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

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: P386504

Luminaire Tested: **GPC-SA2A-830-U-SLR-HSS**

Issue Date: 3/3/2020

Report Generated By 670245982

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P386504
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2A-830-U-SLR-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5729 lumens
Efficiency:	N/A
Efficacy:	86.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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:	28.75 FT

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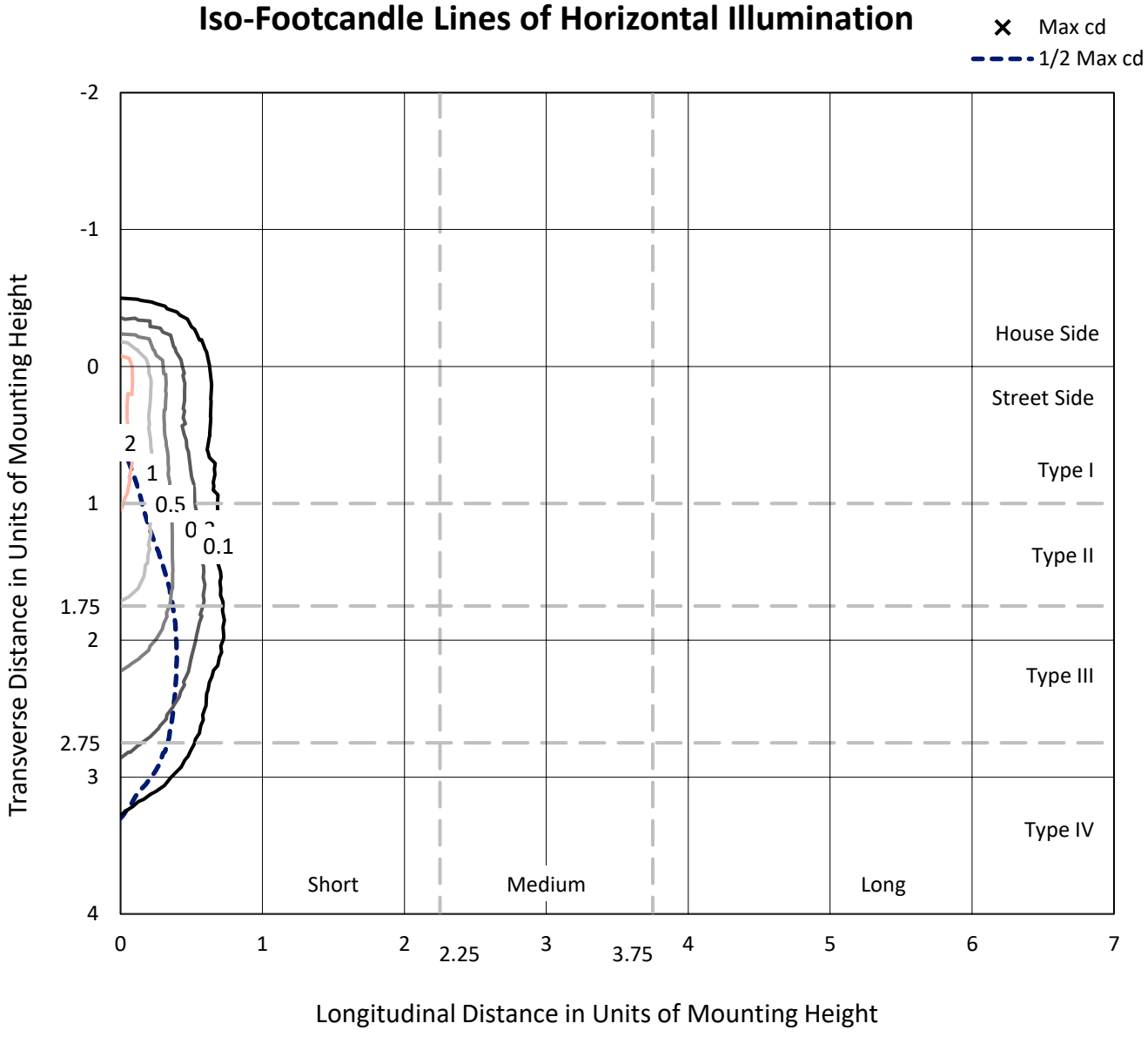
Iso-Footcandle Lines of Horizontal Illumination



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

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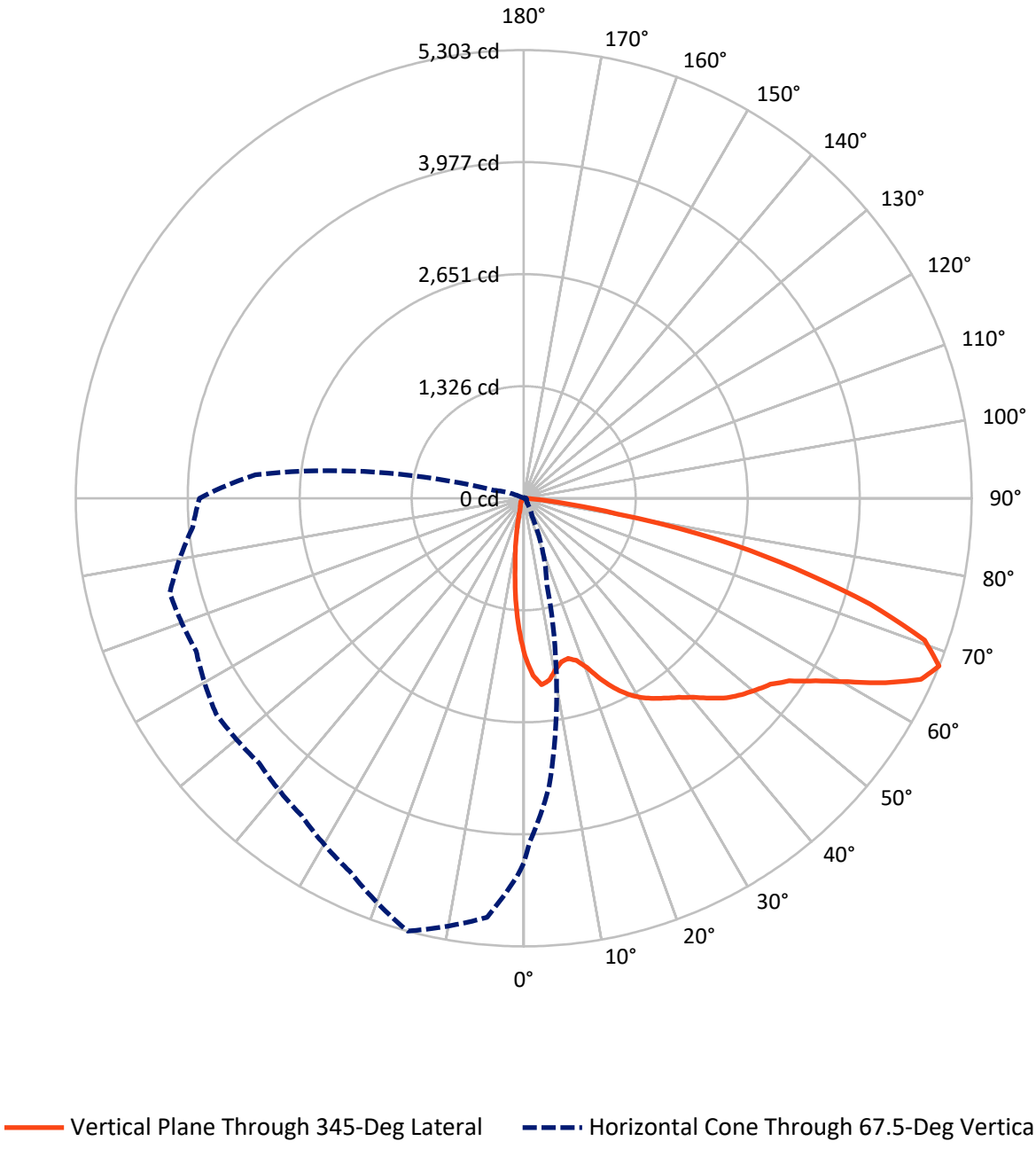
Luminous Intensity Polar Plot



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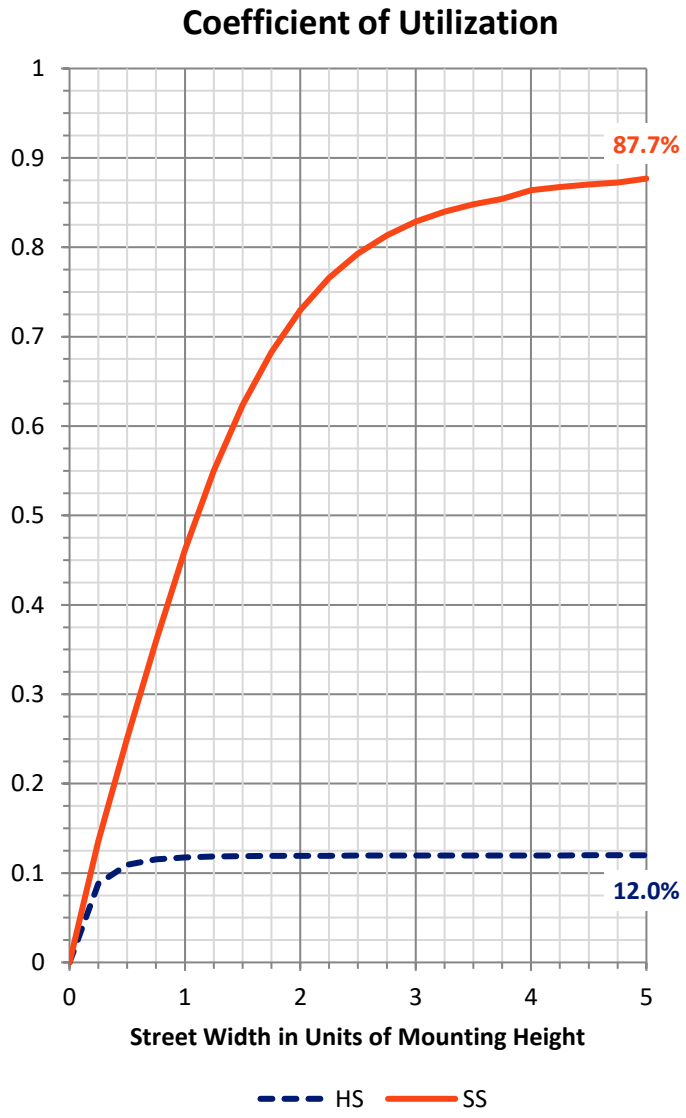
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.4	0.0	693.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5035.6	0.0	5035.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	5729.0	0.0	5729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	2.5
10°-20°	285.1	5.0
20°-30°	404.8	7.1
30°-40°	598.0	10.4
40°-50°	862.4	15.1
50°-60°	1210.6	21.1
60°-70°	1411.2	24.6
70°-80°	721.5	12.6
80°-90°	92.1	1.6
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°	5729.0	100.0
0°-180°	5729.0	100.0



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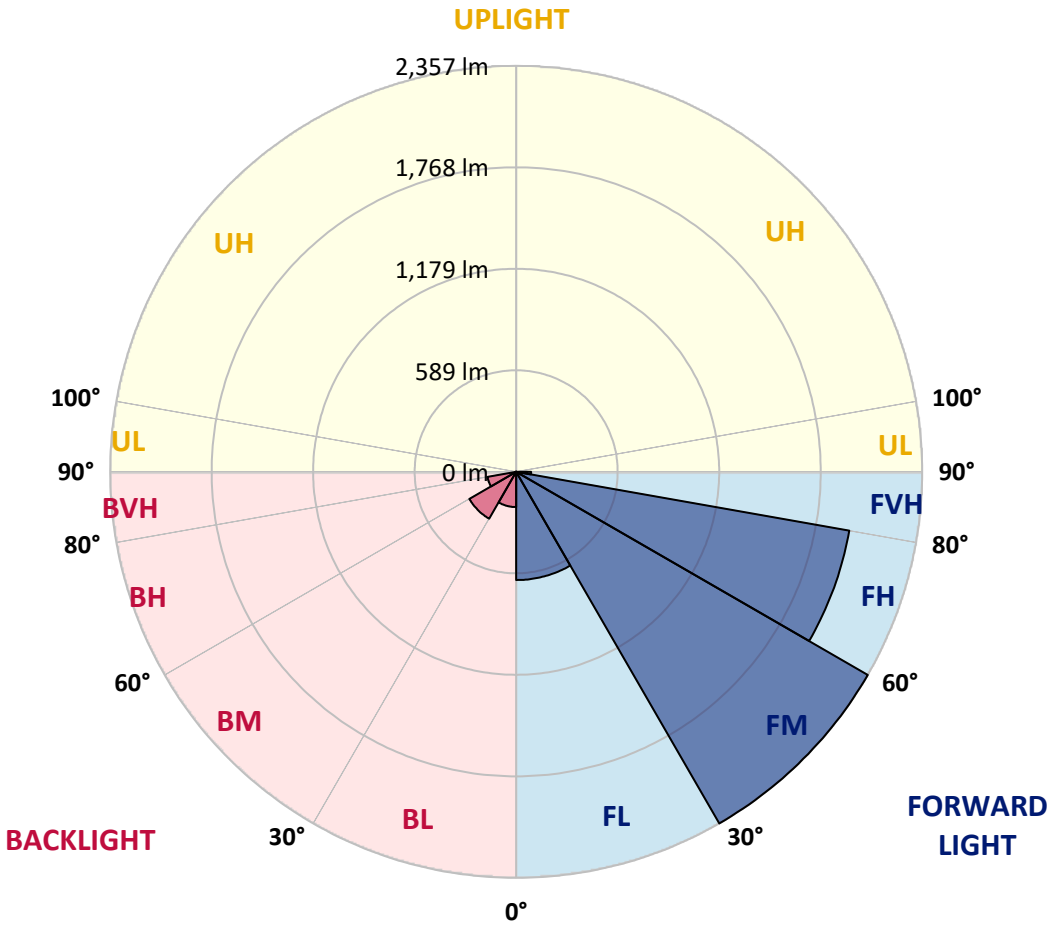
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	628.4	11.0			
FM	(30°-60°)	2357.0	41.1			
FH	(60°-80°)	1963.7	34.3			G2/5000
FVH	(80°-90°)	86.5	1.5			G1/100
BL	(0°-30°)	204.8	3.6	B1/500		
BM	(30°-60°)	314.0	5.5	B1/1000		
BH	(60°-80°)	169.0	2.9	B1/500		G1/500
BVH	(80°-90°)	5.6	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-G2
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2
2.5°	2043.4	2027.7	2010.3	1953.6	1901.0	1840.7	1791.6	1757.4	1714.5	1658.9	1644.7
5°	2028.8	2012.0	1957.4	1831.2	1720.7	1613.3	1509.6	1448.8	1373.3	1296.8	1277.8
7.5°	1881.4	1863.8	1785.1	1612.2	1463.4	1308.2	1173.6	1090.3	1005.0	935.0	897.8
10°	1728.1	1708.8	1620.3	1410.5	1227.3	1087.0	988.2	908.7	828.1	753.2	693.5
12.5°	1622.5	1597.2	1501.2	1263.4	1103.8	1008.6	916.3	821.0	711.9	631.6	565.9
15°	1578.2	1549.5	1448.0	1206.7	1060.1	948.3	828.1	711.1	583.3	491.3	431.0
17.5°	1612.4	1575.0	1466.2	1202.9	1005.3	853.0	701.1	563.7	425.0	331.9	289.1
20°	1728.6	1679.5	1541.3	1201.8	938.8	739.9	547.2	391.9	280.1	225.3	202.7
22.5°	1911.5	1846.7	1649.4	1210.5	870.1	621.0	395.2	266.3	210.3	181.8	168.5
25°	2132.5	2057.3	1804.9	1241.2	809.9	505.4	287.2	210.3	177.5	156.6	145.5
27.5°	2342.5	2281.5	2001.4	1285.4	763.2	412.0	233.1	178.3	151.7	137.9	128.9
30°	2552.3	2475.5	2203.0	1338.0	707.0	348.8	204.9	162.6	136.0	121.3	115.6
32.5°	2704.9	2641.1	2361.0	1376.0	647.0	307.5	183.2	148.7	127.0	112.1	103.7
35°	2884.3	2812.1	2496.4	1384.5	608.5	281.5	164.7	133.8	110.2	96.9	87.9
37.5°	3078.1	2988.2	2652.8	1366.0	578.4	268.7	150.9	127.0	102.9	89.3	79.8
40°	3292.5	3191.0	2802.8	1339.4	548.8	264.4	140.3	121.9	97.2	83.3	73.6
42.5°	3518.3	3398.6	2932.9	1311.5	530.1	249.4	139.2	116.7	92.8	77.9	68.1
45°	3708.0	3586.7	3066.4	1302.2	516.8	233.1	143.8	113.2	89.8	73.6	64.1
47.5°	3859.2	3744.4	3203.2	1322.8	509.2	218.2	131.1	117.8	88.2	69.8	60.5
50°	4039.7	3909.7	3395.9	1384.5	498.0	203.3	118.6	134.9	88.2	67.3	57.5
52.5°	4266.0	4137.4	3610.8	1480.0	475.8	182.7	106.7	135.2	89.0	64.1	53.7
55°	4550.7	4457.4	3917.8	1584.8	440.2	152.3	92.3	116.2	85.8	58.1	50.2
57.5°	4823.8	4747.5	4197.6	1656.4	392.7	118.9	80.3	93.6	78.4	51.0	44.8
59°	4898.4	4815.1	4300.2	1659.7	357.2	103.7	74.4	77.4	76.8	47.8	41.5
60°	4898.4	4809.9	4329.8	1642.3	331.4	95.3	70.6	68.9	80.1	45.6	39.6
62.5°	4809.6	4685.3	4233.7	1524.8	270.3	81.2	61.6	57.0	71.9	41.0	35.0
65°	4625.1	4444.1	3906.4	1312.3	241.0	74.4	53.2	46.7	49.9	36.1	30.7
67.5°	*4317.3*	*4072.0*	*3434.4*	*1060.1*	*229.3*	*72.5*	*45.9*	*39.6*	*37.7*	*30.9*	*26.9*
70°	3775.3	3503.1	2861.5	833.5	219.3	71.7	38.5	33.4	30.4	26.1	22.8
72.5°	2747.7	2463.9	2031.5	651.7	213.3	73.3	30.9	28.0	25.0	20.4	17.6
75°	1571.7	1385.8	1141.8	430.5	181.8	70.0	23.9	23.3	17.9	14.7	12.2
77.5°	812.1	787.4	684.2	165.3	87.1	30.7	15.7	13.6	10.6	9.0	7.3
80°	350.4	346.6	299.9	47.8	23.1	17.1	9.0	5.7	4.9	3.8	3.0
82.5°	121.0	121.0	106.7	16.0	10.3	8.4	1.1	0.0	0.0	0.0	0.0
85°	24.4	27.4	19.3	0.0	3.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2
2.5°	1627.6	1594.8	1592.6	1572.0	1546.2	1534.5	1527.8	1539.7	1554.4	1556.0	1578.0
5°	1263.4	1228.9	1243.3	1206.7	1214.0	1206.7	1194.7	1196.9	1203.4	1183.1	1208.3
7.5°	887.2	861.2	877.7	868.0	881.0	886.2	878.8	868.0	835.9	832.1	854.1
10°	668.8	639.2	621.5	603.1	607.1	615.6	612.8	605.0	584.6	585.7	606.9
12.5°	537.4	504.3	469.3	423.9	412.8	419.1	412.8	408.2	388.7	390.3	409.0
15°	407.7	380.5	343.9	307.5	287.7	289.6	272.2	260.0	247.8	233.1	244.5
17.5°	275.2	258.7	247.8	236.9	213.3	207.9	185.9	162.3	153.1	146.3	151.2
20°	194.9	185.9	181.6	181.0	167.5	160.7	139.2	124.6	120.0	118.6	121.6
22.5°	162.8	156.3	150.1	146.6	139.8	131.9	115.6	108.3	105.0	103.4	105.6
25°	141.7	136.8	130.3	124.3	121.6	113.2	101.5	96.1	93.9	92.3	93.4
27.5°	125.9	121.6	114.0	110.2	108.0	100.7	90.7	86.3	84.4	83.9	83.6
30°	113.4	109.4	102.3	98.0	94.2	87.7	81.7	77.4	75.5	74.9	74.4
32.5°	101.0	97.7	93.1	88.8	84.7	78.7	73.6	70.0	67.0	66.5	66.2
35°	85.2	82.0	79.5	79.3	75.5	69.8	66.0	61.3	58.9	58.1	58.4
37.5°	75.7	71.4	66.0	67.9	66.8	62.7	57.5	52.9	50.5	49.9	49.9
40°	69.8	65.1	58.9	55.6	58.9	58.1	49.9	45.3	42.9	42.6	42.1
42.5°	64.1	59.4	52.4	47.0	48.6	51.0	43.2	38.8	36.4	35.8	35.0
45°	60.0	55.1	47.2	41.0	37.7	42.9	36.9	31.5	30.1	29.0	28.5
47.5°	56.2	51.6	42.6	35.6	30.1	30.9	29.6	25.8	24.2	23.1	22.8
50°	52.9	48.0	38.5	30.4	25.0	22.8	23.9	20.4	19.0	17.9	17.4
52.5°	49.1	44.5	34.2	26.3	20.9	17.9	18.2	16.0	14.7	13.8	13.6
55°	46.1	41.5	30.7	23.1	18.5	14.7	13.0	12.5	11.7	11.1	10.9
57.5°	42.1	37.7	27.1	19.5	15.7	11.9	10.0	10.0	9.8	9.2	9.0
59°	39.6	35.8	25.0	17.6	14.4	10.3	9.0	9.2	9.0	8.4	8.1
60°	37.7	34.2	23.3	16.3	13.6	9.5	8.1	8.7	8.4	7.9	7.6
62.5°	33.4	30.9	20.1	13.6	11.9	7.6	6.8	7.3	7.3	7.1	6.8
65°	29.3	26.6	17.1	11.4	11.1	6.5	5.4	6.5	6.8	6.2	5.7
67.5°	*25.5*	*22.8*	*14.9*	*9.2*	*10.3*	*5.2*	*4.1*	*5.4*	*7.3*	*5.7*	*5.2*
70°	21.7	19.0	11.7	7.3	10.9	3.5	3.3	4.9	8.7	6.2	4.9
72.5°	16.8	14.7	8.1	5.4	11.7	2.4	2.4	4.1	9.8	6.8	4.6
75°	11.7	9.5	4.9	3.3	9.5	1.6	1.6	3.8	9.2	6.2	4.3
77.5°	6.8	5.2	1.6	0.3	4.9	0.0	0.3	2.7	6.5	3.8	1.9
80°	2.4	1.1	0.0	0.0	3.0	0.0	0.0	0.0	0.5	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2
2.5°	1583.7	1620.3	1653.2	1702.8	1761.7	1829.6	1887.9	1950.6	2009.5	2033.9	2050.8
5°	1213.5	1258.8	1311.7	1384.7	1481.9	1601.6	1713.7	1840.4	1976.7	2044.8	2108.9
7.5°	857.9	904.1	969.7	1047.4	1164.9	1307.4	1453.9	1629.0	1813.6	1921.3	2027.4
10°	616.9	673.6	735.0	841.1	960.5	1095.7	1246.6	1442.0	1647.7	1767.1	1895.0
12.5°	419.9	484.5	577.3	696.2	836.5	968.9	1100.0	1286.5	1525.3	1643.7	1780.7
15°	251.9	287.7	385.9	523.5	695.6	860.6	1004.2	1191.2	1445.8	1590.7	1733.2
17.5°	155.2	171.8	225.3	338.2	518.9	727.6	924.4	1158.9	1457.2	1633.6	1786.1
20°	123.8	130.3	147.4	199.8	343.9	581.1	834.6	1152.4	1550.3	1767.4	1931.1
22.5°	107.5	113.7	125.1	145.2	216.3	435.1	749.4	1158.4	1683.8	1968.0	2159.1
25°	94.7	100.2	111.0	127.6	158.5	306.4	658.2	1185.0	1857.8	2216.9	2419.9
27.5°	84.7	89.3	99.3	114.5	136.0	213.9	554.8	1217.3	2064.1	2471.5	2671.8
30°	75.5	79.5	88.5	102.6	118.1	164.5	441.3	1239.3	2270.6	2671.8	2851.7
32.5°	67.6	70.6	78.7	90.7	102.6	131.1	335.5	1235.7	2424.0	2838.4	2981.2
35°	59.4	62.4	69.5	79.8	89.3	108.3	263.8	1169.8	2557.5	3011.3	3129.4
37.5°	50.5	54.3	61.1	70.3	76.8	95.3	213.3	1090.3	2692.9	3208.9	3294.6
40°	42.9	46.7	52.7	62.7	66.8	90.4	163.9	993.4	2845.2	3429.8	3475.9
42.5°	35.6	39.1	45.3	54.0	63.0	77.9	121.3	882.6	2991.5	3618.7	3641.2
45°	28.8	32.3	38.8	47.5	67.3	64.6	93.9	764.0	3109.5	3775.8	3783.2
47.5°	22.8	26.1	32.8	44.8	62.7	51.6	67.0	670.9	3208.6	3898.5	3879.3
50°	17.6	20.4	27.4	51.3	54.8	42.6	50.8	640.0	3297.4	3974.5	3924.6
52.5°	13.8	16.3	22.5	48.0	42.6	35.3	42.6	669.0	3418.9	4037.5	3950.1
55°	11.1	13.6	17.6	27.4	29.0	29.9	36.4	696.2	3628.7	4185.1	4100.7
57.5°	9.2	11.7	14.4	19.3	22.0	25.2	32.3	699.2	3876.0	4430.5	4350.7
59°	8.4	10.6	13.0	17.1	19.3	23.1	30.4	682.9	3963.1	4519.8	4479.9
60°	7.9	10.0	12.2	15.7	17.9	21.7	29.3	667.4	3966.9	4516.5	4535.0
62.5°	6.8	9.0	10.9	13.3	15.2	18.5	26.3	610.1	3806.2	4368.6	4501.9
65°	6.0	7.9	9.8	11.4	13.0	16.6	23.9	505.6	3531.9	4130.0	4275.2
67.5°	*5.4*	*6.8*	*9.0*	*10.0*	*11.7*	*14.7*	*21.2*	*360.4*	*3189.1*	*3838.3*	*3932.5*
70°	4.9	6.5	8.1	9.2	10.6	12.8	18.2	207.1	2692.9	3411.1	3478.1
72.5°	4.6	6.2	7.3	8.7	9.5	11.4	16.6	97.4	1971.8	2732.5	2907.6
75°	4.1	5.7	6.8	8.1	9.0	10.3	14.1	46.7	1311.5	1977.5	2176.4
77.5°	2.4	4.6	6.2	7.3	7.9	9.0	11.7	26.9	837.0	1368.7	1612.2
80°	0.0	1.6	4.6	6.2	6.8	7.6	9.0	21.2	447.8	781.9	938.5
82.5°	0.0	0.0	3.3	4.9	4.6	5.2	6.8	13.3	201.9	511.1	575.9
85°	0.0	0.0	1.1	3.8	3.3	2.4	4.6	4.6	44.2	258.7	322.7
87.5°	0.0	0.0	0.0	0.3	1.6	1.1	1.9	0.5	0.3	19.3	78.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P386504
CATALOG NUMBER: GPC-SA2A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1866.2	1866.2	1866.2	1866.2	1866.2	1866.2	*1866.2*	1866.2	1866.2	1866.2
2.5°	2109.7	2129.7	2163.7	2179.7	2171.8	2138.4	*2098.5*	2057.8	2033.9	2043.4
5°	2239.4	2342.8	2402.5	2422.3	2389.2	2314.3	*2216.3*	2087.1	2041.3	2028.8
7.5°	2239.4	2434.0	2557.2	2578.9	2505.1	2358.3	*2174.5*	1972.9	1905.8	1881.4
10°	2160.7	2425.6	2597.4	2631.9	2528.7	2309.2	*2063.0*	1832.8	1753.3	1728.1
12.5°	2071.9	2357.2	2538.2	2585.7	2501.0	2260.3	*1985.6*	1738.1	1644.5	1622.5
15°	2017.4	2273.1	2422.9	2457.3	2421.5	2231.8	*1967.2*	1709.6	1599.4	1578.2
17.5°	2036.9	2207.9	2261.9	2282.0	2306.2	2221.8	*2017.4*	1772.0	1632.5	1612.4
20°	2110.5	2139.2	2111.3	2136.5	2201.7	2231.5	*2137.1*	1922.9	1755.5	1728.6
22.5°	2235.3	2103.7	2025.3	2035.3	2114.6	2263.8	*2320.0*	2138.4	1945.2	1911.5
25°	2380.8	2132.5	1977.5	1968.5	2050.0	2306.4	*2487.2*	2372.9	2169.6	2132.5
27.5°	2563.7	2197.1	1967.7	1958.8	2027.4	2346.3	*2626.2*	2604.7	2406.0	2342.5
30°	2704.9	2260.6	1996.8	1976.1	2050.0	2374.0	*2737.7*	2801.5	2594.4	2552.3
32.5°	2806.1	2335.5	2044.0	2014.1	2113.5	2421.8	*2823.7*	2981.7	2768.6	2704.9
35°	2883.2	2416.9	2120.3	2071.1	2200.9	2494.3	*2904.4*	3173.6	2954.0	2884.3
37.5°	2955.4	2531.2	2239.4	2180.8	2337.9	2611.0	*2989.6*	3391.3	3161.4	3078.1
40°	3056.1	2660.6	2423.1	2371.0	2568.3	2770.0	*3096.0*	3618.2	3397.2	3292.5
42.5°	3156.8	2799.6	2611.2	2625.3	2855.8	2963.2	*3233.3*	3858.1	3630.1	3518.3
45°	3248.8	2942.9	2879.1	2944.2	3122.6	3175.2	*3369.8*	3996.8	3816.0	3708.0
47.5°	3330.7	3122.0	3145.4	3318.8	3426.0	3367.1	*3471.9*	4116.5	3954.4	3859.2
50°	3426.0	3353.8	3496.3	3741.7	3775.3	3540.8	*3564.7*	4258.1	4116.2	4039.7
52.5°	3530.2	3598.1	3885.0	4101.3	4090.4	3729.4	*3658.1*	4416.9	4337.9	4266.0
55°	3648.6	3795.4	4227.2	4437.8	4428.6	3940.1	*3812.8*	4613.1	4615.9	4550.7
57.5°	3824.2	3965.3	4459.5	4710.0	4725.5	4183.2	*4074.9*	4833.0	4867.2	4823.8
59°	3950.1	4075.5	4551.5	4823.8	4886.7	4371.3	*4266.6*	4960.5	4938.0	4898.4
60°	4043.5	4145.5	4597.1	4883.2	4980.4	4498.9	*4408.0*	5035.5	4946.4	4898.4
62.5°	4274.4	4298.0	4679.4	4950.5	5088.1	4782.2	*4805.8*	5163.0	4888.1	4809.6
65°	4382.2	4394.4	4678.3	4830.0	4983.9	5002.9	*5166.8*	5166.8	4745.6	4625.1
67.5°	*4337.1*	*4278.2*	*4446.2*	*4430.5*	*4584.1*	*4871.8*	*5302.5*	*4977.4*	*4473.1*	*4317.3*
70°	3970.7	3744.1	3669.5	3676.2	3793.8	4237.5	*5033.8*	4419.9	3957.4	3775.3
72.5°	3303.9	2760.2	2575.9	2786.3	2817.0	3256.6	*4289.9*	3328.6	2918.5	2747.7
75°	2657.4	1945.7	1646.1	1868.1	1920.2	2383.2	*3318.5*	2073.0	1704.7	1571.7
77.5°	1909.1	1396.7	1181.2	1165.7	1233.0	1511.5	*2354.7*	1043.3	870.1	812.1
80°	1084.6	919.3	989.8	933.9	967.8	945.0	*1118.7*	457.6	374.8	350.4
82.5°	654.6	543.4	588.4	489.9	619.9	539.8	*431.0*	146.6	127.3	121.0
85°	425.8	296.9	154.7	103.7	213.6	345.0	*96.4*	39.9	30.7	24.4
87.5°	146.8	75.7	7.6	3.3	22.8	64.3	*3.5*	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

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

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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

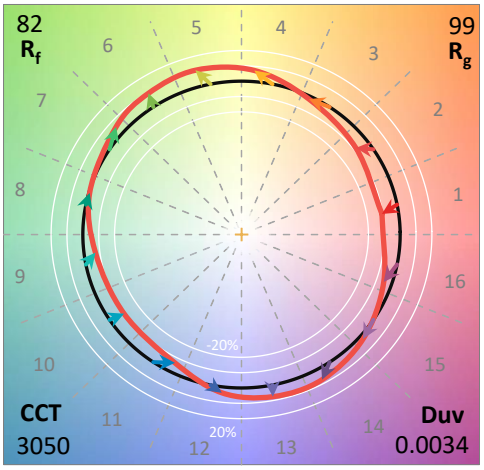
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

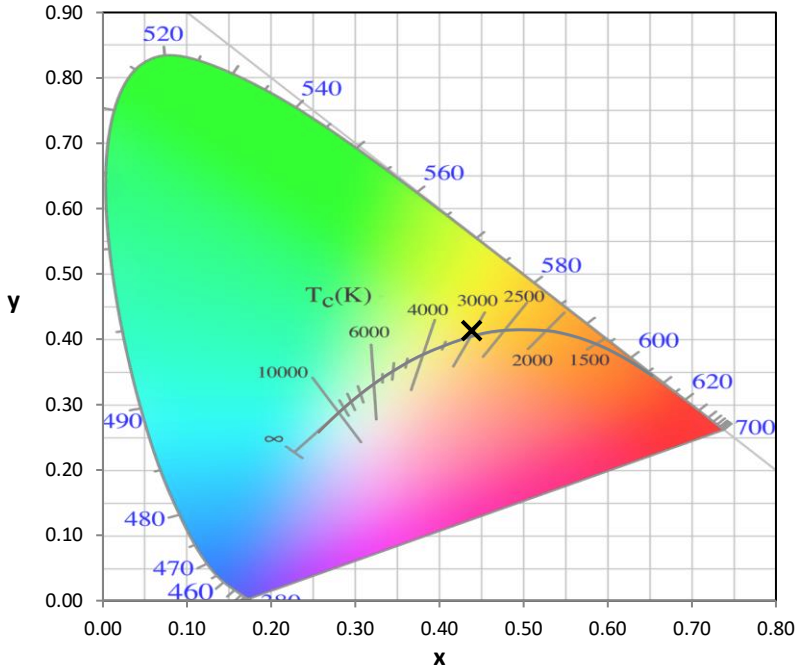
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

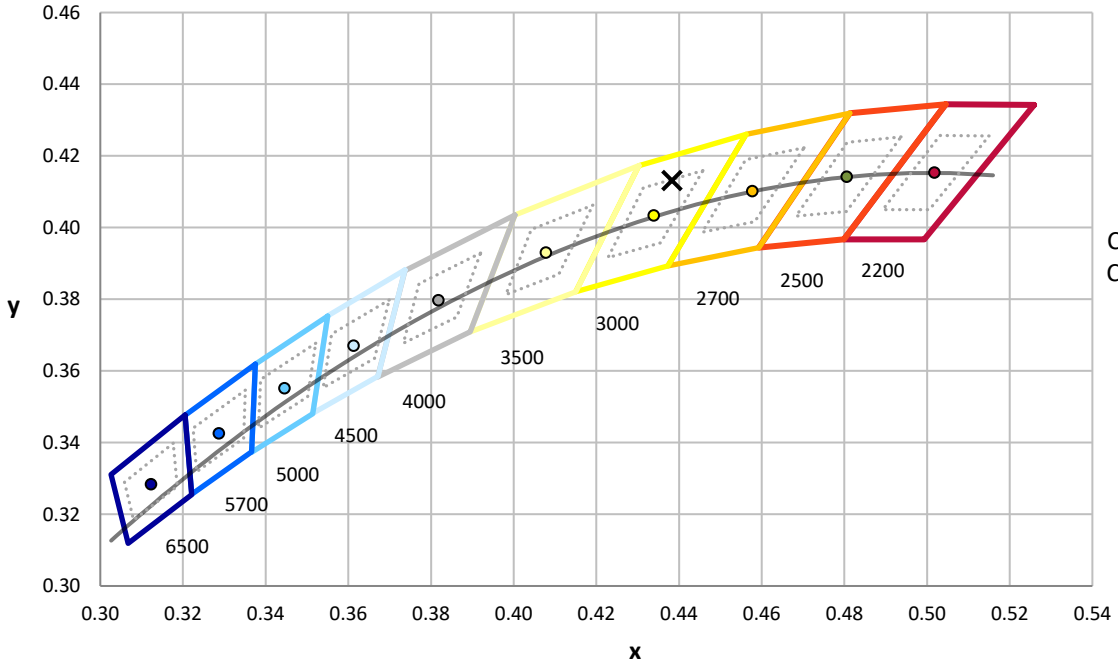
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

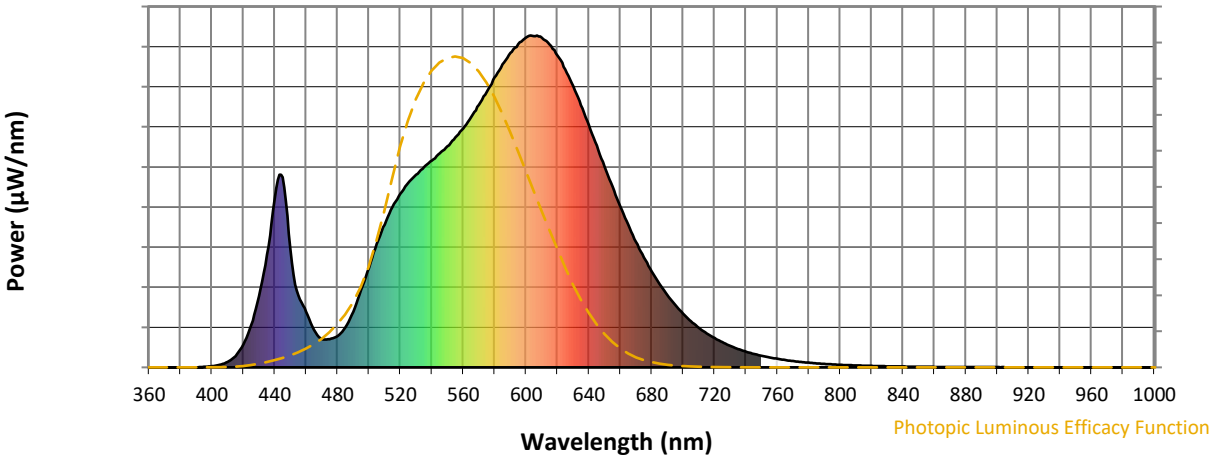


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

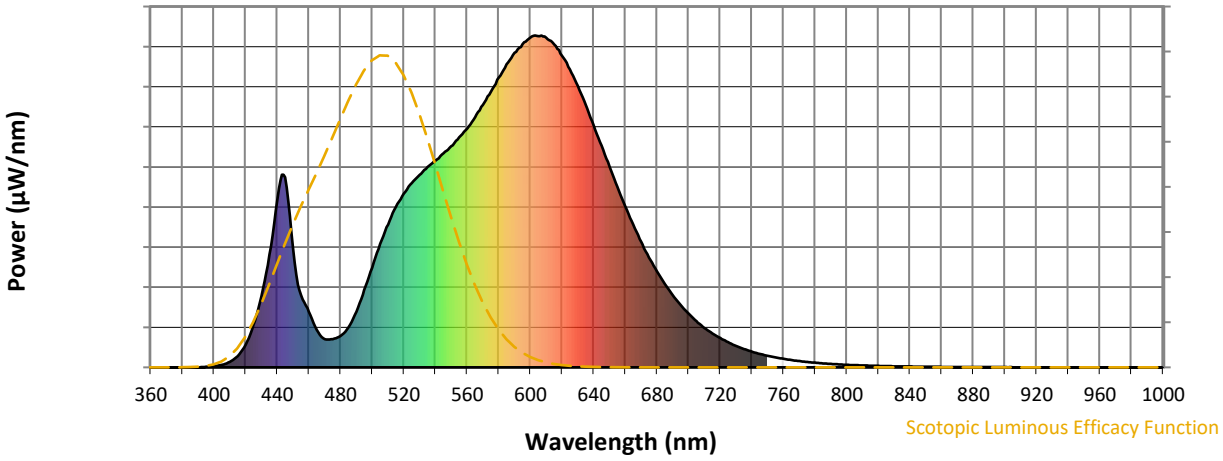


Photopic Lumens: NR

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	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

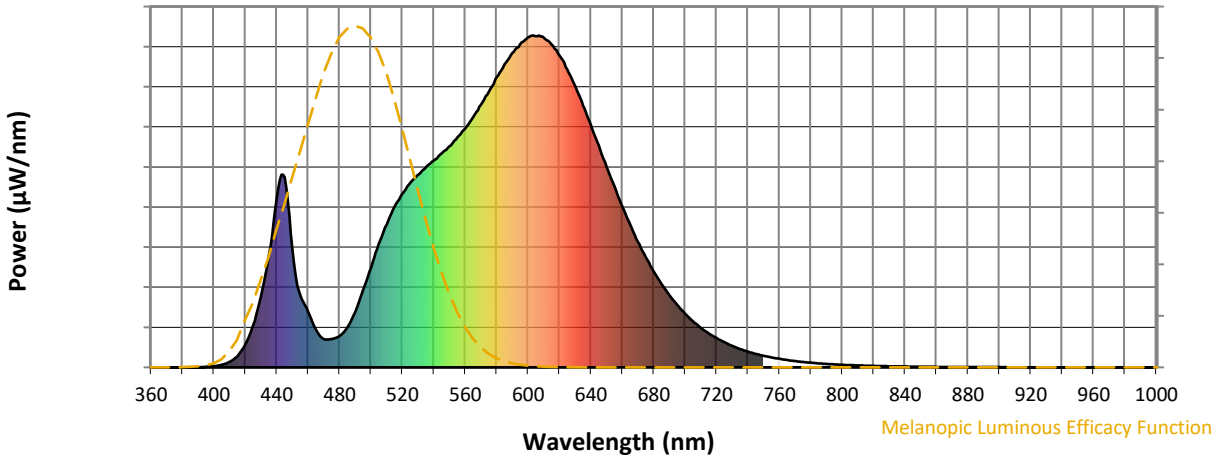


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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			

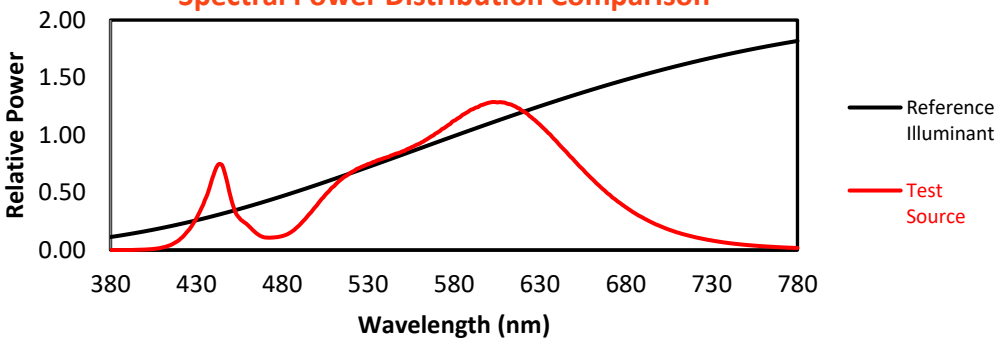
REPORT NUMBER: SP1-2408-195-9

TM-30-18

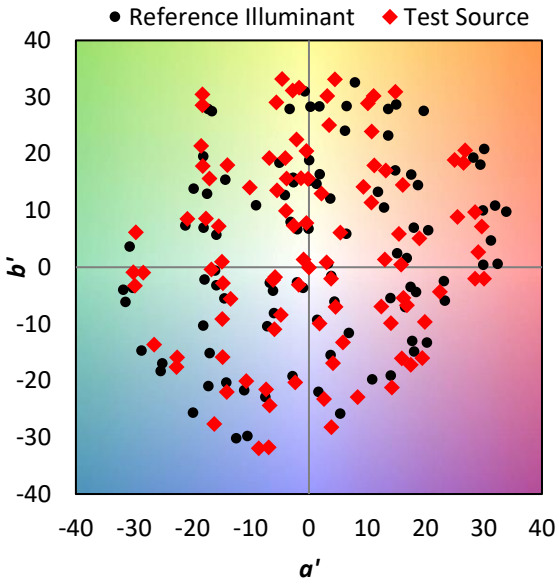
Summary

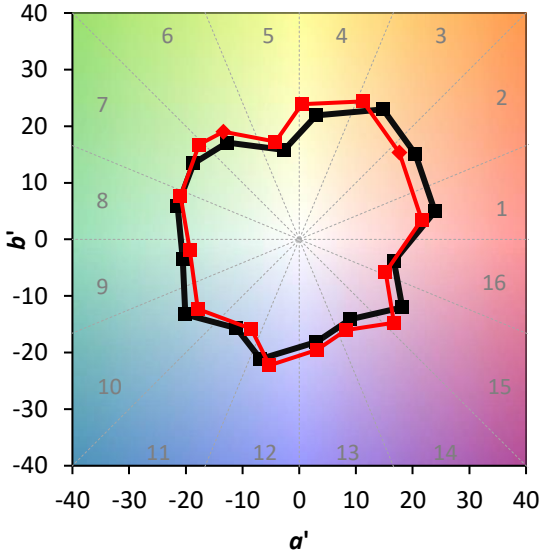
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

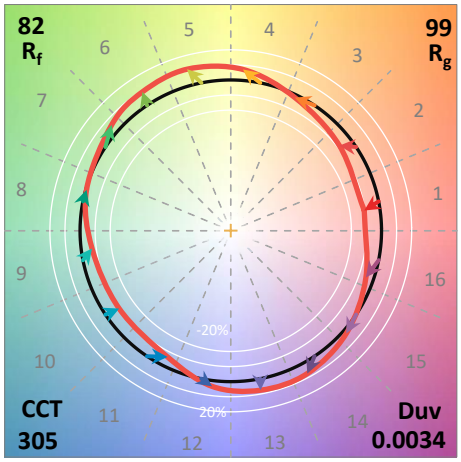
Spectral Power Distribution Comparison

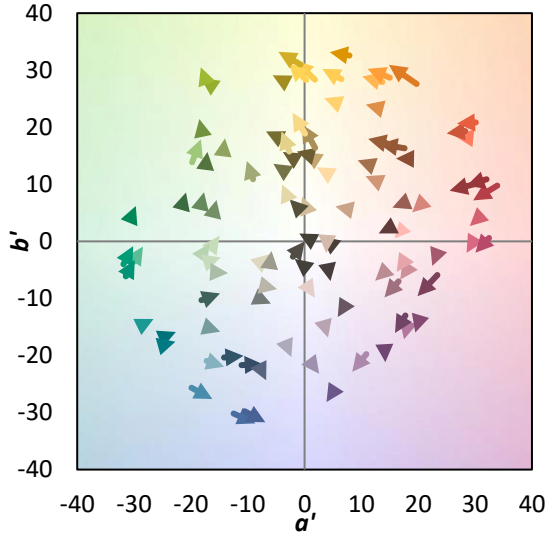


Color Vector Graphics









REPORT NUMBER: SP1-2408-195-9

TM-30-18

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
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CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
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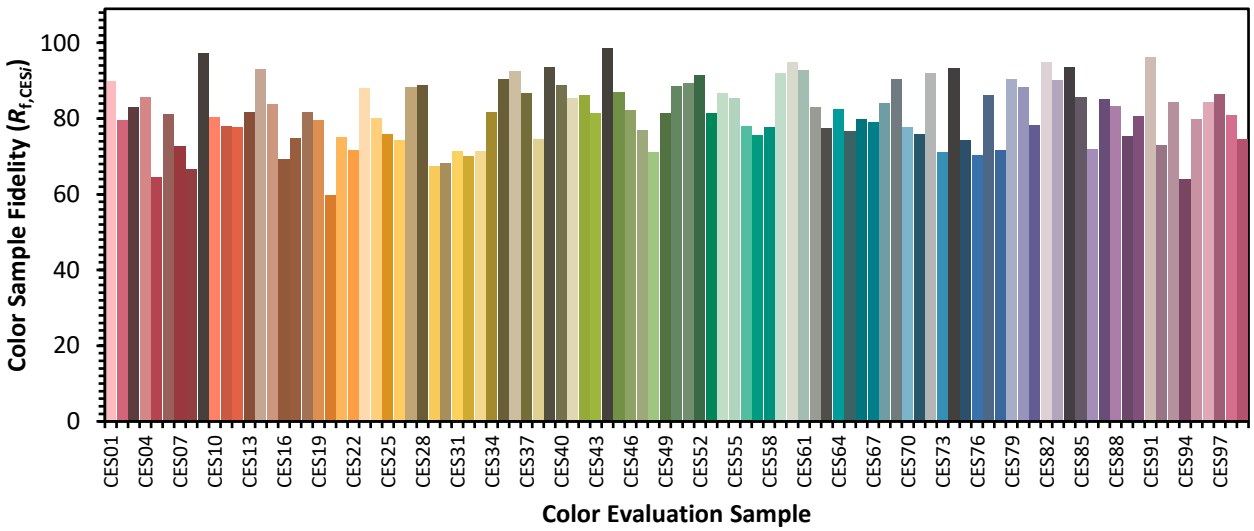

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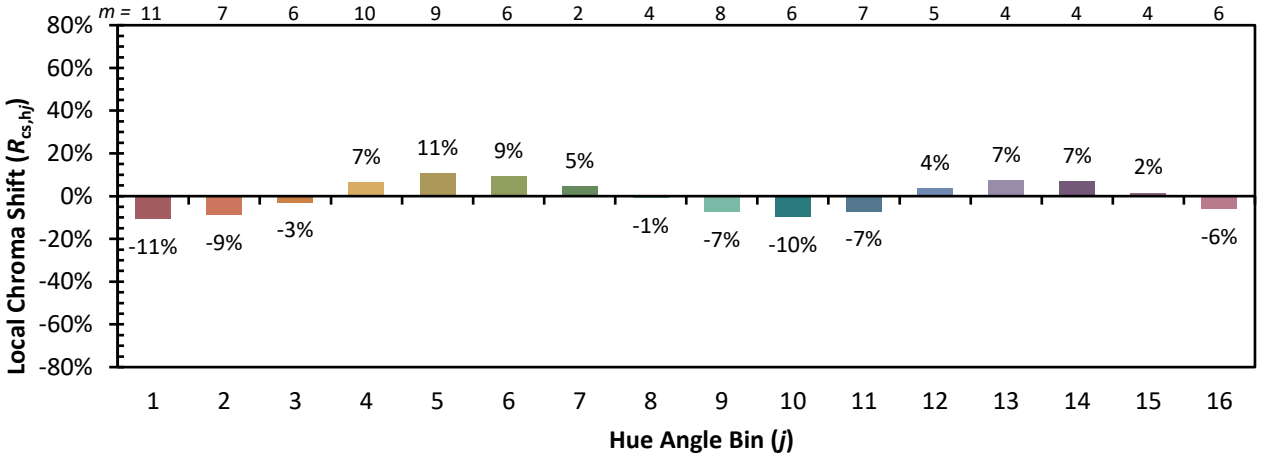
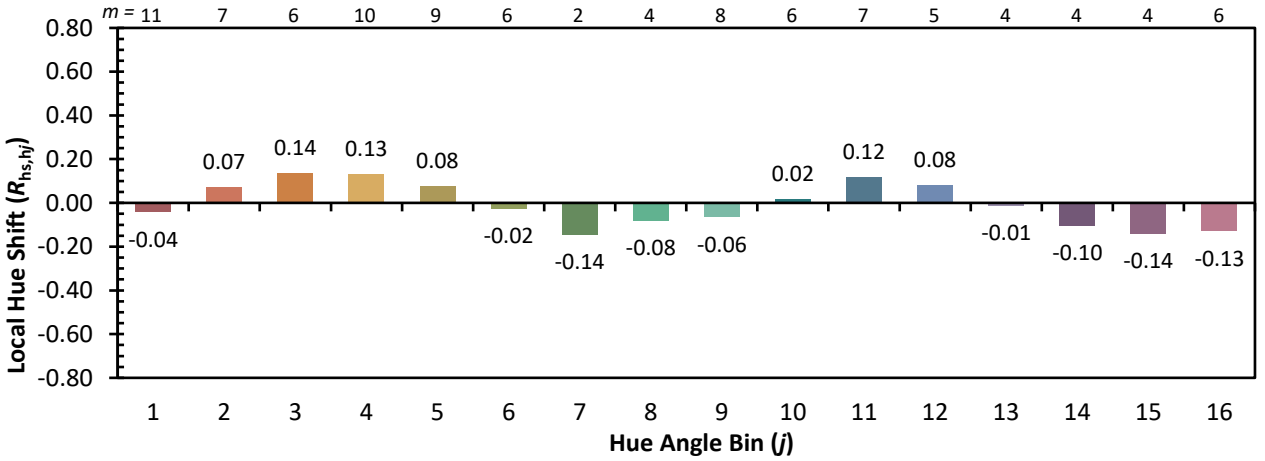
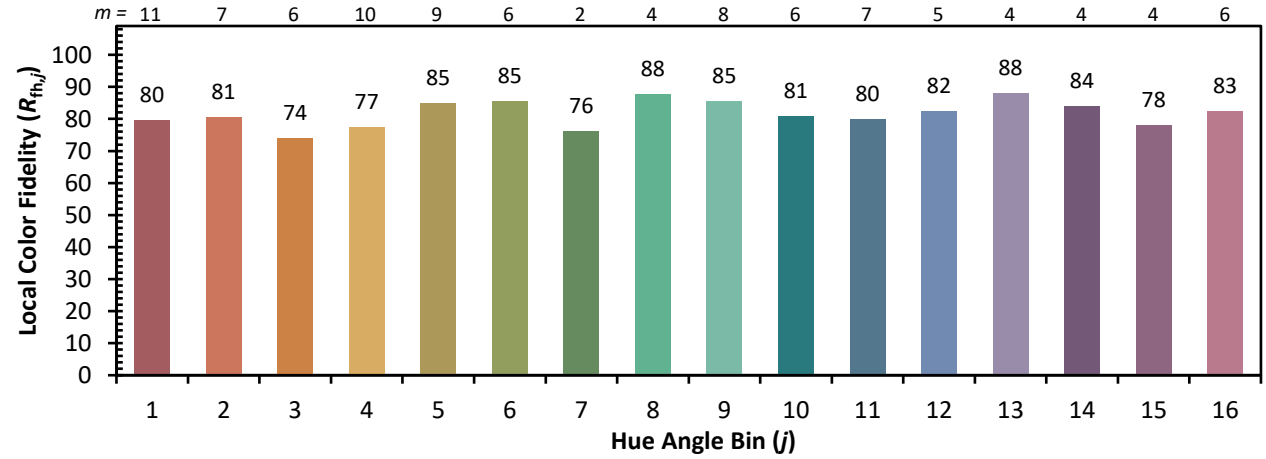
Color Rendition by Hue-Angle Bin







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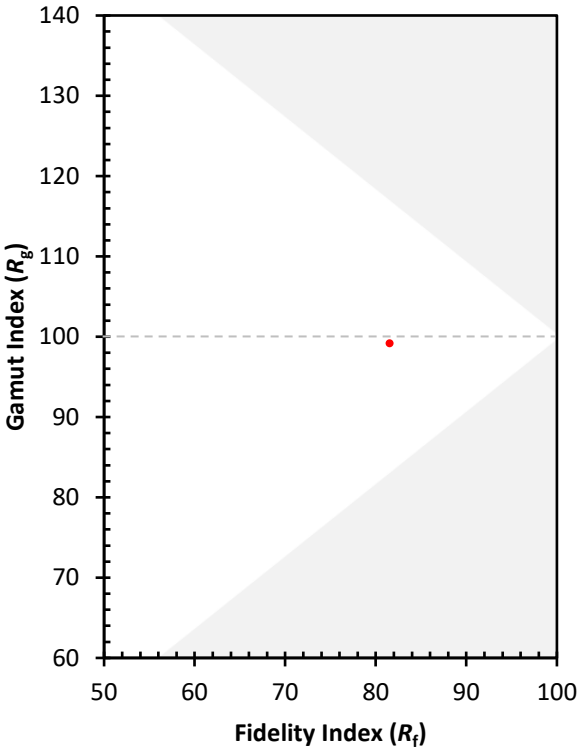
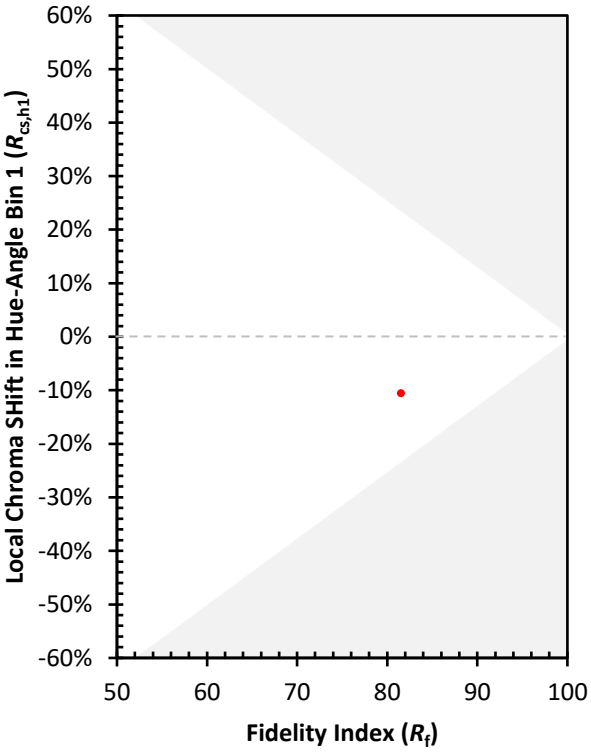
Measure Comparisons





(END OF REPORT)