

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P324325

Luminaire Tested: **GLEON-SA1C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4363 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

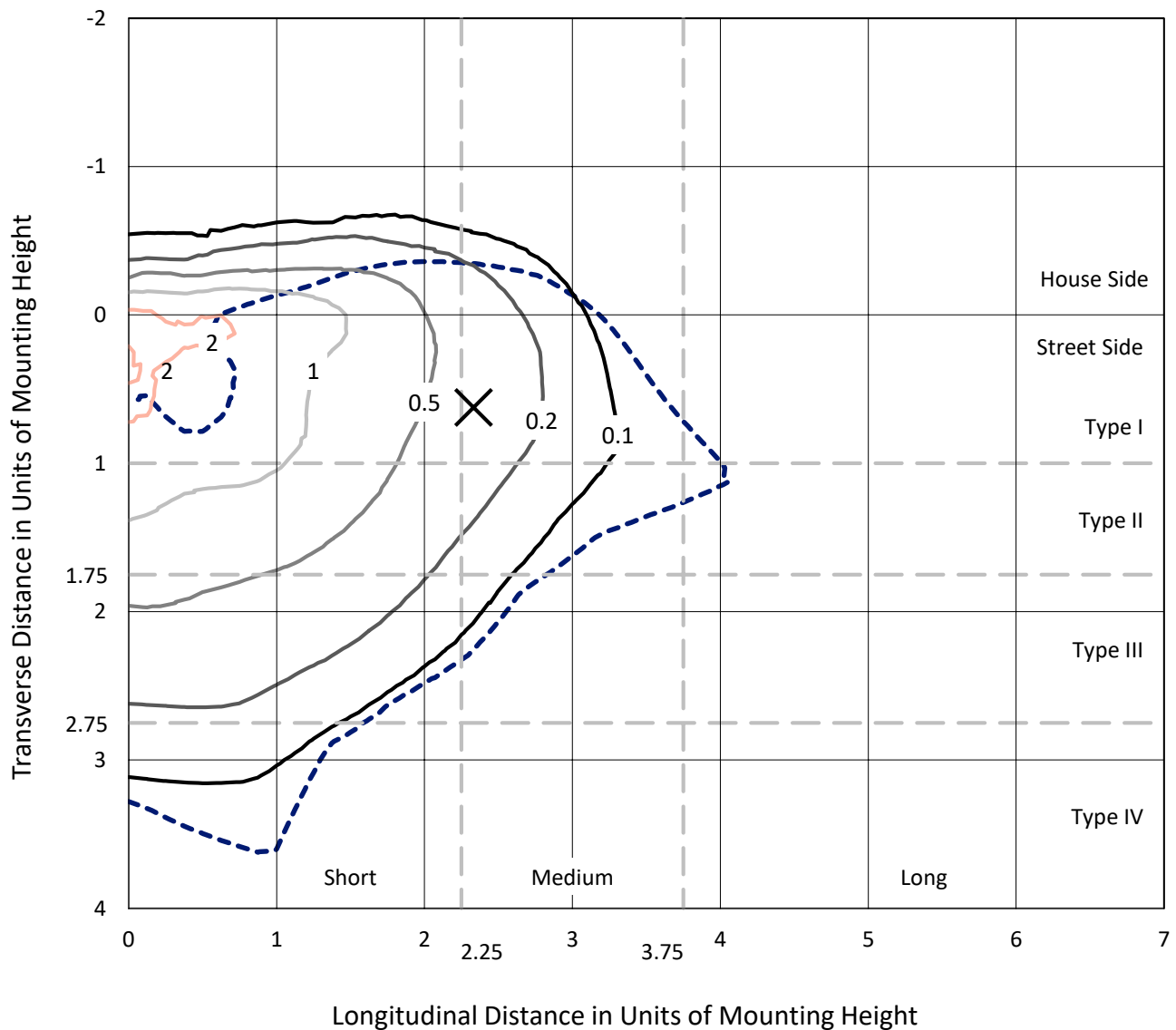
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

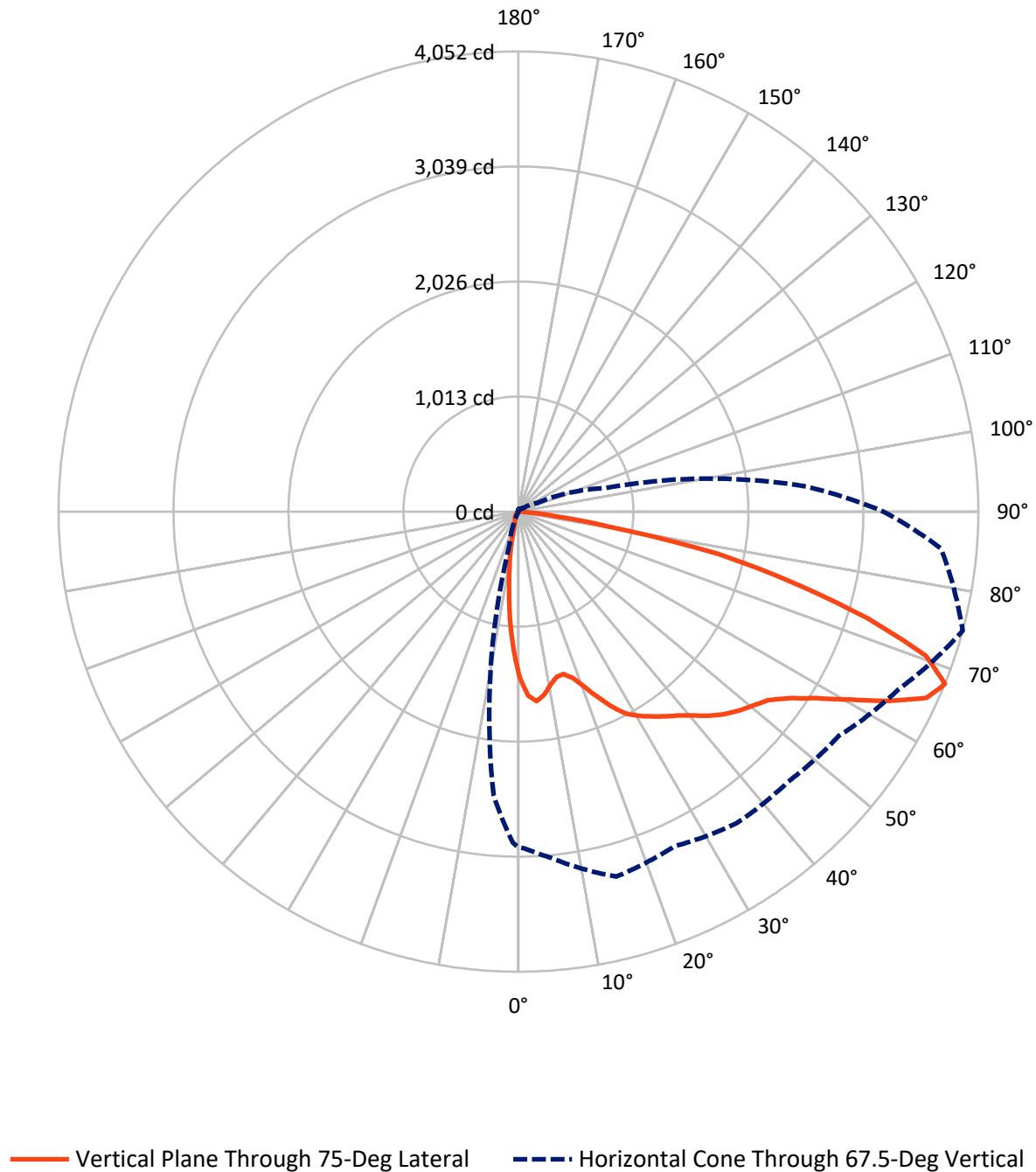
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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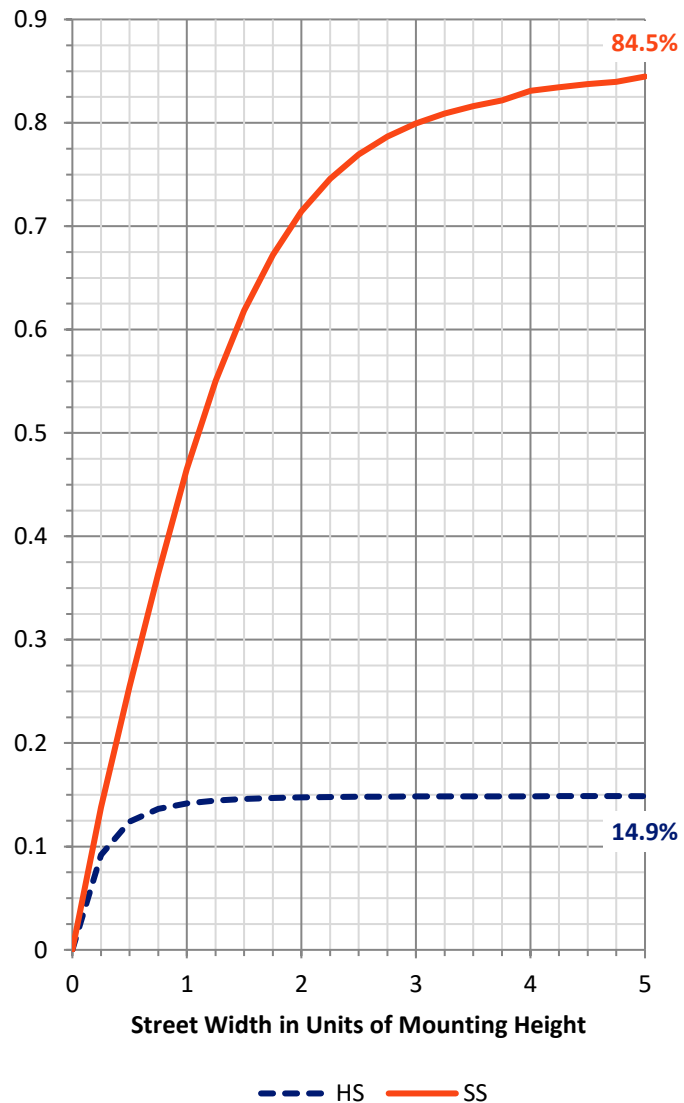
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.7	0.0	654.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3708.3	0.0	3708.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	4363.0	0.0	4363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	2.5
10°-20°	218.6	5.0
20°-30°	309.3	7.1
30°-40°	454.7	10.4
40°-50°	653.6	15.0
50°-60°	920.1	21.1
60°-70°	1074.6	24.6
70°-80°	548.2	12.6
80°-90°	72.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4363.0	100.0
0°-180°	4363.0	100.0

Coefficient of Utilization



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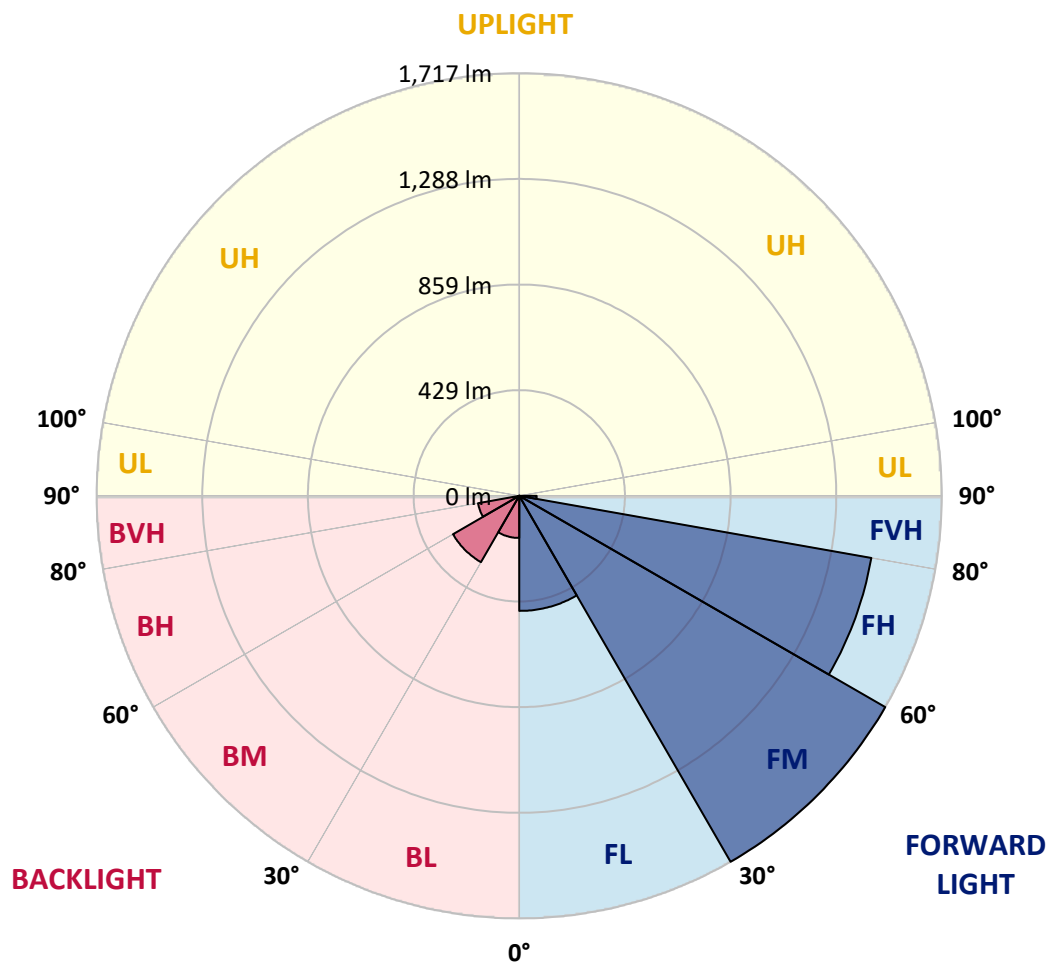
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.7	10.7			
FM	(30°-60°)	1717.2	39.4			
FH	(60°-80°)	1452.8	33.3			G1/1800
FVH	(80°-90°)	70.6	1.6			G1/100
BL	(0°-30°)	171.2	3.9	B1/500		
BM	(30°-60°)	311.2	7.1	B1/1000		
BH	(60°-80°)	170.1	3.9	B1/500		G1/500
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1586.7	1589.2	1602.0	1631.7	1664.2	1666.7	1688.6	1666.1	1658.4	1622.0	1584.4
5°	1598.7	1608.2	1652.2	1739.6	1815.5	1839.9	1857.2	1813.0	1766.5	1677.6	1582.8
7.5°	1502.2	1518.1	1587.3	1751.4	1887.0	1946.9	1958.3	1889.1	1775.2	1628.8	1486.2
10°	1378.6	1396.7	1480.2	1682.0	1868.2	1970.9	1986.6	1895.9	1732.2	1549.9	1381.9
12.5°	1278.5	1299.8	1385.2	1603.8	1803.5	1917.2	1948.2	1872.9	1695.0	1493.9	1310.6
15°	1232.4	1256.8	1346.5	1553.4	1731.8	1821.3	1846.9	1814.4	1674.3	1485.0	1294.0
17.5°	1258.9	1285.3	1377.9	1557.8	1664.4	1702.6	1723.3	1736.5	1674.3	1538.5	1342.4
20°	1367.4	1395.9	1493.9	1601.8	1608.6	1594.3	1616.4	1663.0	1693.7	1640.2	1458.5
22.5°	1517.4	1550.9	1661.5	1677.2	1581.3	1527.4	1530.3	1603.2	1729.1	1769.2	1619.8
25°	1700.4	1741.3	1853.7	1789.6	1592.7	1487.5	1486.4	1554.0	1763.6	1898.4	1799.4
27.5°	1882.0	1927.1	2025.9	1926.9	1639.6	1480.2	1478.2	1539.2	1797.3	2013.3	1995.5
30°	2034.4	2078.2	2163.3	2026.3	1690.2	1497.2	1487.3	1555.1	1817.3	2087.9	2138.5
32.5°	2158.4	2193.5	2262.3	2094.7	1744.4	1530.1	1508.6	1597.6	1851.4	2150.9	2270.0
35°	2294.8	2331.8	2359.3	2159.8	1805.1	1577.4	1546.6	1665.2	1903.9	2215.0	2414.0
37.5°	2450.4	2487.2	2483.9	2219.3	1882.2	1655.7	1636.1	1772.3	1985.6	2278.4	2574.8
40°	2602.7	2640.3	2613.5	2284.4	1972.8	1784.9	1770.4	1933.1	2094.9	2359.7	2763.3
42.5°	2745.3	2786.1	2728.6	2346.0	2080.7	1947.8	1972.6	2140.2	2231.7	2459.7	2925.8
45°	2860.3	2901.8	2825.1	2406.0	2194.3	2145.3	2220.0	2369.6	2396.3	2544.2	3035.5
47.5°	2943.8	2983.0	2892.1	2465.9	2339.8	2387.0	2517.0	2610.2	2544.9	2617.6	3113.4
50°	2997.1	3027.7	2911.7	2540.9	2530.8	2668.9	2826.4	2871.8	2684.8	2683.7	3208.1
52.5°	3031.0	3044.8	2926.2	2619.3	2730.0	2975.8	3129.4	3143.6	2828.8	2756.5	3335.6
55°	3147.7	3158.9	3028.7	2714.1	2894.8	3244.7	3403.4	3390.2	2991.9	2898.9	3486.1
57.5°	3347.0	3358.8	3240.5	2850.5	3028.1	3410.8	3602.0	3625.8	3183.1	3099.0	3647.3
60°	3447.0	3468.9	3426.8	3023.3	3157.3	3517.1	3737.4	3813.3	3422.0	3362.7	3803.5
62.5°	3356.3	3388.1	3449.3	3214.9	3285.6	3575.6	3779.6	3880.4	3666.7	3670.0	3899.9
65°	3175.2	3200.7	3304.4	3319.9	3360.0	3568.3	3675.4	3786.6	3816.6	3952.4	3894.7
67.5°	2956.6	2966.1	3054.1	3328.2	3252.1	3350.9	3362.5	3444.7	3698.1	4052.4	3738.2
70°	2641.8	2647.0	2723.8	3051.4	2794.7	2816.4	2799.3	2816.0	3179.4	3808.7	3343.3
72.5°	2126.1	2139.1	2248.5	2534.1	2036.0	1973.4	2108.1	2100.7	2448.5	3217.8	2483.1
75°	1565.4	1587.9	1753.1	2041.2	1429.0	1292.6	1391.0	1417.2	1740.7	2489.1	1552.8
77.5°	1096.0	1112.8	1272.7	1500.5	1034.2	924.3	888.7	919.9	1148.9	1800.6	782.3
80°	631.4	637.6	739.7	866.4	696.9	797.4	722.3	743.8	688.5	801.1	336.5
82.5°	413.2	414.2	454.1	515.7	434.0	504.3	373.3	477.2	423.5	321.8	109.5
85°	223.2	224.5	263.3	366.0	245.7	138.9	81.6	167.6	261.9	73.8	30.0
87.5°	24.6	22.5	79.4	133.1	68.2	12.6	4.3	18.8	42.0	4.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1565.2	1548.0	1505.3	1460.0	1423.6	1389.5	1355.2	1313.2	1280.8	1274.2	1263.4
5°	1531.7	1477.4	1387.7	1297.5	1225.0	1133.4	1075.4	1030.1	985.9	983.2	974.3
7.5°	1414.7	1343.2	1216.9	1092.3	990.2	903.0	814.9	756.0	709.7	693.4	683.7
10°	1302.3	1221.9	1064.2	922.0	830.9	753.8	691.8	630.2	574.4	535.9	518.6
12.5°	1223.8	1134.9	961.1	838.5	773.2	700.0	624.4	547.5	483.2	436.9	408.6
15°	1193.4	1098.5	926.5	805.4	724.8	632.2	535.5	447.7	376.4	334.4	309.0
17.5°	1229.5	1119.2	923.9	765.1	652.5	537.4	430.5	326.8	259.6	227.8	211.4
20°	1321.3	1184.9	922.8	715.7	566.5	424.9	291.6	214.9	174.2	156.5	148.8
22.5°	1451.1	1268.8	931.1	667.0	477.0	303.6	201.3	157.9	137.0	127.5	123.2
25°	1618.1	1386.6	954.5	622.7	392.9	226.5	156.9	132.3	117.6	110.2	107.1
27.5°	1796.1	1522.2	990.8	584.3	324.5	180.6	134.3	113.3	102.7	97.6	94.7
30°	1942.8	1679.3	1027.6	541.5	274.9	157.5	123.0	103.3	91.1	87.8	85.2
32.5°	2071.1	1798.1	1053.7	502.9	242.4	139.9	111.2	92.4	84.1	77.7	74.8
35°	2204.0	1897.1	1052.8	475.8	220.1	126.7	101.3	82.7	72.8	65.3	63.0
37.5°	2347.9	2008.9	1034.8	452.6	210.4	116.2	95.7	77.5	67.6	60.1	57.3
40°	2516.3	2126.3	1016.5	430.9	207.7	107.7	91.8	73.4	62.8	55.6	52.7
42.5°	2680.4	2232.2	1000.3	414.8	196.1	107.5	88.3	70.3	59.1	52.1	48.8
45°	2811.7	2330.7	997.2	405.1	183.9	111.2	86.4	68.2	56.2	49.2	46.1
47.5°	2920.8	2437.8	1017.1	398.3	172.4	101.5	90.9	66.8	53.5	46.7	43.2
50°	3050.6	2569.2	1063.8	387.1	160.2	91.4	104.2	67.2	51.3	44.2	40.5
52.5°	3231.7	2751.1	1132.4	368.3	143.4	82.1	102.5	67.6	48.8	41.5	37.8
55°	3434.6	2978.3	1206.2	337.1	120.1	69.9	87.8	64.7	44.0	38.6	35.1
57.5°	3647.9	3184.3	1250.0	299.9	95.5	60.4	70.3	58.9	38.9	34.7	32.4
60°	3681.4	3262.7	1230.0	254.2	75.9	52.5	52.1	59.9	34.7	30.6	28.9
62.5°	3598.1	3164.3	1133.0	213.5	63.5	46.1	42.8	52.3	31.4	27.3	25.6
65°	3437.9	2898.3	975.9	192.4	58.9	39.5	35.5	36.8	27.5	23.8	22.3
67.5°	3215.1	2543.2	801.3	180.4	58.3	33.9	30.4	27.9	23.8	20.7	19.4
70°	2759.6	2118.7	639.3	173.8	56.6	28.5	25.6	22.7	19.8	17.6	16.5
72.5°	2031.1	1501.3	497.3	166.6	57.0	22.7	22.3	18.8	15.9	13.6	13.2
75°	1173.5	857.7	326.1	135.0	54.4	17.6	18.6	13.2	11.2	9.5	9.5
77.5°	625.4	523.1	124.2	56.2	19.8	11.2	10.5	7.9	7.0	5.8	5.6
80°	272.6	230.2	37.4	15.7	11.0	6.0	3.9	3.5	3.1	2.5	2.3
82.5°	96.5	83.3	12.2	7.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	15.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1241.5	1237.0	1210.1	1211.1	1215.9	1222.7	1206.6	1214.0	1234.1	1253.3	1260.5
5°	960.0	961.1	944.7	954.9	964.0	970.2	944.1	944.5	960.4	982.1	993.5
7.5°	676.5	674.8	675.6	699.8	717.0	704.6	714.3	680.6	682.7	698.2	686.6
10°	502.9	480.1	467.3	485.5	504.3	497.5	480.7	469.8	477.4	494.6	493.3
12.5°	395.2	362.5	343.3	330.3	345.8	333.0	332.5	323.0	312.7	314.6	342.1
15°	297.2	273.4	250.7	229.8	229.4	225.1	203.0	178.2	176.1	177.3	191.6
17.5°	204.4	196.3	187.0	169.1	164.3	146.1	124.6	114.7	109.7	112.0	116.8
20°	143.6	140.5	141.6	131.9	125.0	107.7	95.1	91.1	90.3	92.6	94.9
22.5°	119.0	113.5	112.8	108.5	101.7	89.1	82.3	80.0	79.0	81.0	82.7
25°	104.2	98.6	96.3	93.6	86.4	77.7	73.6	71.5	70.5	71.7	72.8
27.5°	91.8	86.6	84.5	82.7	75.6	69.4	66.1	64.3	63.5	63.9	64.9
30°	82.5	77.9	75.2	73.0	67.0	62.6	59.7	57.9	57.0	57.0	58.1
32.5°	72.8	70.3	67.8	64.9	59.3	56.4	53.5	51.5	50.6	50.8	51.7
35°	60.6	59.7	60.4	57.7	52.9	50.4	47.5	45.3	44.6	44.8	45.7
37.5°	53.7	50.0	52.3	50.8	48.2	44.8	41.1	39.1	38.0	38.6	39.1
40°	49.4	44.8	43.2	44.6	44.2	38.9	35.5	33.5	32.7	32.9	33.3
42.5°	45.7	40.3	36.6	36.4	38.9	33.9	30.4	28.5	27.5	27.5	27.9
45°	42.2	36.4	31.8	28.3	32.7	28.7	25.4	23.8	22.5	22.5	22.7
47.5°	39.5	33.1	27.7	23.1	24.6	23.6	20.9	19.2	18.0	18.0	18.2
50°	37.0	29.8	24.0	19.4	18.4	19.4	16.9	15.1	14.3	14.1	14.5
52.5°	34.3	26.5	20.5	16.5	14.5	14.7	13.2	12.0	11.0	11.0	11.4
55°	31.6	23.8	17.8	14.1	12.0	11.0	10.5	9.7	8.9	8.9	9.3
57.5°	28.9	20.9	15.1	11.6	9.5	8.7	8.7	8.1	7.4	7.4	7.9
60°	26.5	18.0	12.4	9.5	7.4	7.2	7.4	6.8	6.4	6.4	6.8
62.5°	23.6	15.3	10.1	7.9	6.0	5.8	6.4	6.0	5.6	5.6	6.0
65°	20.0	13.0	8.1	6.0	4.5	4.5	5.4	5.0	4.5	4.5	5.0
67.5°	16.9	11.0	6.2	4.3	3.3	3.5	4.5	4.1	3.9	3.9	4.3
70°	14.1	8.5	4.3	2.7	1.9	2.7	3.5	3.5	3.5	3.5	3.9
72.5°	10.5	5.8	2.5	1.0	0.8	1.9	2.9	3.3	3.1	3.1	3.7
75°	6.8	3.3	0.8	0.0	0.0	1.0	2.3	2.7	2.7	2.5	3.1
77.5°	3.9	1.0	0.0	0.0	0.0	0.0	1.4	1.2	1.0	0.8	1.4
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1289.7	1314.1	1348.4	1384.8	1440.8	1485.2	1528.8	1566.2	1580.7	1586.7
5°	1020.8	1056.6	1106.8	1171.3	1272.3	1363.3	1455.4	1548.2	1588.5	1598.7
7.5°	732.5	778.2	842.0	922.8	1041.3	1159.1	1287.8	1424.0	1486.4	1502.2
10°	542.1	597.9	671.1	756.2	869.3	990.4	1130.7	1286.4	1357.7	1378.6
12.5°	384.6	460.1	558.0	661.6	759.6	867.6	1009.6	1181.2	1256.0	1278.5
15°	225.9	298.9	414.8	553.5	678.9	788.5	932.7	1127.2	1209.7	1232.4
17.5°	129.6	166.0	253.6	408.2	578.5	730.2	908.6	1140.7	1237.8	1258.9
20°	99.0	110.6	146.1	262.9	461.1	673.0	908.6	1216.7	1336.4	1367.4
22.5°	86.6	95.1	109.5	156.9	339.4	611.6	919.1	1326.7	1483.1	1517.4
25°	76.9	84.5	96.9	118.0	231.5	538.6	944.1	1461.6	1655.9	1700.4
27.5°	68.8	76.1	87.2	103.3	158.3	450.6	977.8	1620.0	1846.5	1882.0
30°	61.6	68.4	78.5	89.9	122.1	350.7	1006.5	1769.2	1996.1	2034.4
32.5°	54.8	61.0	70.1	78.5	100.0	259.4	1009.6	1887.4	2120.3	2158.4
35°	48.4	53.9	62.2	68.8	82.9	204.8	961.5	1989.9	2244.6	2294.8
37.5°	42.2	47.5	54.8	59.7	73.0	167.0	887.9	2104.2	2403.9	2450.4
40°	36.4	41.1	48.6	51.9	69.0	128.3	807.9	2224.1	2560.2	2602.7
42.5°	31.0	35.5	42.8	49.2	60.6	95.9	721.5	2336.5	2700.7	2745.3
45°	25.8	30.6	37.8	52.1	50.2	71.7	629.1	2411.1	2811.7	2860.3
47.5°	20.9	26.2	36.2	49.6	40.1	52.7	556.0	2481.8	2895.8	2943.8
50°	16.7	22.1	40.7	44.2	32.9	40.3	525.4	2545.1	2951.0	2997.1
52.5°	13.6	18.6	38.4	33.9	27.5	33.3	541.9	2647.6	3002.0	3031.0
55°	11.4	14.7	23.1	23.6	23.4	28.3	562.4	2794.7	3134.1	3147.7
57.5°	9.9	11.8	16.1	18.2	19.6	25.2	562.8	3006.0	3338.5	3347.0
60°	8.5	10.3	13.4	14.7	16.9	22.5	542.3	3079.7	3418.9	3447.0
62.5°	7.4	9.1	11.2	12.2	14.3	20.3	494.4	2972.9	3308.5	3356.3
65°	6.6	8.3	9.3	10.3	12.6	18.2	415.4	2759.2	3125.4	3175.2
67.5°	5.8	7.2	8.3	9.3	11.4	16.1	305.9	2511.0	2915.2	2956.6
70°	5.2	6.4	7.4	8.3	9.9	13.6	185.6	2130.7	2624.6	2641.8
72.5°	5.0	5.8	6.8	7.4	8.7	12.0	94.0	1565.8	2098.2	2126.1
75°	4.3	5.2	6.2	6.6	7.6	10.3	38.2	1028.4	1520.5	1565.4
77.5°	3.5	4.8	5.6	6.0	6.6	8.5	19.4	657.2	1067.1	1096.0
80°	1.2	3.5	4.8	5.0	5.6	6.2	12.8	359.8	619.0	631.4
82.5°	0.0	2.3	3.7	3.5	3.9	4.8	8.3	171.1	408.6	413.2
85°	0.0	1.0	2.9	2.3	1.7	3.3	2.9	37.4	214.3	223.2
87.5°	0.0	0.0	0.2	1.0	0.8	1.2	0.4	0.2	19.4	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

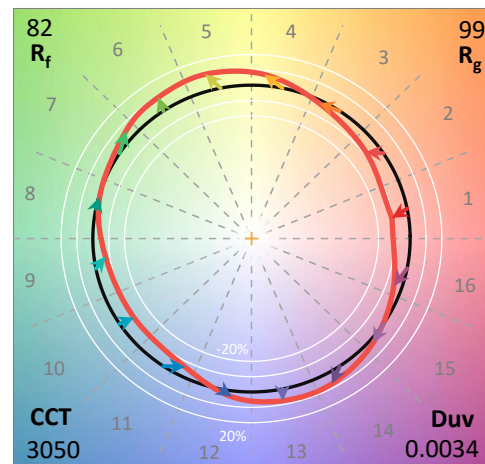
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

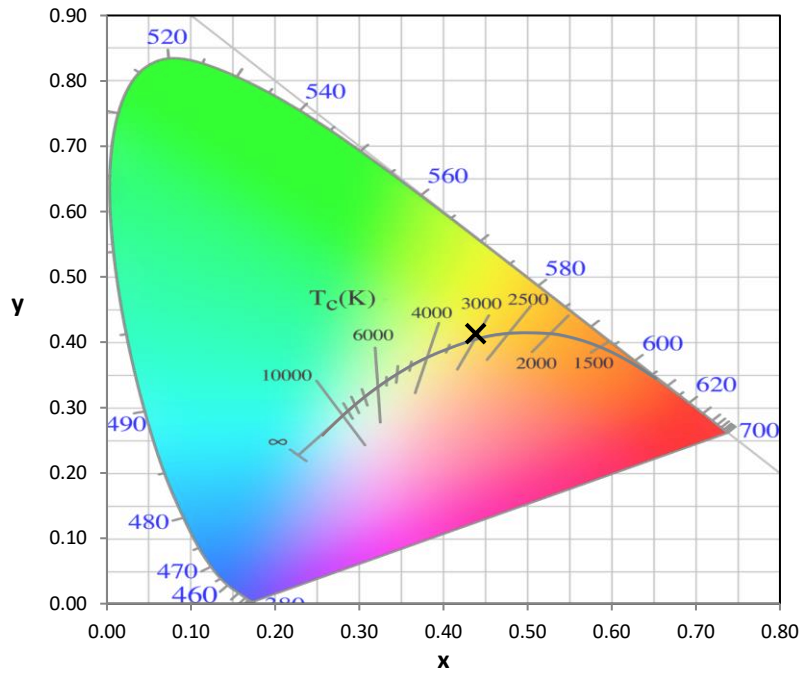
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

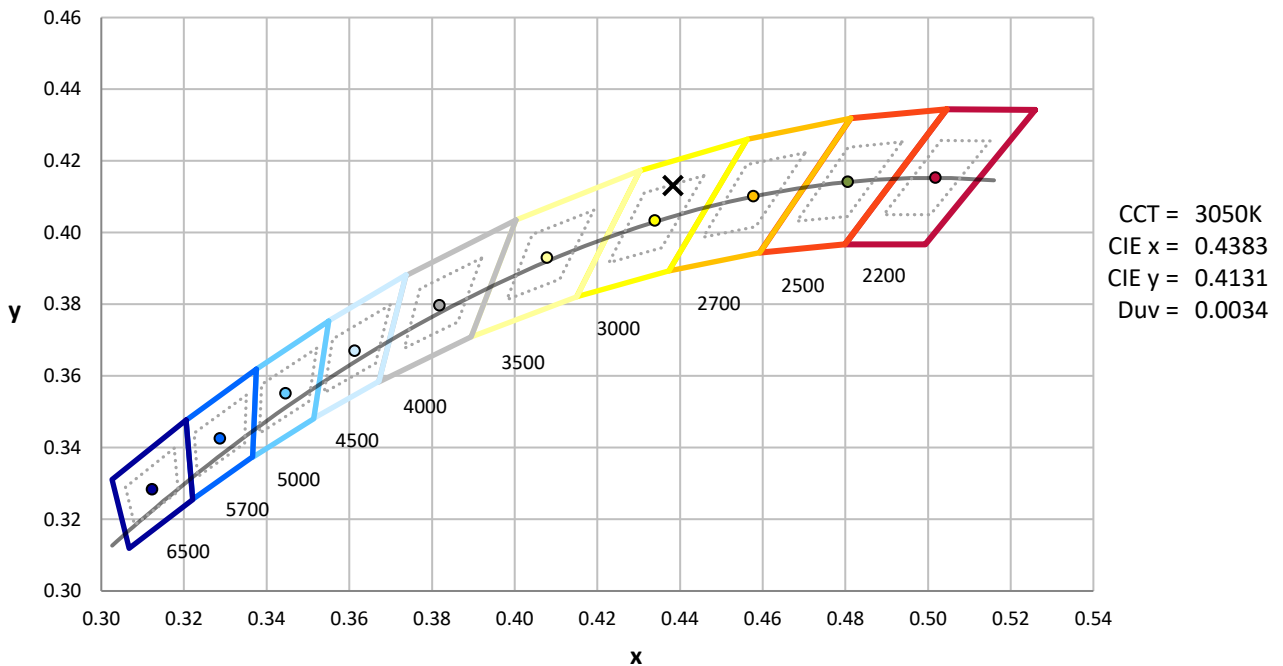
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



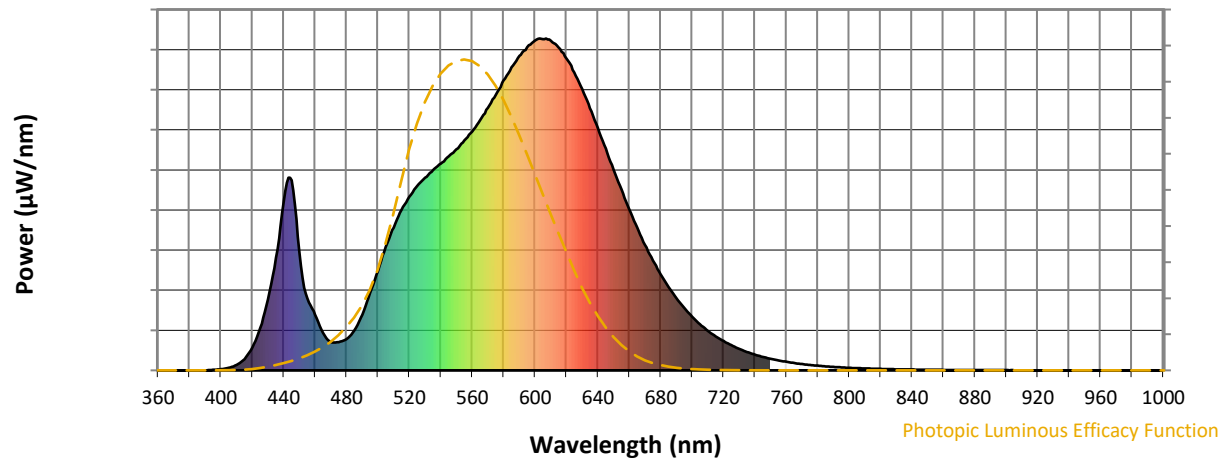
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

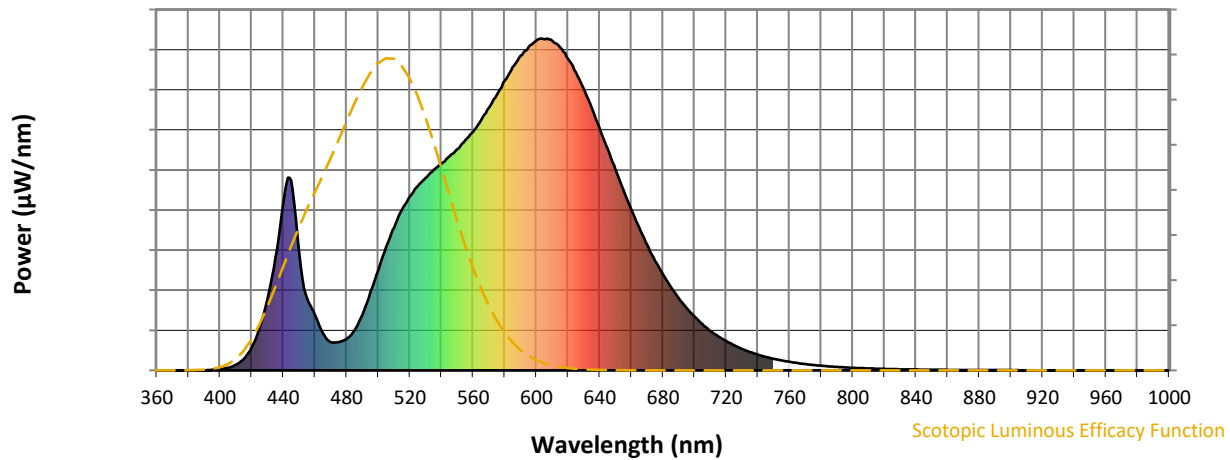


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



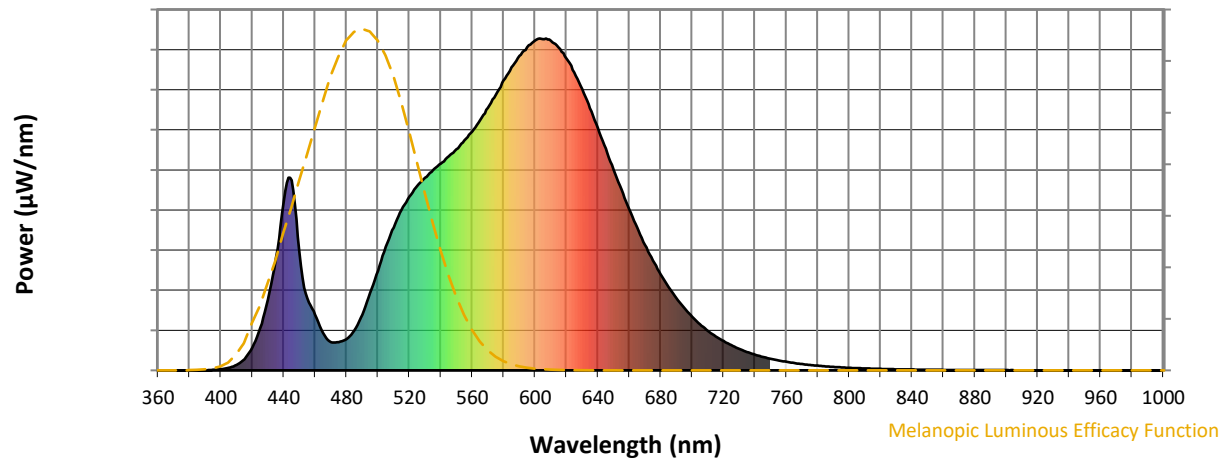
Scotopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

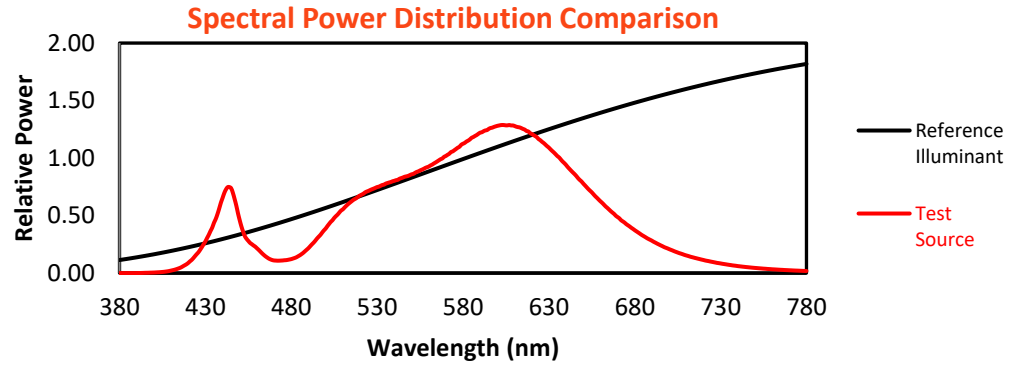
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

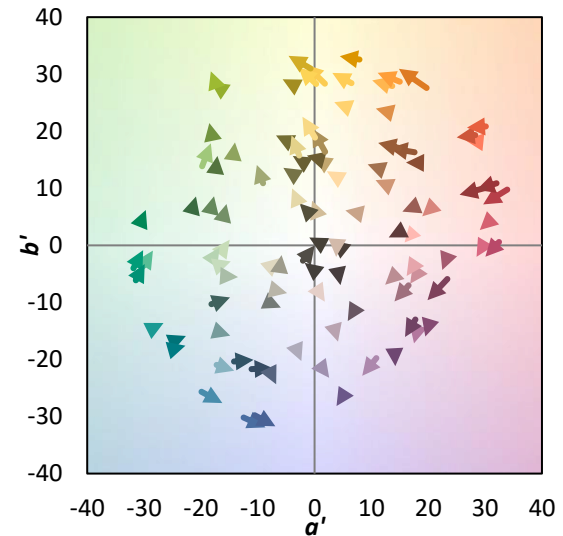
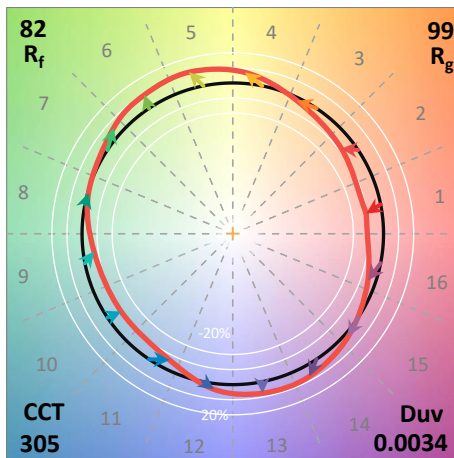
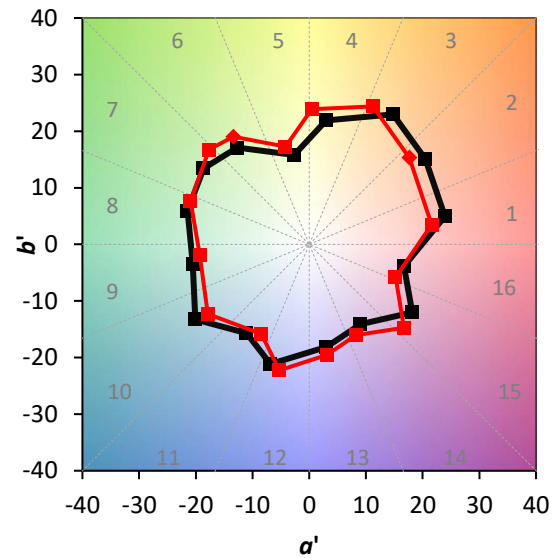
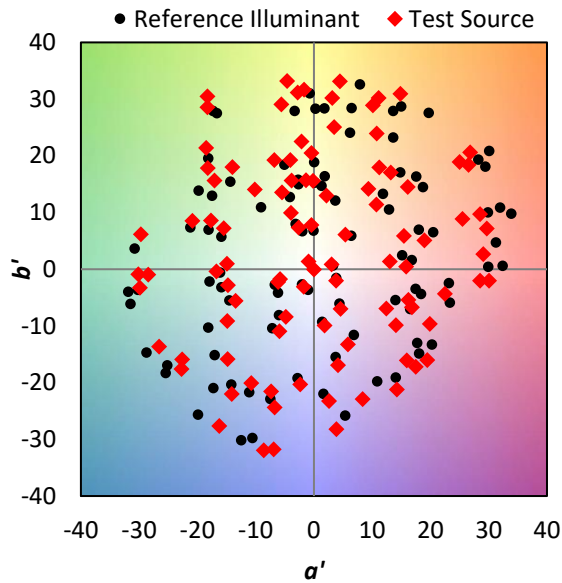
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

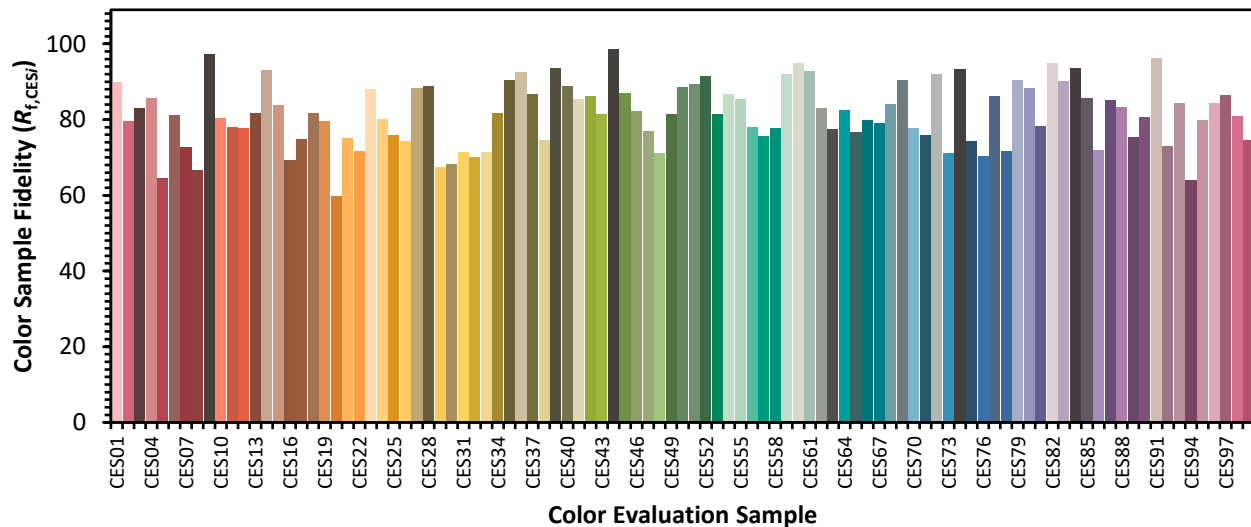


Color Vector Graphics

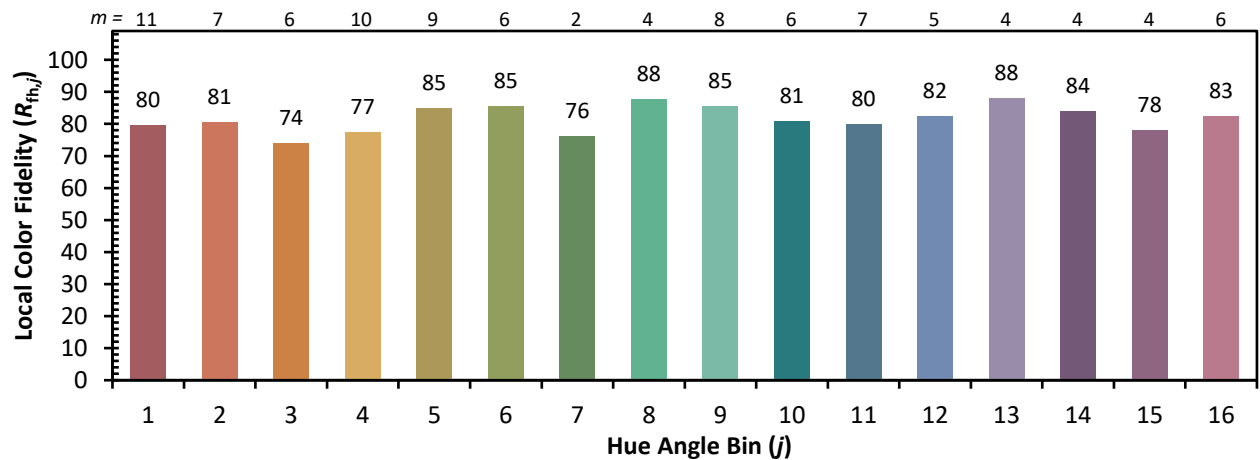
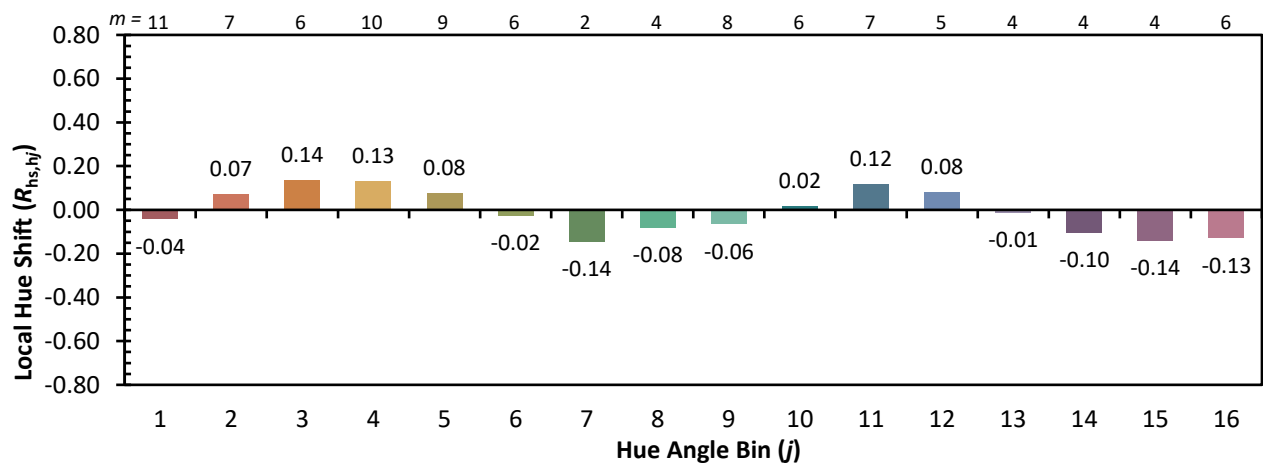
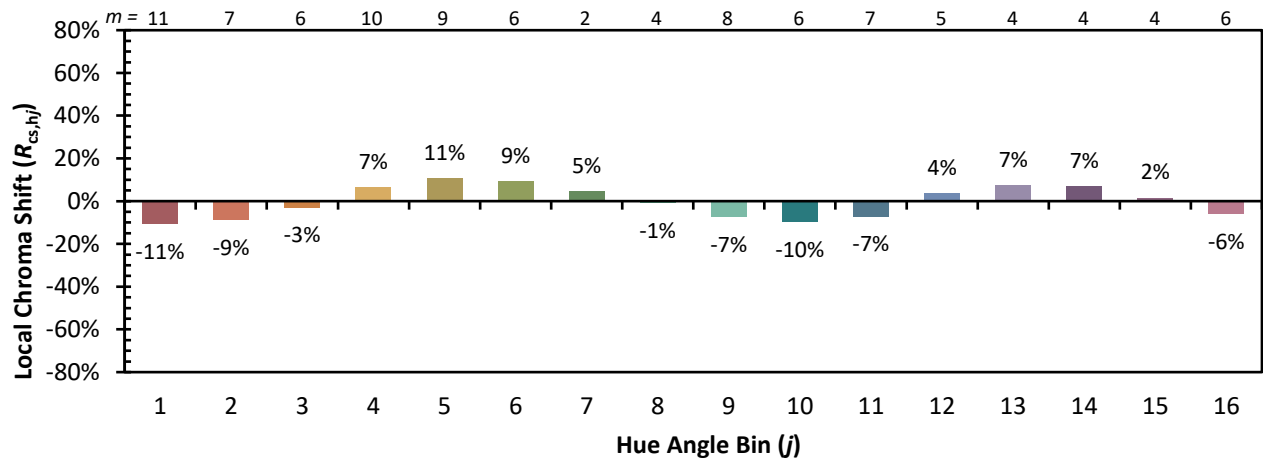


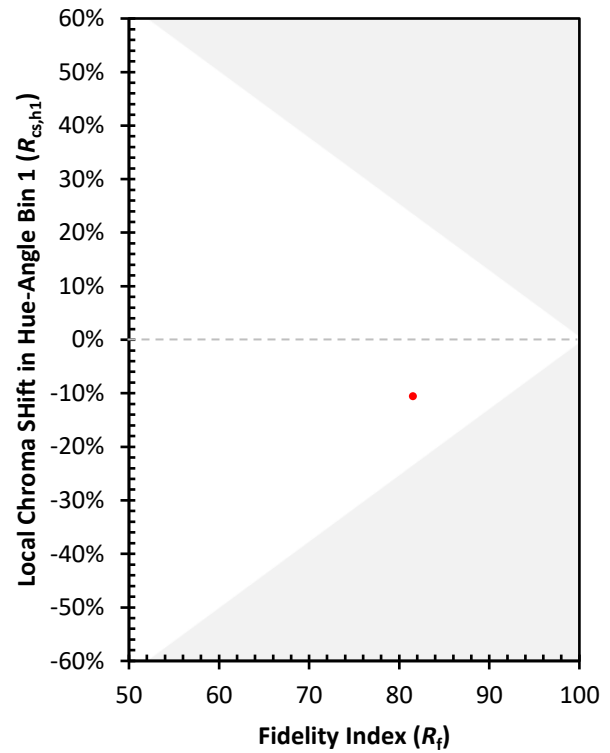
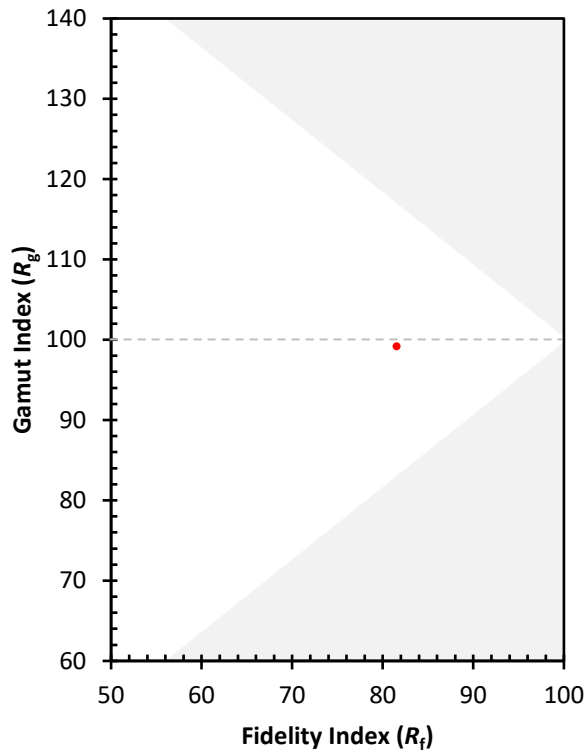
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)