

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: P1432914

Luminaire Tested: EHBR1-24-UNV-TASM-L850

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1432914
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: EHBR1-24-UNV-TASM-L850
Description: Elevate Round Highbay at, 24000 lumens, 5000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

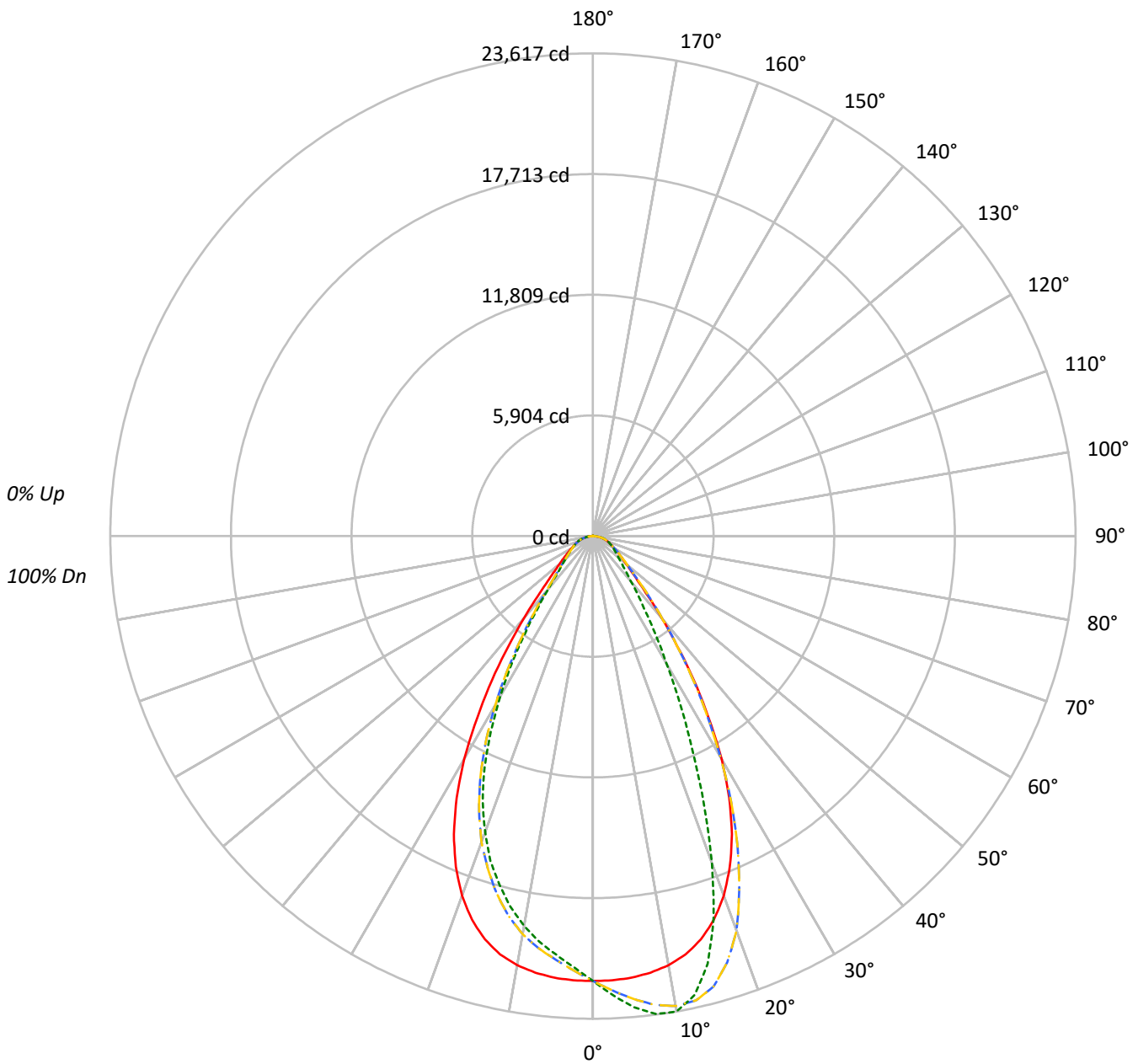
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24336.5 lumens
Efficiency: N/A
Efficacy: 189.7 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): 128.3
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

TEST NUMBER: P1432914
CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90	90	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74	74	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67	67	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62	62	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	102210	102210	102210	102210
5°	102251	109082	102251	96944
10°	101658	112618	101658	92353
15°	99321	105363	99321	85884
20°	93542	85080	93542	77035
25°	83407	59386	83407	65039
30°	68265	38944	68265	49051
35°	49392	25442	49392	32941
40°	32247	17709	32247	20979
45°	20692	13872	20692	15116
50°	15570	11944	15570	12758
55°	12918	11057	12918	11444
60°	11415	10748	11415	10814
65°	10690	10647	10690	10603
70°	10524	10837	10524	10697
75°	10440	11122	10440	10790
80°	10209	11688	10209	10926
85°	8600	10863	8600	10356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 29091 cd/sqm



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2069.5	8.5
10°-20°	5630.2	23.1
20°-30°	6603.1	27.1
30°-40°	4592.1	18.9
40°-50°	2282.0	9.4
50°-60°	1364.9	5.6
60°-70°	960.7	3.9
70°-80°	618.8	2.5
80°-90°	196.6	0.8
90°-100°	1.1	0.0
100°-110°	1.4	0.0
110°-120°	1.4	0.0
120°-130°	1.8	0.0
130°-140°	2.4	0.0
140°-150°	2.9	0.0
150°-160°	3.2	0.0
160°-170°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	14302.9	58.8
0°-40°	18894.9	77.6
0°-60°	22541.8	92.6
0°-90°	24317.9	99.9
90°-120°	3.9	0.0
90°-150°	10.9	0.0
90°-180°	19.0	0.1
0°-180°	24336.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	21765	21765	21765	21765	21765	
5°	21691	23140	21691	20565	21691	2058
15°	20429	21672	20429	17665	20429	5709
25°	16097	11461	16097	12552	16097	7288
35°	8616	4438	8616	5746	8616	5378
45°	3116	2089	3116	2276	3116	2550
55°	1578	1350	1578	1398	1578	1443
65°	962	958	962	954	962	966
75°	575	613	575	595	575	604
85°	160	202	160	192	160	177
90°	0	3	0	0	0	8
95°	1	3	1	0	1	1
105°	1	4	1	1	1	1
115°	1	4	1	1	1	1
125°	2	4	2	1	2	2
135°	3	4	3	2	3	2
145°	5	5	5	4	5	3
155°	6	7	6	8	6	3
165°	11	14	11	11	11	3
175°	14	18	14	14	14	1
180°	15	15	15	15	15	



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9
2.5°	21752.2	22033.5	22261.2	22411.4	22485.6	22411.4	22261.2	22033.5	21752.2	21472.7	21280.4
5°	21690.7	22253.8	22730.9	23043.2	23139.8	23043.2	22730.9	22253.8	21690.7	21158.4	20805.4
7.5°	21543.3	22420.8	23129.6	23494.2	23583.1	23494.2	23129.6	22420.8	21543.3	20789.9	20343.8
10°	21318.5	22526.1	23345.1	23606.3	23616.9	23606.3	23345.1	22526.1	21318.5	20303.5	19777.3
12.5°	20959.6	22488.5	23272.9	23187.2	22992.5	23187.2	23272.9	22488.5	20959.6	19709.2	19045.6
15°	20429.1	22266.1	22815.4	22118.0	21671.9	22118.0	22815.4	22266.1	20429.1	18906.8	18137.1
17.5°	19681.5	21849.8	21860.4	20480.6	19639.0	20480.6	21860.4	21849.8	19681.5	17925.7	17078.0
20°	18717.8	21182.1	20545.4	18021.6	17024.5	18021.6	20545.4	21182.1	18717.8	16765.8	15934.0
22.5°	17509.8	20281.7	18714.2	15547.9	14187.7	15547.9	18714.2	20281.7	17509.8	15416.9	14551.3
25°	16096.9	19178.6	16744.2	12852.7	11461.0	12852.7	16744.2	19178.6	16096.9	13809.8	13027.0
27.5°	14435.0	17780.4	14646.4	10502.7	9218.7	10502.7	14646.4	17780.4	14435.0	12150.3	11350.8
30°	12589.1	15987.9	12463.3	8364.1	7181.8	8364.1	12463.3	15987.9	12589.1	10286.0	9570.2
32.5°	10522.3	14230.9	10366.8	6701.8	5700.3	6701.8	10366.8	14230.9	10522.3	8506.9	7758.9
35°	8615.6	12032.8	8476.4	5266.0	4437.9	5266.0	8476.4	12032.8	8615.6	6827.6	6092.9
37.5°	6761.4	9955.8	6756.9	4240.4	3599.6	4240.4	6756.9	9955.8	6761.4	5308.1	4711.8
40°	5260.3	7784.5	5294.2	3385.0	2888.7	3385.0	5294.2	7784.5	5260.3	4038.8	3657.2
42.5°	3985.8	5952.5	4161.2	2778.1	2453.7	2778.1	4161.2	5952.5	3985.8	3182.2	2896.5
45°	3115.7	4380.4	3249.4	2343.9	2088.8	2343.9	3249.4	4380.4	3115.7	2562.6	2370.8
47.5°	2537.3	3385.4	2633.6	2010.5	1831.7	2010.5	2633.6	3385.4	2537.3	2167.5	2023.9
50°	2131.2	2597.7	2186.7	1755.0	1634.9	1755.0	2186.7	2597.7	2131.2	1856.2	1760.3
52.5°	1830.8	2118.6	1862.2	1563.9	1483.2	1563.9	1862.2	2118.6	1830.8	1623.9	1564.3
55°	1577.8	1781.1	1619.4	1406.4	1350.5	1406.4	1619.4	1781.1	1577.8	1445.2	1401.1
57.5°	1385.6	1510.9	1406.4	1272.1	1234.9	1272.1	1406.4	1510.9	1385.6	1286.0	1262.4
60°	1215.4	1308.4	1241.1	1155.0	1144.4	1155.0	1241.1	1308.4	1215.4	1157.1	1141.5
62.5°	1084.4	1143.2	1097.4	1049.7	1040.4	1049.7	1097.4	1143.2	1084.4	1039.5	1042.3
65°	962.0	1016.7	980.7	955.0	958.2	955.0	980.7	1016.7	962.0	941.1	945.7
67.5°	867.3	895.9	880.3	865.6	869.3	865.6	880.3	895.9	867.3	846.8	853.8
70°	766.5	797.0	781.1	783.2	789.3	783.2	781.1	797.0	766.5	760.3	765.6
72.5°	670.1	693.8	688.5	693.4	699.9	693.4	688.5	693.8	670.1	669.3	669.7
75°	575.4	593.4	595.9	602.8	613.0	602.8	595.9	593.4	575.4	569.3	576.7
77.5°	472.2	492.6	500.4	509.7	524.8	509.7	500.4	492.6	472.2	476.3	480.0
80°	377.5	386.9	404.0	411.0	432.2	411.0	404.0	386.9	377.5	370.6	375.9
82.5°	276.3	284.9	299.6	312.7	324.8	312.7	299.6	284.9	276.3	273.1	273.5
85°	159.6	172.6	182.4	197.9	201.6	197.9	182.4	172.6	159.6	163.3	159.6
87.5°	55.9	60.0	68.6	74.7	75.0	74.7	68.6	60.0	55.9	57.2	51.9
90°	0.4	0.8	1.2	2.5	3.2	2.5	1.2	0.8	0.4	0.4	0.4
92.5°	0.4	0.8	1.2	2.5	3.2	2.5	1.2	0.8	0.4	0.4	0.4
95°	0.8	0.8	1.2	2.5	3.2	2.5	1.2	0.8	0.8	0.4	0.4
97.5°	0.8	0.8	1.2	2.5	3.2	2.5	1.2	0.8	0.8	0.4	0.4
100°	0.8	0.8	1.2	2.5	3.2	2.5	1.2	0.8	0.8	0.8	0.4
102.5°	0.8	1.2	1.7	2.8	3.2	2.8	1.7	1.2	0.8	0.8	0.4
105°	0.8	1.2	1.7	2.8	3.6	2.8	1.7	1.2	0.8	0.8	0.4
107.5°	0.8	1.2	1.7	2.8	3.6	2.8	1.7	1.2	0.8	0.8	0.8
110°	0.8	1.2	1.7	2.8	3.6	2.8	1.7	1.2	0.8	0.8	0.8



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.8	1.2	1.7	2.8	3.6	2.8	1.7	1.2	0.8	0.8	0.8
115°	1.2	1.2	1.7	2.8	3.6	2.8	1.7	1.2	1.2	0.8	0.8
117.5°	1.2	1.2	1.7	2.8	3.6	2.8	1.7	1.2	1.2	1.2	0.8
120°	1.2	1.2	2.1	2.8	3.6	2.8	2.1	1.2	1.2	1.2	0.8
122.5°	1.7	1.7	2.1	3.2	3.6	3.2	2.1	1.7	1.7	1.7	1.2
125°	1.7	1.7	2.5	3.2	4.1	3.2	2.5	1.7	1.7	2.1	1.7
127.5°	2.1	2.1	2.5	3.2	4.1	3.2	2.5	2.1	2.1	2.1	1.7
130°	2.5	2.1	2.5	3.6	4.1	3.6	2.5	2.1	2.5	2.5	2.1
132.5°	2.8	2.5	2.8	4.1	4.5	4.1	2.8	2.5	2.8	3.2	2.8
135°	3.2	2.5	3.2	3.6	4.5	3.6	3.2	2.5	3.2	3.6	2.8
137.5°	3.6	2.8	3.2	4.1	4.5	4.1	3.2	2.8	3.6	4.1	3.6
140°	4.1	3.2	3.2	4.1	4.9	4.1	3.2	3.2	4.1	4.1	4.1
142.5°	4.5	3.6	3.6	4.5	4.9	4.5	3.6	3.6	4.5	4.5	4.5
145°	4.9	4.5	4.1	4.5	5.3	4.5	4.1	4.5	4.9	4.5	4.9
147.5°	4.9	4.5	4.5	4.9	5.7	4.9	4.5	4.5	4.9	4.9	5.3
150°	5.3	5.3	4.9	5.3	6.1	5.3	4.9	5.3	5.3	5.3	5.7
152.5°	5.7	5.7	5.7	6.1	6.5	6.1	5.7	5.7	5.7	5.7	6.1
155°	6.5	6.5	6.5	7.0	7.4	7.0	6.5	6.5	6.5	6.1	7.0
157.5°	7.4	7.8	7.8	8.2	8.5	8.2	7.8	7.8	7.4	7.4	7.8
160°	8.9	8.9	9.4	9.8	10.2	9.8	9.4	8.9	8.9	8.5	8.9
162.5°	9.8	9.8	10.6	11.0	11.8	11.0	10.6	9.8	9.8	9.8	9.8
165°	11.0	11.0	11.8	12.7	13.5	12.7	11.8	11.0	11.0	10.6	10.6
167.5°	11.8	11.8	12.7	13.9	14.7	13.9	12.7	11.8	11.8	11.4	11.4
170°	12.3	12.7	13.5	14.7	15.5	14.7	13.5	12.7	12.3	12.3	11.8
172.5°	13.5	13.5	14.7	15.9	16.7	15.9	14.7	13.5	13.5	13.1	13.1
175°	14.2	14.7	15.5	16.7	17.6	16.7	15.5	14.7	14.2	13.9	13.9
177.5°	14.2	15.1	15.9	17.2	18.0	17.2	15.9	15.1	14.2	13.9	13.9
180°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	21764.9	21764.9	21764.9	21764.9	21764.9	21764.9
2.5°	21132.7	21118.9	21132.7	21280.4	21472.7	21752.2
5°	20641.8	20565.0	20641.8	20805.4	21158.4	21690.7
7.5°	20070.0	20025.5	20070.0	20343.8	20789.9	21543.3
10°	19468.0	19367.1	19468.0	19777.3	20303.5	21318.5
12.5°	18726.0	18592.6	18726.0	19045.6	19709.2	20959.6
15°	17782.4	17665.3	17782.4	18137.1	18906.8	20429.1
17.5°	16769.8	16663.7	16769.8	17078.0	17925.7	19681.5
20°	15498.1	15414.8	15498.1	15934.0	16765.8	18717.8
22.5°	14164.0	14086.0	14164.0	14551.3	15416.9	17509.8
25°	12594.4	12551.9	12594.4	13027.0	13809.8	16096.9
27.5°	10898.1	10825.9	10898.1	11350.8	12150.3	14435.0
30°	9165.3	9045.7	9165.3	9570.2	10286.0	12589.1
32.5°	7470.3	7384.2	7470.3	7758.9	8506.9	10522.3
35°	5832.1	5746.0	5832.1	6092.9	6827.6	8615.6
37.5°	4544.5	4392.3	4544.5	4711.8	5308.1	6761.4
40°	3446.6	3422.1	3446.6	3657.2	4038.8	5260.3
42.5°	2805.8	2739.3	2805.8	2896.5	3182.2	3985.8
45°	2302.2	2276.1	2302.2	2370.8	2562.6	3115.7
47.5°	1979.8	1991.2	1979.8	2023.9	2167.5	2537.3
50°	1739.5	1746.3	1739.5	1760.3	1856.2	2131.2
52.5°	1562.3	1556.2	1562.3	1564.3	1623.9	1830.8
55°	1405.6	1397.8	1405.6	1401.1	1445.2	1577.8
57.5°	1268.4	1274.1	1268.4	1262.4	1286.0	1385.6
60°	1146.0	1151.4	1146.0	1141.5	1157.1	1215.4
62.5°	1042.7	1046.1	1042.7	1042.3	1039.5	1084.4
65°	950.6	954.2	950.6	945.7	941.1	962.0
67.5°	862.4	862.4	862.4	853.8	846.8	867.3
70°	779.6	779.1	779.6	765.6	760.3	766.5
72.5°	679.9	689.8	679.9	669.7	669.3	670.1
75°	583.2	594.7	583.2	576.7	569.3	575.4
77.5°	485.3	502.8	485.3	480.0	476.3	472.2
80°	384.9	404.0	384.9	375.9	370.6	377.5
82.5°	284.5	298.7	284.5	273.5	273.1	276.3
85°	169.3	192.2	169.3	159.6	163.3	159.6
87.5°	54.3	69.4	54.3	51.9	57.2	55.9
90°	0.4	0.4	0.4	0.4	0.4	0.4
92.5°	0.4	0.4	0.4	0.4	0.4	0.4
95°	0.4	0.4	0.4	0.4	0.4	0.8
97.5°	0.4	0.8	0.4	0.4	0.4	0.8
100°	0.4	0.8	0.4	0.4	0.8	0.8
102.5°	0.4	0.8	0.4	0.4	0.8	0.8
105°	0.4	0.8	0.4	0.4	0.8	0.8
107.5°	0.4	0.8	0.4	0.8	0.8	0.8
110°	0.4	0.8	0.4	0.8	0.8	0.8



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.4	0.8	0.4	0.8	0.8	0.8
115°	0.4	0.8	0.4	0.8	0.8	1.2
117.5°	0.4	0.8	0.4	0.8	1.2	1.2
120°	0.4	0.8	0.4	0.8	1.2	1.2
122.5°	0.8	0.8	0.8	1.2	1.7	1.7
125°	0.8	1.2	0.8	1.7	2.1	1.7
127.5°	0.8	1.2	0.8	1.7	2.1	2.1
130°	1.2	1.2	1.2	2.1	2.5	2.5
132.5°	1.7	1.7	1.7	2.8	3.2	2.8
135°	2.1	1.7	2.1	2.8	3.6	3.2
137.5°	2.5	2.1	2.5	3.6	4.1	3.6
140°	3.2	2.8	3.2	4.1	4.1	4.1
142.5°	3.6	3.6	3.6	4.5	4.5	4.5
145°	4.5	4.5	4.5	4.9	4.5	4.9
147.5°	5.3	5.3	5.3	5.3	4.9	4.9
150°	6.1	6.1	6.1	5.7	5.3	5.3
152.5°	6.5	7.0	6.5	6.1	5.7	5.7
155°	7.4	7.8	7.4	7.0	6.1	6.5
157.5°	8.2	8.9	8.2	7.8	7.4	7.4
160°	9.4	9.8	9.4	8.9	8.5	8.9
162.5°	10.2	10.6	10.2	9.8	9.8	9.8
165°	11.0	11.4	11.0	10.6	10.6	11.0
167.5°	11.4	11.4	11.4	11.4	11.4	11.8
170°	11.8	12.3	11.8	11.8	12.3	12.3
172.5°	12.7	13.1	12.7	13.1	13.1	13.5
175°	13.5	13.9	13.5	13.9	13.9	14.2
177.5°	13.9	14.2	13.9	13.9	13.9	14.2
180°	15.1	15.1	15.1	15.1	15.1	15.1



TEST NUMBER: P1432914
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L850

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	17.73	18.93	18.09	19.25	19.57	17.05	18.25	17.41	18.57	18.88
	3H	19.37	20.44	19.75	20.77	21.14	18.99	20.07	19.38	20.40	20.77
	4H	20.07	21.07	20.48	21.42	21.81	19.85	20.86	20.26	21.21	21.60
	6H	20.64	21.56	21.06	21.94	22.33	20.61	21.53	21.02	21.90	22.30
	8H	20.85	21.72	21.28	22.11	22.52	20.89	21.76	21.33	22.16	22.57
	12H	20.97	21.80	21.40	22.18	22.62	21.09	21.92	21.52	22.31	22.74
4H	2H	18.19	19.19	18.59	19.54	19.93	17.68	18.68	18.08	19.03	19.42
	3H	20.10	20.92	20.51	21.33	21.74	19.85	20.68	20.27	21.08	21.49
	4H	20.96	21.70	21.39	22.12	22.56	20.85	21.59	21.29	22.01	22.46
	6H	21.68	22.32	22.15	22.77	23.24	21.74	22.38	22.21	22.83	23.30
	8H	21.94	22.53	22.41	22.98	23.46	22.09	22.69	22.56	23.13	23.61
	12H	22.11	22.63	22.60	23.12	23.59	22.34	22.86	22.83	23.35	23.83
8H	4H	21.26	21.86	21.74	22.31	22.78	21.19	21.78	21.66	22.23	22.71
	6H	22.14	22.62	22.65	23.12	23.61	22.24	22.73	22.75	23.23	23.71
	8H	22.49	22.92	23.02	23.44	23.94	22.69	23.12	23.22	23.64	24.14
	12H	22.75	23.13	23.27	23.63	24.20	23.05	23.43	23.57	23.92	24.50
12H	4H	21.29	21.82	21.78	22.30	22.78	21.22	21.74	21.71	22.23	22.71
	6H	22.21	22.64	22.74	23.16	23.66	22.31	22.75	22.84	23.27	23.76
	8H	22.63	23.01	23.15	23.50	24.08	22.83	23.21	23.35	23.71	24.28

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: SP1-2506-472-4

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L850-N

Data in this report applies to families of products including EHBR-60-L850-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-4
 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-L850-N**
 Description: Elevate Round Highbay at, 60000 lumens, 5000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 4875
 CIE u': 0.2124
 CIE v': 0.4871
 Duv: 0.0005
 CIE x: 0.3488
 CIE y: 0.3555
 CIE z: 0.2957
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 573
 Purity: 11.33556
 Rf: 80
 Rg: 102.3

CRI (Ra):	82.3		
R1:	85.0	R9:	43.9
R2:	83.1	R10:	57.4
R3:	78.8	R11:	83.1
R4:	84.0	R12:	51.0
R5:	83.0	R13:	83.4
R6:	76.3	R14:	87.4
R7:	86.8	R15:	83.4
R8:	81.7		



Test Conditions

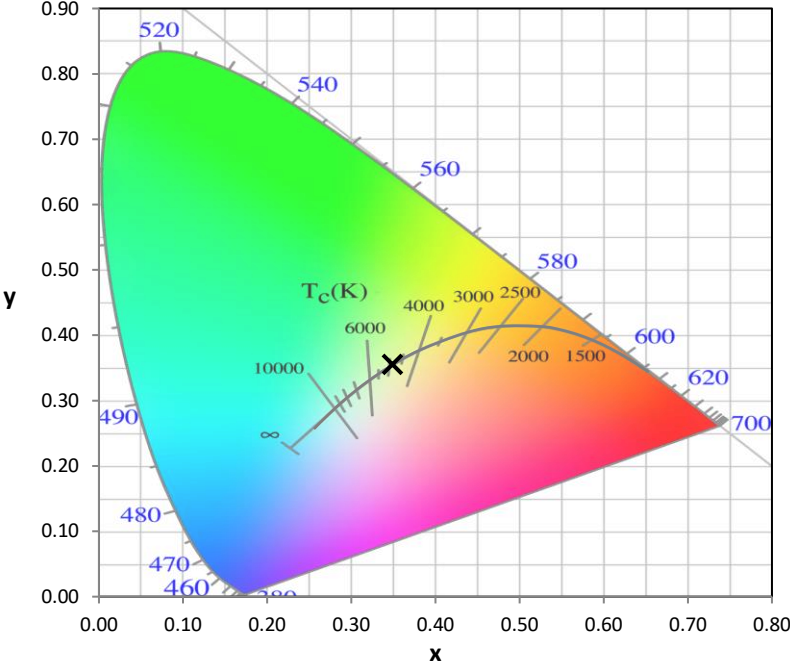
Stabilization Time: 39M
 Operation Time: 1H 39M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-4

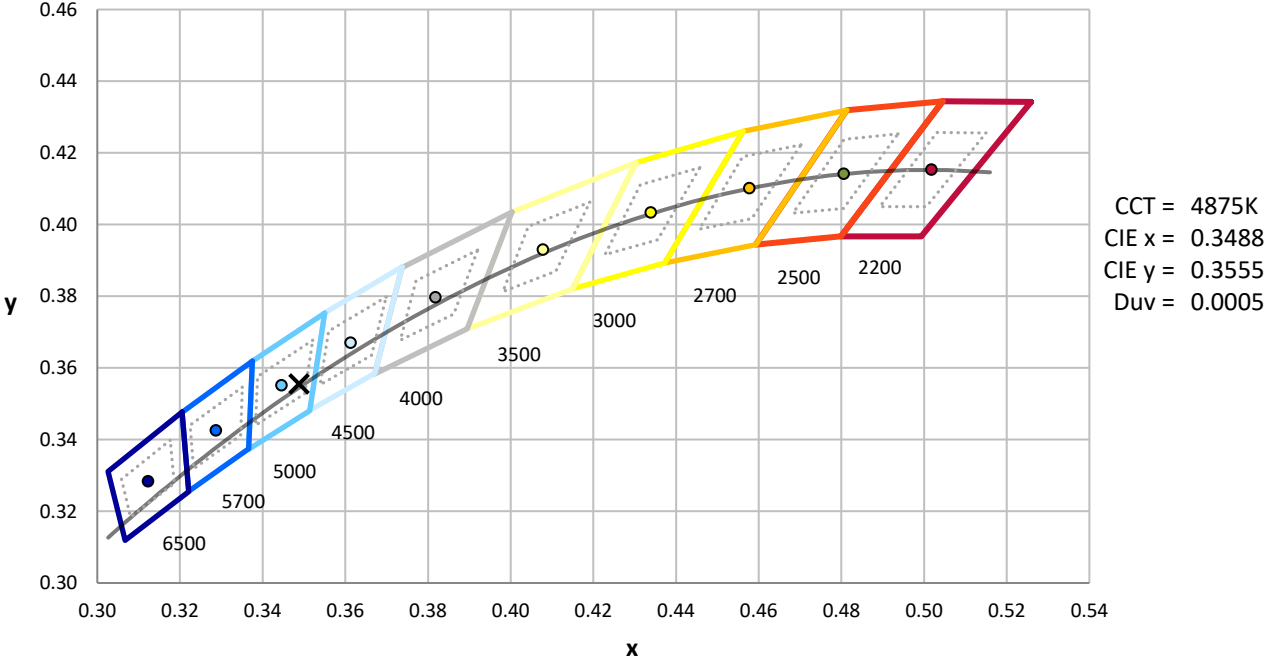
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-4

CIE 1931 Chromaticity Diagram



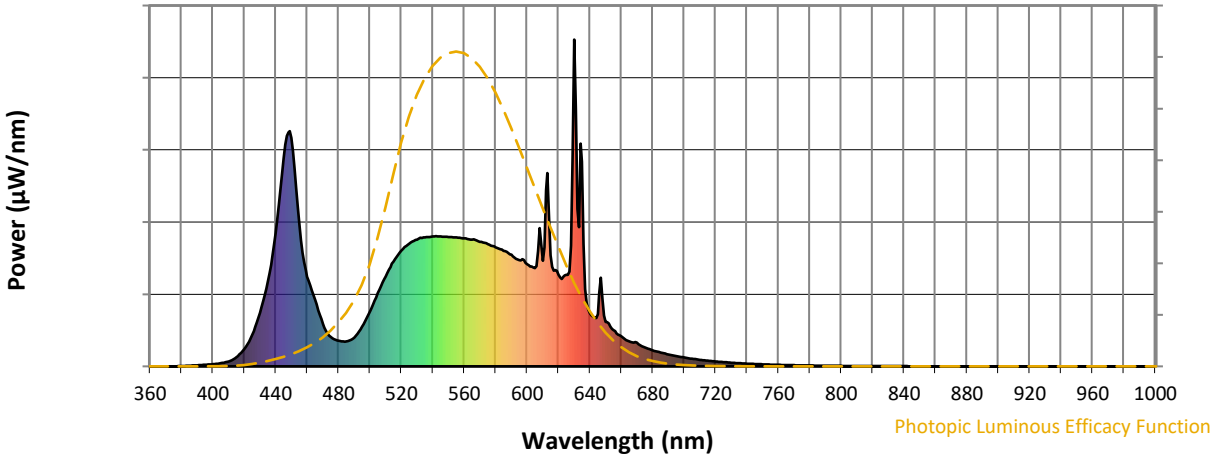
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-4

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.82

λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)
360	0	NR	490	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-4

Melanopic Flux vs. Wavelength



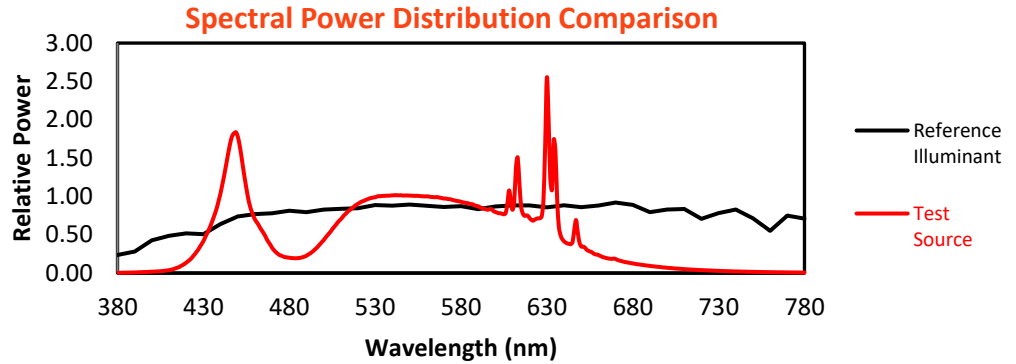
Melanopic Lumens: NR

M/P: 3.71

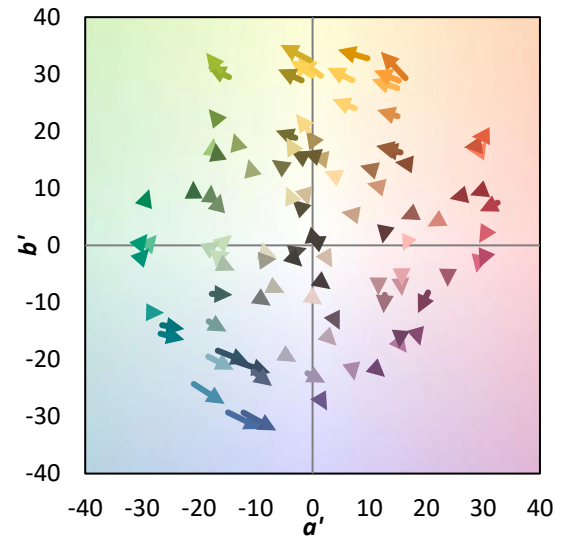
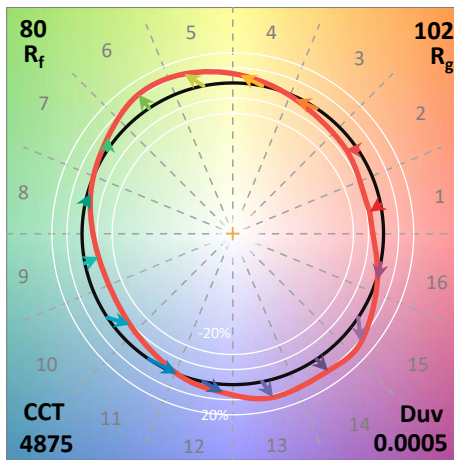
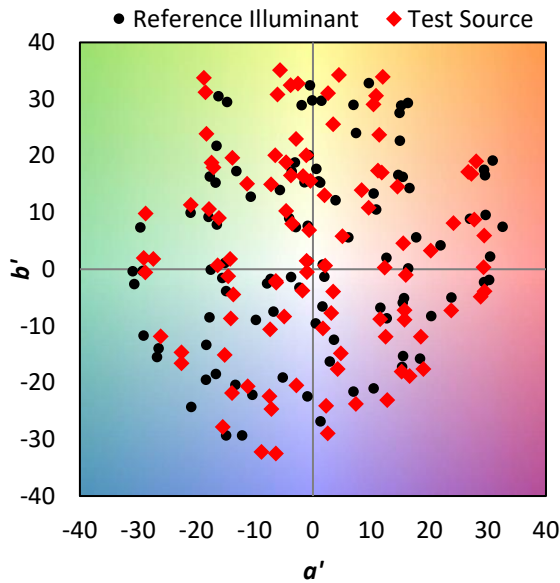
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

Summary

$R_f = 80$
 $R_g = 102.3$
 $CIE R_a = 82.3$
 $R_9 = 43.9$



Color Vector Graphics

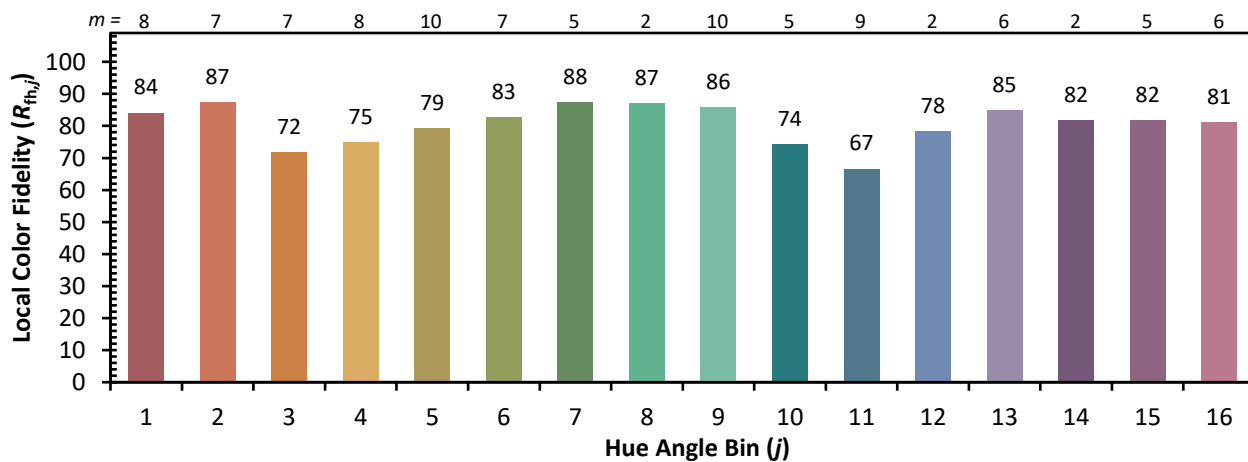
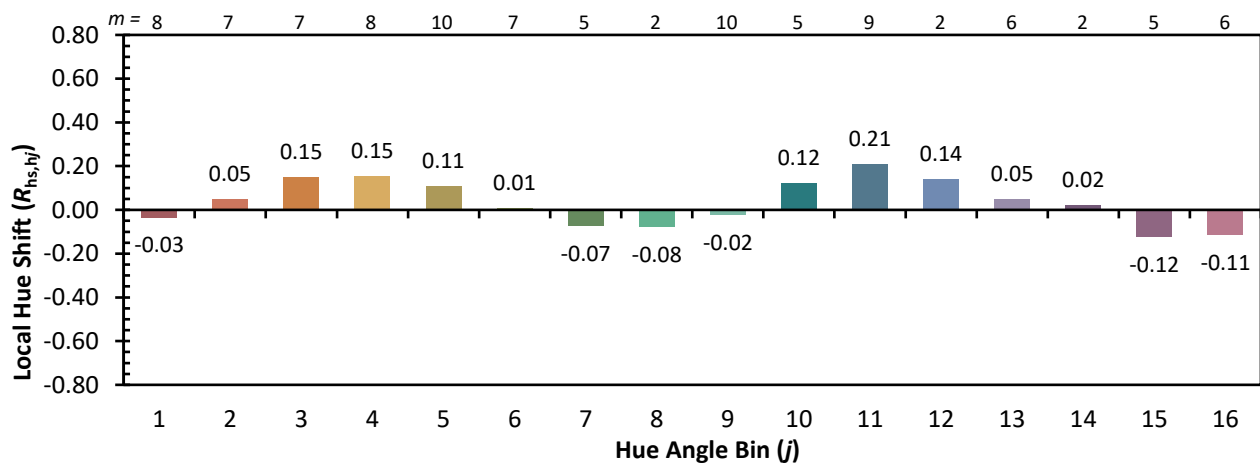
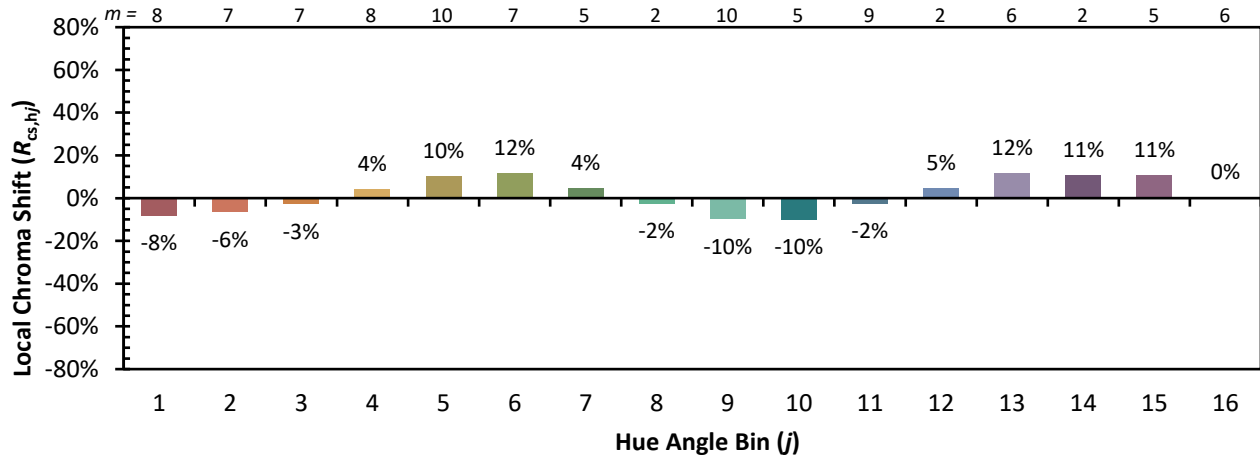


Individual Sample Fidelity Index ($R_{f,i}$)

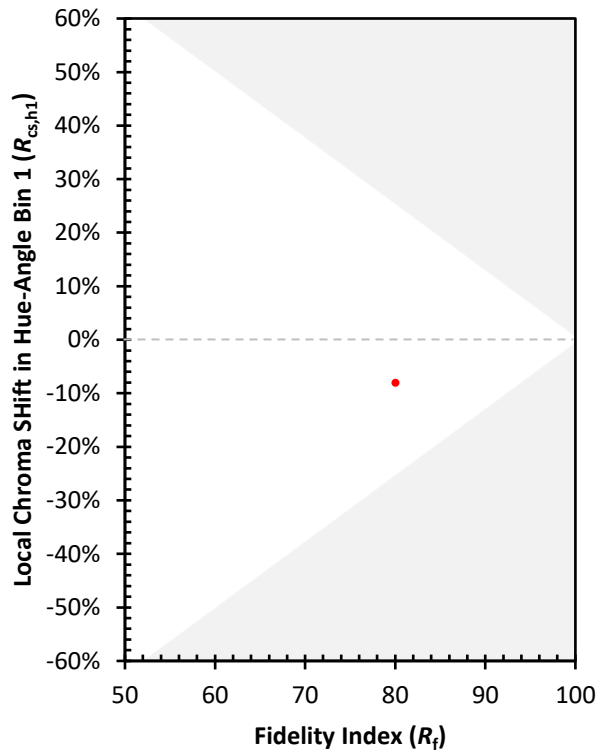
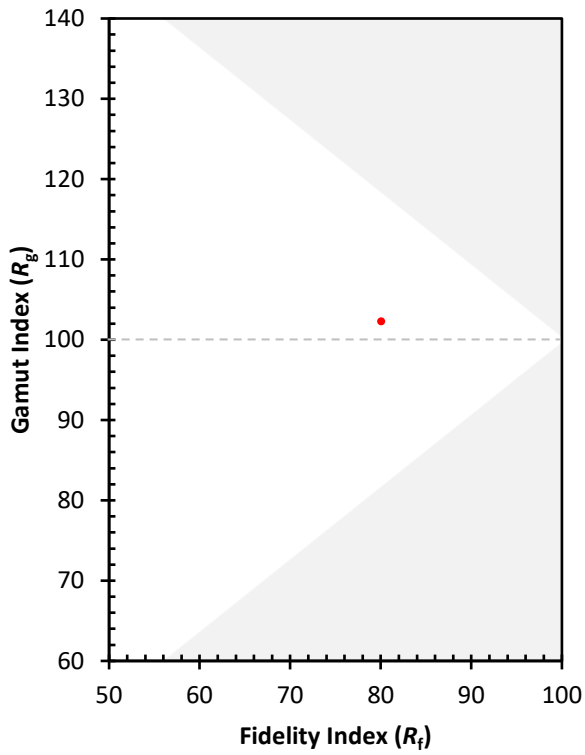
CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 90
CES08 = 39	CES33 = 76	CES58 = 81	CES83 = 87
CES09 = 29	CES34 = 68	CES59 = 93	CES84 = 87
CES10 = 73	CES35 = 82	CES60 = 94	CES85 = 82
CES11 = 56	CES36 = 95	CES61 = 91	CES86 = 83
CES12 = 62	CES37 = 75	CES62 = 89	CES87 = 78
CES13 = 42	CES38 = 87	CES63 = 80	CES88 = 85
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 81
CES15 = 71	CES40 = 87	CES65 = 75	CES90 = 86
CES16 = 46	CES41 = 91	CES66 = 72	CES91 = 80
CES17 = 48	CES42 = 71	CES67 = 69	CES92 = 77
CES18 = 56	CES43 = 72	CES68 = 75	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 80	CES94 = 71
CES20 = 65	CES45 = 81	CES70 = 66	CES95 = 79
CES21 = 85	CES46 = 83	CES71 = 59	CES96 = 86
CES22 = 77	CES47 = 83	CES72 = 87	CES97 = 85
CES23 = 91	CES48 = 83	CES73 = 56	CES98 = 82
CES24 = 90	CES49 = 82	CES74 = 95	CES99 = 84
CES25 = 71	CES50 = 91	CES75 = 58	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)