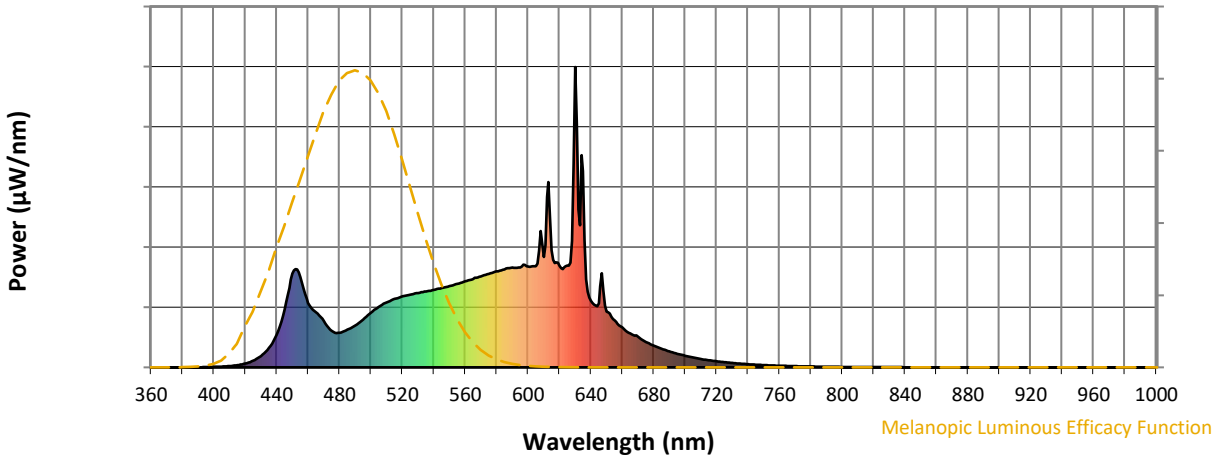


Scotopic Lumens: NR **S/P: 1.62**

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			

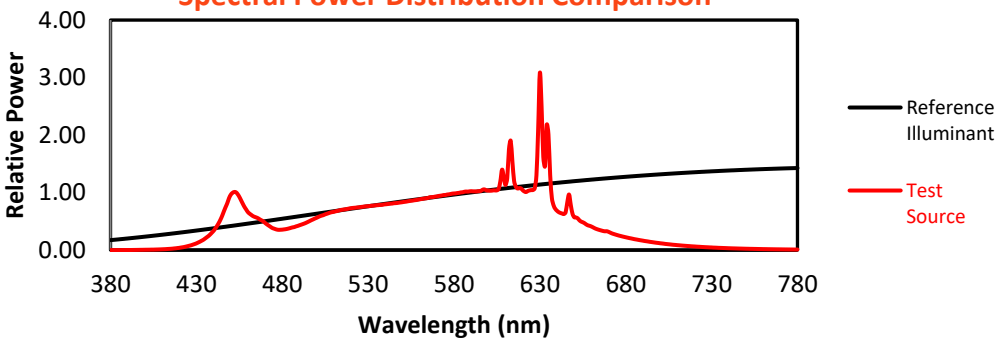
REPORT NUMBER: SP1-2506-472-6

TM-30-18

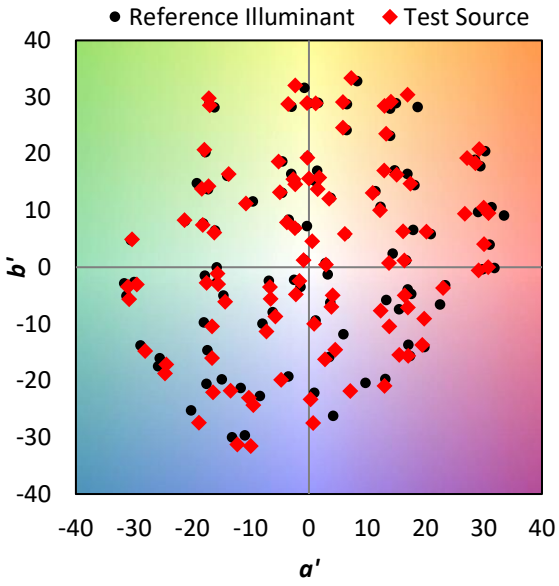
Summary

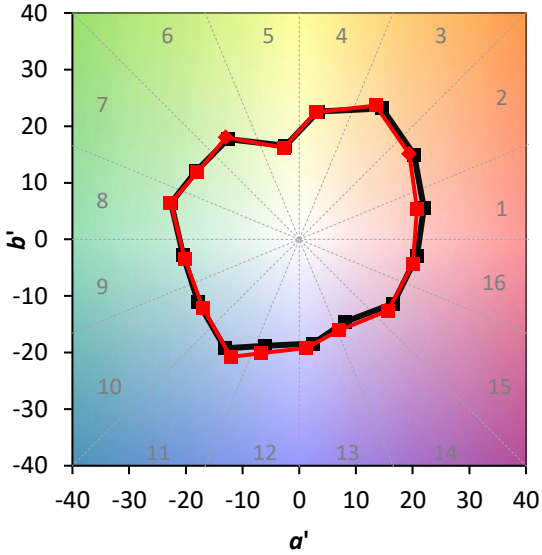
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

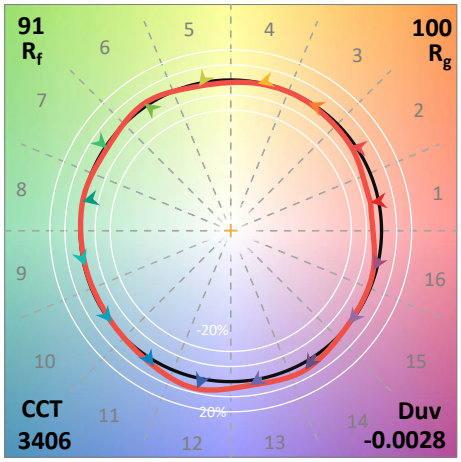
Spectral Power Distribution Comparison

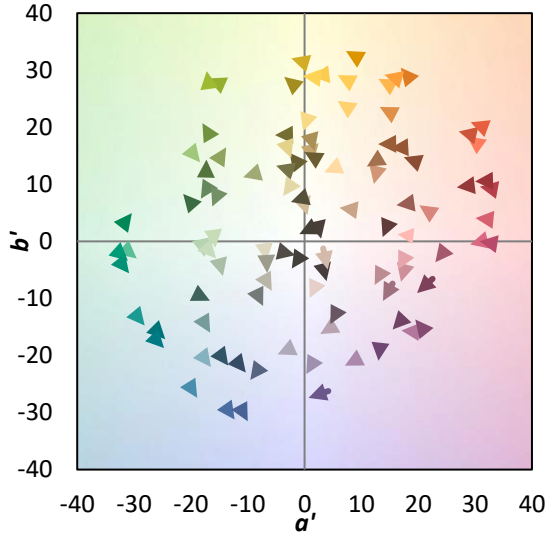


Color Vector Graphics







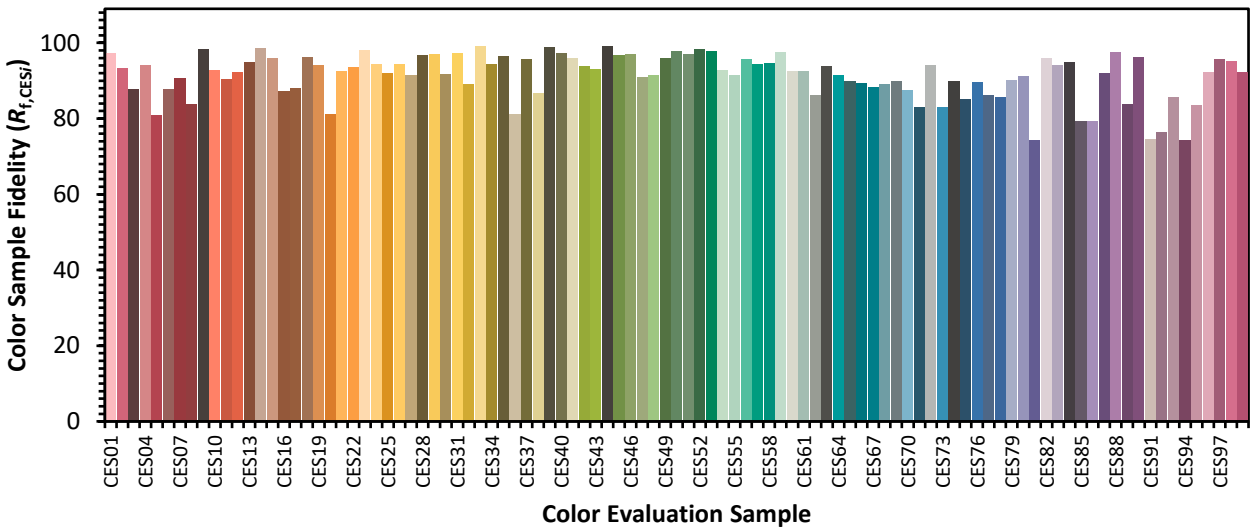


REPORT NUMBER: SP1-2506-472-6

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
CES25 = 71	CES50 = 98	CES75 = 85	



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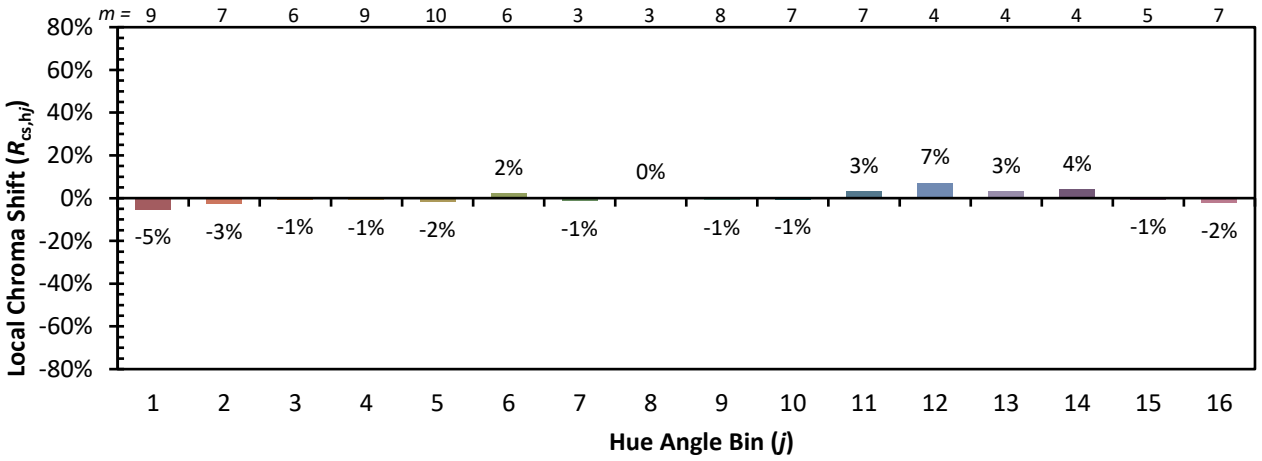
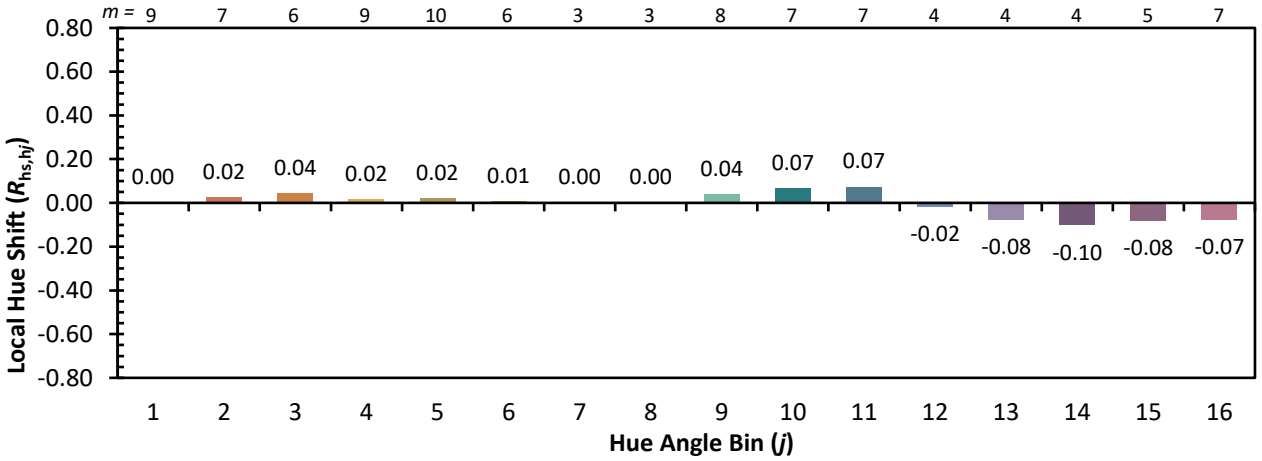
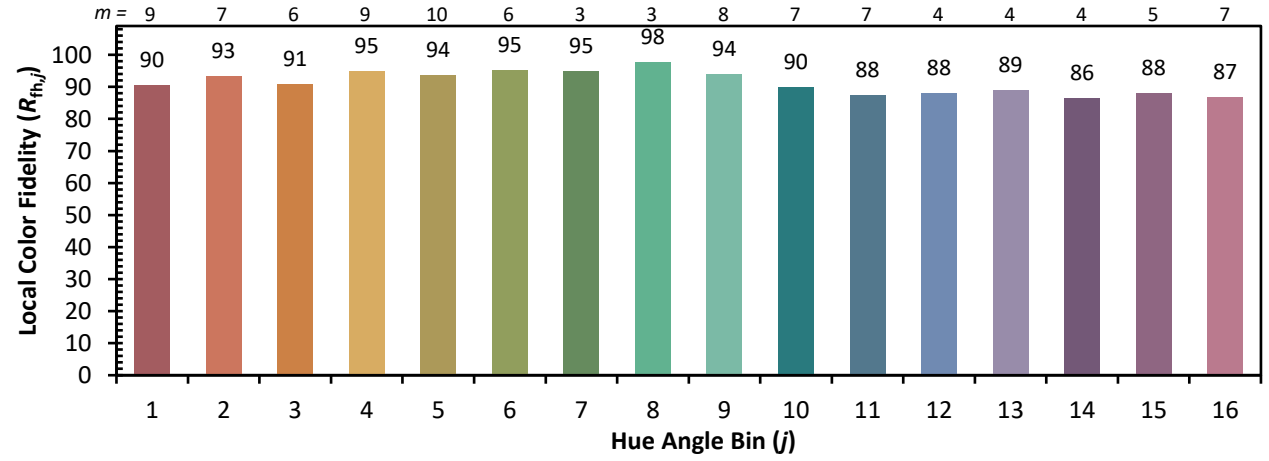
Color Rendition by Hue-Angle Bin







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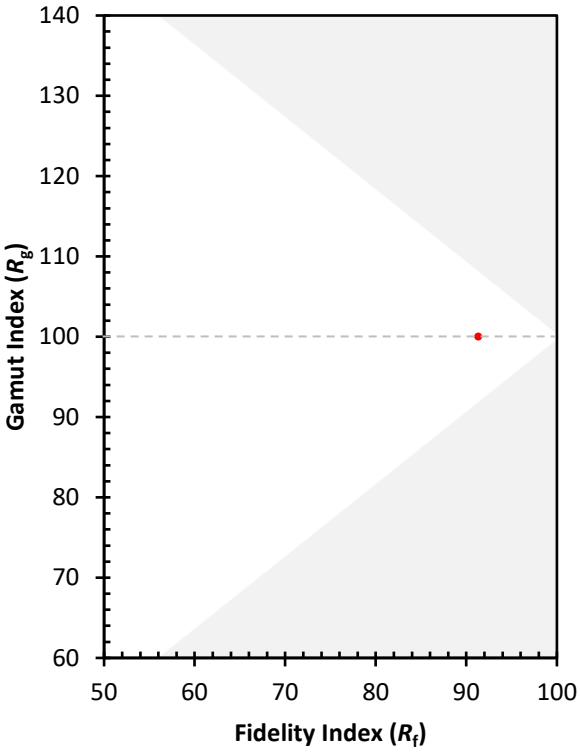
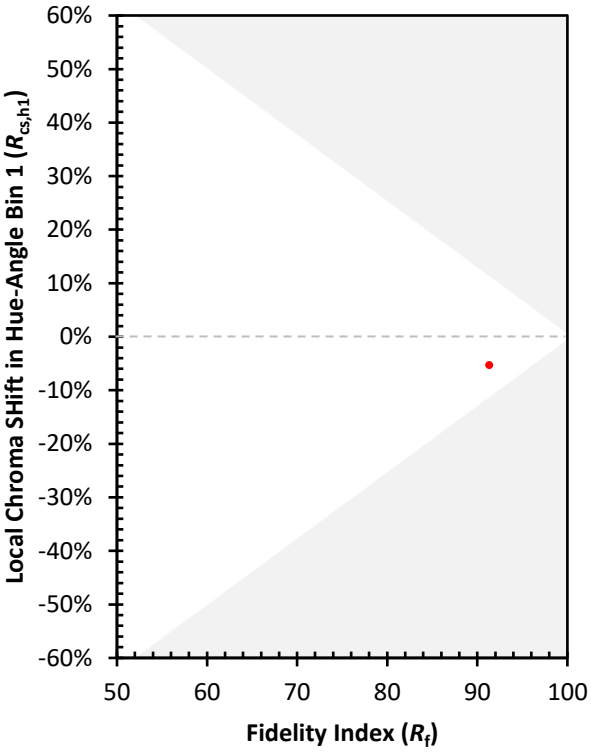
Measure Comparisons





(END OF REPORT)