

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: P1432654

Luminaire Tested: EHBR1-30-UNV-TASM-L835-UPL24

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1432654
REPORT IS A COMBINATION OF REPORTS P1431743 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-30-UNV-TASM-L835-UPL24
Description: Elevate Round Highbay at, 30000 lumens, 3500K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

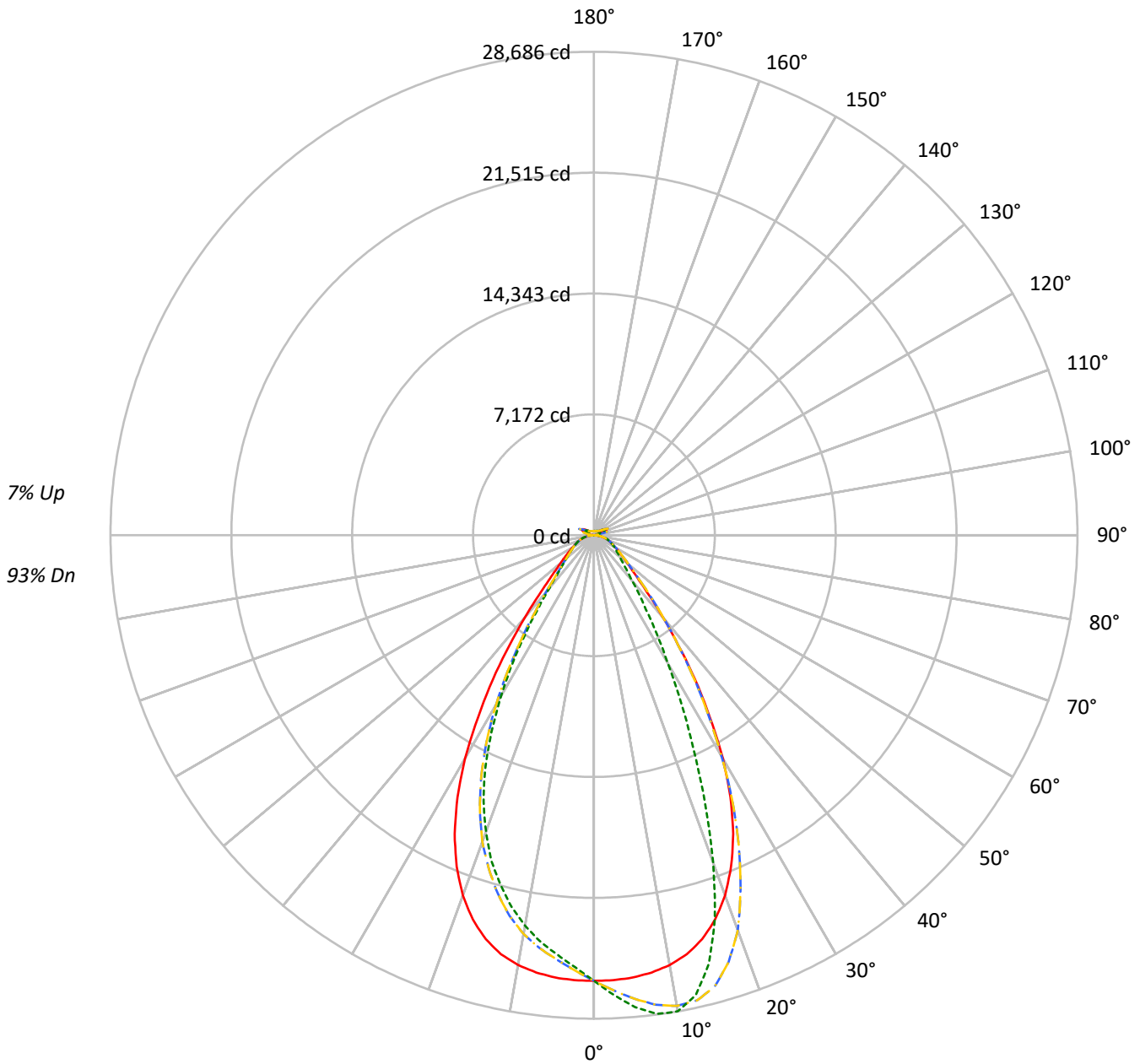
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31918.9 lumens
Efficiency: N/A
Efficacy: 181.0 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): 176.3
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: P1432654
CATALOG NUMBER: EHBR1-30-UNV-TASM-L835-UPL24

Luminous Intensity Polar Plot



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



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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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	110	107	103	101	107	104	101	98	98	96	94	93	91	90	89	87	86	86	86	86	84
2	103	97	92	88	100	95	90	86	90	86	83	86	83	80	82	80	78	82	80	78	75
3	97	89	83	78	94	87	81	77	83	78	75	80	76	73	76	73	71	76	73	71	68
4	91	82	75	70	88	80	74	69	77	72	68	74	70	66	71	67	64	71	67	64	63
5	85	76	69	64	83	74	68	63	71	66	62	69	64	60	66	62	59	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	55	62	58	55	53
7	76	65	58	54	74	64	58	53	62	56	52	60	55	52	58	54	51	58	54	51	49
8	72	61	54	50	70	60	54	49	58	53	49	57	52	48	55	51	47	55	51	47	46
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	52	47	44	52	47	44	43
10	64	54	47	43	63	53	47	43	52	46	42	50	45	42	49	45	41	49	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	124146	124146	124146	124146
5°	123391	131636	123391	116988
10°	121874	135015	121874	110719
15°	118276	125471	118276	102275
20°	110617	100611	110617	91098
25°	97906	69709	97906	76344
30°	79496	45350	79496	57121
35°	57017	29370	57017	38026
40°	36863	20243	36863	23981
45°	23389	15681	23389	17087
50°	17369	13325	17369	14232
55°	14181	12139	14181	12564
60°	12280	11563	12280	11632
65°	11194	11151	11194	11104
70°	10609	10927	10609	10785
75°	9923	10569	9923	10252
80°	8717	9980	8717	9330
85°	5639	7125	5639	6794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 32884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2513.7	7.9
10°-20°	6838.6	21.4
20°-30°	8020.3	25.1
30°-40°	5577.6	17.5
40°-50°	2771.8	8.7
50°-60°	1657.8	5.2
60°-70°	1166.9	3.7
70°-80°	751.7	2.4
80°-90°	242.9	0.8
90°-100°	63.5	0.2
100°-110°	412.9	1.3
110°-120°	762.5	2.4
120°-130°	453.4	1.4
130°-140°	274.6	0.9
140°-150°	190.3	0.6
150°-160°	124.6	0.4
160°-170°	71.9	0.2
170°-180°	24.0	0.1
0°-30°	17372.6	54.4
0°-40°	22950.2	71.9
0°-60°	27379.8	85.8
0°-90°	29541.3	92.6
90°-120°	1238.9	3.9
90°-150°	2157.2	6.8
90°-180°	2378.0	7.5
0°-180°	31918.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	26436	26436	26436	26436	26436	
5°	26346	28106	26346	24979	26346	2500
15°	24814	26323	24814	21457	24814	6935
25°	19552	13921	19552	15246	19552	8852
35°	10465	5390	10465	6979	10465	6533
45°	3784	2537	3784	2765	3784	3097
55°	1916	1640	1916	1698	1916	1752
65°	1168	1164	1168	1159	1168	1173
75°	699	744	699	722	699	734
85°	194	245	194	234	194	216
90°	18	21	18	18	18	17
95°	34	33	34	29	34	36
105°	190	98	190	144	190	256
115°	812	694	812	659	812	740
125°	520	545	520	476	520	479
135°	329	380	329	348	329	261
145°	298	312	298	290	298	187
155°	266	278	266	258	266	124
165°	252	260	252	247	252	72
175°	252	257	252	248	252	24
180°	252	252	252	252	252	



TEST NUMBER: P1432654
 CATALOG NUMBER: EHBR1-30-UNV-TASM-L835-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1
2.5°	26420.8	26762.3	27039.0	27221.4	27311.6	27221.4	27039.0	26762.3	26420.8	26081.2	25847.7
5°	26346.0	27030.1	27609.6	27988.7	28106.3	27988.7	27609.6	27030.1	26346.0	25699.5	25270.7
7.5°	26167.0	27232.8	28093.9	28536.5	28644.6	28536.5	28093.9	27232.8	26167.0	25251.9	24710.1
10°	25893.9	27360.7	28355.6	28672.9	28685.8	28672.9	28355.6	27360.7	25893.9	24661.0	24022.0
12.5°	25458.1	27315.1	28267.8	28163.8	27927.3	28163.8	28267.8	27315.1	25458.1	23939.2	23133.2
15°	24813.7	27044.9	27712.2	26864.9	26323.2	26864.9	27712.2	27044.9	24813.7	22964.7	22029.8
17.5°	23905.5	26539.3	26552.2	24876.2	23854.0	24876.2	26552.2	26539.3	23905.5	21773.0	20743.4
20°	22735.1	25728.2	24955.0	21889.5	20678.4	21889.5	24955.0	25728.2	22735.1	20364.1	19353.9
22.5°	21267.8	24634.7	22730.7	18884.9	17232.6	18884.9	22730.7	24634.7	21267.8	18725.8	17674.3
25°	19551.7	23294.8	20337.8	15611.2	13920.8	15611.2	20337.8	23294.8	19551.7	16773.7	15822.9
27.5°	17533.0	21596.5	17789.8	12756.8	11197.3	12756.8	17789.8	21596.5	17533.0	14758.0	13786.9
30°	15291.0	19419.3	15138.2	10159.3	8723.1	10159.3	15138.2	19419.3	15291.0	12493.5	11624.1
32.5°	12780.6	17285.2	12591.8	8140.2	6923.7	8140.2	12591.8	17285.2	12780.6	10332.7	9424.1
35°	10464.6	14615.3	10295.6	6396.3	5390.4	6396.3	10295.6	14615.3	10464.6	8292.9	7400.5
37.5°	8212.6	12092.6	8207.1	5150.5	4372.2	5150.5	8207.1	12092.6	8212.6	6447.3	5723.0
40°	6389.3	9455.4	6430.4	4111.5	3508.7	4111.5	6430.4	9455.4	6389.3	4905.7	4442.1
42.5°	4841.2	7230.1	5054.3	3374.4	2980.3	3374.4	5054.3	7230.1	4841.2	3865.1	3518.1
45°	3784.3	5320.5	3946.9	2846.9	2537.1	2846.9	3946.9	5320.5	3784.3	3112.6	2879.7
47.5°	3081.8	4112.0	3198.9	2441.9	2224.8	2441.9	3198.9	4112.0	3081.8	2632.8	2458.3
50°	2588.6	3155.2	2656.0	2131.6	1985.9	2131.6	2656.0	3155.2	2588.6	2254.6	2138.0
52.5°	2223.8	2573.3	2261.9	1899.6	1801.4	1899.6	2261.9	2573.3	2223.8	1972.5	1900.0
55°	1916.4	2163.3	1967.1	1708.2	1640.4	1708.2	1967.1	2163.3	1916.4	1755.4	1701.8
57.5°	1682.9	1835.2	1708.2	1545.1	1500.0	1545.1	1708.2	1835.2	1682.9	1562.0	1533.3
60°	1476.3	1589.3	1507.5	1402.9	1390.0	1402.9	1507.5	1589.3	1476.3	1405.4	1386.5
62.5°	1317.2	1388.5	1333.0	1275.0	1263.6	1275.0	1333.0	1388.5	1317.2	1262.6	1266.1
65°	1168.4	1234.8	1191.2	1160.0	1163.9	1160.0	1191.2	1234.8	1168.4	1143.1	1148.6
67.5°	1053.4	1088.1	1069.3	1051.5	1055.9	1051.5	1069.3	1088.1	1053.4	1028.6	1037.0
70°	930.9	968.2	948.8	951.3	958.8	951.3	948.8	968.2	930.9	923.6	930.0
72.5°	814.0	842.7	836.3	842.2	850.1	842.2	836.3	842.7	814.0	813.0	813.5
75°	699.0	720.8	723.8	732.1	744.5	732.1	723.8	720.8	699.0	691.5	700.4
77.5°	573.6	598.3	607.7	619.2	637.5	619.2	607.7	598.3	573.6	578.5	583.0
80°	458.6	469.9	490.8	499.2	525.0	499.2	490.8	469.9	458.6	450.1	456.5
82.5°	335.6	346.0	363.8	379.7	394.6	379.7	363.8	346.0	335.6	331.6	332.1
85°	193.8	209.7	221.6	240.4	244.9	240.4	221.6	209.7	193.8	198.3	193.8
87.5°	67.9	72.8	83.3	90.8	91.2	90.8	83.3	72.8	67.9	69.4	62.9
90°	17.6	29.8	51.3	29.2	21.0	29.2	51.3	29.8	17.6	30.6	47.7
92.5°	22.8	40.2	72.2	38.4	27.5	38.4	72.2	40.2	22.8	39.8	76.5
95°	33.7	49.5	91.9	42.3	32.8	42.3	91.9	49.5	33.7	52.9	106.7
97.5°	52.1	61.3	103.7	45.0	39.4	45.0	103.7	61.3	52.1	64.7	122.4
100°	69.1	69.1	188.9	51.5	44.6	51.5	188.9	69.1	69.1	79.6	190.5
102.5°	104.5	135.2	437.0	101.8	53.8	101.8	437.0	135.2	104.5	149.0	404.2
105°	189.7	308.2	768.7	260.4	97.6	260.4	768.7	308.2	189.7	311.6	720.0
107.5°	358.8	574.2	990.2	512.0	224.7	512.0	990.2	574.2	358.8	551.5	949.8
110°	573.7	802.2	1080.5	700.7	452.7	700.7	1080.5	802.2	573.7	757.2	995.7



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CATALOG NUMBER: EHBR1-30-UNV-TASM-L835-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	746.7	894.0	1055.7	776.7	625.7	776.7	1055.7	894.0	746.7	835.8	953.8
115°	811.5	880.9	942.9	774.1	693.8	774.1	942.9	880.9	811.5	816.2	851.6
117.5°	783.9	806.2	814.6	727.0	697.8	727.0	814.6	806.2	783.9	734.1	723.1
120°	707.9	698.7	686.7	657.5	658.4	657.5	686.7	698.7	707.9	641.1	603.8
122.5°	612.7	593.1	580.5	587.2	604.7	587.2	580.5	593.1	612.7	545.8	517.8
125°	519.7	500.0	506.3	526.9	544.9	526.9	506.3	500.0	519.7	463.9	456.7
127.5°	441.6	432.4	452.6	475.8	491.2	475.8	452.6	432.4	441.6	406.2	413.5
130°	385.8	387.9	414.6	434.3	444.0	434.3	414.6	387.9	385.8	368.7	386.5
132.5°	350.8	360.8	386.2	403.4	409.1	403.4	386.2	360.8	350.8	346.1	367.8
135°	329.0	343.8	367.0	378.0	380.2	378.0	367.0	343.8	329.0	330.8	350.8
137.5°	316.4	331.2	348.7	357.5	355.4	357.5	348.7	331.2	316.4	320.8	336.0
140°	309.0	323.8	331.6	341.8	340.1	341.8	331.6	323.8	309.0	311.7	323.4
142.5°	301.7	315.1	319.0	326.5	324.4	326.5	319.0	315.1	301.7	304.3	312.1
145°	298.2	308.2	305.1	314.8	311.8	314.8	305.1	308.2	298.2	299.1	303.4
147.5°	291.6	299.1	295.1	303.4	300.6	303.4	295.1	299.1	291.6	291.6	293.4
150°	284.2	289.5	283.7	293.4	293.1	293.4	283.7	289.5	284.2	283.0	284.8
152.5°	274.3	279.6	274.3	285.3	284.5	285.3	274.3	279.6	274.3	273.1	274.8
155°	266.2	268.8	266.2	277.1	277.6	277.1	266.2	268.8	266.2	265.7	266.7
157.5°	260.6	262.4	261.0	270.7	271.2	270.7	261.0	262.4	260.6	260.6	261.0
160°	255.9	258.5	257.8	266.2	266.7	266.2	257.8	258.5	255.9	256.8	257.3
162.5°	254.4	254.4	254.1	262.4	263.4	262.4	254.1	254.4	254.4	254.4	255.7
165°	251.9	253.2	251.5	257.7	260.2	257.7	251.5	253.2	251.9	252.7	252.7
167.5°	251.5	250.3	251.3	256.7	259.0	256.7	251.3	250.3	251.5	252.4	252.4
170°	249.4	249.9	249.7	255.0	257.4	255.0	249.7	249.9	249.4	250.8	251.5
172.5°	251.0	251.0	249.8	253.9	257.6	253.9	249.8	251.0	251.0	251.8	253.1
175°	251.9	251.2	250.8	253.7	257.3	253.7	250.8	251.2	251.9	251.4	251.4
177.5°	250.7	251.6	252.6	255.4	260.4	255.4	252.6	251.6	250.7	251.4	251.4
180°	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	26436.1	26436.1	26436.1	26436.1	26436.1	26436.1
2.5°	25668.3	25651.4	25668.3	25847.7	26081.2	26420.8
5°	25071.9	24978.8	25071.9	25270.7	25699.5	26346.0
7.5°	24377.4	24323.4	24377.4	24710.1	25251.9	26167.0
10°	23646.3	23523.8	23646.3	24022.0	24661.0	25893.9
12.5°	22745.0	22583.0	22745.0	23133.2	23939.2	25458.1
15°	21598.9	21456.7	21598.9	22029.8	22964.7	24813.7
17.5°	20369.0	20240.2	20369.0	20743.4	21773.0	23905.5
20°	18824.4	18723.3	18824.4	19353.9	20364.1	22735.1
22.5°	17203.9	17109.3	17203.9	17674.3	18725.8	21267.8
25°	15297.4	15245.8	15297.4	15822.9	16773.7	19551.7
27.5°	13237.2	13149.5	13237.2	13786.9	14758.0	17533.0
30°	11132.4	10987.1	11132.4	11624.1	12493.5	15291.0
32.5°	9073.7	8969.0	9073.7	9424.1	10332.7	12780.6
35°	7083.8	6979.2	7083.8	7400.5	8292.9	10464.6
37.5°	5519.8	5335.0	5519.8	5723.0	6447.3	8212.6
40°	4186.3	4156.6	4186.3	4442.1	4905.7	6389.3
42.5°	3408.0	3327.3	3408.0	3518.1	3865.1	4841.2
45°	2796.4	2764.6	2796.4	2879.7	3112.6	3784.3
47.5°	2404.7	2418.7	2404.7	2458.3	2632.8	3081.8
50°	2112.7	2121.1	2112.7	2138.0	2254.6	2588.6
52.5°	1897.6	1890.2	1897.6	1900.0	1972.5	2223.8
55°	1707.3	1697.9	1707.3	1701.8	1755.4	1916.4
57.5°	1540.7	1547.7	1540.7	1533.3	1562.0	1682.9
60°	1392.0	1398.4	1392.0	1386.5	1405.4	1476.3
62.5°	1266.5	1270.5	1266.5	1266.1	1262.6	1317.2
65°	1154.5	1159.0	1154.5	1148.6	1143.1	1168.4
67.5°	1047.5	1047.5	1047.5	1037.0	1028.6	1053.4
70°	946.8	946.3	946.8	930.0	923.6	930.9
72.5°	825.9	837.7	825.9	813.5	813.0	814.0
75°	708.4	722.2	708.4	700.4	691.5	699.0
77.5°	589.4	610.7	589.4	583.0	578.5	573.6
80°	467.5	490.8	467.5	456.5	450.1	458.6
82.5°	345.5	362.9	345.5	332.1	331.6	335.6
85°	205.7	233.5	205.7	193.8	198.3	193.8
87.5°	65.9	84.3	65.9	62.9	69.4	67.9
90°	28.0	17.6	28.0	47.7	30.6	17.6
92.5°	42.5	25.4	42.5	76.5	39.8	22.8
95°	49.0	29.3	49.0	106.7	52.9	33.7
97.5°	54.2	37.6	54.2	122.4	64.7	52.1
100°	63.4	49.5	63.4	190.5	79.6	69.1
102.5°	134.2	83.5	134.2	404.2	149.0	104.5
105°	282.3	143.8	282.3	720.0	311.6	189.7
107.5°	505.1	248.6	505.1	949.8	551.5	358.8
110°	670.2	463.6	670.2	995.7	757.2	573.7



TEST NUMBER: P1432654

CATALOG NUMBER: EHBR1-30-UNV-TASM-L835-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	720.0	626.1	720.0	953.8	835.8	746.7
115°	692.5	658.9	692.5	851.6	816.2	811.5
117.5°	632.3	636.6	632.3	723.1	734.1	783.9
120°	562.7	589.5	562.7	603.8	641.1	707.9
122.5°	499.0	530.4	499.0	517.8	545.8	612.7
125°	443.9	475.9	443.9	456.7	463.9	519.7
127.5°	405.9	427.4	405.9	413.5	406.2	441.6
130°	376.2	394.7	376.2	386.5	368.7	385.8
132.5°	355.8	367.6	355.8	367.8	346.1	350.8
135°	338.0	347.9	338.0	350.8	330.8	329.0
137.5°	322.8	331.4	322.8	336.0	320.8	316.4
140°	309.3	316.7	309.3	323.4	311.7	309.0
142.5°	295.4	300.7	295.4	312.1	304.3	301.7
145°	285.9	289.8	285.9	303.4	299.1	298.2
147.5°	277.7	280.3	277.7	293.4	291.6	291.6
150°	269.6	272.2	269.6	284.8	283.0	284.2
152.5°	260.9	264.1	260.9	274.8	273.1	274.3
155°	255.3	258.4	255.3	266.7	265.7	266.2
157.5°	252.3	254.6	252.3	261.0	260.6	260.6
160°	250.0	251.7	250.0	257.3	256.8	255.9
162.5°	247.0	248.8	247.0	255.7	254.4	254.4
165°	246.7	247.2	246.7	252.7	252.7	251.9
167.5°	245.8	247.2	245.8	252.4	252.4	251.5
170°	246.3	246.8	246.3	251.5	250.8	249.4
172.5°	247.3	247.9	247.3	253.1	251.8	251.0
175°	247.1	247.6	247.1	251.4	251.4	251.9
177.5°	248.8	249.3	248.8	251.4	251.4	250.7
180°	251.6	251.6	251.6	251.6	251.6	251.6



TEST NUMBER: P1432654
 CATALOG NUMBER: EHBR1-30-UNV-TASM-L835-UPL24

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	17.33	18.42	17.83	18.89	19.39	16.65	17.74	17.14	18.21	18.71
	3H	18.88	19.85	19.39	20.33	20.88	18.49	19.47	19.01	19.95	20.50
	4H	19.51	20.42	20.04	20.92	21.49	19.28	20.19	19.81	20.68	21.25
	6H	19.99	20.83	20.54	21.34	21.92	19.92	20.75	20.46	21.27	21.84
	8H	20.14	20.93	20.70	21.47	22.05	20.14	20.93	20.70	21.46	22.05
	12H	20.21	20.97	20.78	21.50	22.10	20.27	21.02	20.83	21.55	22.15
4H	2H	17.74	18.65	18.28	19.15	19.72	17.22	18.13	17.76	18.63	19.19
	3H	19.54	20.29	20.08	20.84	21.42	19.28	20.03	19.82	20.58	21.16
	4H	20.31	20.99	20.88	21.54	22.16	20.19	20.86	20.75	21.42	22.04
	6H	20.93	21.51	21.52	22.09	22.73	20.96	21.54	21.54	22.12	22.76
	8H	21.12	21.67	21.72	22.25	22.89	21.23	21.77	21.82	22.35	22.99
	12H	21.23	21.71	21.84	22.32	22.97	21.39	21.87	22.00	22.48	23.13
8H	4H	20.56	21.11	21.16	21.69	22.33	20.46	21.01	21.06	21.59	22.23
	6H	21.30	21.75	21.93	22.37	23.02	21.37	21.81	21.99	22.44	23.09
	8H	21.57	21.97	22.22	22.61	23.27	21.72	22.12	22.36	22.75	23.42
	12H	21.75	22.09	22.38	22.71	23.45	21.97	22.31	22.61	22.93	23.67
12H	4H	20.57	21.05	21.18	21.66	22.31	20.47	20.95	21.08	21.57	22.21
	6H	21.35	21.74	21.99	22.38	23.04	21.41	21.81	22.06	22.45	23.11
	8H	21.66	22.01	22.30	22.63	23.36	21.82	22.16	22.45	22.78	23.52

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: SP1-2506-472-3

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L835-N

Data in this report applies to families of products including EHBR-60-L835-N

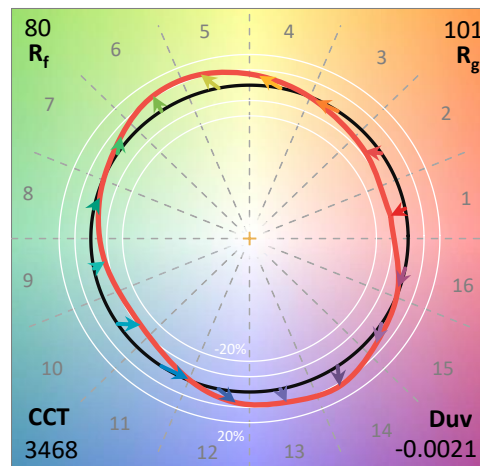
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-3
 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-L835-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 3468
 CIE u': 0.2375
 CIE v': 0.5091
 Duv: -0.0021
 CIE x: 0.4049
 CIE y: 0.3856
 CIE z: 0.2095
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 581
 Purity: 37.24544
 Rf: 80.1
 Rg: 101

CRI (Ra):	82.1		
R1:	82.9	R9:	27.6
R2:	85.6	R10:	63.8
R3:	85.9	R11:	81.2
R4:	82.8	R12:	57.2
R5:	81.0	R13:	82.6
R6:	79.7	R14:	91.0
R7:	86.5	R15:	79.4
R8:	72.1		



Test Conditions

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

REPORT NUMBER: SP1-2506-472-3

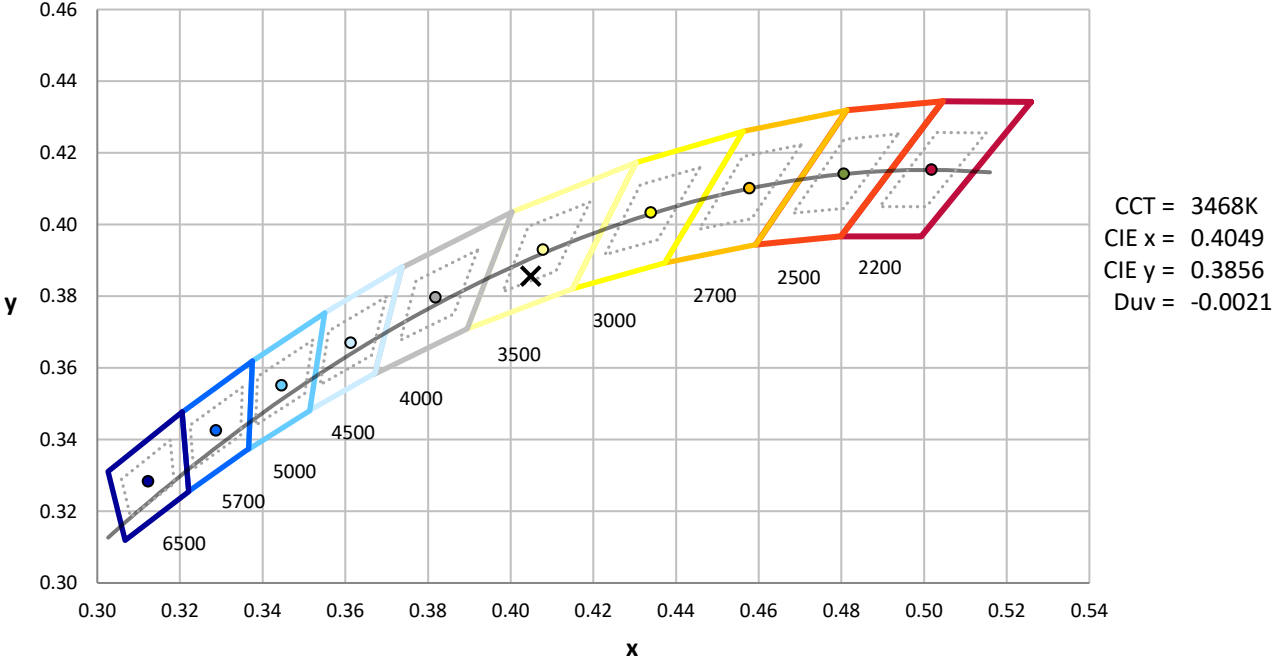
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-3

CIE 1931 Chromaticity Diagram



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



CCT = 3468K
 CIE x = 0.4049
 CIE y = 0.3856
 Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

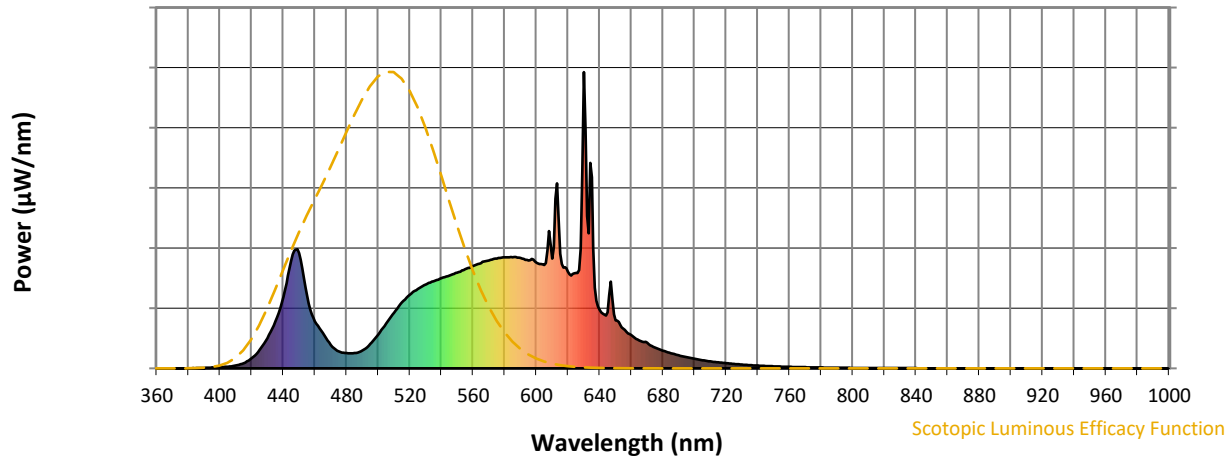


Photopic Lumens: NR

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	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Scotopic Flux vs. Wavelength



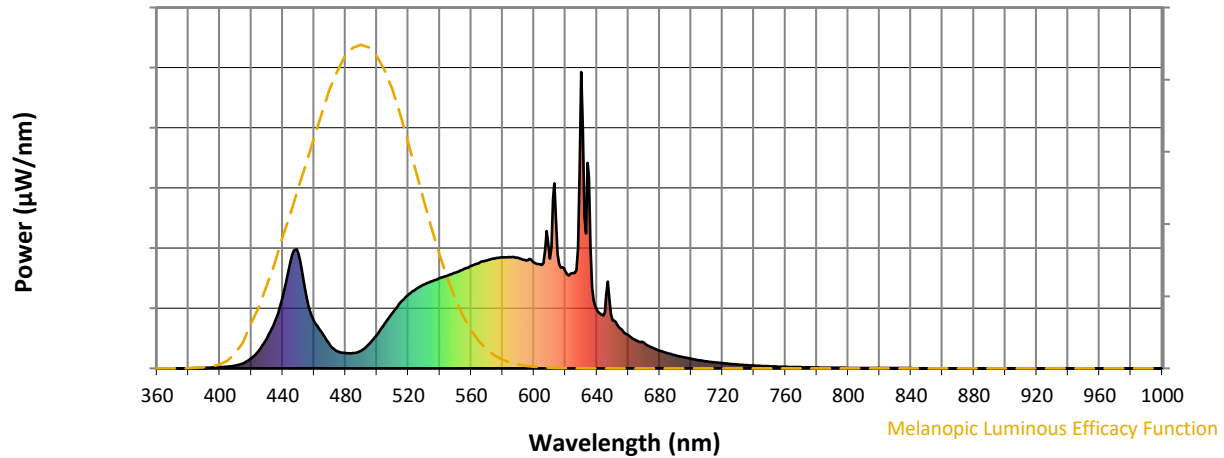
Scotopic Lumens: NR

S/P: 1.43

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	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.75

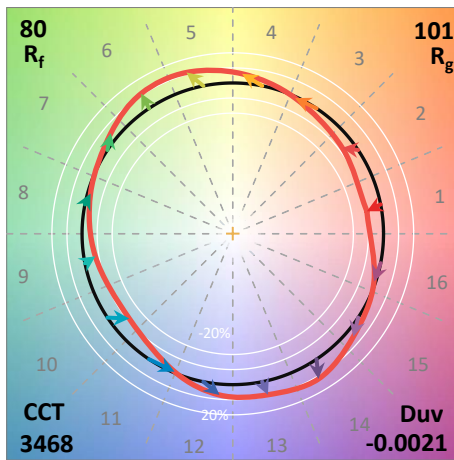
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

Summary

$R_f = 80.1$
 $R_g = 101$
 $CIE R_a = 82.1$
 $R_9 = 27.6$

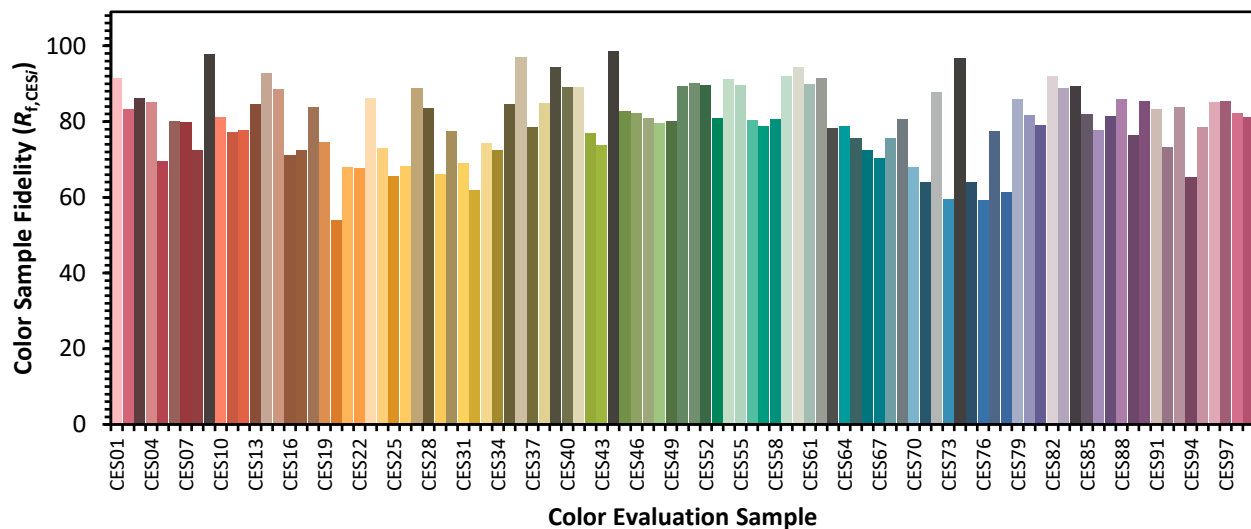


Color Vector Graphics

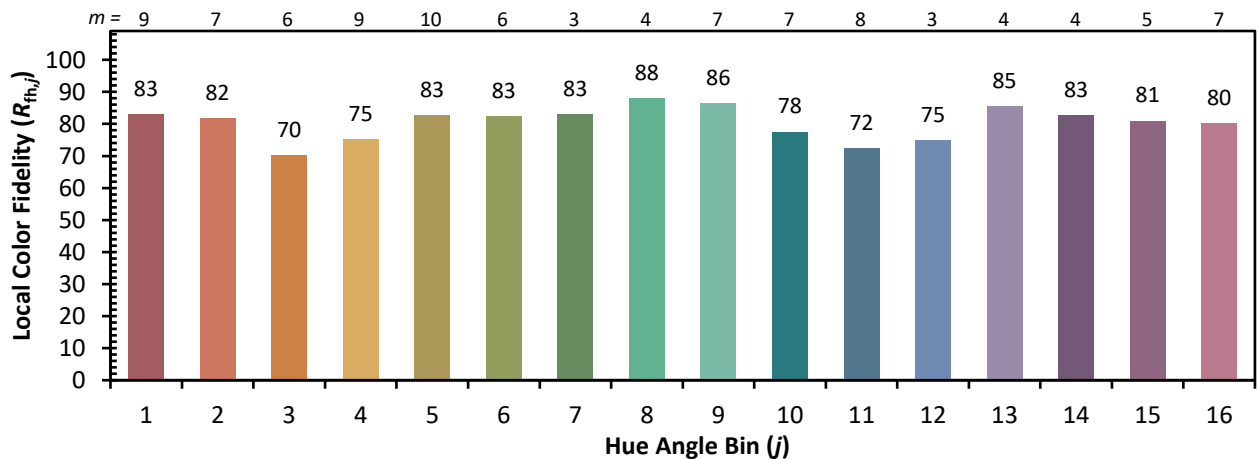
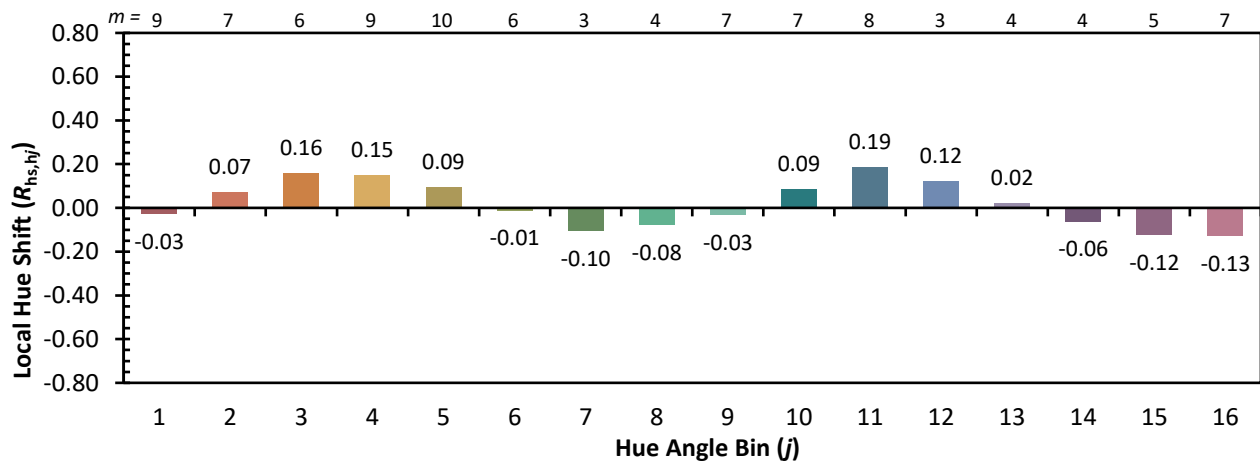
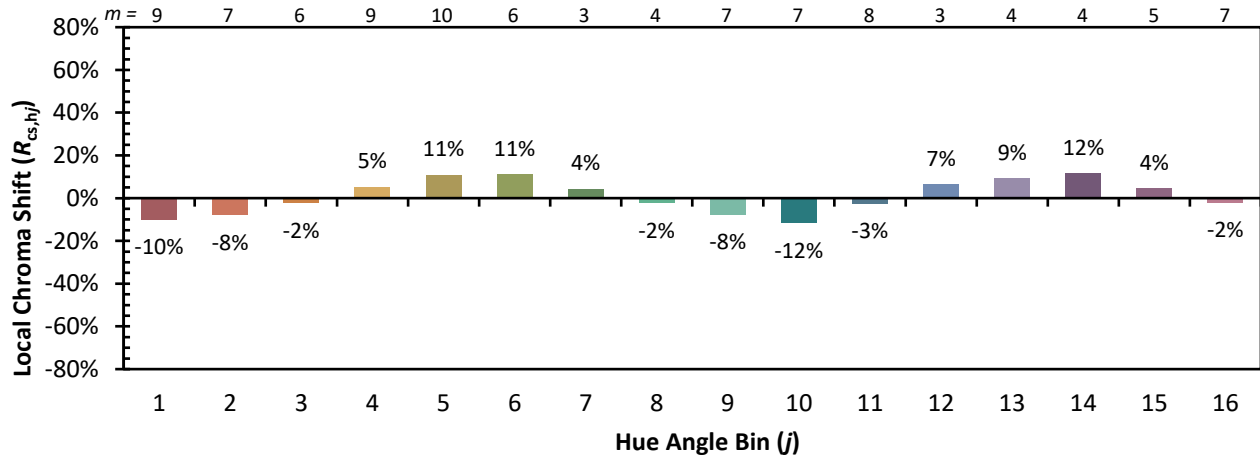


Individual Sample Fidelity Index ($R_{f,i}$)

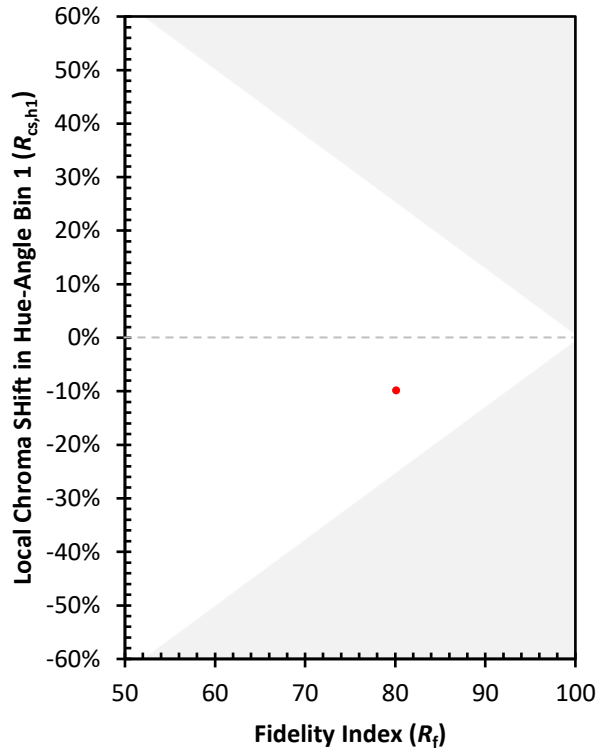
CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 72	CES59 = 92	CES84 = 89
CES10 = 75	CES35 = 85	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 97	CES61 = 90	CES86 = 78
CES12 = 64	CES37 = 79	CES62 = 92	CES87 = 82
CES13 = 43	CES38 = 85	CES63 = 78	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 76
CES15 = 71	CES40 = 89	CES65 = 76	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 73	CES91 = 83
CES17 = 49	CES42 = 77	CES67 = 70	CES92 = 73
CES18 = 56	CES43 = 74	CES68 = 76	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 66	CES45 = 83	CES70 = 68	CES95 = 79
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 85
CES22 = 78	CES47 = 81	CES72 = 88	CES97 = 85
CES23 = 92	CES48 = 80	CES73 = 60	CES98 = 82
CES24 = 91	CES49 = 80	CES74 = 97	CES99 = 81
CES25 = 72	CES50 = 89	CES75 = 64	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)