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: P635001

Luminaire Tested: GWS-SA3C-830-U-RW-W-GRSBK

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:	P635001
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7182.1 lumens
Efficiency:	N/A
Efficacy:	77.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G0

Input Watts (W):	93
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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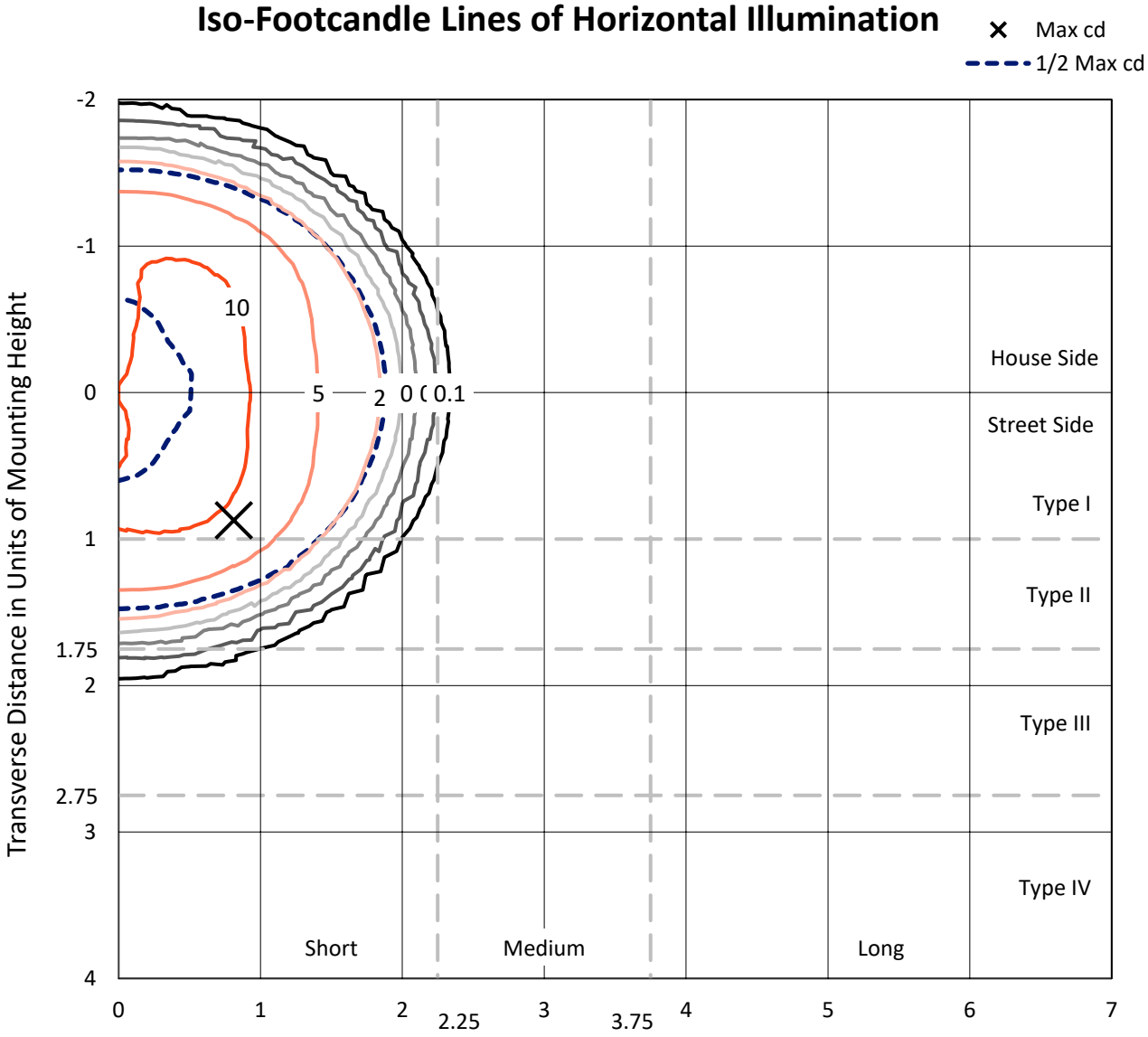
REPORT NUMBER: P635001
CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type V - Short - N/A

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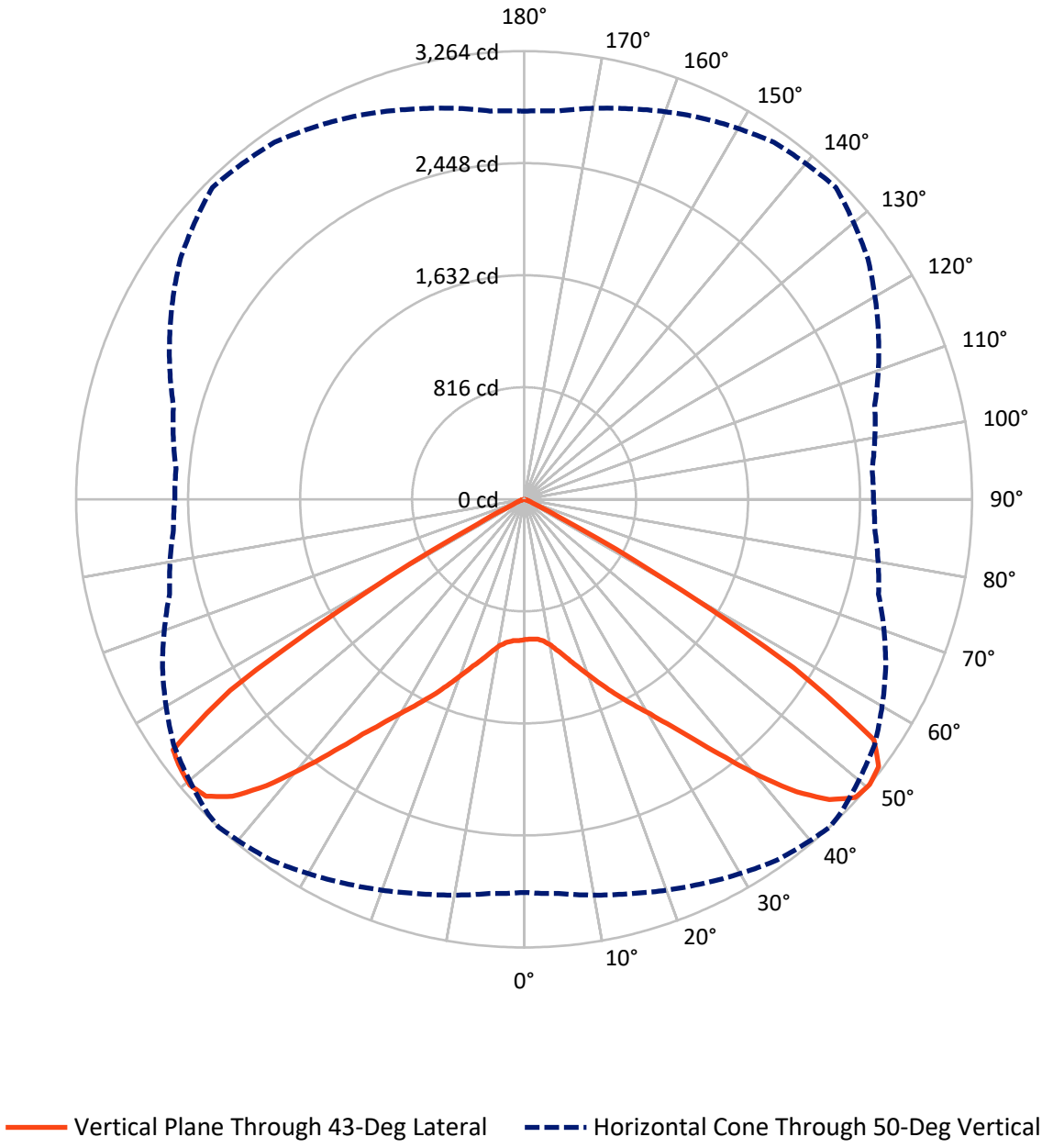
Luminous Intensity Polar Plot



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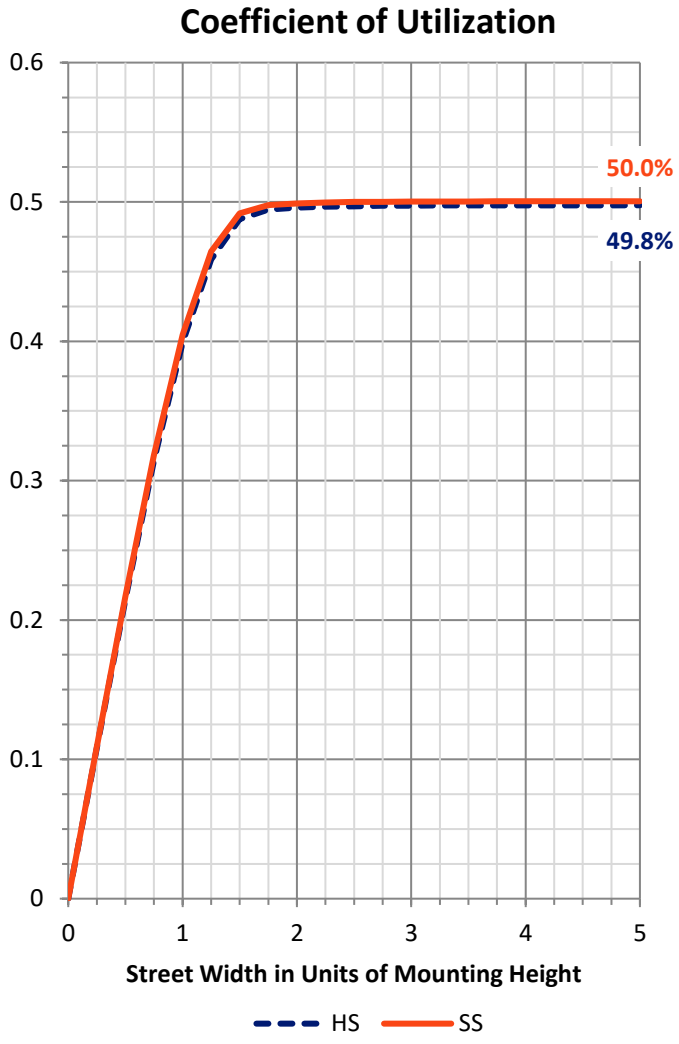
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.0	0.0	3591.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3591.1	0.0	3591.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7182.1	0.0	7182.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.4
10°-20°	346.2	4.8
20°-30°	700.4	9.8
30°-40°	1299.5	18.1
40°-50°	2157.1	30.0
50°-60°	2201.4	30.7
60°-70°	361.0	5.0
70°-80°	15.8	0.2
80°-90°	0.2	0.0
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°	7182.1	100.0
0°-180°	7182.1	100.0



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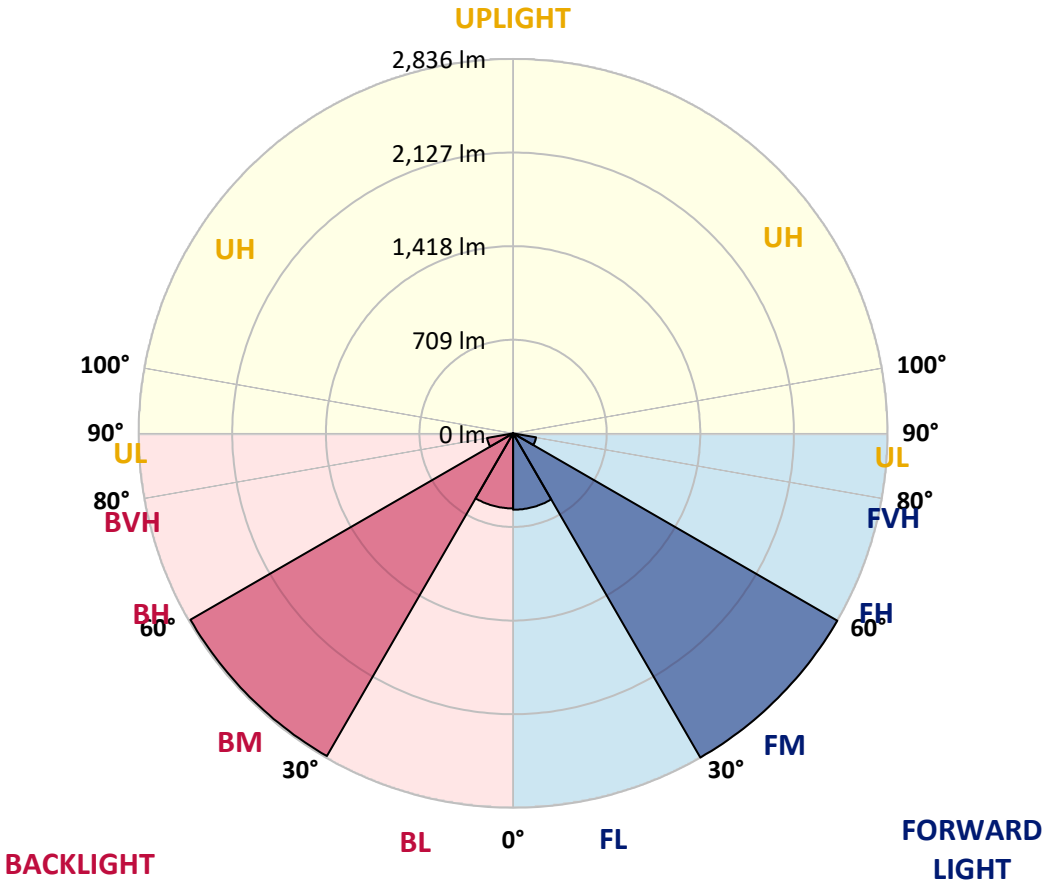
CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	578.6	8.1			
FM	(30°-60°)	2835.8	39.5			
FH	(60°-80°)	176.6	2.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	568.6	7.9	B2/1000		
BM	(30°-60°)	2822.1	39.3	B3/5000		
BH	(60°-80°)	200.2	2.8	B1/500		G0/660
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
Type V Short



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REPORT NUMBER: P635001
CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1021.5	1021.5	1021.5	1021.5	1021.5	*1021.5*	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1002.5	1004.9	1008.0	1011.2	1015.2	*1019.2*	1021.5	1028.7	1027.1	1033.5	1033.5
5°	991.4	993.7	997.7	1004.9	1013.6	*1022.3*	1028.7	1043.0	1050.9	1063.6	1068.4
7.5°	996.9	1000.1	1004.9	1016.0	1029.5	*1043.0*	1050.1	1073.2	1089.1	1112.9	1126.4
10°	1015.2	1018.4	1026.3	1045.4	1062.8	*1081.9*	1090.6	1120.0	1145.5	1178.0	1197.1
12.5°	1035.8	1039.8	1055.7	1084.3	1114.5	*1139.9*	1151.8	1184.4	1210.6	1247.1	1277.3
15°	1057.3	1063.6	1088.3	1130.4	1173.3	*1207.4*	1220.1	1255.1	1281.3	1320.2	1354.4
17.5°	1107.3	1114.5	1142.3	1187.6	1246.3	*1286.1*	1297.2	1333.7	1353.6	1379.8	1415.5
20°	1170.1	1183.6	1217.7	1272.6	1336.9	*1375.0*	1383.0	1418.7	1417.1	1428.2	1459.2
22.5°	1247.9	1257.5	1294.8	1359.9	1432.2	*1474.3*	1492.6	1507.7	1487.8	1478.3	1498.2
25°	1329.0	1340.1	1380.6	1452.1	1533.1	*1581.6*	1596.7	1608.6	1576.8	1541.0	1543.4
27.5°	1433.8	1441.8	1481.5	1557.7	1638.8	*1693.6*	1707.1	1727.7	1685.6	1628.4	1612.5
30°	1558.5	1566.5	1608.6	1688.8	1769.0	*1815.9*	1836.5	1862.0	1815.9	1744.4	1726.1
32.5°	1704.7	1712.6	1766.6	1849.3	1915.2	*1966.0*	1985.9	2012.9	1976.4	1896.1	1875.5
35°	1879.4	1884.2	1947.8	2037.5	2107.4	*2156.7*	2170.2	2202.0	2161.4	2081.2	2070.1
37.5°	2082.0	2087.6	2156.7	2260.7	2332.2	*2387.0*	2408.5	2417.2	2368.0	2278.2	2269.5
40°	2304.4	2322.7	2390.2	2502.2	2582.4	*2651.6*	2670.6	2641.2	2572.1	2449.8	2433.9
42.5°	2536.4	2552.3	2627.7	2749.3	2842.2	*2912.9*	2913.7	2850.1	2732.6	2563.4	2539.6
45°	2729.4	2735.8	2833.5	2955.8	3070.2	*3120.2*	3125.0	3009.8	2832.7	2629.3	2578.5
47.5°	2862.1	2872.4	2957.4	3074.9	3201.2	*3246.5*	3237.0	3093.2	2880.3	2672.2	2588.0
50°	*2863.6*	*2881.1*	*2973.3*	*3086.9*	*3209.2*	*3264.0*	*3250.5*	*3117.0*	*2907.3*	*2673.8*	*2565.0*
52.5°	2610.2	2638.8	2789.0	2953.4	3140.9	*3234.6*	3237.8	3148.0	2897.0	2648.4	2544.3
55°	1969.2	2000.2	2189.2	2469.6	2831.9	*3093.2*	3138.5	3111.5	2885.1	2659.5	2580.9
57.5°	1042.2	1018.4	1123.2	1401.2	1856.4	*2318.7*	2451.4	2667.4	2752.4	2673.0	2648.4
60°	227.2	242.3	322.5	434.5	724.5	*1090.6*	1220.1	1590.3	2030.4	2225.8	2367.2
62.5°	97.7	96.1	100.1	113.6	166.0	*276.4*	337.6	551.3	869.8	1194.7	1414.7
65°	80.2	81.0	84.2	84.2	78.6	*79.4*	83.4	126.3	203.4	285.2	382.9
67.5°	60.4	61.2	66.7	68.3	64.3	*57.2*	56.4	47.7	50.0	62.8	65.1
70°	38.1	38.1	41.3	42.9	42.9	*39.7*	38.9	34.2	33.4	38.1	42.9
72.5°	20.7	20.7	22.2	23.0	22.2	*21.4*	21.4	20.7	19.9	23.0	29.4
75°	8.7	8.7	9.5	9.5	8.7	*8.7*	8.7	8.7	8.7	10.3	15.9
77.5°	1.6	2.4	3.2	2.4	1.6	*1.6*	1.6	2.4	2.4	3.2	4.8
80°	0.8	0.8	1.6	0.8	0.0	*0.0*	0.0	0.0	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.8
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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Scaled Data Report

REPORT NUMBER: P635001
CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1039.0	1030.3	1033.5	1035.0	1032.7	1031.1	1022.3	1020.0	1016.0	1009.6	1008.0
5°	1074.0	1066.8	1066.0	1061.3	1050.1	1036.6	1020.0	1012.8	1004.9	996.9	995.3
7.5°	1132.7	1124.0	1118.5	1102.6	1077.1	1055.7	1027.9	1012.8	1002.5	992.1	989.8
10°	1208.2	1197.9	1182.0	1152.6	1118.5	1087.5	1054.9	1035.0	1019.2	1004.9	1004.1
12.5°	1288.4	1277.3	1248.7	1211.4	1170.1	1141.5	1100.2	1072.4	1048.5	1027.1	1024.7
15°	1372.6	1359.1	1320.2	1275.7	1237.6	1208.2	1162.9	1118.5	1081.9	1050.9	1047.8
17.5°	1437.0	1420.3	1374.2	1340.9	1309.9	1279.7	1228.9	1170.1	1121.6	1084.3	1075.6
20°	1477.5	1461.6	1417.9	1399.7	1385.4	1363.9	1303.5	1242.4	1188.4	1142.3	1134.3
22.5°	1516.4	1497.4	1459.2	1459.2	1470.4	1461.6	1396.5	1326.6	1263.0	1209.8	1197.9
25°	1560.1	1545.0	1518.0	1540.3	1568.1	1567.3	1500.5	1413.2	1340.1	1280.5	1268.6
27.5°	1623.7	1608.6	1599.0	1641.1	1676.1	1673.7	1600.6	1506.1	1429.0	1370.3	1359.1
30°	1735.7	1721.4	1711.0	1761.9	1806.4	1789.7	1709.5	1618.1	1540.3	1473.5	1465.6
32.5°	1885.0	1869.9	1856.4	1907.2	1947.0	1925.5	1849.3	1763.5	1673.7	1608.6	1592.7
35°	2081.2	2049.4	2035.9	2096.3	2113.0	2089.2	2016.1	1940.6	1845.3	1770.6	1760.3
37.5°	2283.8	2246.4	2236.9	2289.3	2316.3	2307.6	2221.8	2143.2	2039.9	1957.3	1945.4
40°	2456.9	2422.8	2406.1	2487.9	2549.1	2554.6	2477.6	2381.5	2259.9	2174.1	2152.7
42.5°	2558.6	2529.2	2525.3	2652.4	2752.4	2823.9	2731.8	2632.5	2504.6	2407.7	2390.2
45°	2581.7	2562.6	2596.0	2762.8	2918.5	3048.7	2970.1	2865.2	2727.0	2624.5	2607.9
47.5°	2579.3	2572.9	2632.5	2820.0	3017.0	3177.4	3138.5	3020.1	2886.7	2779.4	2763.6
50°	*2545.1*	*2545.9*	*2645.2*	*2848.6*	*3056.7*	*3212.4*	*3173.4*	*3063.8*	*2944.7*	*2839.0*	*2826.3*
52.5°	2531.6	2526.8	2621.4	2839.8	3097.2	3196.5	3109.1	2986.0	2853.3	2723.0	2704.0
55°	2579.3	2567.4	2624.5	2832.7	3102.0	3187.7	2957.4	2690.5	2418.8	2264.7	2252.0
57.5°	2650.8	2638.1	2665.1	2780.2	2853.3	2650.8	2176.5	1746.0	1466.4	1348.0	1296.4
60°	2367.2	2358.4	2337.8	2198.8	1885.8	1422.7	969.1	618.0	444.0	359.0	359.0
62.5°	1468.8	1456.8	1344.8	999.3	726.0	420.2	231.2	144.6	109.6	102.5	101.7
65°	412.3	409.9	339.2	239.9	152.5	94.5	83.4	85.0	83.4	81.0	80.2
67.5°	62.0	68.3	68.3	55.6	53.2	59.6	69.9	74.7	70.7	66.7	65.1
70°	39.7	42.9	41.3	35.7	38.1	44.5	50.0	50.8	48.5	44.5	43.7
72.5°	27.8	31.0	25.4	23.0	23.8	26.2	28.6	28.6	27.8	26.2	24.6
75°	16.7	16.7	11.9	11.1	11.1	11.9	11.9	13.5	13.5	12.7	11.9
77.5°	5.6	6.4	4.0	3.2	3.2	3.2	4.0	4.8	4.8	4.0	3.2
80°	0.8	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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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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

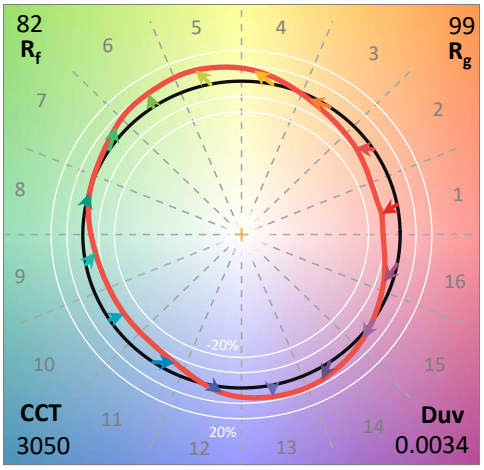
Test Information

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

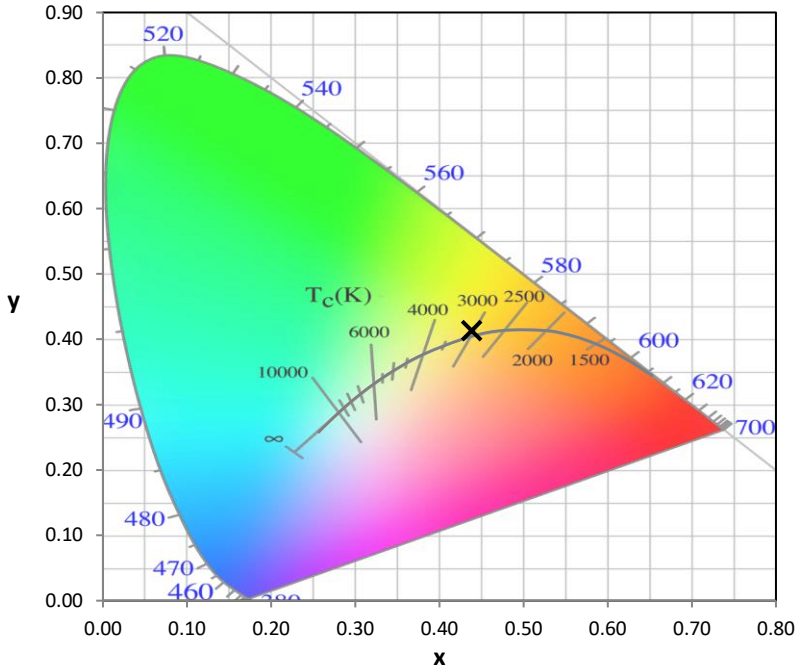
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

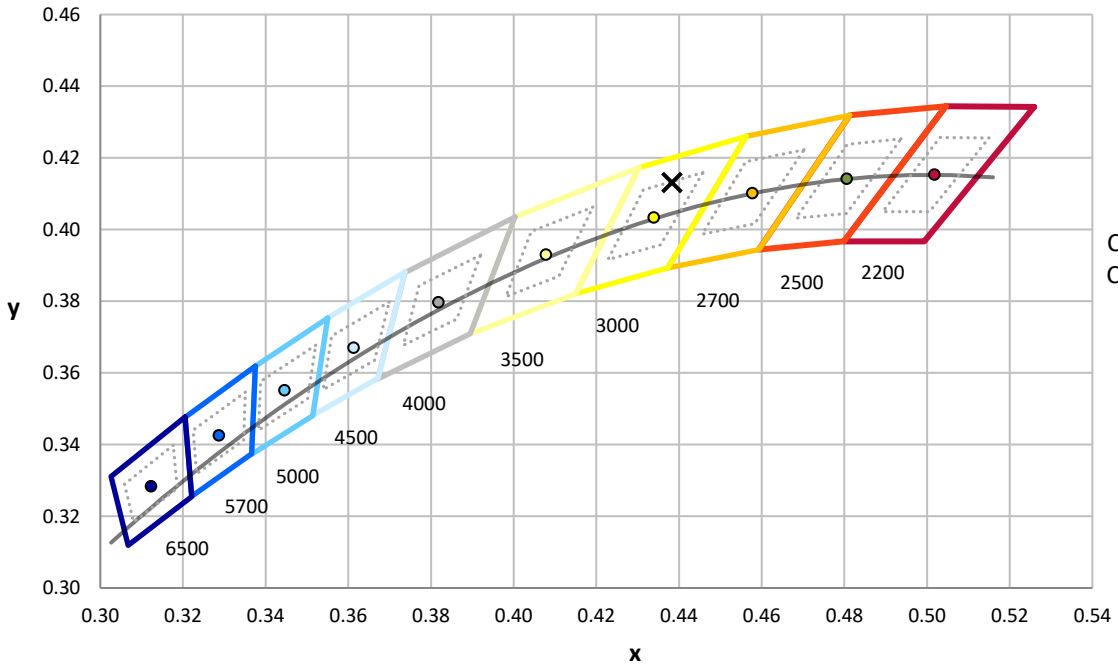
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

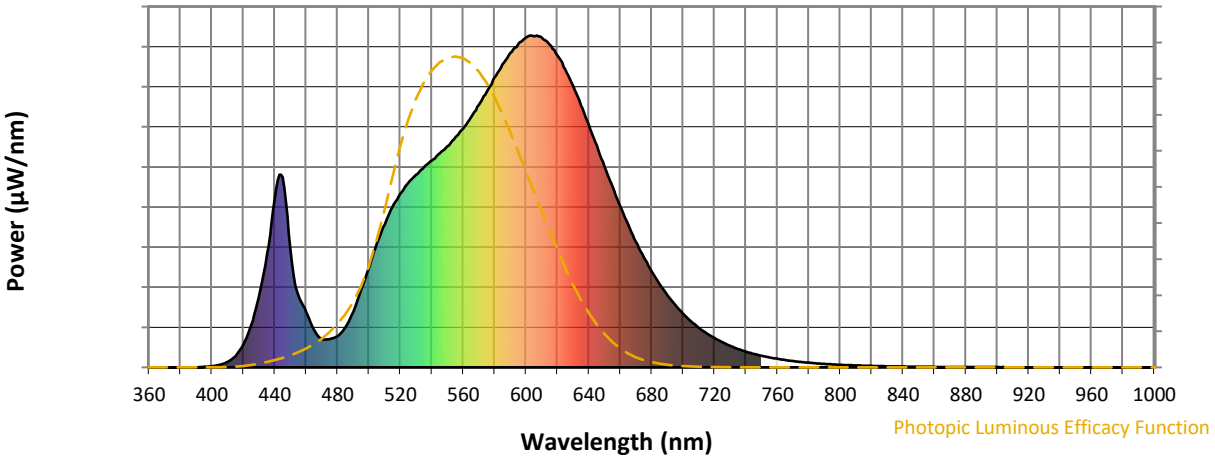


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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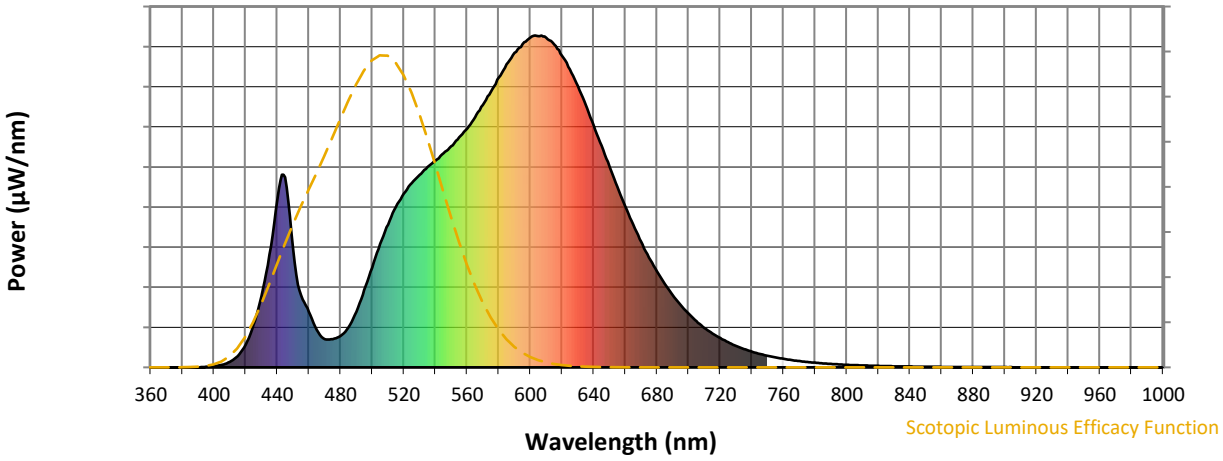
Scotopic Flux vs. Wavelength



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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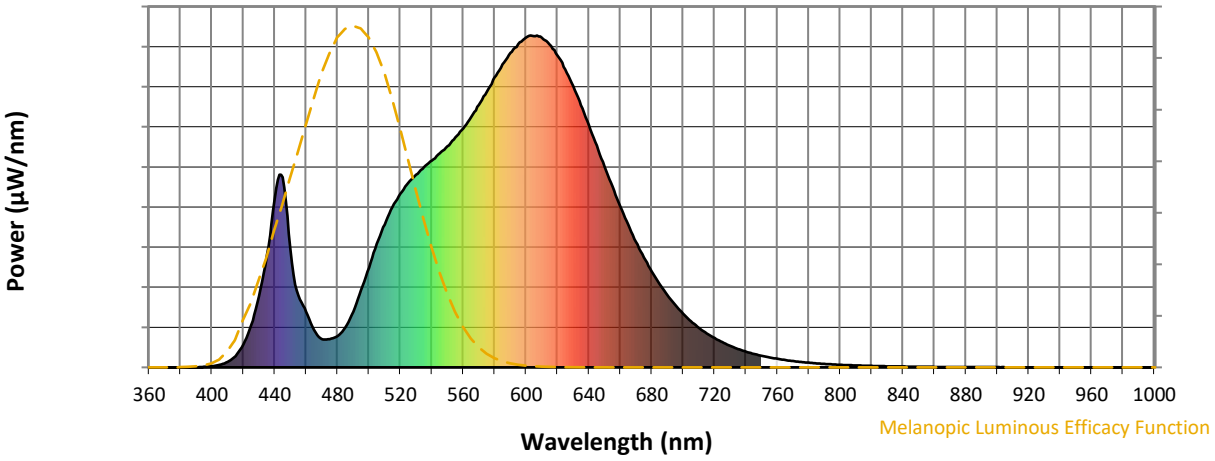
Melanopic Flux vs. Wavelength



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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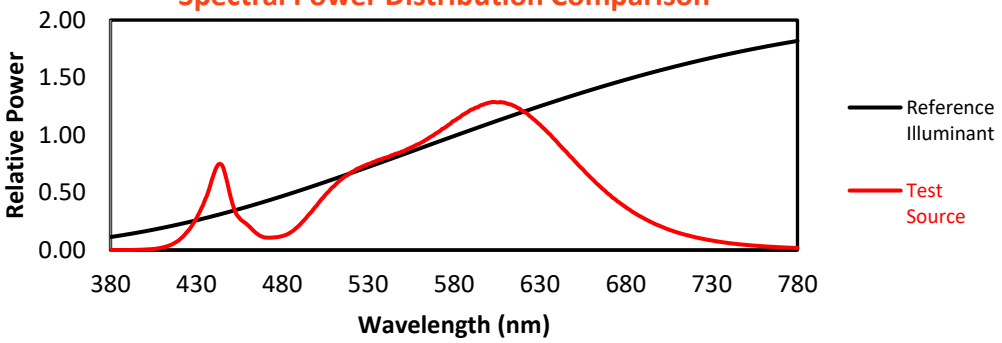
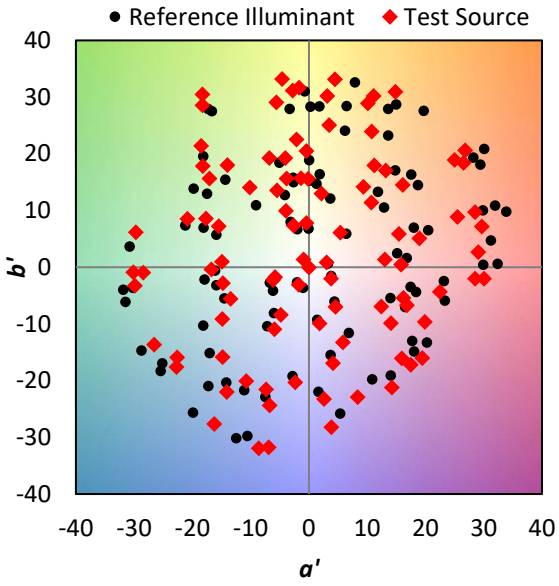
Summary

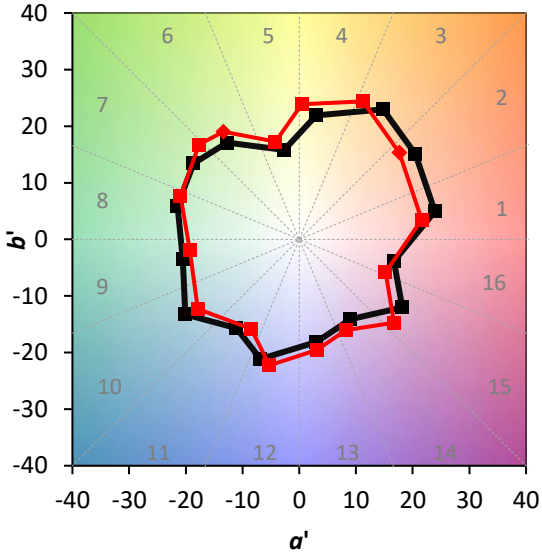
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

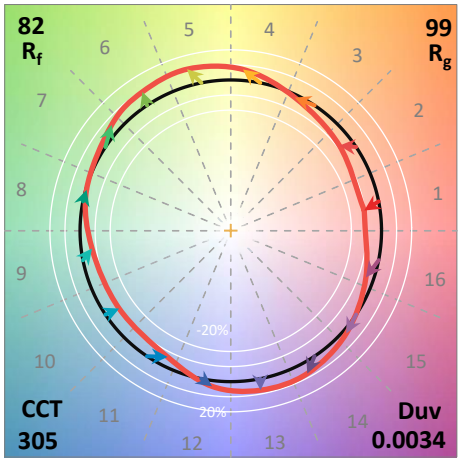
Spectral Power Distribution Comparison

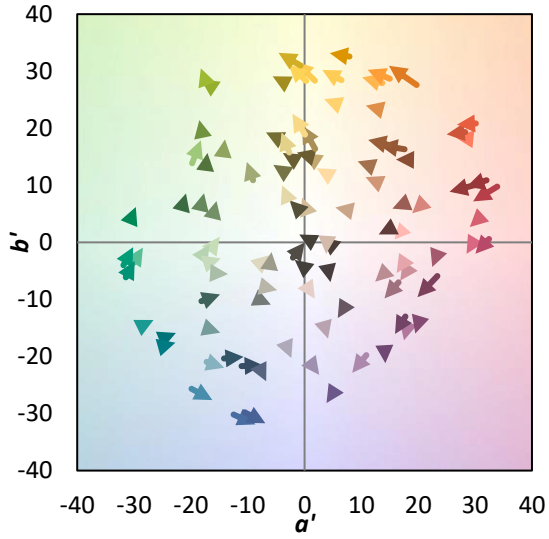


Color Vector Graphics









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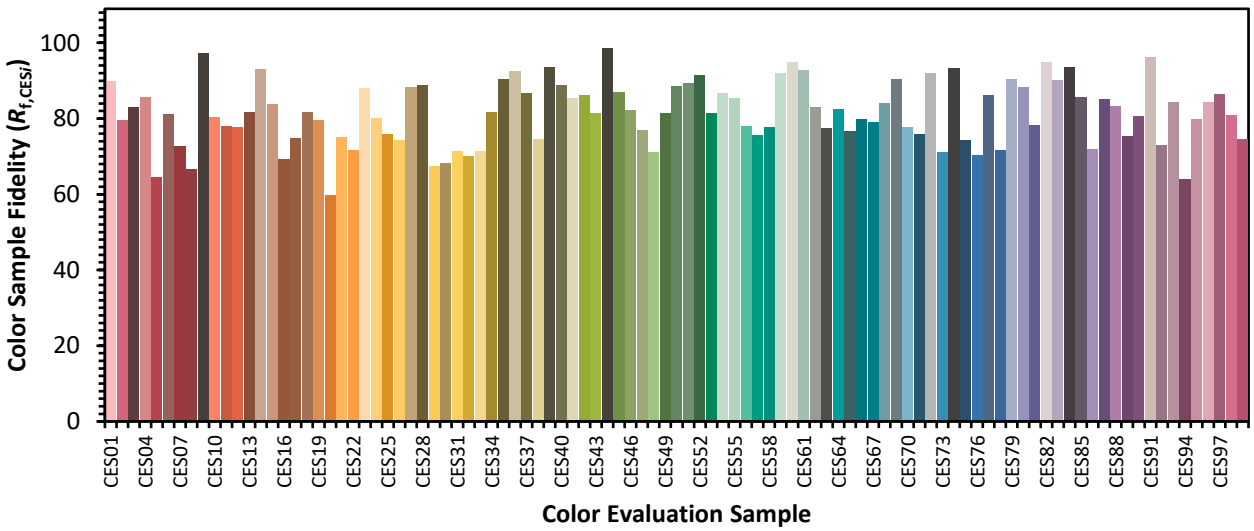
Individual Sample Fidelity Index ($R_{f,i}$)

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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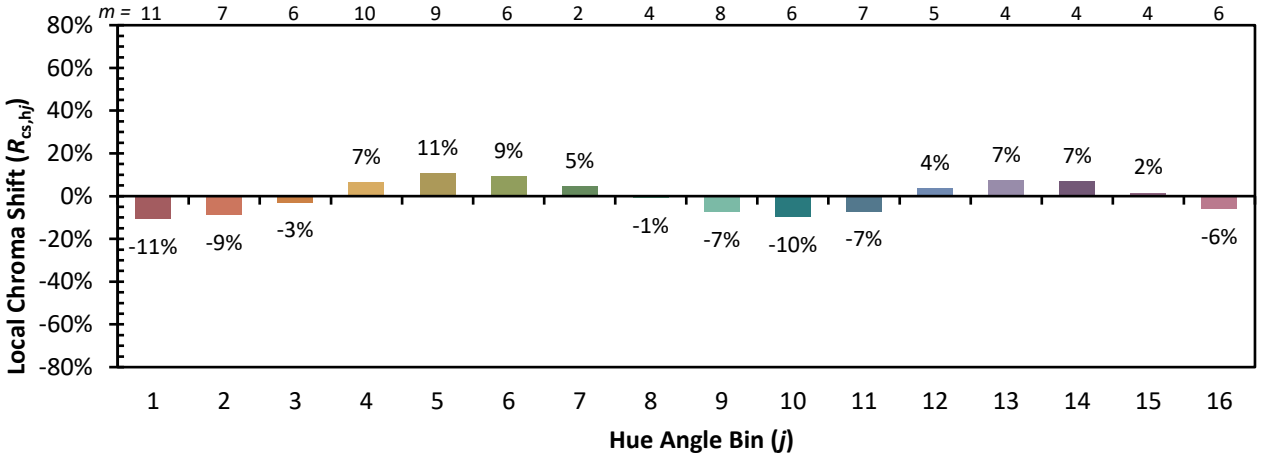
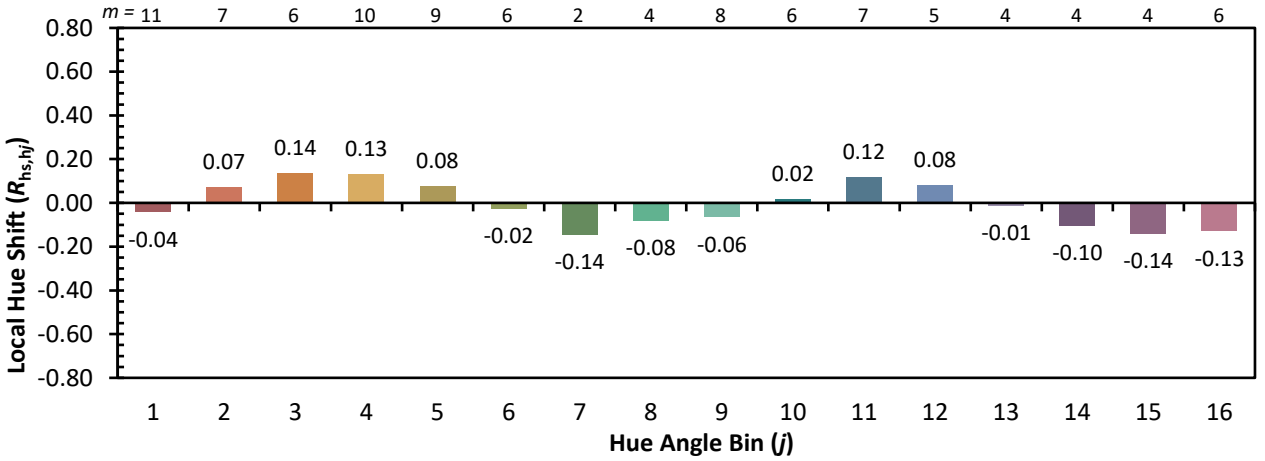
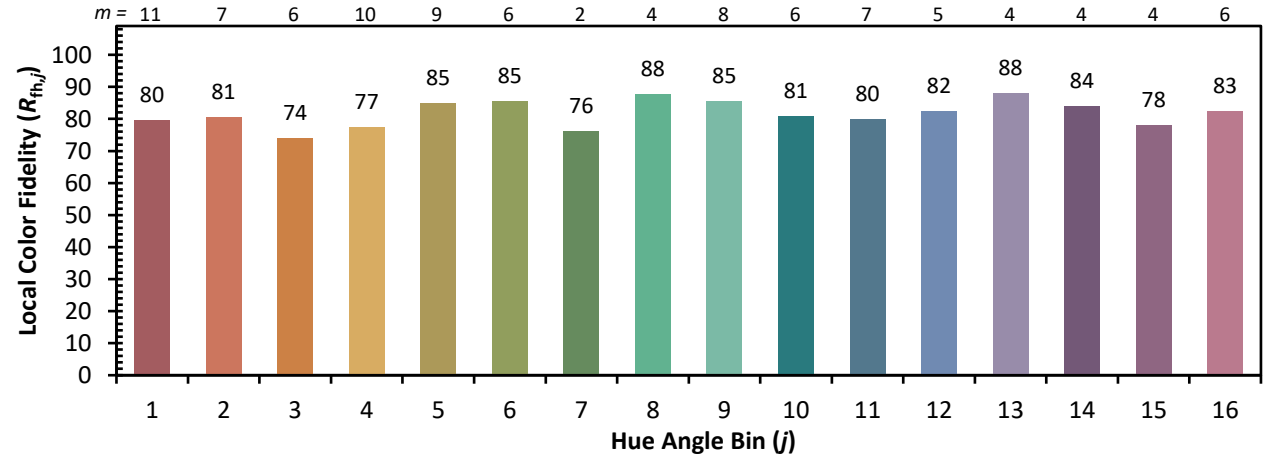
Color Rendition by Hue-Angle Bin







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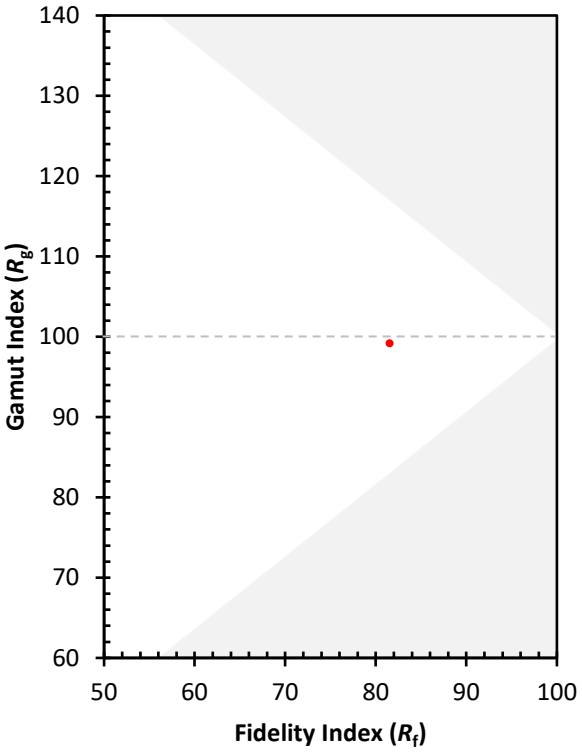
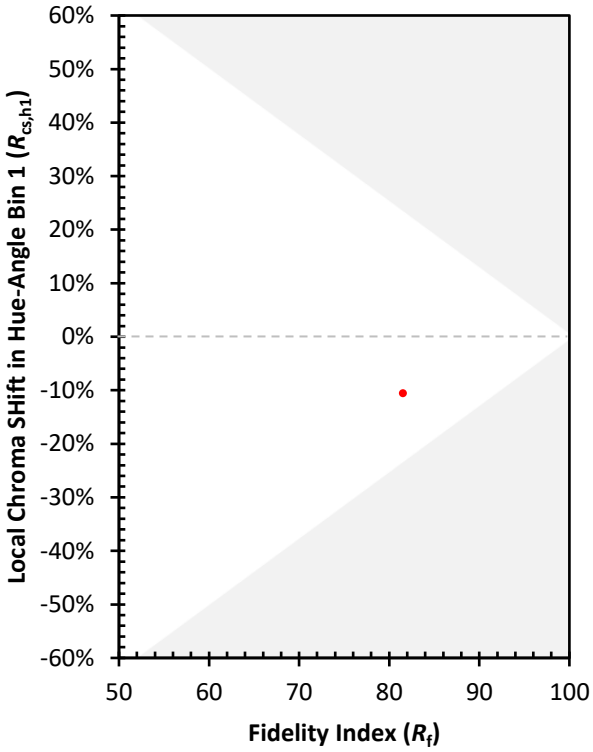
Measure Comparisons





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