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: McGRAW-EDISON

Report Number: P632528

Luminaire Tested: GWS-SA2C-830-U-RW-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P632528
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-RW-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7568.6 lumens
Efficiency:	N/A
Efficacy:	119.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	63.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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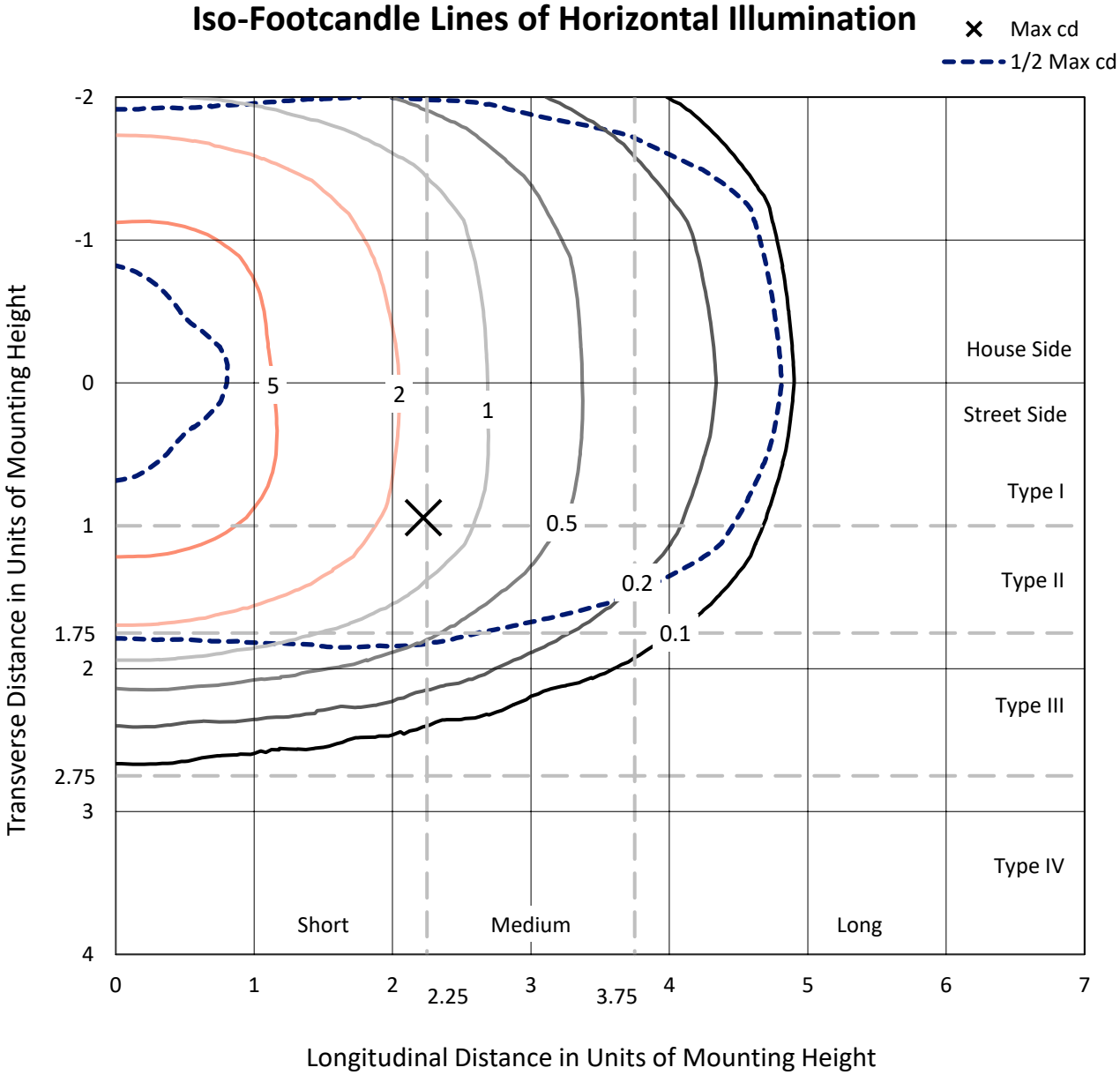
Scaled Data Report

REPORT NUMBER: P632528
CATALOG NUMBER: GWS-SA2C-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
Type III - Short - N/A

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REPORT NUMBER: P632528
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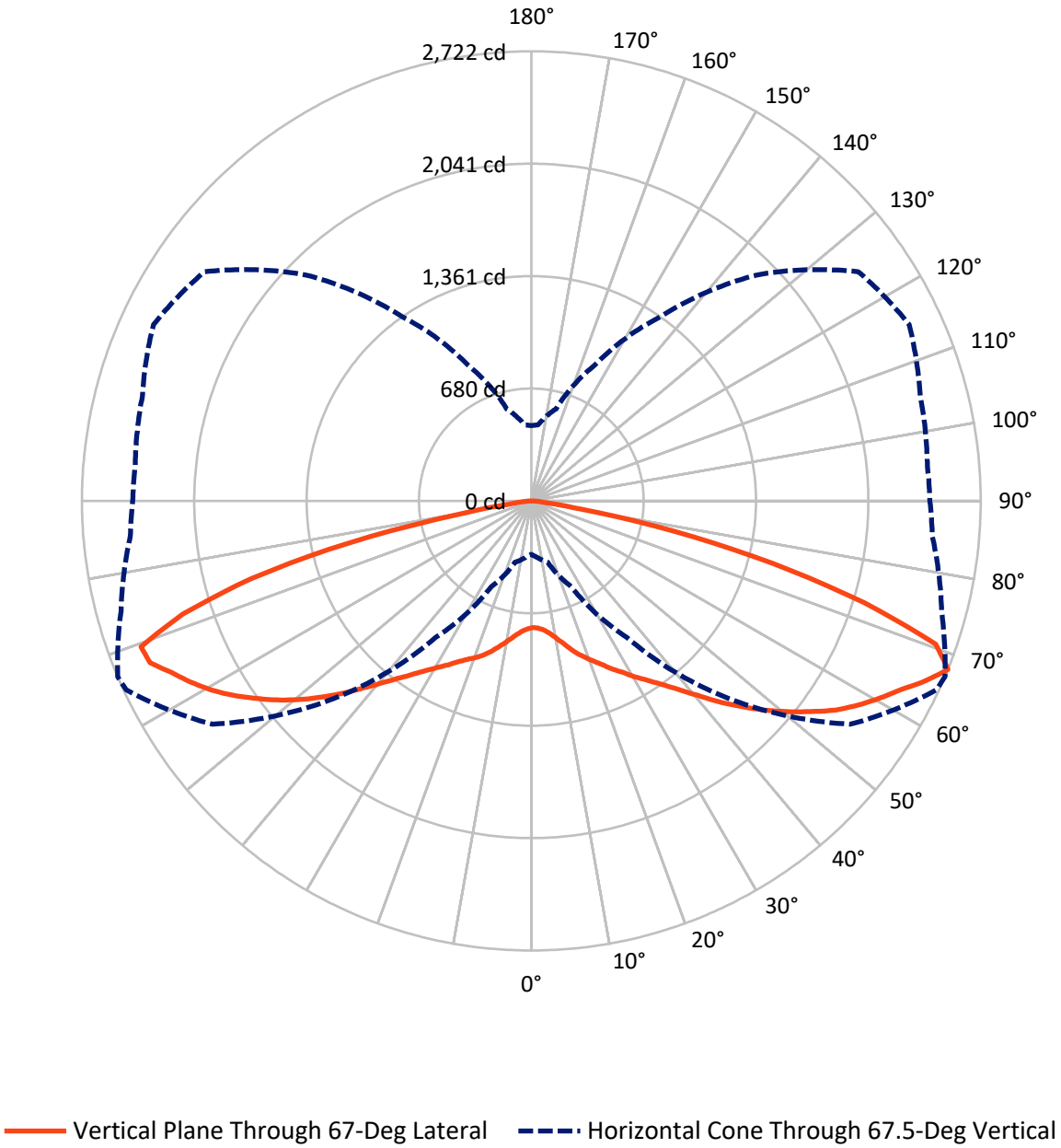
Luminous Intensity Polar Plot



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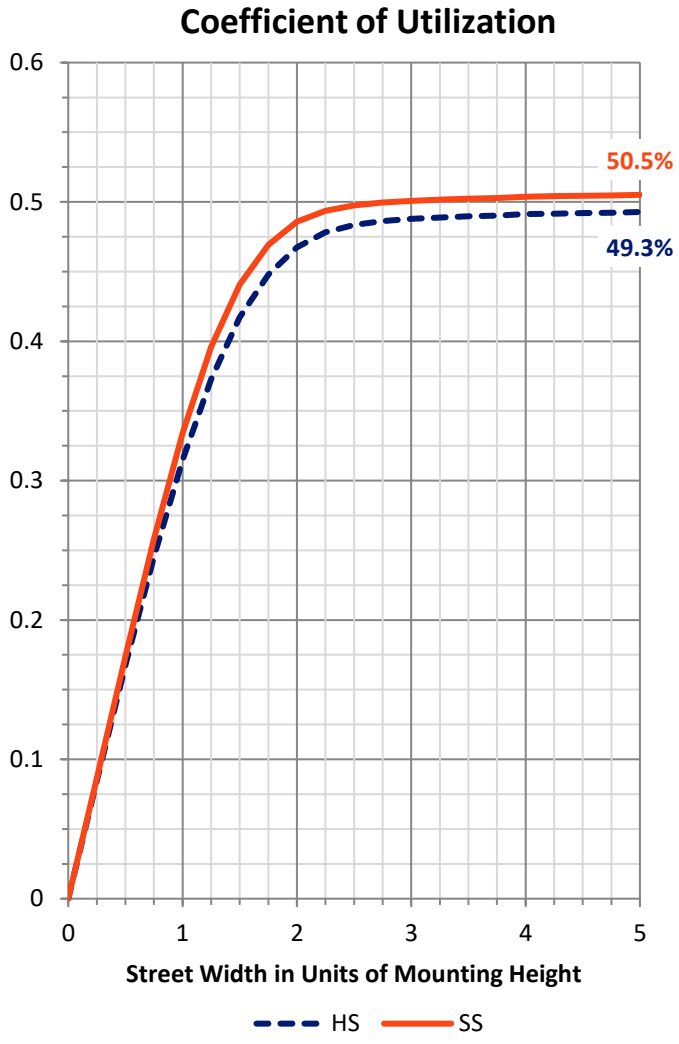
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.5	0.0	3742.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	3826.1	0.0	3826.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	7568.6	0.0	7568.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.0
10°-20°	254.0	3.4
20°-30°	498.4	6.6
30°-40°	849.1	11.2
40°-50°	1363.5	18.0
50°-60°	1852.7	24.5
60°-70°	1772.2	23.4
70°-80°	842.6	11.1
80°-90°	61.1	0.8
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°	7568.6	100.0
0°-180°	7568.6	100.0



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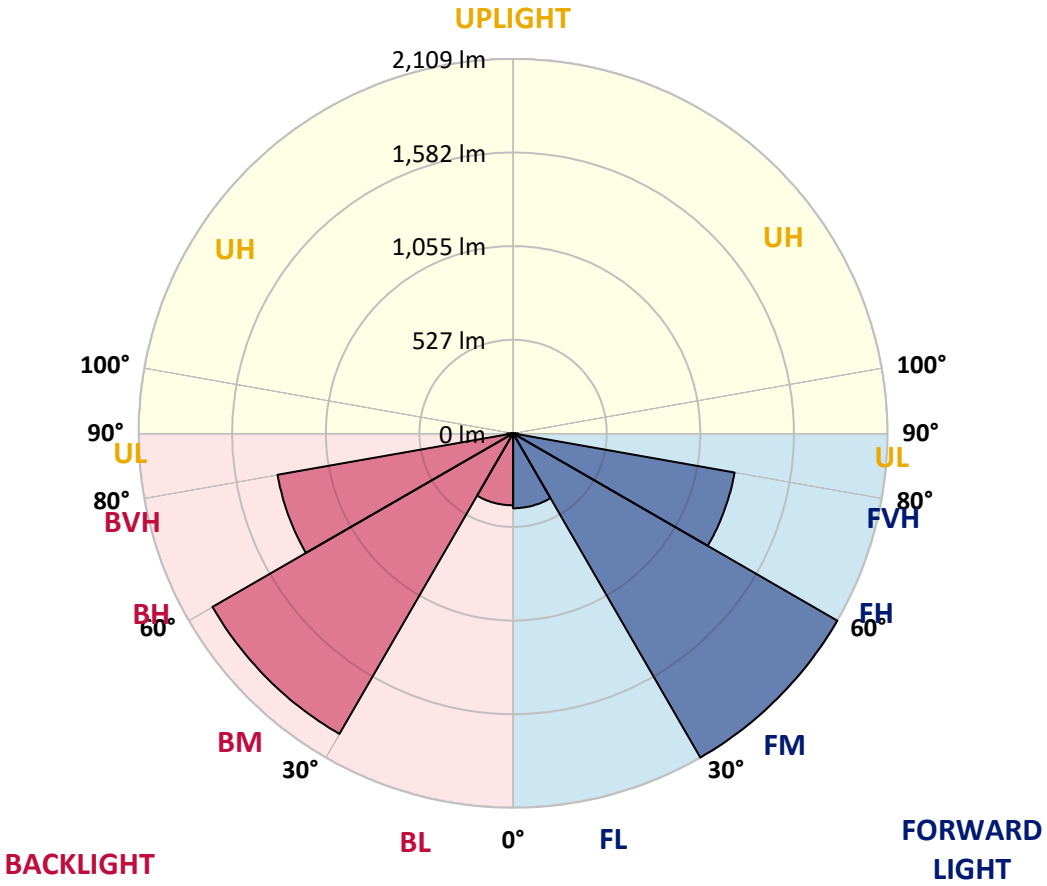
REPORT NUMBER: P632528
CATALOG NUMBER: GWS-SA2C-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	422.0	5.6			
FM	(30°-60°)	2109.4	27.9			
FH	(60°-80°)	1267.2	16.7			G1/1800
FVH	(80°-90°)	27.4	0.4			G1/100
BL	(0°-30°)	405.6	5.4	B1/500		
BM	(30°-60°)	1955.8	25.8	B2/2500		
BH	(60°-80°)	1347.6	17.8	B3/2500		G3/2500
BVH	(80°-90°)	33.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Short



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Scaled Data Report

REPORT NUMBER: P632528
CATALOG NUMBER: GWS-SA2C-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	*766.4*	766.4	766.4
2.5°	750.6	751.6	753.2	756.3	759.5	764.3	769.0	768.5	*770.6*	772.2	773.7
5°	746.3	747.4	750.0	754.2	759.0	766.9	776.9	781.1	*784.3*	790.1	795.4
7.5°	755.3	757.4	761.1	766.9	774.3	784.3	798.0	805.4	*810.1*	820.7	829.6
10°	767.4	770.1	777.4	788.5	799.6	814.9	832.2	843.3	*846.5*	860.2	877.0
12.5°	779.0	782.2	794.3	814.3	834.4	854.9	875.5	889.2	*890.2*	908.7	927.6
15°	797.5	800.1	816.4	842.3	872.8	901.3	926.6	936.1	*940.3*	953.5	977.2
17.5°	838.0	841.2	862.3	890.2	922.4	952.4	977.7	985.6	*985.6*	996.7	1016.2
20°	881.8	885.0	912.9	948.7	987.7	1018.3	1037.8	1030.4	*1027.8*	1031.0	1044.7
22.5°	930.8	936.6	963.5	1005.1	1053.1	1090.5	1100.5	1078.4	*1071.0*	1063.6	1066.8
25°	993.5	1000.4	1026.7	1071.0	1117.9	1157.5	1163.2	1129.0	*1124.8*	1098.9	1089.5
27.5°	1065.7	1071.0	1103.7	1147.4	1191.2	1224.4	1230.7	1188.5	*1174.3*	1138.5	1116.3
30°	1159.0	1163.8	1192.2	1235.5	1273.4	1296.6	1304.5	1246.5	*1235.5*	1180.6	1146.4
32.5°	1260.8	1262.9	1291.9	1333.5	1367.2	1389.4	1378.3	1310.8	*1294.5*	1232.8	1185.9
35°	1377.2	1377.2	1414.7	1448.4	1475.3	1481.6	1460.5	1383.6	*1364.6*	1297.7	1239.1
37.5°	1491.6	1494.8	1529.6	1569.6	1593.3	1592.3	1553.8	1469.5	*1447.9*	1375.1	1310.3
40°	1615.5	1622.3	1657.1	1701.9	1724.6	1721.4	1662.4	1568.6	*1546.4*	1460.5	1397.3
42.5°	1729.3	1740.4	1781.0	1826.8	1851.6	1849.5	1787.8	1682.4	*1660.8*	1563.8	1500.6
45°	1820.0	1831.6	1882.2	1946.0	1985.5	1981.8	1919.6	1800.5	*1774.1*	1672.4	1602.8
47.5°	1899.6	1911.7	1968.1	2035.6	2098.3	2104.6	2047.7	1919.6	*1891.7*	1788.9	1710.3
50°	1960.7	1966.5	2029.8	2103.5	2176.3	2211.6	2162.1	2039.2	*2005.5*	1903.8	1815.2
52.5°	1956.0	1963.9	2041.9	2142.0	2239.5	2297.5	2263.2	2152.0	*2119.4*	2008.7	1922.2
55°	1859.5	1867.4	1960.2	2106.2	2274.8	2360.2	2356.5	2259.6	*2235.8*	2115.7	2033.4
57.5°	1718.8	1736.2	1828.4	1986.0	2228.5	2410.3	2425.1	2357.6	*2332.8*	2220.6	2143.6
60°	1466.8	1490.0	1596.5	1801.0	2079.8	2393.4	2498.3	2440.3	*2425.1*	2318.1	2243.2
62.5°	1065.7	1082.6	1224.4	1492.7	1859.5	2273.3	2560.0	2525.7	*2514.1*	2405.6	2333.3
65°	638.3	676.8	790.6	1055.7	1500.0	2046.6	2526.3	2637.5	*2625.3*	2495.7	2410.3
67.5°	*323.1*	*340.5*	*385.3*	*572.4*	*1008.8*	*1693.5*	*2357.1*	*2707.0*	*2721.8*	*2572.6*	*2437.7*
70°	200.3	205.0	217.7	282.5	503.9	1112.6	1927.5	2525.7	*2597.9*	2560.5	2366.6
72.5°	160.8	161.8	163.9	176.0	241.9	520.2	1218.6	1978.1	*2108.3*	2391.3	2264.8
75°	133.3	133.9	134.4	138.1	150.7	212.4	593.0	1359.3	*1511.6*	2032.4	2099.9
77.5°	107.0	104.4	106.5	108.0	111.2	118.6	204.5	725.3	*879.7*	1334.0	1623.9
80°	69.6	68.5	72.7	74.3	77.5	82.2	109.1	246.1	*298.8*	485.4	516.5
82.5°	37.4	35.3	44.3	42.7	44.3	48.0	64.3	90.1	*101.2*	146.5	123.9
85°	11.6	11.6	12.1	14.2	17.4	16.9	27.9	44.3	*49.0*	62.7	46.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.6	5.8	9.0	*12.1*	21.6	16.3
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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Scaled Data Report

REPORT NUMBER: P632528
CATALOG NUMBER: GWS-SA2C-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	776.9	772.2	774.8	776.4	775.9	774.8	769.5	768.5	765.8	761.6	760.6
5°	800.1	794.8	795.4	793.8	788.5	781.6	770.1	764.3	759.5	754.2	753.7
7.5°	836.5	830.7	829.1	821.7	806.9	791.1	772.7	762.1	754.2	747.4	746.3
10°	882.8	877.0	871.8	854.4	830.1	809.1	784.8	769.5	757.9	749.5	747.9
12.5°	934.5	929.8	916.6	891.3	862.3	837.5	812.7	793.8	776.9	764.3	762.7
15°	991.9	981.4	961.4	928.7	901.3	881.3	851.2	825.4	798.5	781.6	778.0
17.5°	1032.0	1023.0	999.3	967.7	946.1	928.7	893.4	856.5	820.1	795.4	790.1
20°	1060.5	1051.0	1024.1	1000.9	994.1	979.3	938.2	895.5	853.3	822.8	815.9
22.5°	1081.0	1071.0	1043.6	1032.0	1041.5	1038.9	998.8	950.3	900.2	863.9	855.4
25°	1100.5	1091.0	1066.8	1071.0	1096.3	1104.2	1061.0	1004.6	947.7	905.0	895.0
27.5°	1119.0	1106.9	1095.8	1119.0	1154.8	1169.6	1123.7	1059.9	998.3	954.5	946.6
30°	1147.4	1133.2	1131.6	1165.4	1222.3	1234.9	1184.3	1120.6	1059.4	1015.1	1005.1
32.5°	1183.3	1170.1	1171.2	1221.8	1287.6	1298.2	1255.0	1195.4	1134.3	1090.0	1076.3
35°	1231.8	1215.4	1224.4	1286.6	1353.0	1372.5	1337.7	1288.2	1228.6	1183.3	1168.0
37.5°	1298.7	1275.0	1293.4	1358.8	1425.7	1454.7	1427.8	1390.9	1331.9	1286.1	1271.8
40°	1384.1	1364.6	1372.0	1444.2	1513.2	1548.0	1531.1	1494.8	1436.3	1388.3	1372.0
42.5°	1485.3	1465.8	1463.2	1540.1	1609.2	1661.9	1645.5	1612.3	1551.7	1496.9	1481.1
45°	1584.4	1566.5	1570.1	1648.7	1726.2	1783.6	1767.3	1728.3	1662.4	1599.1	1586.5
47.5°	1687.7	1672.9	1676.1	1759.4	1844.8	1902.2	1881.6	1834.2	1757.3	1689.8	1674.5
50°	1793.6	1776.8	1781.5	1869.0	1961.2	2015.5	1983.9	1913.8	1828.9	1763.1	1749.9
52.5°	1899.0	1879.0	1891.1	1973.9	2069.3	2112.5	2054.0	1969.1	1886.9	1821.6	1806.8
55°	2020.3	1999.2	1986.0	2074.6	2168.9	2186.8	2106.7	2007.6	1910.1	1835.8	1826.8
57.5°	2131.0	2113.0	2088.3	2176.8	2246.4	2233.2	2147.3	1997.1	1853.7	1758.3	1745.7
60°	2230.0	2214.8	2193.1	2268.5	2300.1	2270.6	2114.6	1872.2	1714.6	1614.9	1609.2
62.5°	2321.2	2304.9	2284.9	2349.2	2344.9	2276.4	1966.0	1680.3	1469.5	1362.5	1353.0
65°	2393.4	2378.7	2372.9	2423.5	2416.6	2163.1	1734.6	1366.2	1073.6	952.9	949.3
67.5°	*2414.0*	*2408.2*	*2439.3*	*2525.2*	*2418.2*	*1935.4*	*1360.4*	*906.0*	*576.6*	*462.2*	*455.4*
70°	2337.0	2336.5	2425.6	2548.4	2198.9	1478.4	802.7	408.5	289.9	257.2	253.0
72.5°	2236.9	2235.3	2305.9	2198.4	1630.8	809.1	337.9	218.7	181.3	172.4	172.4
75°	2072.4	2068.2	2121.5	1672.4	917.1	304.6	179.2	150.2	142.3	140.7	140.7
77.5°	1689.3	1654.0	1570.1	1033.6	319.9	149.7	118.6	118.1	113.3	112.8	112.8
80°	555.5	555.5	645.7	394.2	141.3	92.2	83.8	88.0	83.3	80.1	79.6
82.5°	90.7	124.9	177.6	112.8	76.4	57.5	51.7	54.8	57.5	45.9	45.9
85°	35.8	46.9	68.5	52.7	35.3	23.2	24.8	27.4	24.2	21.1	20.6
87.5°	13.7	16.9	24.2	12.6	7.4	4.2	2.6	2.6	2.1	2.1	2.1
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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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

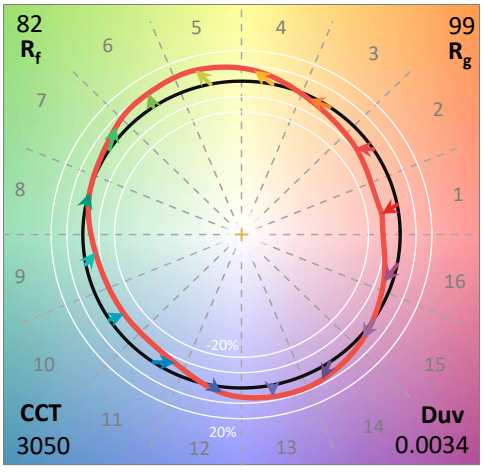
Test Information

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

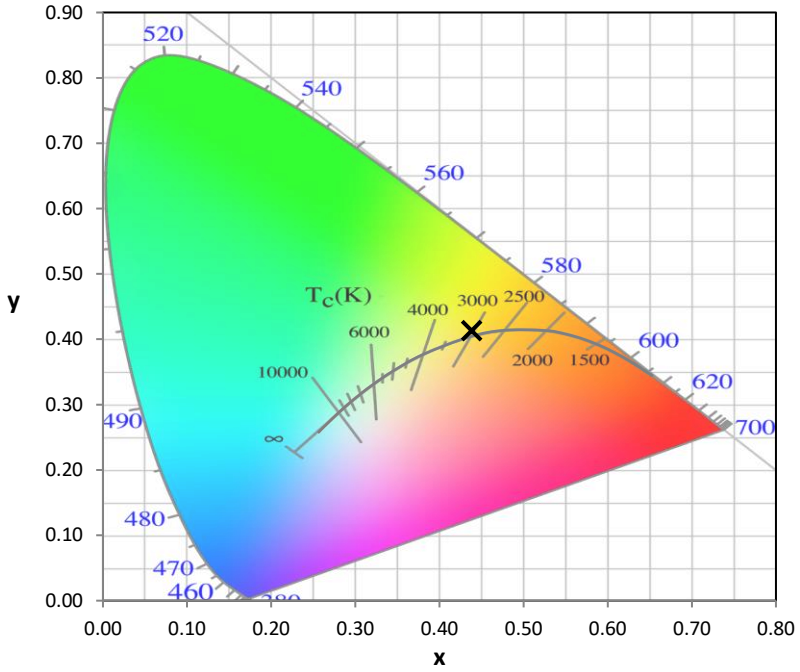
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

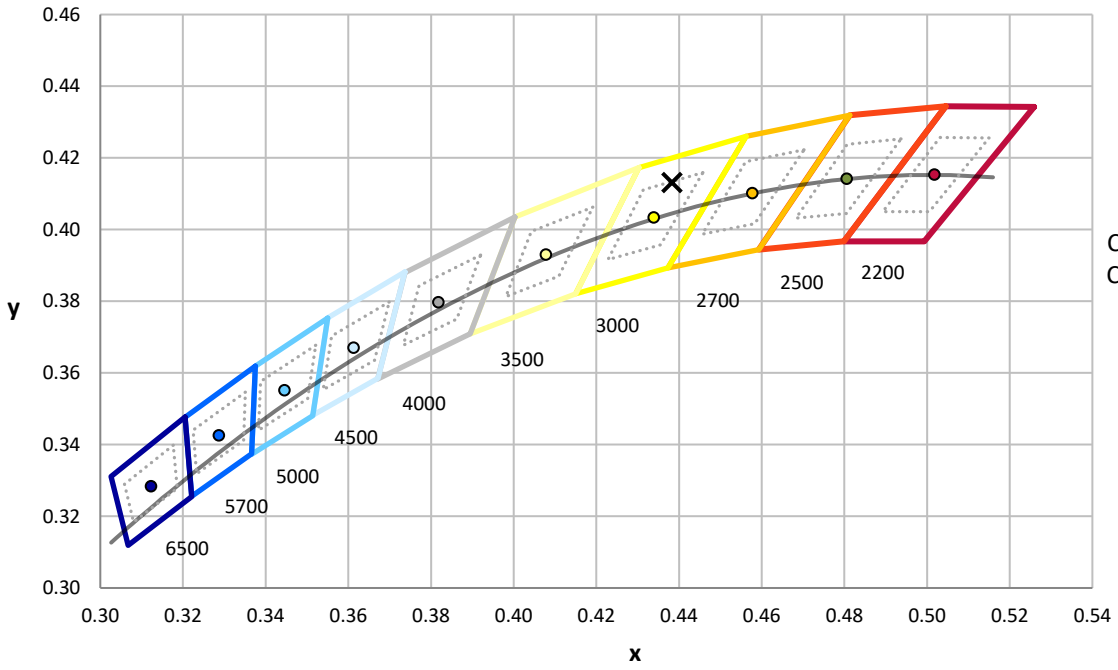
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

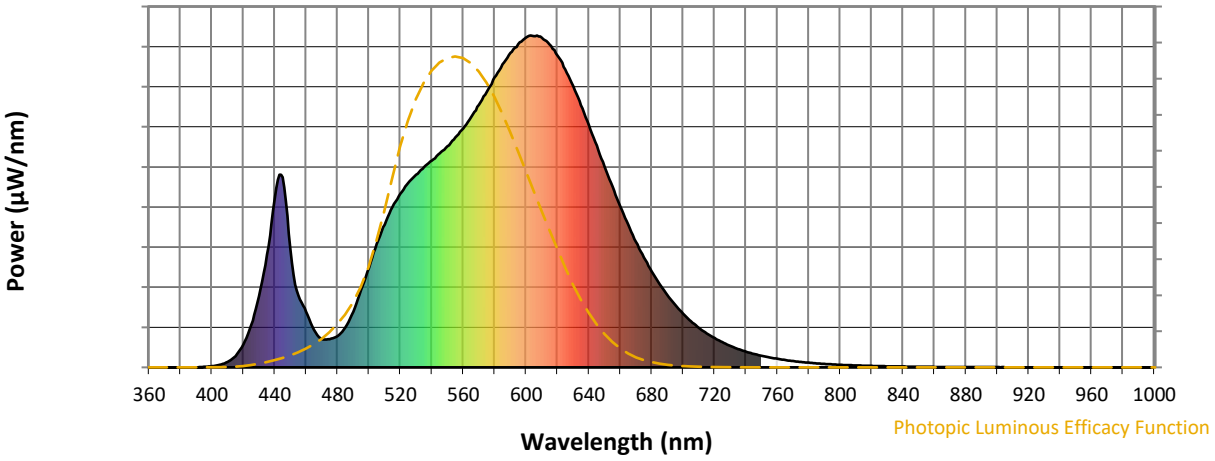


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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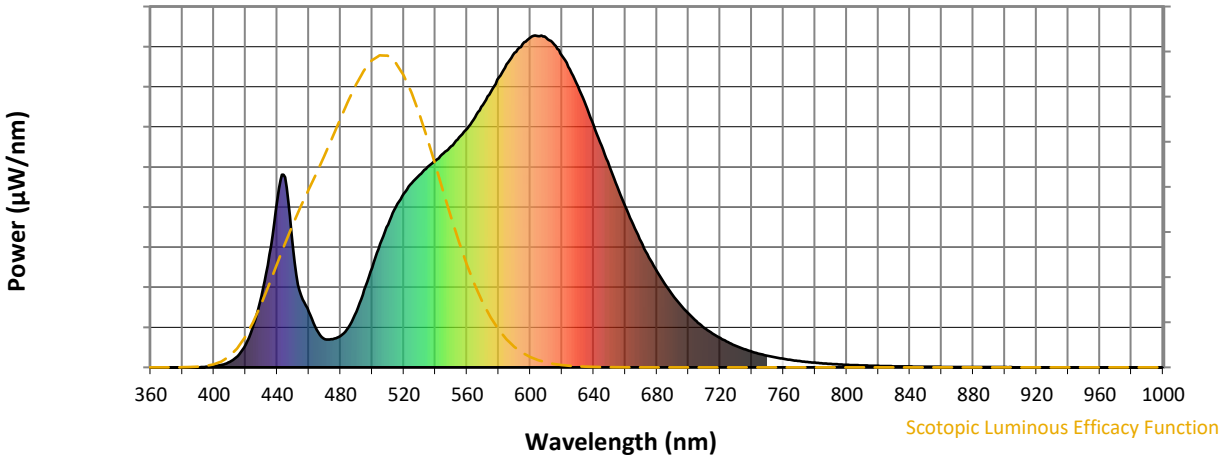
Scotopic Flux vs. Wavelength



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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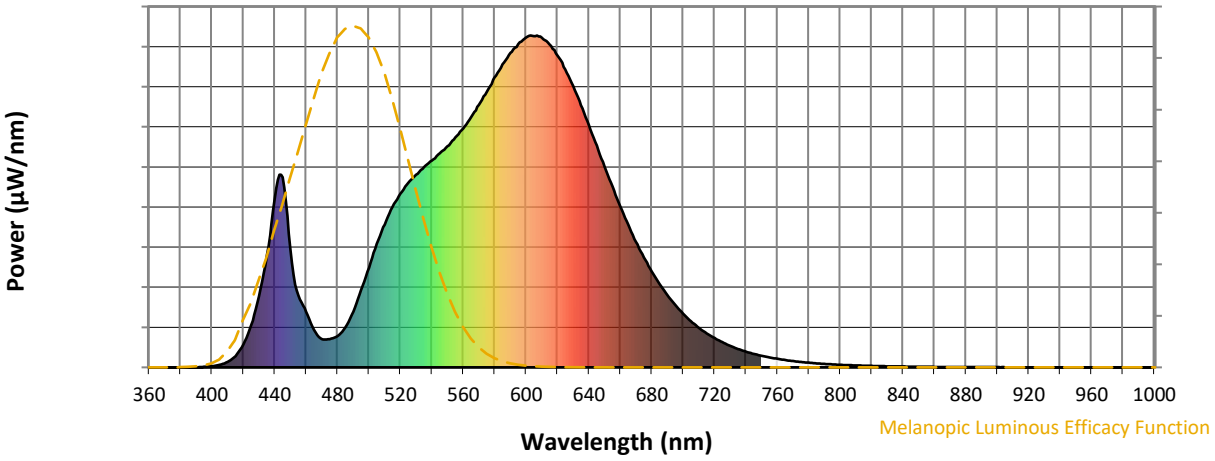
Melanopic Flux vs. Wavelength



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

λ (nm)	Power 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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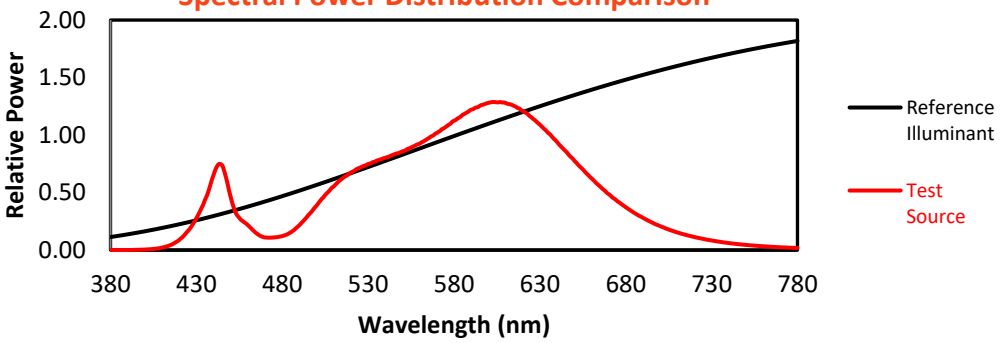
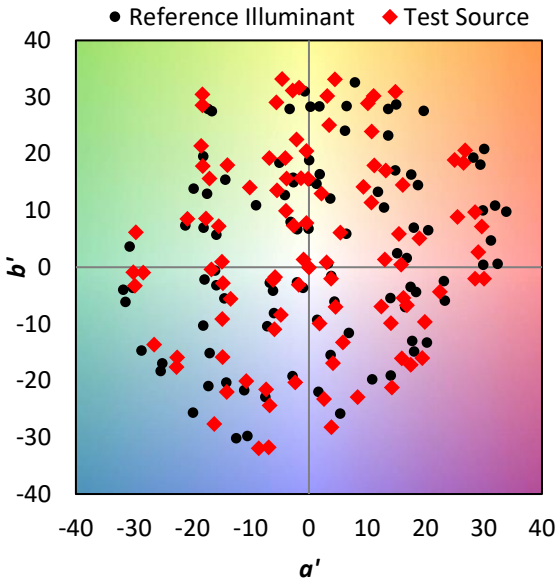
Summary

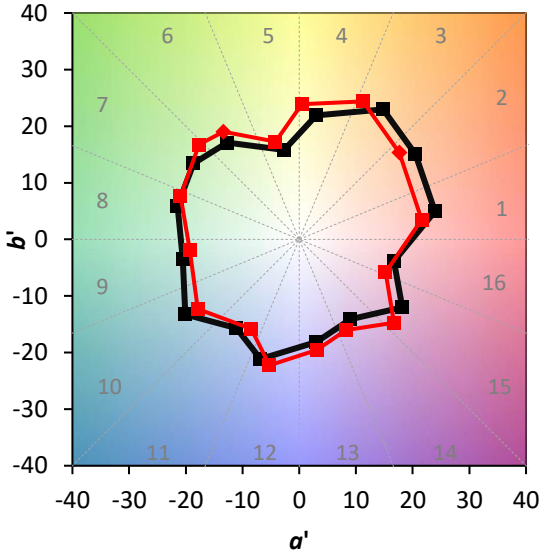
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

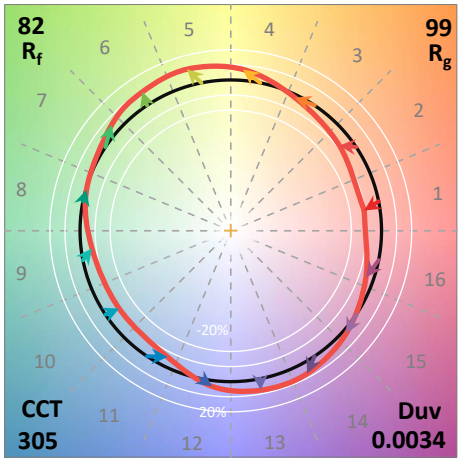
Spectral Power Distribution Comparison

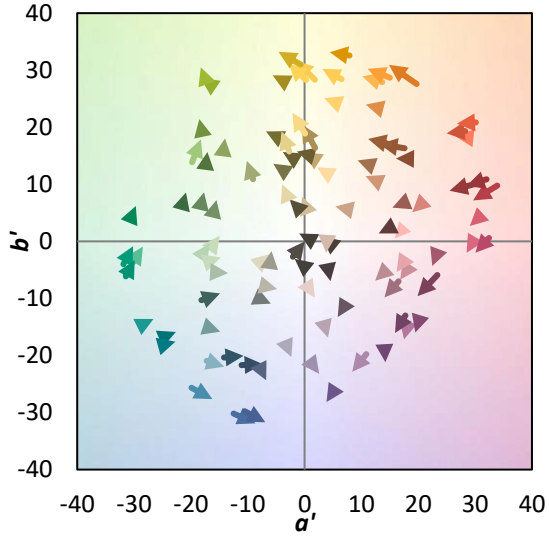


Color Vector Graphics









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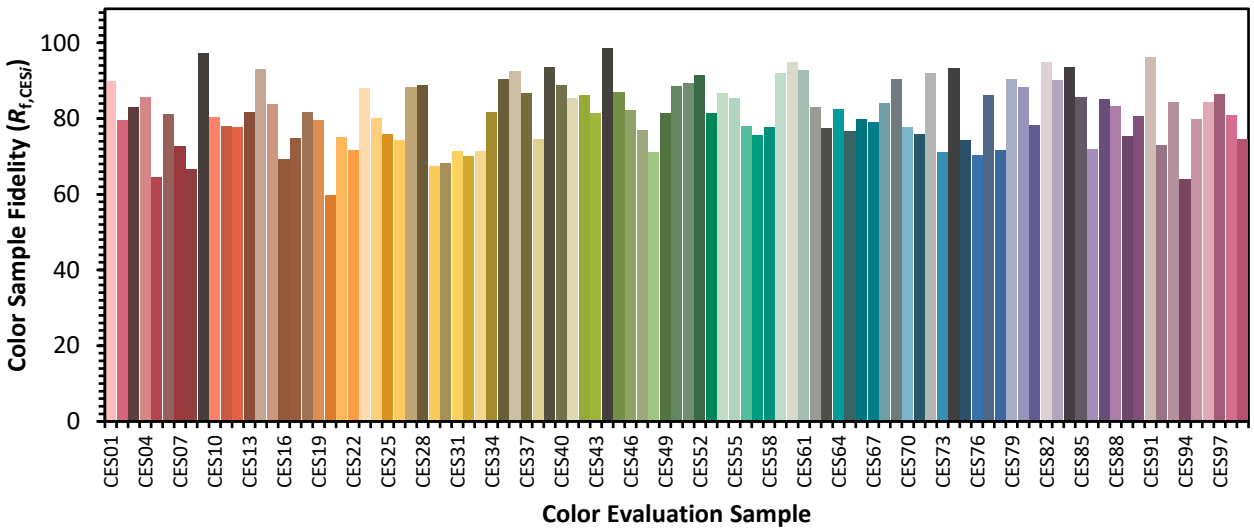
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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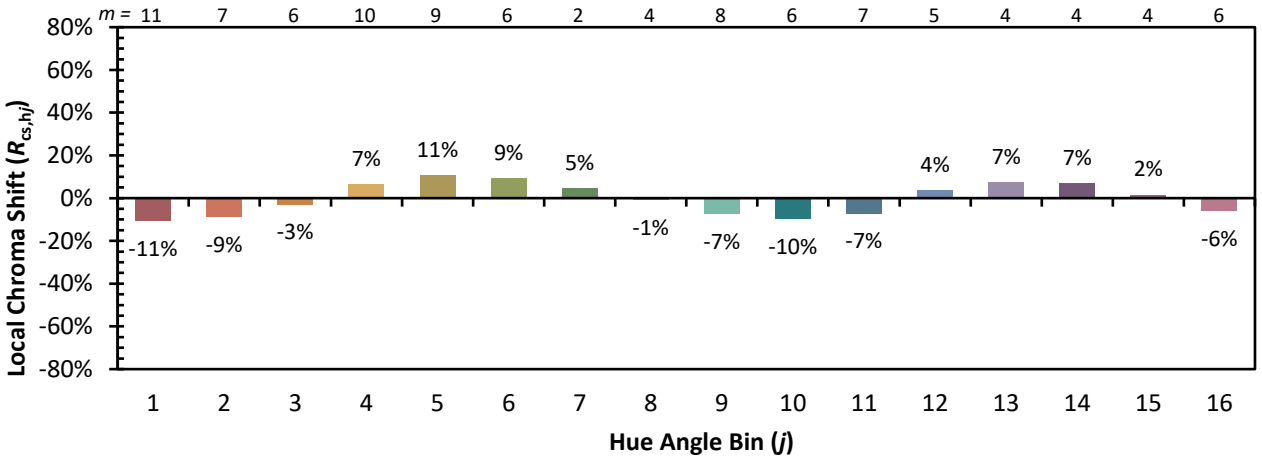
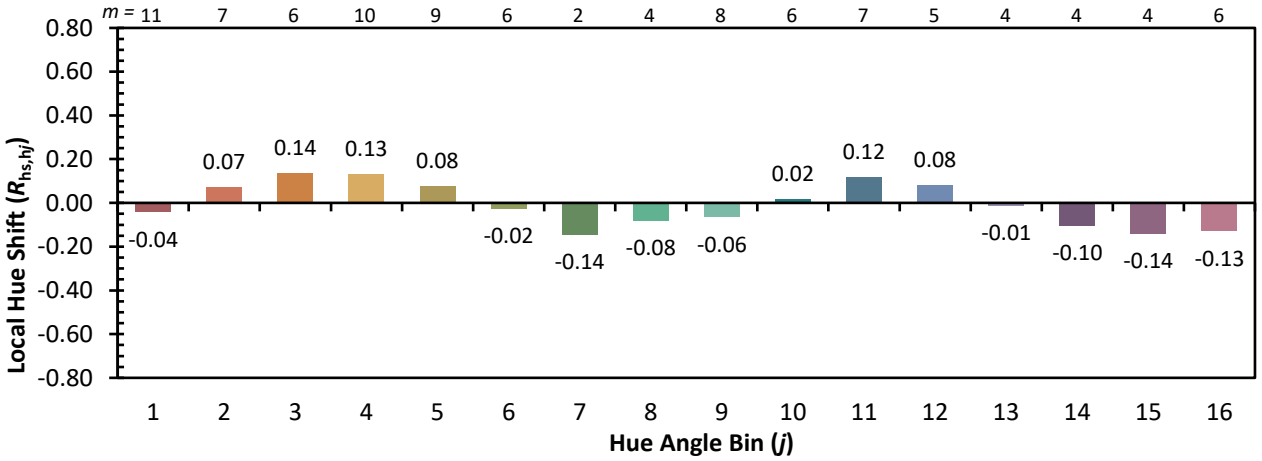
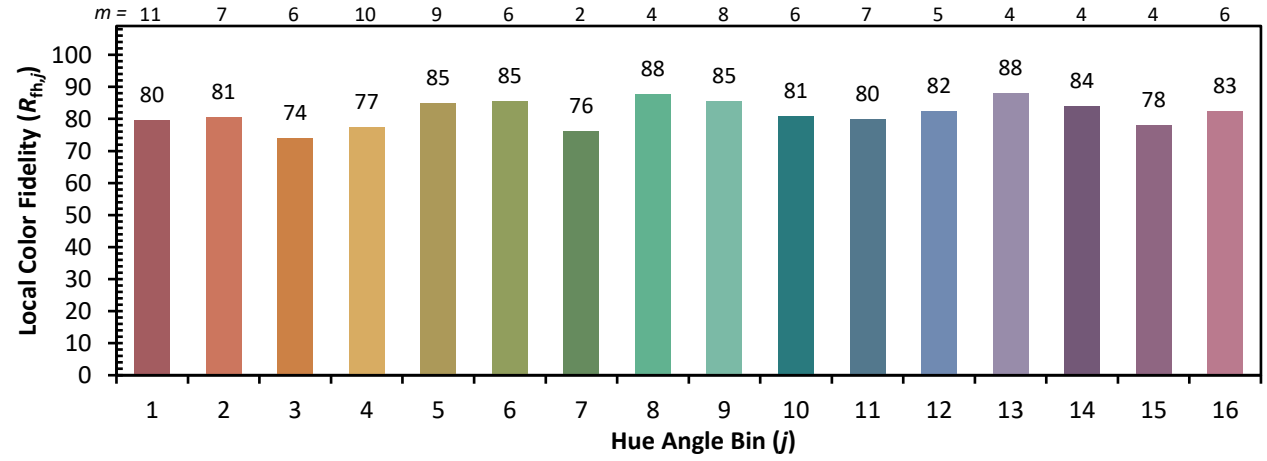
Color Rendition by Hue-Angle Bin







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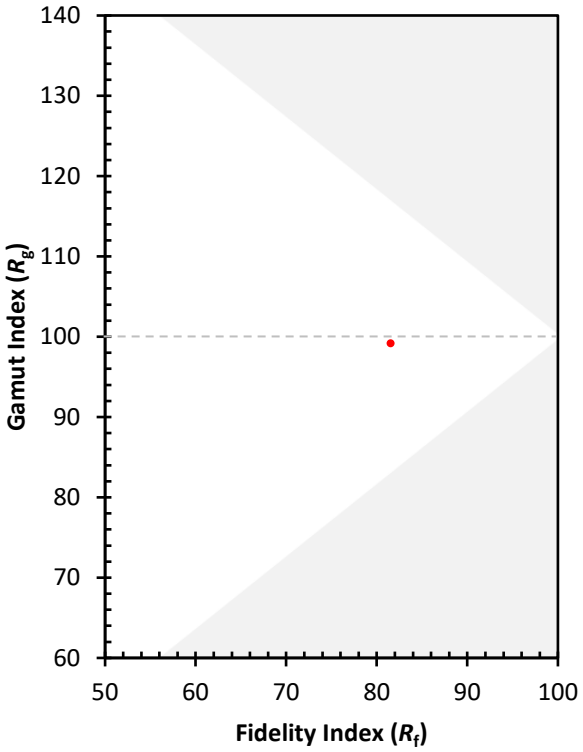
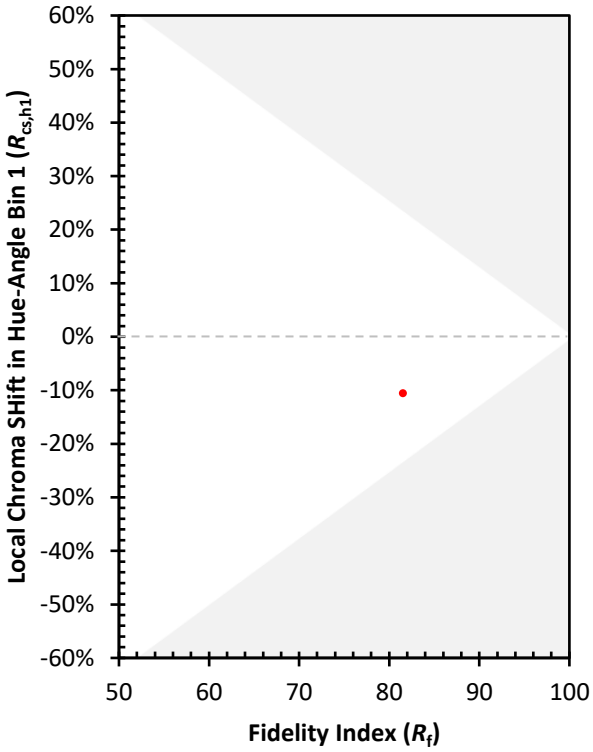
Measure Comparisons





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