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: P632557

Luminaire Tested: GWS-SA2C-830-U-T3-W-GRSWH

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:	P632557
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6275.2 lumens
Efficiency:	N/A
Efficacy:	99.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

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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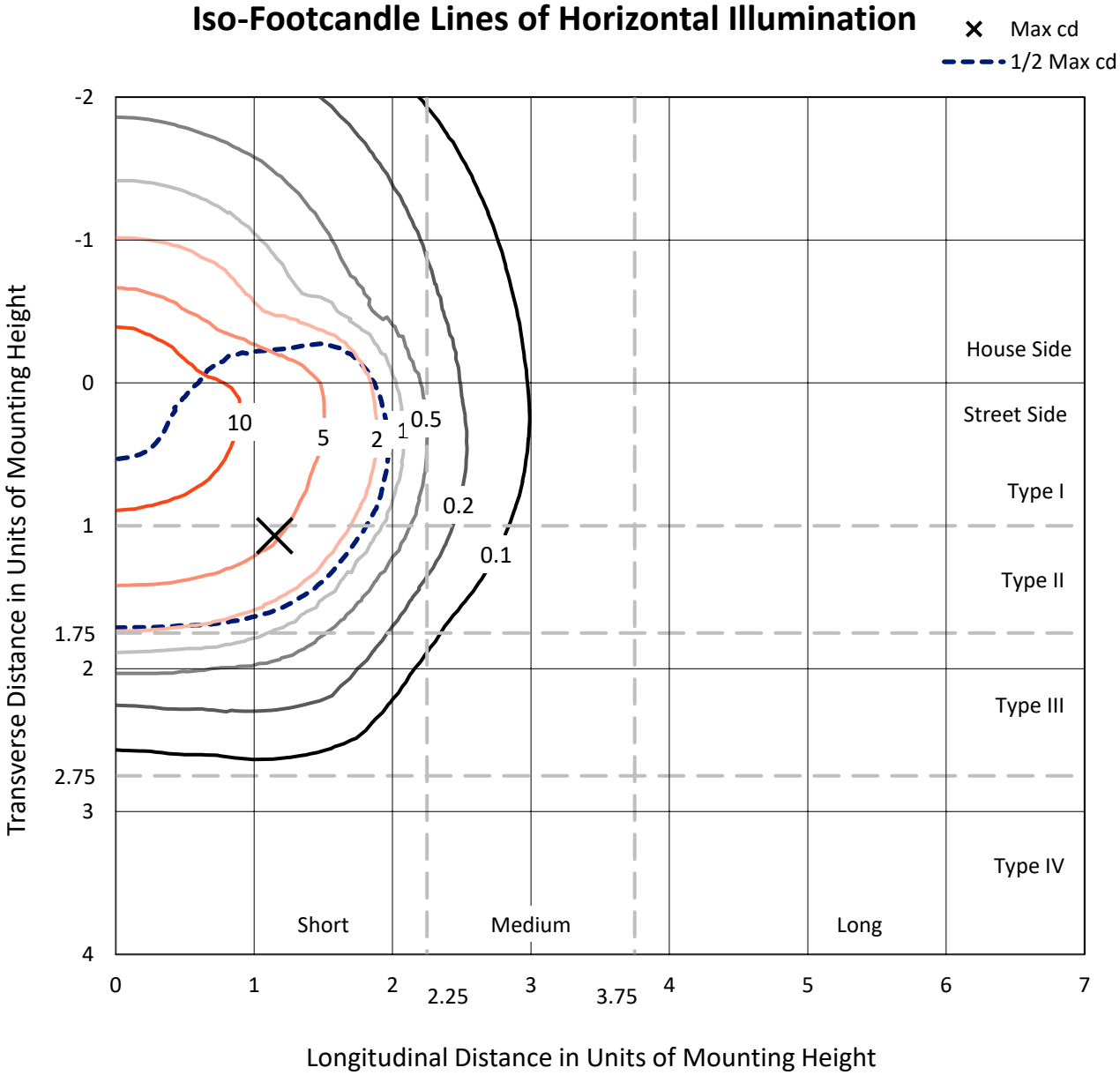
REPORT NUMBER: P632557
CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - N/A

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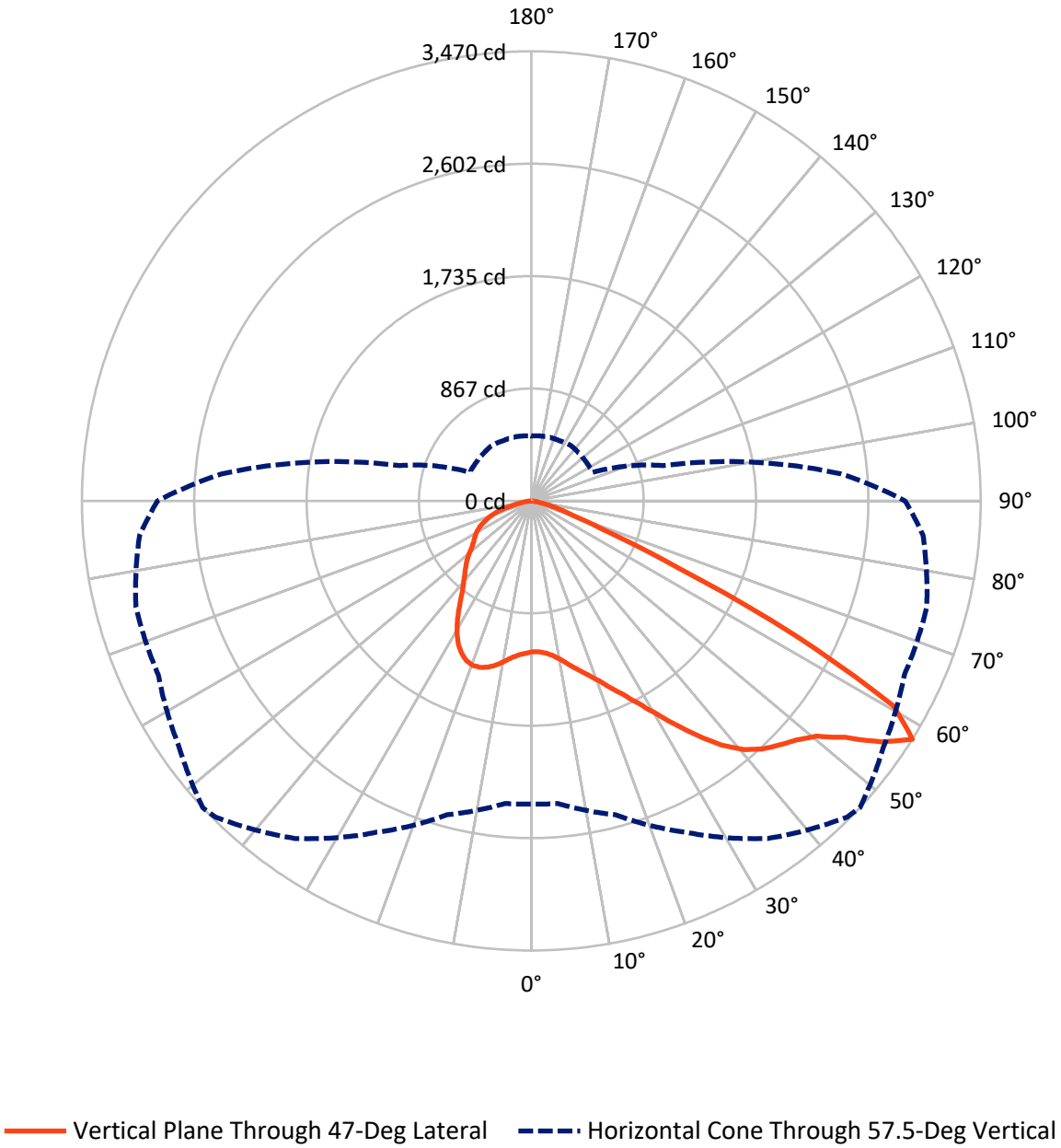
Luminous Intensity Polar Plot



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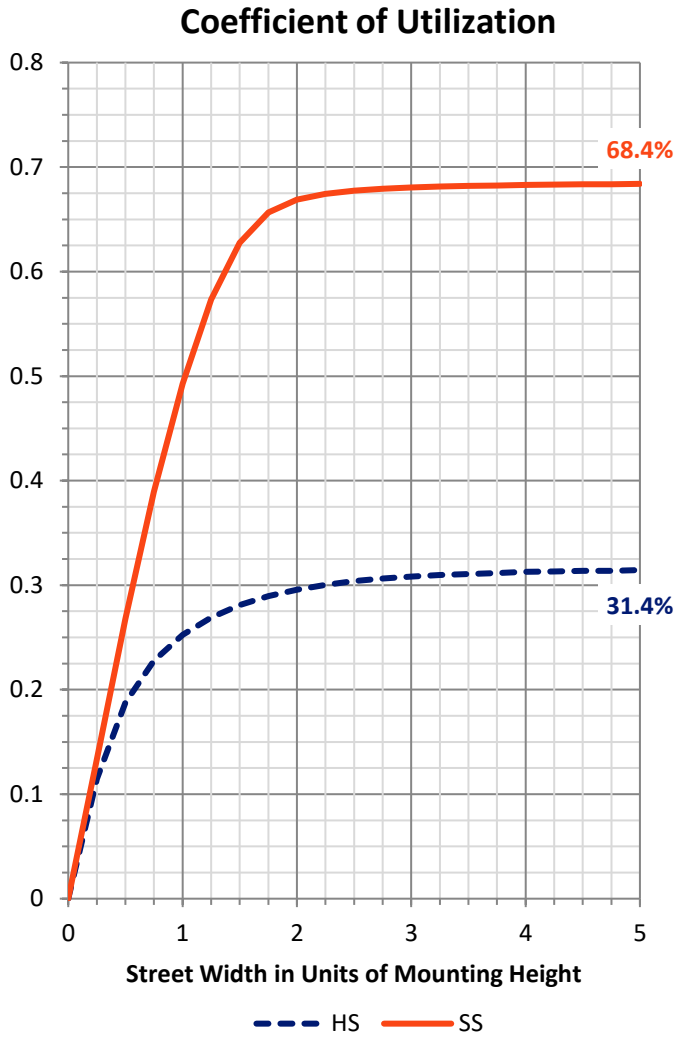
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1986.1	0.0	1986.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4289.1	0.0	4289.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	6275.2	0.0	6275.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.8
10°-20°	377.5	6.0
20°-30°	679.8	10.8
30°-40°	1026.7	16.4
40°-50°	1382.6	22.0
50°-60°	1661.4	26.5
60°-70°	809.1	12.9
70°-80°	199.3	3.2
80°-90°	24.0	0.4
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°	6275.2	100.0
0°-180°	6275.2	100.0



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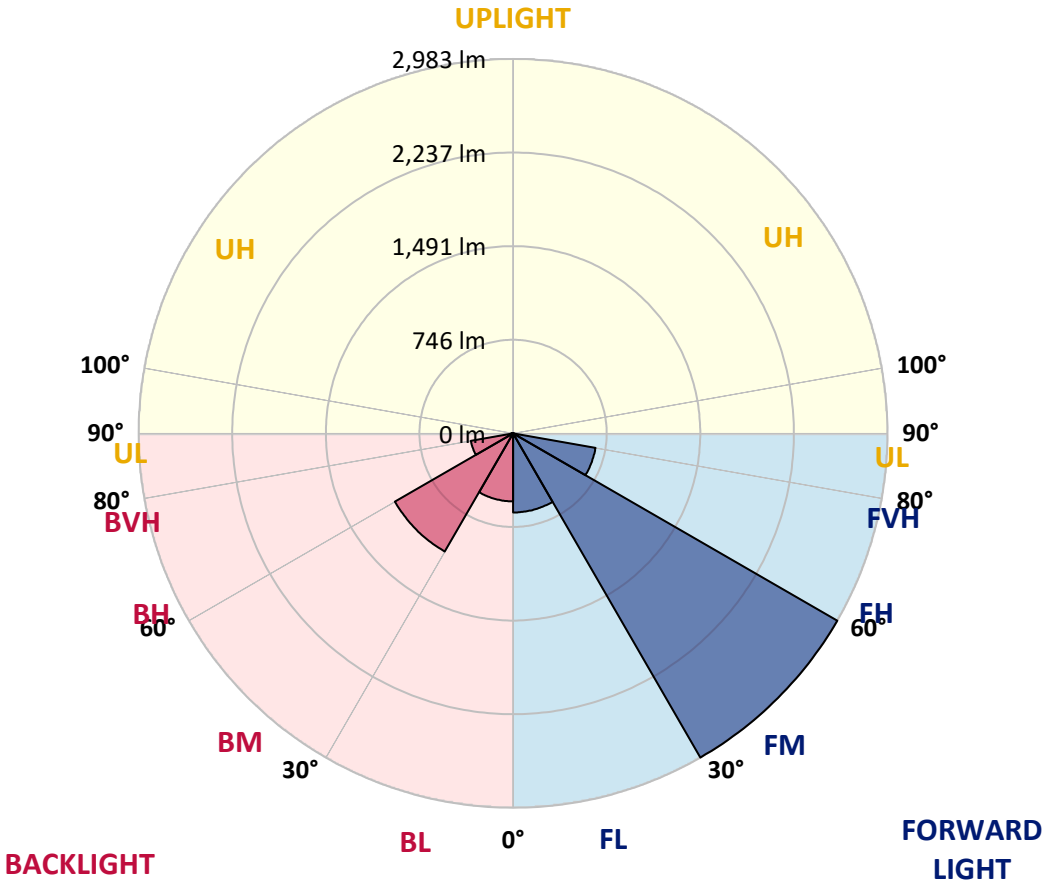
REPORT NUMBER: P632557
CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	630.3	10.0			
FM	(30°-60°)	2982.9	47.5			
FH	(60°-80°)	666.9	10.6			G1/1800
FVH	(80°-90°)	9.0	0.1			G0/10
BL	(0°-30°)	541.8	8.6	B2/1000		
BM	(30°-60°)	1087.8	17.3	B2/2500		
BH	(60°-80°)	341.6	5.4	B1/500		G1/500
BVH	(80°-90°)	14.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P632557
CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	*1163.7*	1163.7	1163.7	1163.7	1163.7
2.5°	1161.6	1161.1	1161.1	1164.3	1164.3	1165.3	*1166.9*	1168.5	1169.0	1166.4	1160.6
5°	1174.3	1174.3	1174.3	1176.9	1176.9	1178.0	*1180.1*	1180.6	1180.1	1175.9	1170.1
7.5°	1194.3	1194.3	1194.8	1198.0	1200.6	1202.2	*1205.9*	1205.4	1203.8	1196.9	1189.6
10°	1227.0	1228.6	1230.2	1233.8	1239.1	1242.8	*1245.4*	1245.4	1243.3	1232.8	1223.3
12.5°	1273.4	1275.5	1277.1	1280.2	1284.4	1290.8	*1296.6*	1296.6	1293.9	1280.8	1266.5
15°	1327.7	1329.8	1329.2	1330.3	1338.2	1347.2	*1351.9*	1355.1	1356.1	1337.7	1315.5
17.5°	1389.9	1392.0	1389.9	1386.7	1387.7	1402.0	*1410.4*	1422.0	1428.9	1404.1	1368.8
20°	1446.2	1444.1	1444.1	1446.2	1449.4	1466.8	*1479.5*	1498.4	1506.9	1476.8	1422.0
22.5°	1505.8	1510.5	1508.4	1508.4	1521.1	1550.1	*1565.4*	1590.1	1599.1	1560.1	1486.3
25°	1582.8	1587.0	1585.9	1587.0	1601.7	1642.8	*1658.1*	1704.0	1712.9	1657.1	1557.5
27.5°	1667.1	1673.9	1677.1	1676.0	1699.8	1753.5	*1772.5*	1836.3	1852.6	1765.6	1633.4
30°	1776.7	1784.1	1786.7	1785.7	1813.6	1886.9	*1908.5*	1981.2	2004.4	1894.2	1729.8
32.5°	1903.7	1911.1	1919.0	1922.2	1958.0	2032.9	*2064.0*	2139.3	2172.5	2042.9	1846.3
35°	2029.7	2036.0	2051.3	2076.1	2125.1	2201.5	*2228.9*	2303.2	2335.4	2197.3	1987.0
37.5°	2168.8	2173.1	2186.2	2220.5	2291.1	2363.9	*2391.3*	2462.4	2466.1	2346.5	2146.2
40°	2321.2	2321.2	2318.5	2352.3	2426.0	2499.3	*2523.0*	2564.1	2542.5	2461.4	2301.1
42.5°	2450.3	2448.2	2450.3	2481.9	2536.7	2596.3	*2616.8*	2608.9	2581.5	2549.4	2441.3
45°	2566.8	2568.4	2587.3	2611.6	2640.0	2675.3	*2687.5*	2642.7	2617.9	2620.0	2553.6
47.5°	2645.8	2647.4	2691.7	2732.3	2749.7	2760.7	*2755.5*	2693.3	2680.6	2704.3	2640.0
50°	2656.4	2664.8	2741.2	2824.5	2867.7	2869.3	*2854.5*	2778.7	2775.0	2801.8	2686.4
52.5°	2658.5	2666.9	2762.3	2912.5	3024.8	3048.5	*3031.6*	2952.6	2914.1	2887.2	2743.3
55°	2650.6	2660.1	2765.5	2971.6	3186.6	3281.5	*3283.0*	3171.3	3048.5	3030.6	2905.7
57.5°	*2340.1*	*2343.8*	*2507.2*	*2821.3*	*3180.3*	*3449.1*	*3469.6*	*3317.8*	*3177.6*	*3160.8*	*3035.9*
60°	1630.2	1644.9	1822.6	2237.4	2671.7	3145.5	*3211.9*	3167.6	3073.8	2951.0	2604.7
62.5°	816.4	829.1	1007.2	1399.3	1842.6	2216.8	*2288.0*	2334.9	2357.0	2225.2	1773.6
65°	351.5	361.0	471.7	731.0	1043.0	1223.8	*1248.6*	1305.0	1443.1	1287.6	955.6
67.5°	235.1	241.4	297.8	445.9	614.6	626.1	*622.5*	634.6	664.6	548.7	431.7
70°	180.3	185.5	223.5	326.8	441.7	377.9	*357.9*	324.7	352.6	359.5	350.0
72.5°	130.7	134.9	163.4	222.9	276.7	241.4	*238.2*	255.1	293.0	303.6	297.8
75°	84.3	86.4	103.8	122.3	142.8	155.0	*161.3*	191.8	230.3	238.2	231.4
77.5°	56.4	58.0	68.0	78.5	81.2	81.7	*83.8*	97.5	123.9	138.6	137.0
80°	29.5	29.5	33.2	33.2	37.9	45.3	*47.4*	56.4	68.5	75.9	76.4
82.5°	11.6	12.1	14.2	15.8	19.0	23.2	*24.8*	29.5	35.8	41.1	45.9
85°	4.7	5.3	5.8	6.9	8.4	10.5	*11.1*	12.6	16.9	21.1	23.7
87.5°	0.0	0.0	0.5	0.5	1.1	1.6	*1.6*	2.1	2.6	4.7	6.3
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: P632557
CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7
2.5°	1167.4	1160.6	1167.4	1169.5	1175.3	1177.4	1173.8	1173.2	1173.2	1168.0	1166.4
5°	1175.3	1169.0	1175.9	1179.0	1187.5	1192.7	1193.8	1198.0	1200.6	1198.5	1198.0
7.5°	1194.8	1186.9	1194.3	1199.1	1210.1	1218.6	1222.2	1231.7	1238.6	1237.5	1237.0
10°	1229.1	1218.6	1227.0	1234.9	1247.0	1257.0	1257.6	1262.8	1269.7	1267.6	1266.5
12.5°	1268.6	1258.6	1268.1	1276.0	1290.2	1294.5	1287.6	1285.5	1286.5	1283.9	1281.8
15°	1317.1	1302.9	1311.3	1320.3	1328.2	1323.4	1308.7	1302.9	1302.4	1298.7	1296.6
17.5°	1365.6	1347.7	1354.0	1358.8	1355.1	1340.3	1321.9	1311.8	1307.1	1299.7	1297.6
20°	1413.6	1390.9	1389.9	1386.2	1369.3	1342.4	1317.6	1297.6	1285.5	1275.5	1271.8
22.5°	1468.4	1436.8	1420.9	1404.1	1367.2	1323.4	1286.0	1257.6	1238.1	1225.4	1221.2
25°	1527.4	1482.6	1449.9	1416.2	1346.1	1282.9	1230.7	1191.7	1168.5	1154.8	1150.0
27.5°	1585.9	1524.3	1475.2	1417.8	1303.9	1224.4	1154.3	1101.6	1078.4	1067.3	1063.6
30°	1665.0	1579.6	1505.3	1397.2	1248.6	1143.2	1055.7	1002.5	987.2	979.3	976.1
32.5°	1756.2	1649.7	1545.3	1354.0	1178.0	1048.3	956.1	919.2	908.6	893.4	892.8
35°	1876.3	1749.8	1583.3	1290.2	1088.9	946.6	879.7	853.3	834.3	810.1	808.0
37.5°	2016.5	1874.7	1603.8	1209.1	985.1	862.8	822.7	793.2	762.7	730.5	726.3
40°	2161.5	2020.7	1605.4	1113.1	883.3	807.5	773.7	735.2	697.3	661.5	656.7
42.5°	2313.8	2156.7	1577.5	1002.5	800.1	759.5	725.2	676.7	634.1	609.8	607.2
45°	2449.8	2266.4	1514.2	886.0	738.4	719.4	675.7	623.5	600.8	583.5	579.8
47.5°	2556.8	2339.1	1428.9	781.6	688.3	678.3	621.4	594.5	577.1	561.3	557.6
50°	2609.5	2355.4	1317.6	696.8	642.0	629.8	590.8	570.3	558.7	546.0	542.9
52.5°	2674.8	2373.9	1221.7	625.6	596.6	580.3	565.5	549.2	540.8	532.9	530.2
55°	2825.0	2443.4	1171.1	568.7	553.4	546.0	543.9	530.2	527.6	522.3	517.6
57.5°	*2886.2*	*2398.6*	*1051.5*	*522.3*	*519.2*	*520.2*	*525.5*	*512.8*	*510.2*	*503.9*	*500.7*
60°	2321.2	1813.1	712.1	482.3	490.7	497.5	502.8	490.2	486.5	485.4	481.2
62.5°	1487.4	1115.3	497.0	444.8	457.5	465.9	469.1	457.0	454.3	462.8	463.3
65°	774.2	607.7	403.2	404.8	415.3	428.0	434.3	430.1	429.0	438.0	438.5
67.5°	395.3	371.6	351.5	357.3	365.8	382.1	396.9	415.3	421.6	422.7	423.2
70°	336.8	326.2	316.2	319.9	328.9	337.8	352.1	361.0	350.5	347.9	346.8
72.5°	286.7	278.8	274.1	278.3	283.0	281.4	277.2	281.4	283.0	283.6	284.1
75°	222.9	217.1	213.5	214.0	214.0	208.2	200.3	195.5	190.3	186.1	186.1
77.5°	136.5	137.6	141.3	140.7	140.2	138.1	130.2	126.0	113.3	109.6	109.6
80°	78.0	79.6	83.3	84.3	84.3	81.7	73.8	69.0	63.2	60.6	60.1
82.5°	47.4	49.5	51.7	52.7	53.2	50.1	43.2	39.5	36.4	33.7	33.7
85°	24.8	25.8	27.9	28.5	26.9	23.7	20.0	18.4	15.3	14.8	14.8
87.5°	6.9	7.4	8.4	6.9	6.3	4.7	2.6	2.1	1.1	0.5	0.5
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

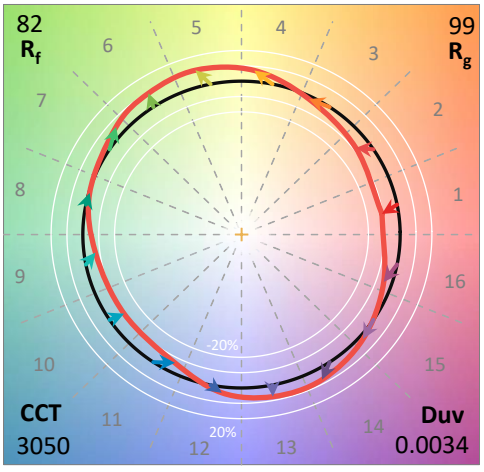
Test Information

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

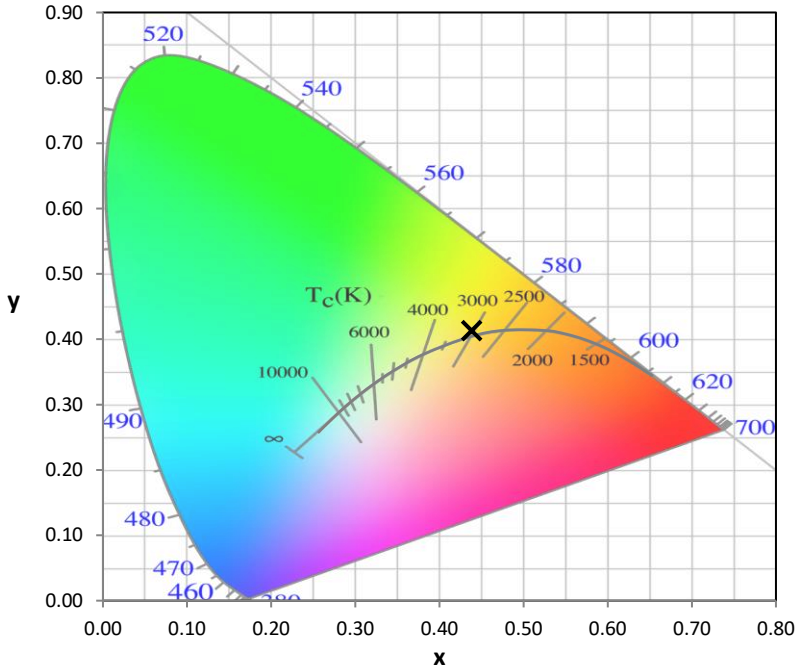
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

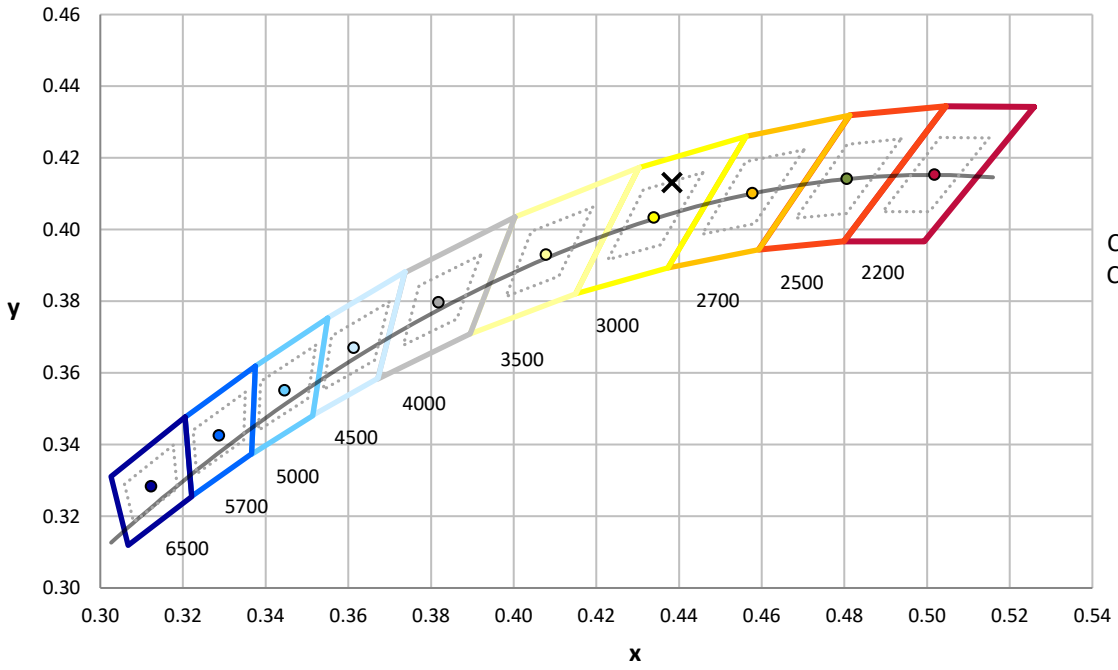
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

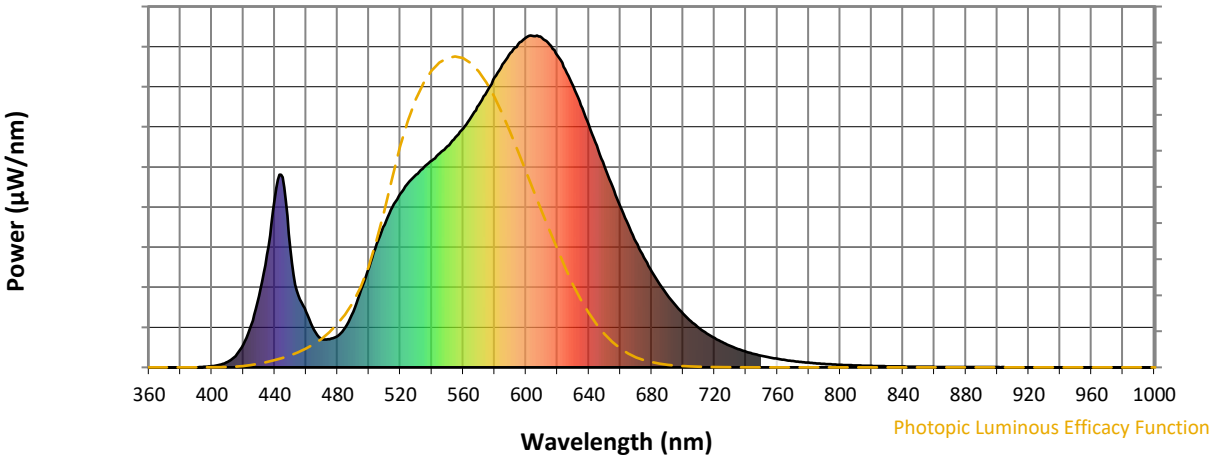


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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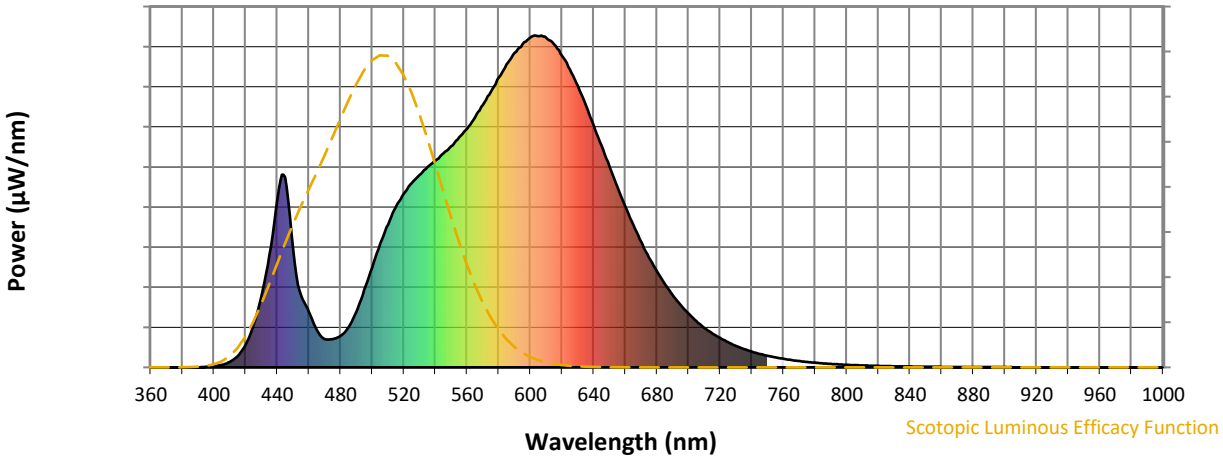
Scotopic Flux vs. Wavelength



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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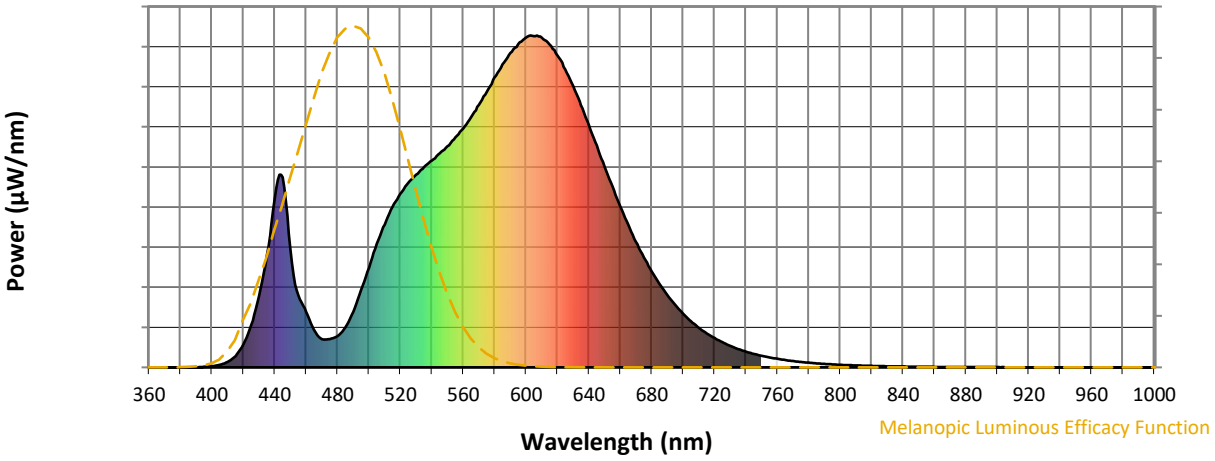
Melanopic Flux vs. Wavelength



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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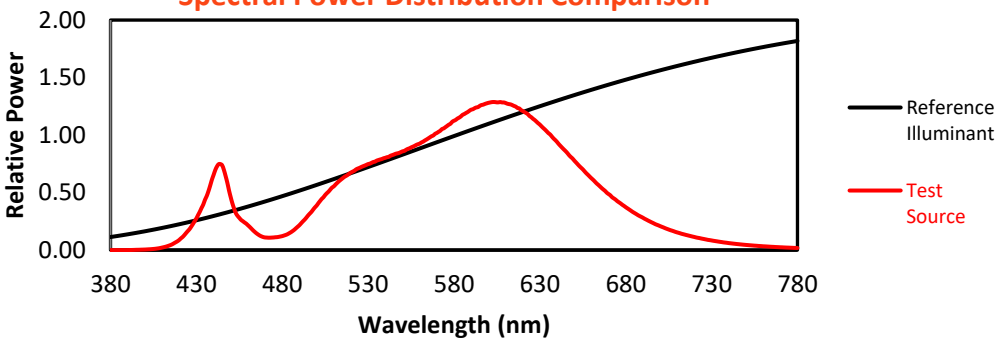
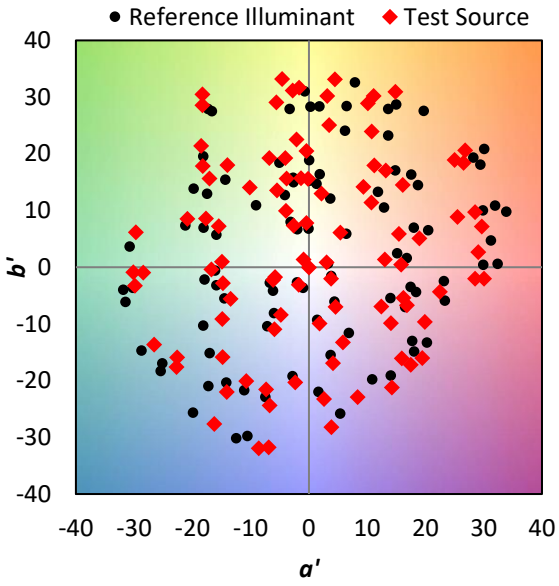
Summary

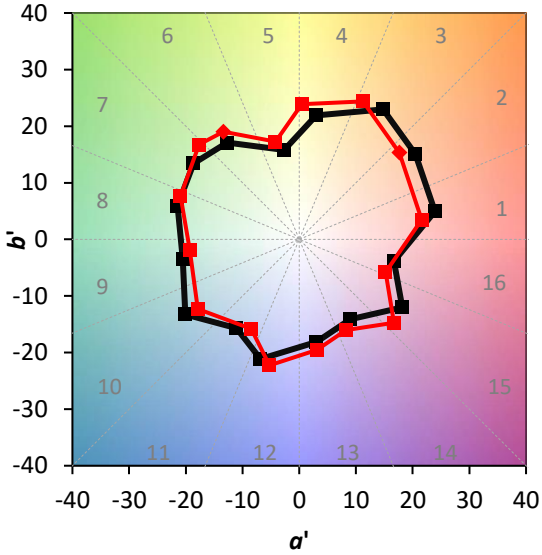
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

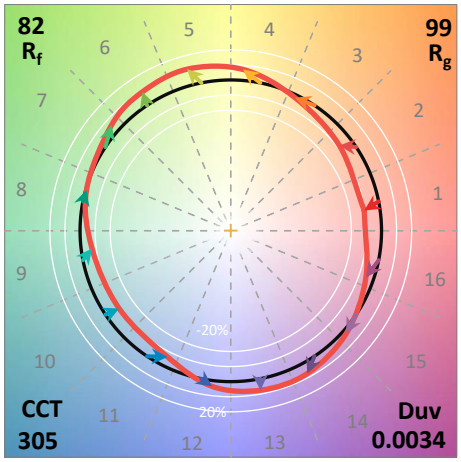
Spectral Power Distribution Comparison

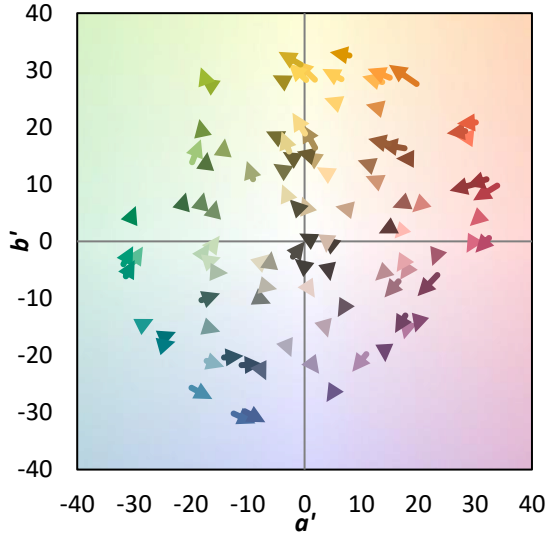


Color Vector Graphics









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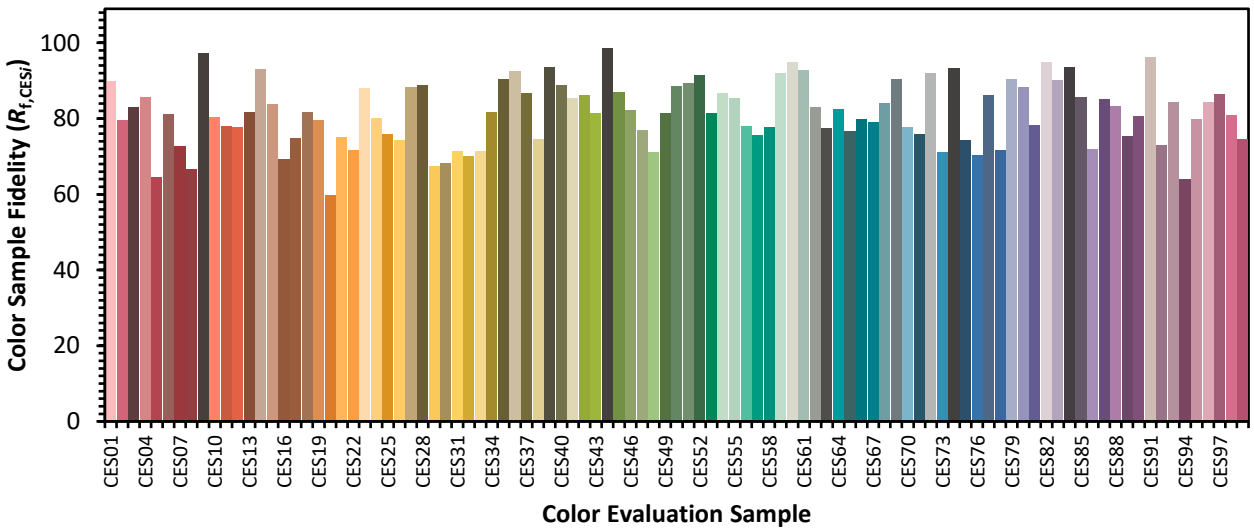
Individual Sample Fidelity Index ($R_{f,i}$)

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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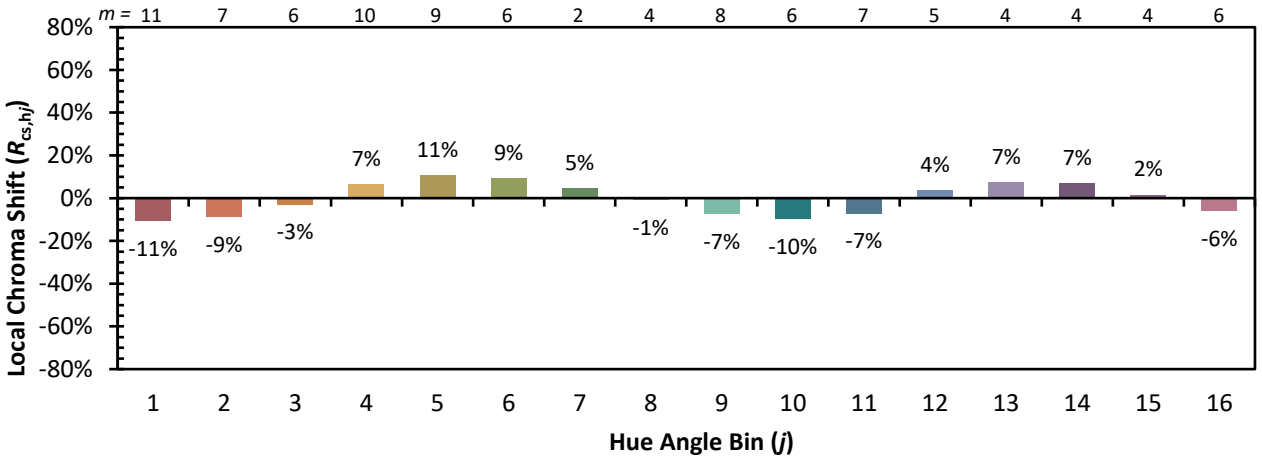
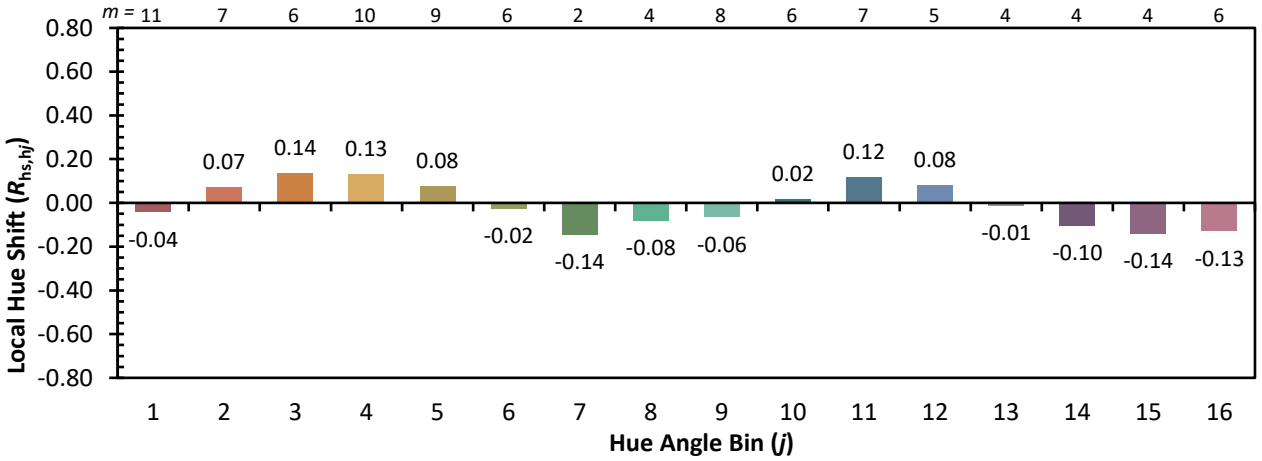
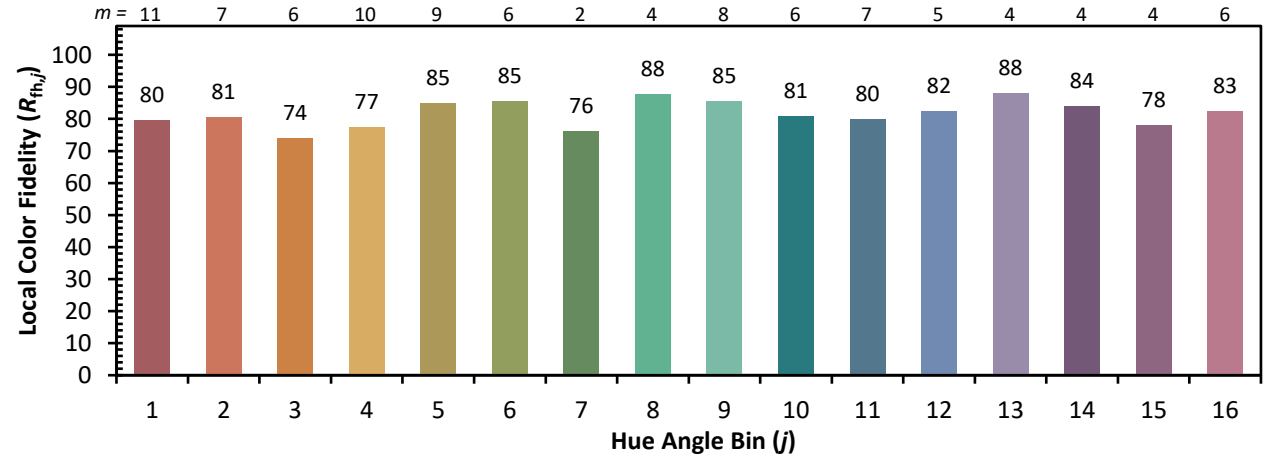
Color Rendition by Hue-Angle Bin







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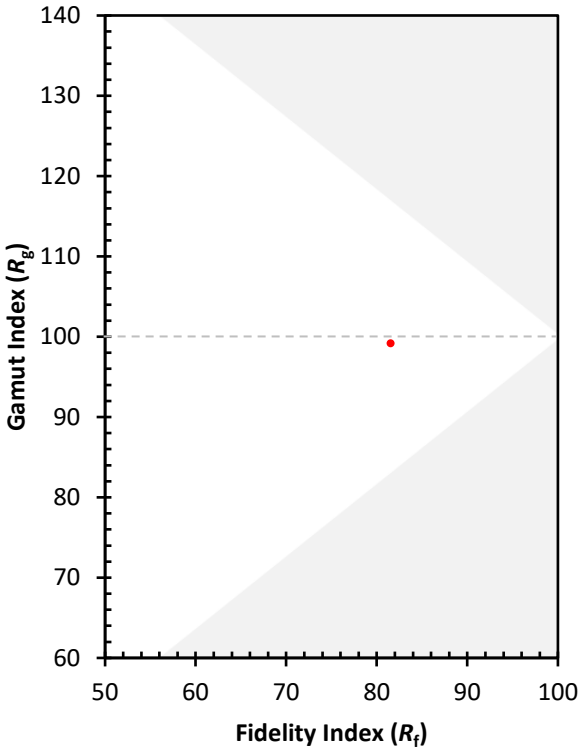
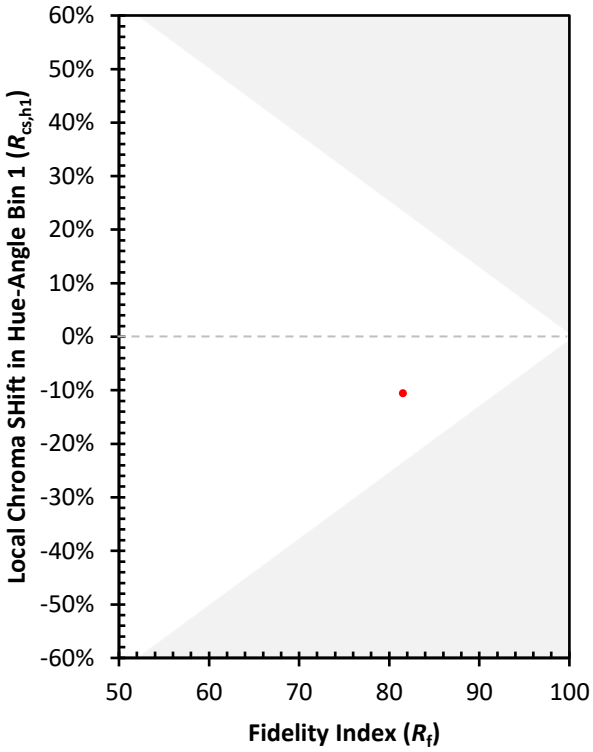
Measure Comparisons





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