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: P1432370

Luminaire Tested: EHBR1-30-UNV-TASM-L830

Issue Date: 3/13/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1432370
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-TASM-L830
Description:	Elevate Round Highbay at, 30000 lumens, 3000K 80CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28553.6 lumens
Efficiency:	N/A
Efficacy:	178.7 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.84 / 0.9
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	159.8
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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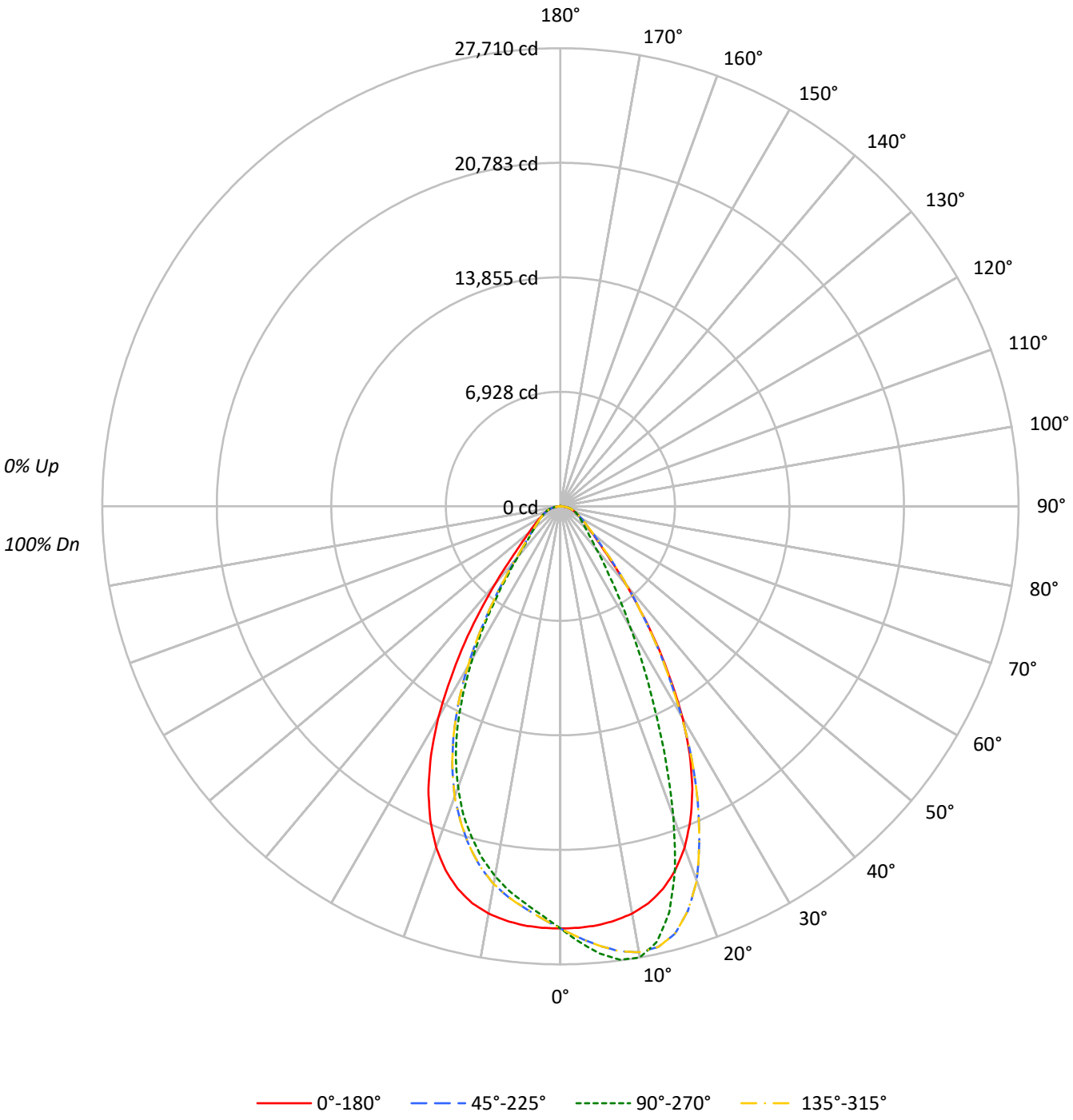
Luminous Intensity Polar Plot



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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	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	119922	119922	119922	119922
5°	119969	127985	119969	113743
10°	119274	132134	119274	108356
15°	116533	123621	116533	100767
20°	109752	99823	109752	90385
25°	97861	69677	97861	76308
30°	80095	45692	80095	57551
35°	57951	29851	57951	38649
40°	37836	20777	37836	24614
45°	24277	16276	24277	17736
50°	18268	14015	18268	14970
55°	15156	12973	15156	13428
60°	13393	12611	13393	12687
65°	12541	12493	12541	12441
70°	12346	12716	12346	12551
75°	12251	13049	12251	12659
80°	11980	13714	11980	12821
85°	10087	12743	10087	12156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 34132 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2428.1	8.5
10°-20°	6605.9	23.1
20°-30°	7747.4	27.1
30°-40°	5387.8	18.9
40°-50°	2677.5	9.4
50°-60°	1601.4	5.6
60°-70°	1127.1	3.9
70°-80°	726.1	2.5
80°-90°	230.6	0.8
90°-100°	1.3	0.0
100°-110°	1.6	0.0
110°-120°	1.6	0.0
120°-130°	2.1	0.0
130°-140°	2.8	0.0
140°-150°	3.3	0.0
150°-160°	3.8	0.0
160°-170°	3.7	0.0
170°-180°	1.6	0.0
0°-30°	16781.4	58.8
0°-40°	22169.2	77.6
0°-60°	26448.1	92.6
0°-90°	28531.9	99.9
90°-120°	4.5	0.0
90°-150°	12.7	0.0
90°-180°	22.0	0.1
0°-180°	28553.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	25536	25536	25536	25536	25536	
5°	25449	27150	25449	24129	25449	2415
15°	23969	25427	23969	20726	23969	6699
25°	18886	13447	18886	14727	18886	8550
35°	10108	5207	10108	6742	10108	6310
45°	3656	2451	3656	2671	3656	2991
55°	1851	1584	1851	1640	1851	1693
65°	1129	1124	1129	1120	1129	1134
75°	675	719	675	698	675	709
85°	187	236	187	226	187	208
90°	0	4	0	0	0	9
95°	1	4	1	0	1	1
105°	1	4	1	1	1	1
115°	1	4	1	1	1	1
125°	2	5	2	1	2	2
135°	4	5	4	2	4	3
145°	6	6	6	5	6	3
155°	8	9	8	9	8	4
165°	13	16	13	13	13	4
175°	17	21	17	16	17	2
180°	18	18	18	18	18	

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TEST NUMBER: P1432370
CATALOG NUMBER: EHBR1-30-UNV-TASM-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5
2.5°	25521.7	25851.6	26118.8	26295.0	26382.1	26295.0	26118.8	25851.6	25521.7	25193.6	24968.1
5°	25449.4	26110.2	26670.0	27036.2	27149.8	27036.2	26670.0	26110.2	25449.4	24824.9	24410.7
7.5°	25276.5	26306.0	27137.8	27565.4	27669.7	27565.4	27137.8	26306.0	25276.5	24392.6	23869.1
10°	25012.7	26429.5	27390.6	27697.1	27709.5	27697.1	27390.6	26429.5	25012.7	23821.7	23204.5
12.5°	24591.7	26385.5	27305.8	27205.3	26976.8	27205.3	27305.8	26385.5	24591.7	23124.5	22345.9
15°	23969.3	26124.5	26769.1	25950.7	25427.3	25950.7	26769.1	26124.5	23969.3	22183.1	21280.1
17.5°	23091.9	25636.1	25648.6	24029.6	23042.2	24029.6	25648.6	25636.1	23091.9	21032.0	20037.4
20°	21961.4	24852.7	24105.7	21144.5	19974.7	21144.5	24105.7	24852.7	21961.4	19671.1	18695.2
22.5°	20544.0	23796.3	21957.1	18242.2	16646.2	18242.2	21957.1	23796.3	20544.0	18088.5	17072.8
25°	18886.3	22502.0	19645.7	15079.9	13447.0	15079.9	19645.7	22502.0	18886.3	16202.8	15284.4
27.5°	16936.4	20861.5	17184.4	12322.7	10816.3	12322.7	17184.4	20861.5	16936.4	14255.8	13317.8
30°	14770.6	18758.4	14623.1	9813.5	8426.3	9813.5	14623.1	18758.4	14770.6	12068.4	11228.5
32.5°	12345.6	16696.9	12163.3	7863.2	6688.1	7863.2	12163.3	16696.9	12345.6	9981.1	9103.4
35°	10108.5	14117.9	9945.2	6178.6	5207.0	6178.6	9945.2	14117.9	10108.5	8010.6	7148.7
37.5°	7933.1	11681.0	7927.8	4975.2	4223.4	4975.2	7927.8	11681.0	7933.1	6227.9	5528.3
40°	6171.9	9133.6	6211.6	3971.6	3389.3	3971.6	6211.6	9133.6	6171.9	4738.7	4291.0
42.5°	4676.4	6984.0	4882.3	3259.6	2878.9	3259.6	4882.3	6984.0	4676.4	3733.5	3398.4
45°	3655.5	5139.4	3812.6	2750.0	2450.7	2750.0	3812.6	5139.4	3655.5	3006.6	2781.7
47.5°	2977.0	3972.0	3090.0	2358.8	2149.1	2358.8	3090.0	3972.0	2977.0	2543.2	2374.7
50°	2500.5	3047.9	2565.6	2059.1	1918.3	2059.1	2565.6	3047.9	2500.5	2177.8	2065.3
52.5°	2148.2	2485.7	2185.0	1834.9	1740.1	1834.9	2185.0	2485.7	2148.2	1905.4	1835.4
55°	1851.2	2089.7	1900.1	1650.1	1584.5	1650.1	1900.1	2089.7	1851.2	1695.6	1643.9
57.5°	1625.7	1772.7	1650.1	1492.6	1449.0	1492.6	1650.1	1772.7	1625.7	1508.9	1481.1
60°	1426.0	1535.2	1456.2	1355.1	1342.7	1355.1	1456.2	1535.2	1426.0	1357.6	1339.3
62.5°	1272.3	1341.3	1287.6	1231.6	1220.6	1231.6	1287.6	1341.3	1272.3	1219.6	1223.0
65°	1128.6	1192.8	1150.7	1120.5	1124.3	1120.5	1150.7	1192.8	1128.6	1104.2	1109.5
67.5°	1017.5	1051.1	1032.9	1015.7	1020.0	1015.7	1032.9	1051.1	1017.5	993.6	1001.7
70°	899.2	935.2	916.5	918.9	926.1	918.9	916.5	935.2	899.2	892.1	898.3
72.5°	786.3	814.0	807.8	813.5	821.2	813.5	807.8	814.0	786.3	785.3	785.8
75°	675.2	696.3	699.2	707.2	719.2	707.2	699.2	696.3	675.2	668.0	676.6
77.5°	554.1	577.9	587.0	598.1	615.8	598.1	587.0	577.9	554.1	558.8	563.1
80°	443.0	453.9	474.1	482.2	507.1	482.2	474.1	453.9	443.0	434.8	441.0
82.5°	324.2	334.2	351.5	366.8	381.1	366.8	351.5	334.2	324.2	320.4	320.8
85°	187.2	202.5	214.0	232.2	236.5	232.2	214.0	202.5	187.2	191.6	187.2
87.5°	65.6	70.3	80.5	87.7	88.1	87.7	80.5	70.3	65.6	67.1	60.8
90°	0.5	0.9	1.4	2.9	3.8	2.9	1.4	0.9	0.5	0.5	0.5
92.5°	0.5	0.9	1.4	2.9	3.8	2.9	1.4	0.9	0.5	0.5	0.5
95°	0.9	0.9	1.4	2.9	3.8	2.9	1.4	0.9	0.9	0.5	0.5
97.5°	0.9	0.9	1.4	2.9	3.8	2.9	1.4	0.9	0.9	0.5	0.5
100°	0.9	0.9	1.4	2.9	3.8	2.9	1.4	0.9	0.9	0.9	0.5
102.5°	0.9	1.4	1.9	3.4	3.8	3.4	1.9	1.4	0.9	0.9	0.5
105°	0.9	1.4	1.9	3.4	4.3	3.4	1.9	1.4	0.9	0.9	0.5
107.5°	0.9	1.4	1.9	3.4	4.3	3.4	1.9	1.4	0.9	0.9	0.9
110°	0.9	1.4	1.9	3.4	4.3	3.4	1.9	1.4	0.9	0.9	0.9

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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°	0.9	1.4	1.9	3.4	*4.3*	3.4	1.9	1.4	0.9	0.9	0.9
115°	1.4	1.4	1.9	3.4	*4.3*	3.4	1.9	1.4	1.4	0.9	0.9
117.5°	1.4	1.4	1.9	3.4	*4.3*	3.4	1.9	1.4	1.4	1.4	0.9
120°	1.4	1.4	2.4	3.4	*4.3*	3.4	2.4	1.4	1.4	1.4	0.9
122.5°	1.9	1.9	2.4	3.8	*4.3*	3.8	2.4	1.9	1.9	1.9	1.4
125°	1.9	1.9	2.9	3.8	*4.8*	3.8	2.9	1.9	1.9	2.4	1.9
127.5°	2.4	2.4	2.9	3.8	*4.8*	3.8	2.9	2.4	2.4	2.4	1.9
130°	2.9	2.4	2.9	4.3	*4.8*	4.3	2.9	2.4	2.9	2.9	2.4
132.5°	3.4	2.9	3.4	4.8	*5.2*	4.8	3.4	2.9	3.4	3.8	3.4
135°	3.8	2.9	3.8	4.3	*5.2*	4.3	3.8	2.9	3.8	4.3	3.4
137.5°	4.3	3.4	3.8	4.8	*5.2*	4.8	3.8	3.4	4.3	4.8	4.3
140°	4.8	3.8	3.8	4.8	*5.7*	4.8	3.8	3.8	4.8	4.8	4.8
142.5°	5.2	4.3	4.3	5.2	*5.7*	5.2	4.3	4.3	5.2	5.2	5.2
145°	5.7	5.2	4.8	5.2	*6.2*	5.2	4.8	5.2	5.7	5.2	5.7
147.5°	5.7	5.2	5.2	5.7	*6.7*	5.7	5.2	5.2	5.7	5.7	6.2
150°	6.2	6.2	5.7	6.2	*7.2*	6.2	5.7	6.2	6.2	6.2	6.7
152.5°	6.7	6.7	6.7	7.2	*7.7*	7.2	6.7	6.7	6.7	6.7	7.2
155°	7.7	7.7	7.7	8.1	*8.6*	8.1	7.7	7.7	7.7	7.2	8.1
157.5°	8.6	9.1	9.1	9.6	*10.0*	9.6	9.1	9.1	8.6	8.6	9.1
160°	10.5	10.5	11.1	11.5	*12.0*	11.5	11.1	10.5	10.5	10.0	10.5
162.5°	11.5	11.5	12.5	12.9	*13.9*	12.9	12.5	11.5	11.5	11.5	11.5
165°	12.9	12.9	13.9	14.8	*15.8*	14.8	13.9	12.9	12.9	12.5	12.5
167.5°	13.9	13.9	14.8	16.3	*17.2*	16.3	14.8	13.9	13.9	13.4	13.4
170°	14.3	14.8	15.8	17.2	*18.2*	17.2	15.8	14.8	14.3	14.3	13.9
172.5°	15.8	15.8	17.2	18.6	*19.7*	18.6	17.2	15.8	15.8	15.4	15.4
175°	16.8	17.2	18.2	19.7	*20.6*	19.7	18.2	17.2	16.8	16.3	16.3
177.5°	16.8	17.7	18.6	20.1	*21.1*	20.1	18.6	17.7	16.8	16.3	16.3
180°	17.7	17.7	17.7	17.7	*17.7*	17.7	17.7	17.7	17.7	17.7	17.7

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	25536.5	25536.5	25536.5	25536.5	25536.5	25536.5
2.5°	24794.8	24778.5	24794.8	24968.1	25193.6	25521.7
5°	24218.7	24128.7	24218.7	24410.7	24824.9	25449.4
7.5°	23547.8	23495.7	23547.8	23869.1	24392.6	25276.5
10°	*22841.6*	*22723.2*	*22841.6*	*23204.5*	*23821.7*	*25012.7*
12.5°	21971.0	21814.5	21971.0	22345.9	23124.5	24591.7
15°	20863.9	20726.5	20863.9	21280.1	22183.1	23969.3
17.5°	19675.9	19551.4	19675.9	20037.4	21032.0	23091.9
20°	18183.8	18086.1	18183.8	18695.2	19671.1	21961.4
22.5°	16618.4	16527.0	16618.4	17072.8	18088.5	20544.0
25°	14776.8	14726.9	14776.8	15284.4	16202.8	18886.3
27.5°	12786.7	12702.0	12786.7	13317.8	14255.8	16936.4
30°	10753.5	10613.2	10753.5	11228.5	12068.4	14770.6
32.5°	8764.9	8663.8	8764.9	9103.4	9981.1	12345.6
35°	6842.8	6741.7	6842.8	7148.7	8010.6	10108.5
37.5°	5331.9	5153.4	5331.9	5528.3	6227.9	7933.1
40°	4043.9	4015.1	4043.9	4291.0	4738.7	6171.9
42.5°	3292.1	3214.0	3292.1	3398.4	3733.5	4676.4
45°	2701.2	2670.6	2701.2	2781.7	3006.6	3655.5
47.5°	2322.9	2336.3	2322.9	2374.7	2543.2	2977.0
50°	2040.8	2049.0	2040.8	2065.3	2177.8	2500.5
52.5°	1833.0	1825.8	1833.0	1835.4	1905.4	2148.2
55°	1649.2	1640.1	1649.2	1643.9	1695.6	1851.2
57.5°	1488.2	1495.0	1488.2	1481.1	1508.9	1625.7
60°	1344.6	1350.8	1344.6	1339.3	1357.6	1426.0
62.5°	1223.4	1227.3	1223.4	1223.0	1219.6	1272.3
65°	1115.2	1119.6	1115.2	1109.5	1104.2	1128.6
67.5°	1011.8	1011.8	1011.8	1001.7	993.6	1017.5
70°	914.6	914.1	914.6	898.3	892.1	899.2
72.5°	797.8	809.2	797.8	785.8	785.3	786.3
75°	684.3	697.7	684.3	676.6	668.0	675.2
77.5°	569.3	589.9	569.3	563.1	558.8	554.1
80°	451.6	474.1	451.6	441.0	434.8	443.0
82.5°	333.7	350.5	333.7	320.8	320.4	324.2
85°	198.7	225.6	198.7	187.2	191.6	187.2
87.5°	63.7	81.4	63.7	60.8	67.1	65.6
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	0.5	0.5	0.5	0.5	0.5	0.5
95°	0.5	0.5	0.5	0.5	0.5	0.9
97.5°	0.5	0.9	0.5	0.5	0.5	0.9
100°	0.5	0.9	0.5	0.5	0.9	0.9
102.5°	0.5	0.9	0.5	0.5	0.9	0.9
105°	0.5	0.9	0.5	0.5	0.9	0.9
107.5°	0.5	0.9	0.5	0.9	0.9	0.9
110°	0.5	0.9	0.5	0.9	0.9	0.9

TEST NUMBER: P1432370
CATALOG NUMBER: EHBR1-30-UNV-TASM-L830

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.5	0.9	0.5	0.9	0.9	0.9
115°	0.5	0.9	0.5	0.9	0.9	1.4
117.5°	0.5	0.9	0.5	0.9	1.4	1.4
120°	0.5	0.9	0.5	0.9	1.4	1.4
122.5°	0.9	0.9	0.9	1.4	1.9	1.9
125°	0.9	1.4	0.9	1.9	2.4	1.9
127.5°	0.9	1.4	0.9	1.9	2.4	2.4
130°	1.4	1.4	1.4	2.4	2.9	2.9
132.5°	1.9	1.9	1.9	3.4	3.8	3.4
135°	2.4	1.9	2.4	3.4	4.3	3.8
137.5°	2.9	2.4	2.9	4.3	4.8	4.3
140°	3.8	3.4	3.8	4.8	4.8	4.8
142.5°	4.3	4.3	4.3	5.2	5.2	5.2
145°	5.2	5.2	5.2	5.7	5.2	5.7
147.5°	6.2	6.2	6.2	6.2	5.7	5.7
150°	7.2	7.2	7.2	6.7	6.2	6.2
152.5°	7.7	8.1	7.7	7.2	6.7	6.7
155°	8.6	9.1	8.6	8.1	7.2	7.7
157.5°	9.6	10.5	9.6	9.1	8.6	8.6
160°	11.1	11.5	11.1	10.5	10.0	10.5
162.5°	12.0	12.5	12.0	11.5	11.5	11.5
165°	12.9	13.4	12.9	12.5	12.5	12.9
167.5°	13.4	13.4	13.4	13.4	13.4	13.9
170°	13.9	14.3	13.9	13.9	14.3	14.3
172.5°	14.8	15.4	14.8	15.4	15.4	15.8
175°	15.8	16.3	15.8	16.3	16.3	16.8
177.5°	16.3	16.8	16.3	16.3	16.3	16.8
180°	17.7	17.7	17.7	17.7	17.7	17.7

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

Scaled Data Report

TEST NUMBER: P1432370
CATALOG NUMBER: EHBR1-30-UNV-TASM-L830

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	18.28	19.49	18.65	19.80	20.12	17.60	18.81	17.97	19.12	19.44
	3H	19.92	20.99	20.30	21.33	21.69	19.55	20.62	19.93	20.96	21.32
	4H	20.63	21.63	21.03	21.98	22.37	20.41	21.41	20.82	21.76	22.15
	6H	21.20	22.12	21.62	22.49	22.89	21.16	22.08	21.58	22.45	22.85
	8H	21.40	22.27	21.84	22.66	23.07	21.45	22.32	21.88	22.71	23.12
	12H	21.52	22.36	21.96	22.74	23.17	21.64	22.48	22.08	22.86	23.29
4H	2H	18.74	19.74	19.15	20.10	20.49	18.23	19.23	18.64	19.58	19.97
	3H	20.65	21.48	21.07	21.89	22.29	20.41	21.23	20.82	21.64	22.05
	4H	21.51	22.25	21.95	22.67	23.12	21.40	22.14	21.84	22.57	23.01
	6H	22.24	22.87	22.70	23.32	23.79	22.30	22.94	22.77	23.39	23.86
	8H	22.49	23.09	22.97	23.54	24.01	22.64	23.24	23.12	23.69	24.16
	12H	22.66	23.19	23.15	23.67	24.15	22.89	23.42	23.38	23.90	24.38
8H	4H	21.82	22.42	22.29	22.87	23.34	21.74	22.34	22.22	22.79	23.26
	6H	22.70	23.18	23.20	23.68	24.16	22.80	23.28	23.30	23.78	24.27
	8H	23.05	23.48	23.57	24.00	24.49	23.25	23.68	23.77	24.20	24.69
	12H	23.31	23.69	23.83	24.18	24.76	23.60	23.98	24.12	24.48	25.05
12H	4H	21.85	22.37	22.34	22.86	23.34	21.78	22.30	22.26	22.78	23.26
	6H	22.77	23.20	23.29	23.72	24.21	22.87	23.30	23.40	23.82	24.32
	8H	23.18	23.56	23.70	24.06	24.63	23.39	23.76	23.90	24.26	24.84

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: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

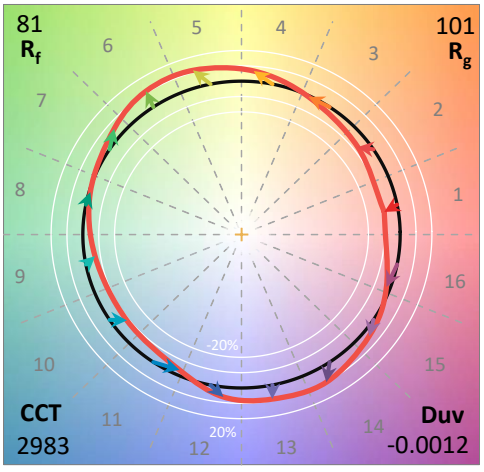
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
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-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983	CRI (Ra):	83.4		
CIE u':	0.2516	R1:	84.0	R9:	29.4
CIE v':	0.5201	R2:	87.5	R10:	68.6
Duv:	-0.0012	R3:	88.9	R11:	82.2
CIE x:	0.4364	R4:	83.8	R12:	61.6
CIE y:	0.4010	R5:	81.9	R13:	83.9
CIE z:	0.1626	R6:	83.1	R14:	92.5
Peak Wavelength (nm):	630	R7:	87.1	R15:	79.8
Dominant Wavelength (nm):	583	R8:	70.9		
Purity:	51.34918				
Rf:	81.2				
Rg:	101.5				



Test Conditions

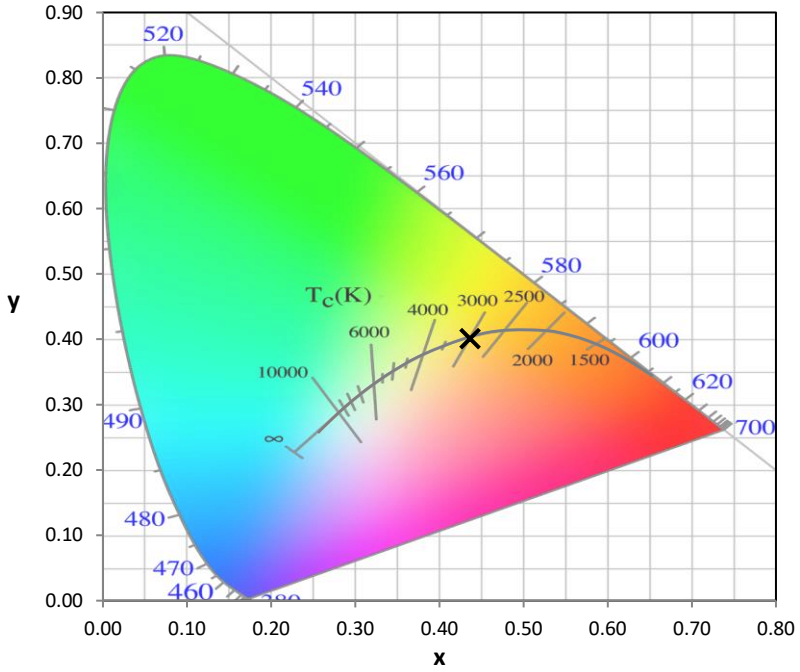
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

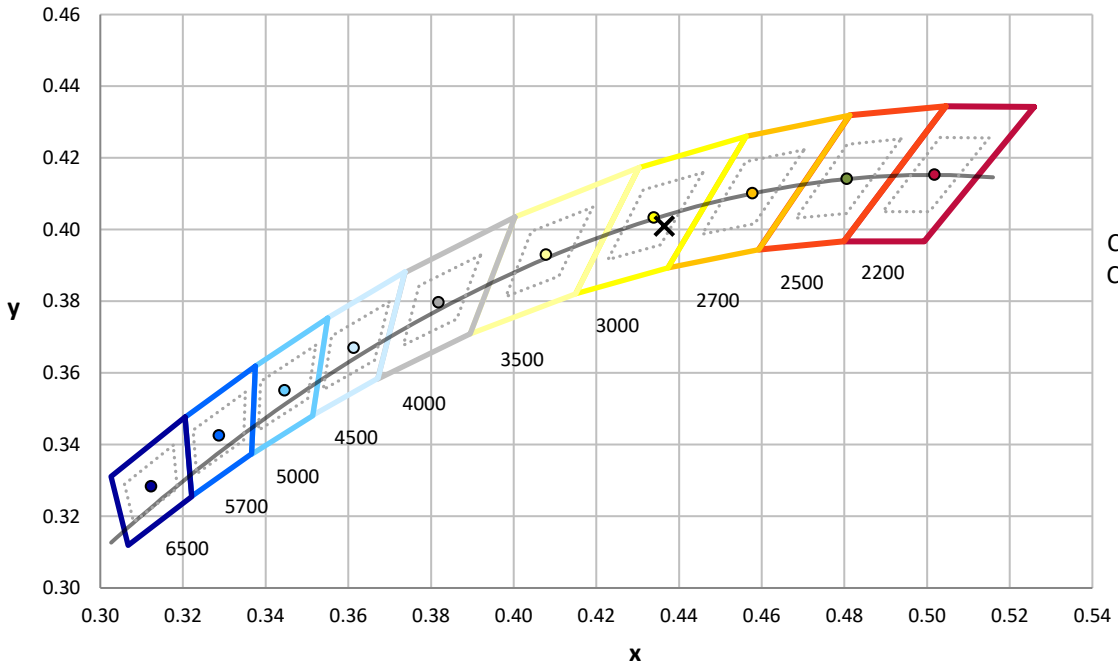
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

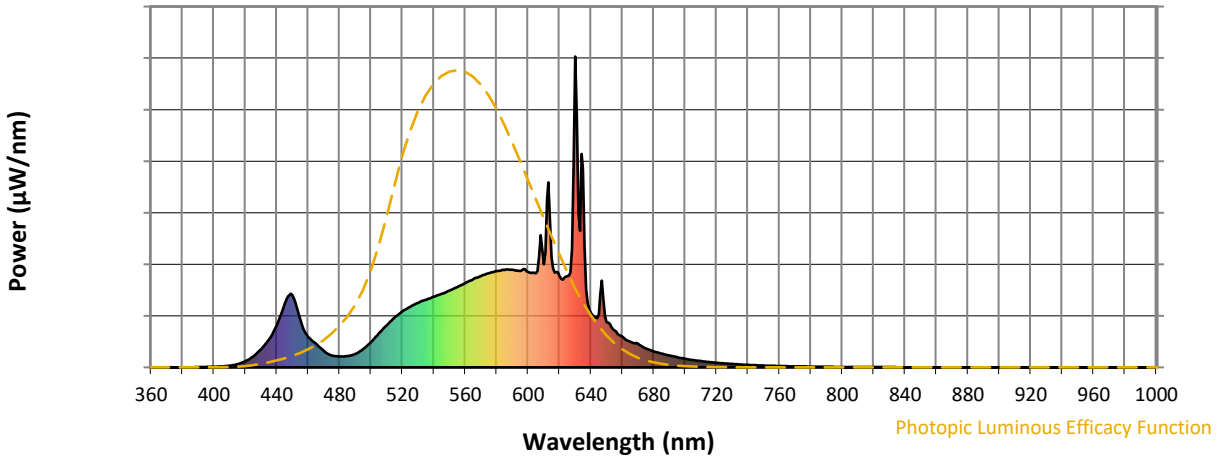


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

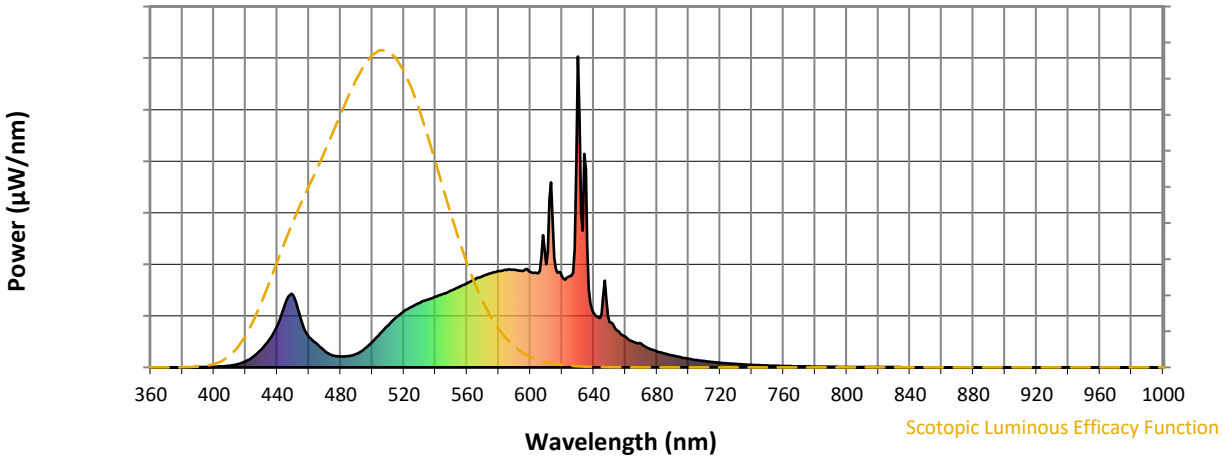


Photopic Lumens: NR

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength

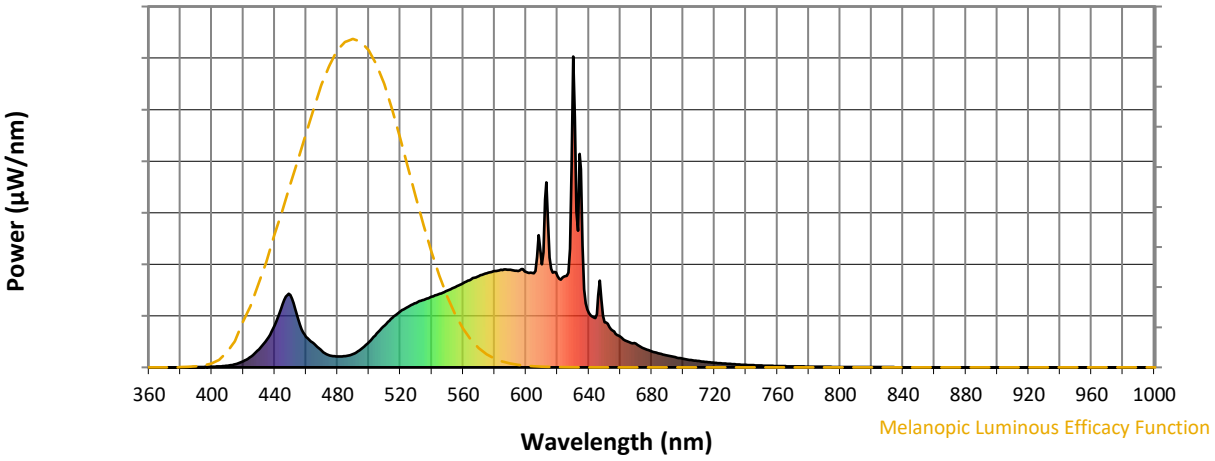


Scotopic Lumens: NR **S/P: 1.27**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

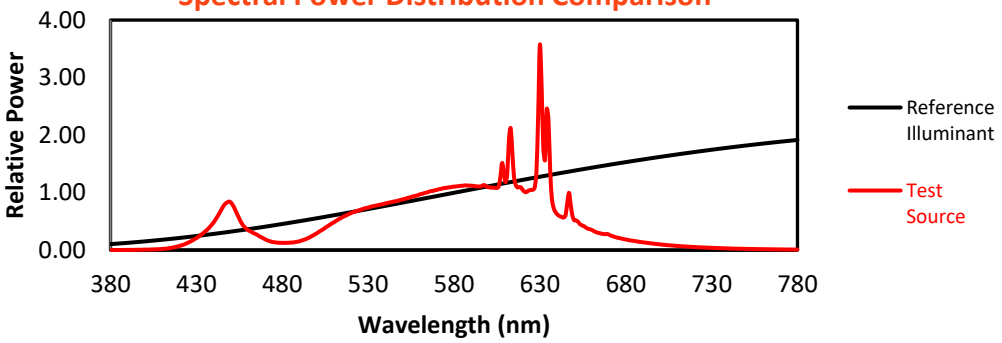
REPORT NUMBER: SP1-2506-472-2

TM-30-18

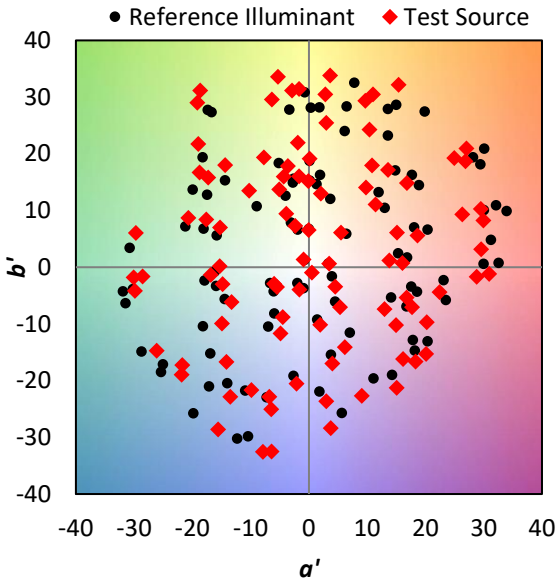
Summary

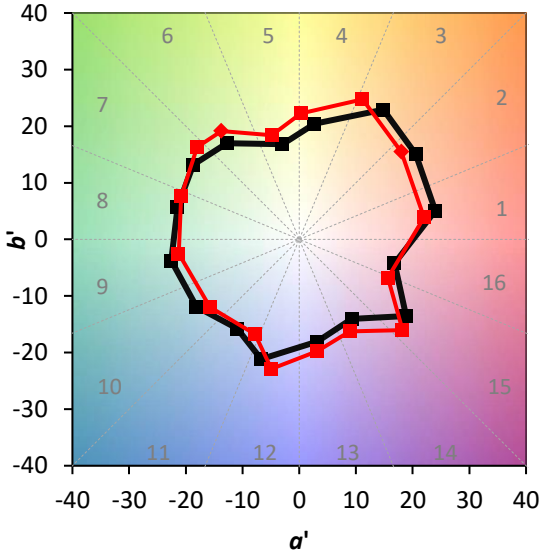
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

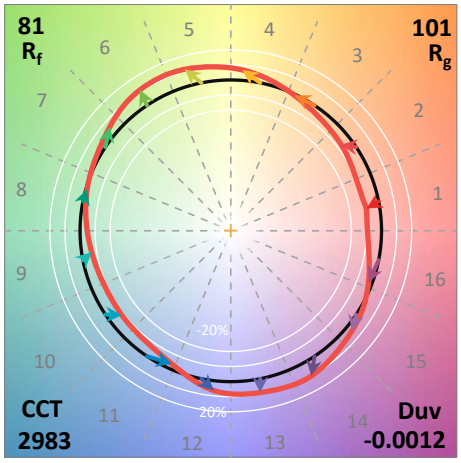
Spectral Power Distribution Comparison

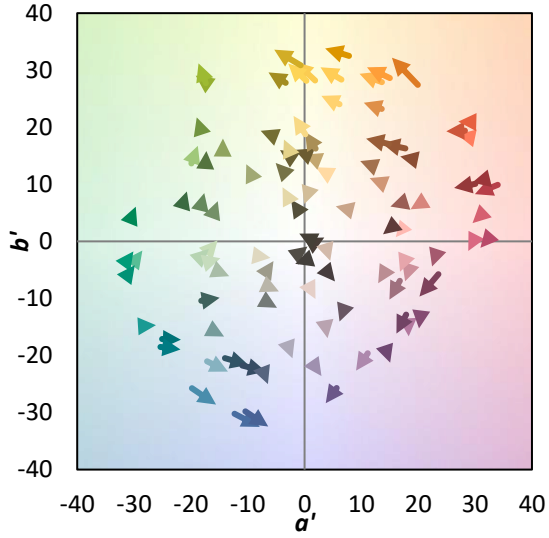


Color Vector Graphics







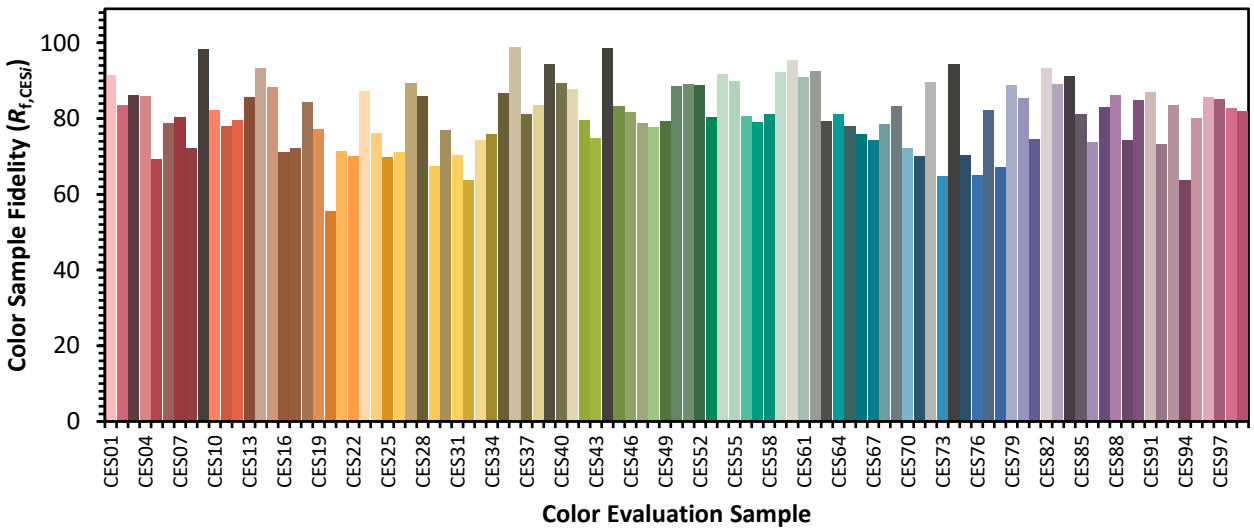


REPORT NUMBER: SP1-2506-472-2

TM-30-18

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

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



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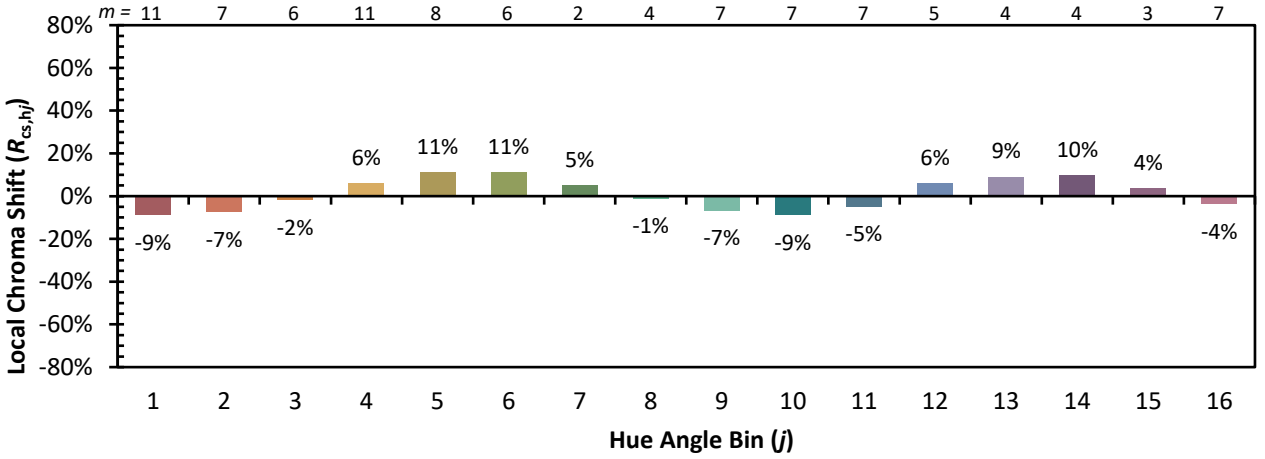
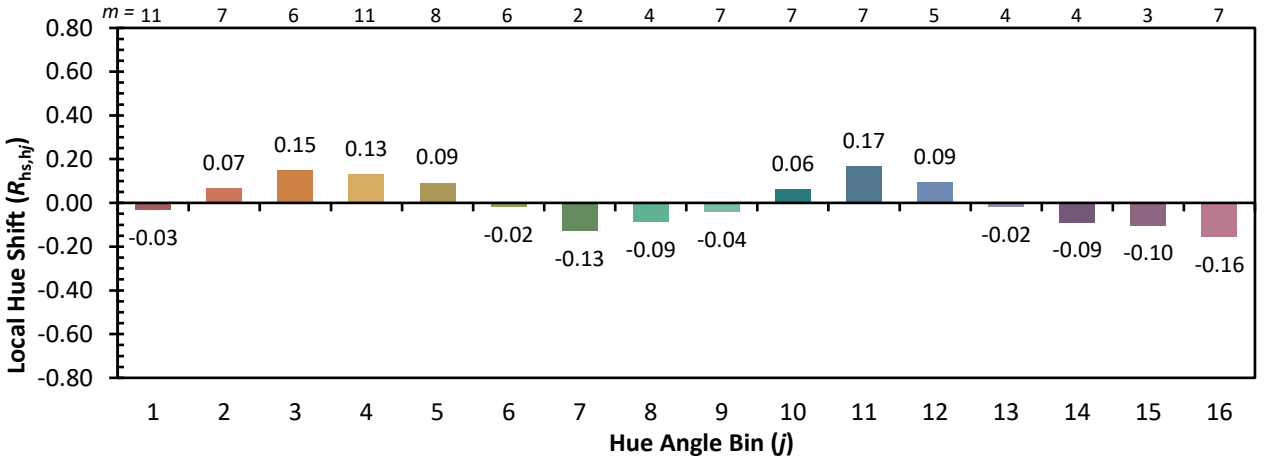
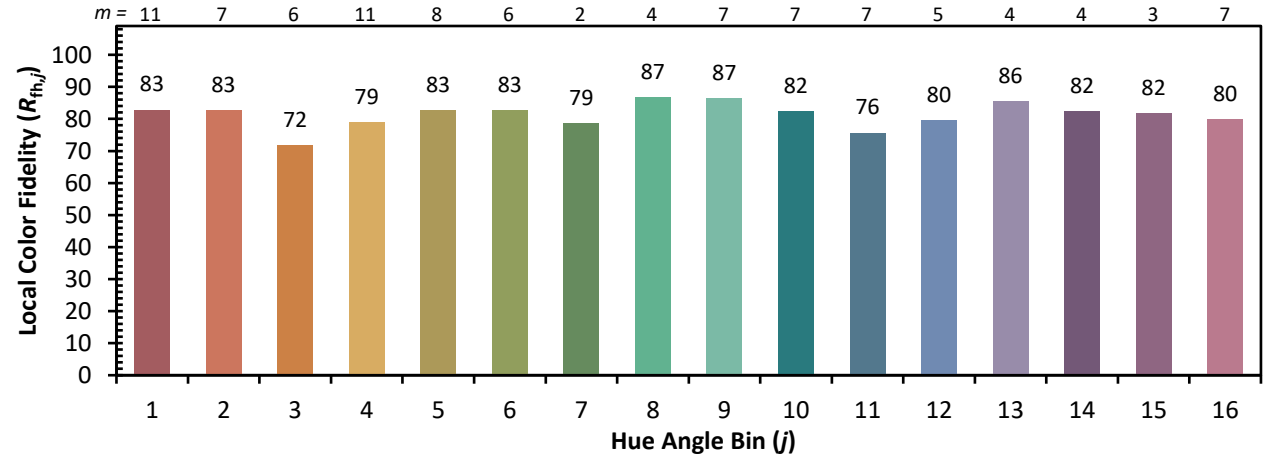
Color Rendition by Hue-Angle Bin







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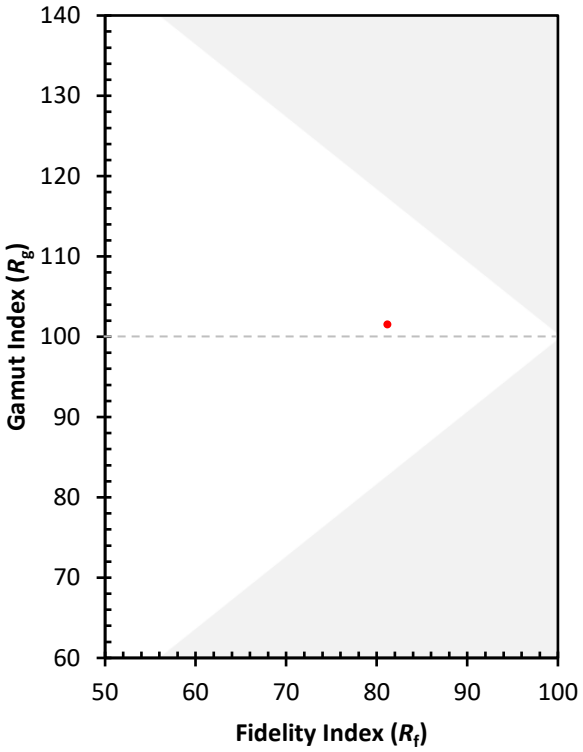
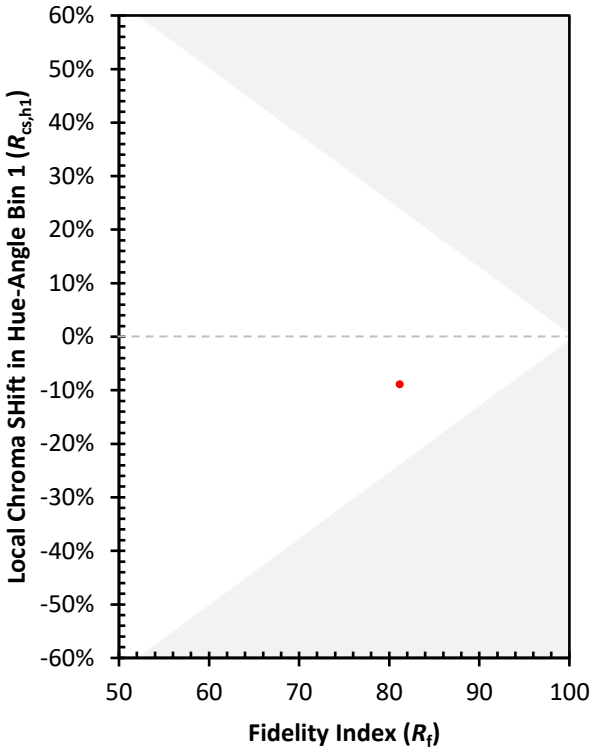
Measure Comparisons





(END OF REPORT)