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: P634509

Luminaire Tested: GWS-SA3B-830-U-SL2-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:	P634509
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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:	4851.8 lumens
Efficiency:	N/A
Efficacy:	71.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	68.3
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: P634509
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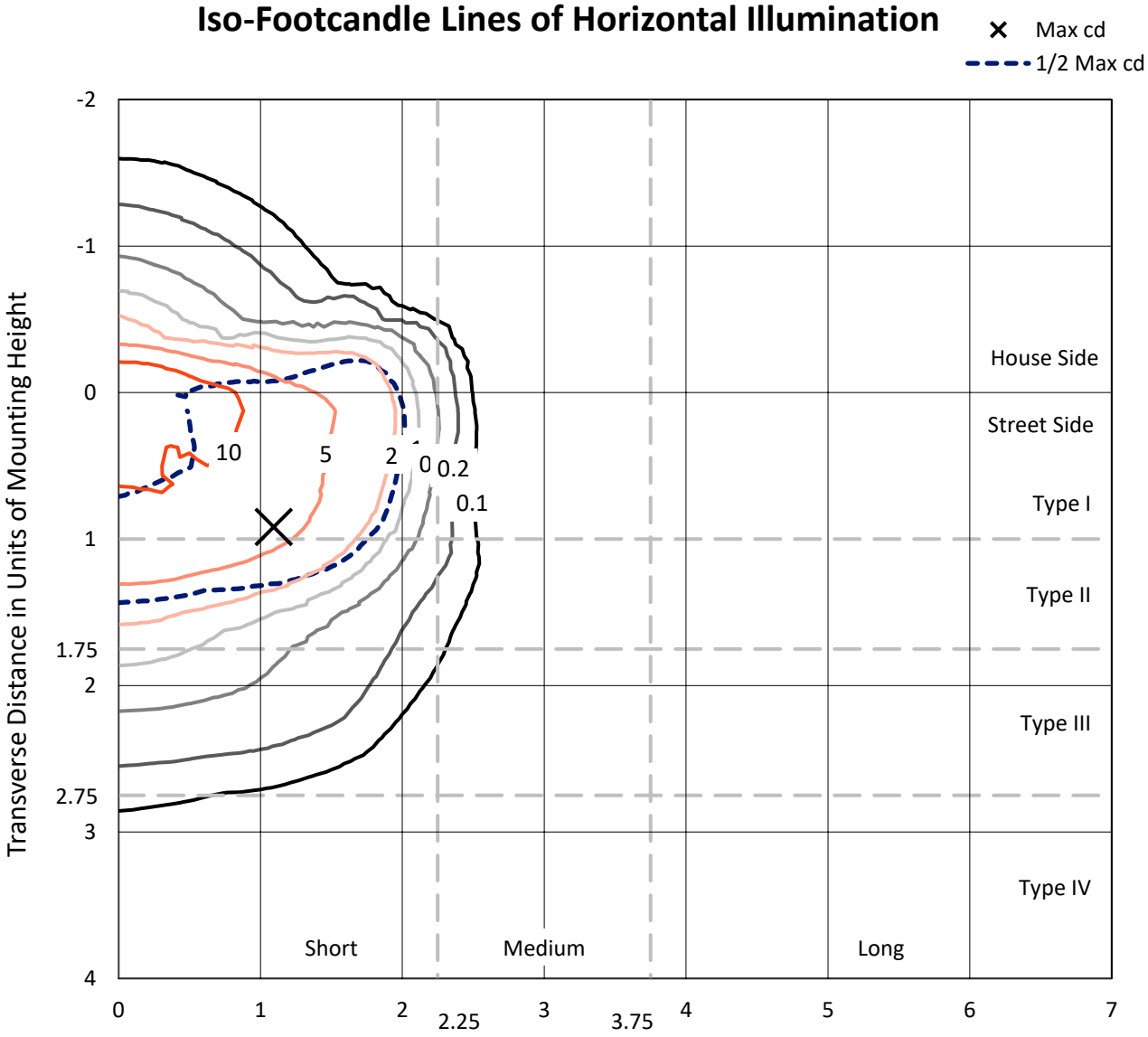
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17 fc
Type II - Short - N/A

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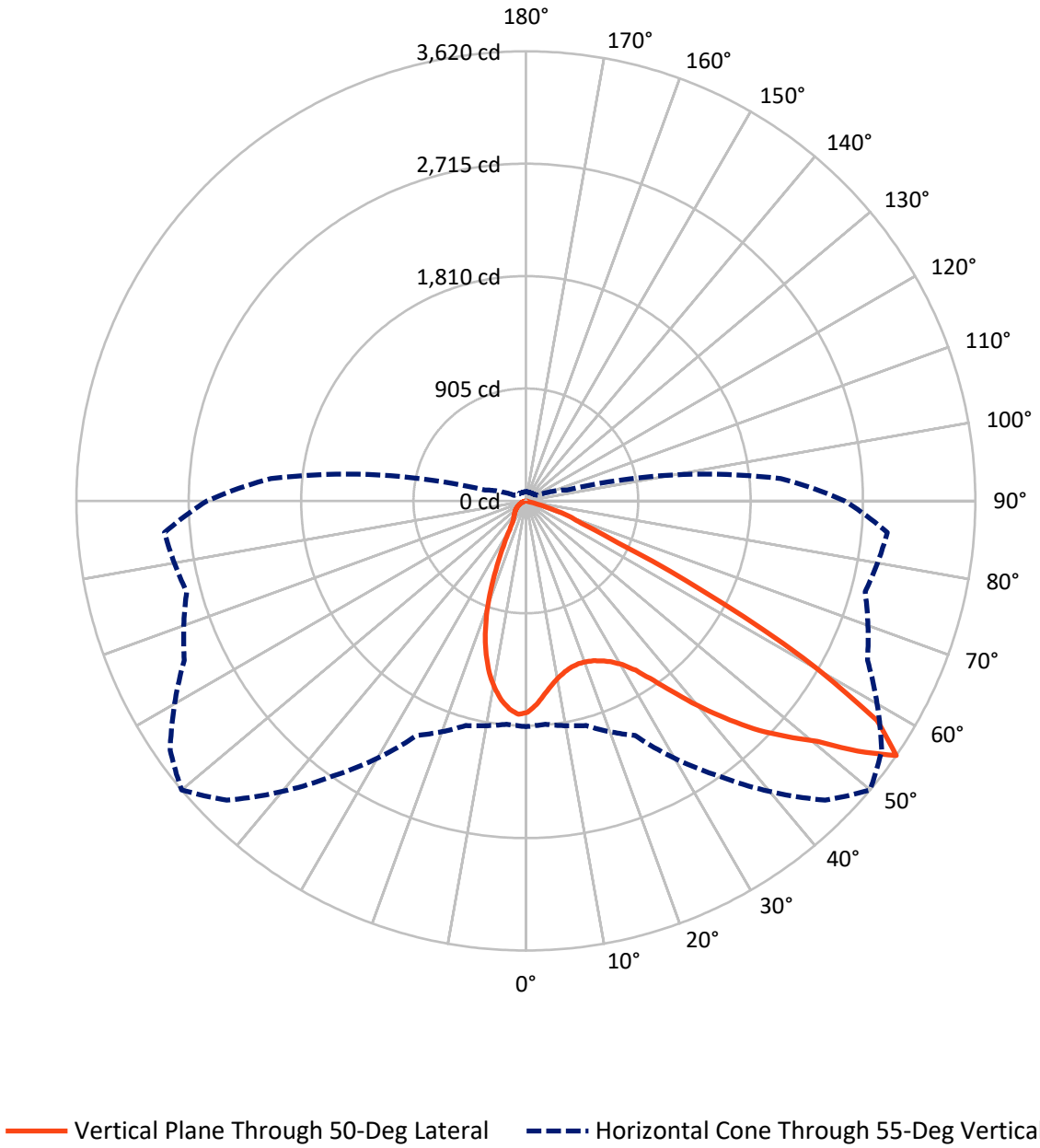
Luminous Intensity Polar Plot



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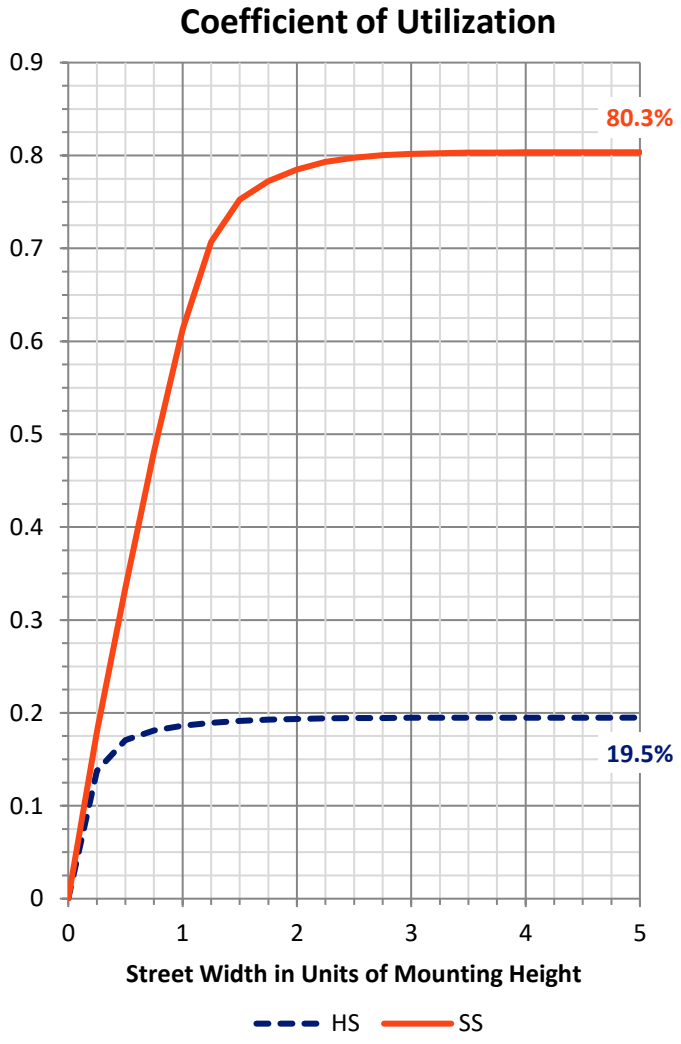
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.0	0.0	956.0
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3895.8	0.0	3895.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	4851.8	0.0	4851.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.1
10°-20°	367.9	7.6
20°-30°	518.9	10.7
30°-40°	767.9	15.8
40°-50°	1107.8	22.8
50°-60°	1306.7	26.9
60°-70°	582.9	12.0
70°-80°	50.1	1.0
80°-90°	0.0	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°	4851.8	100.0
0°-180°	4851.8	100.0



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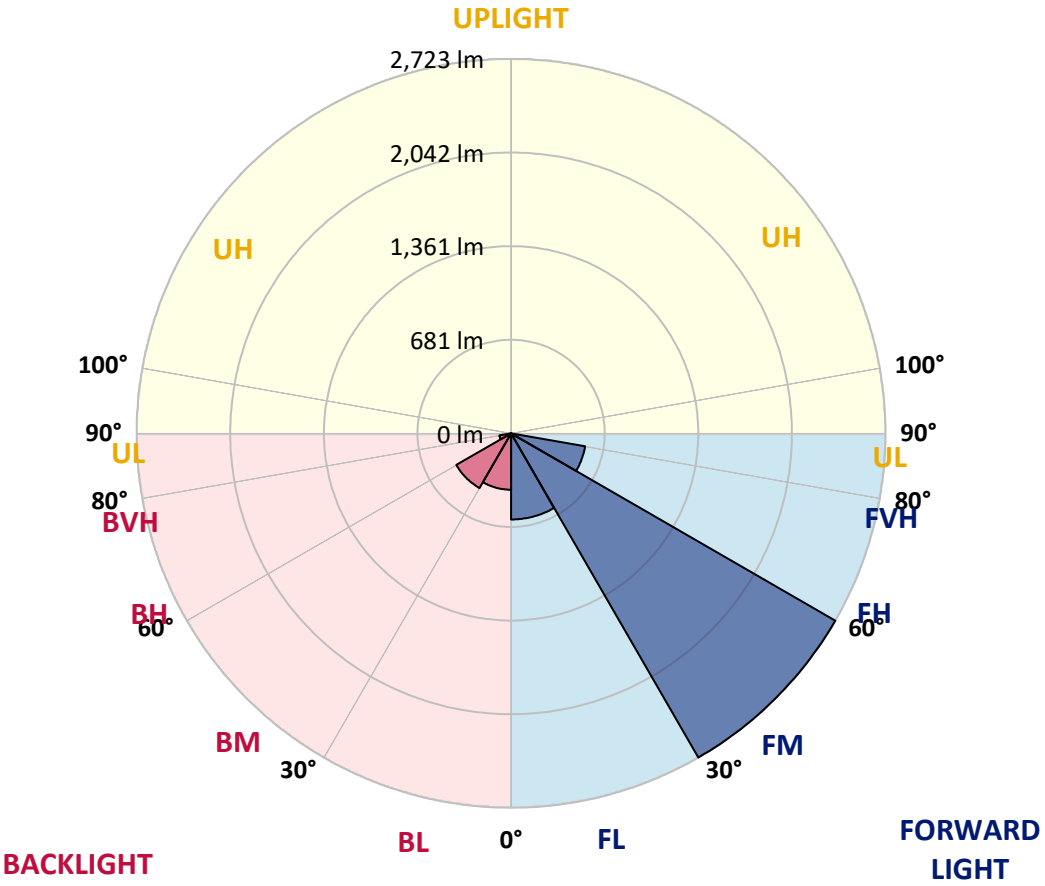
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	626.4	12.9			
FM	(30°-60°)	2722.7	56.1			
FH	(60°-80°)	546.7	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	409.9	8.4	B1/500		
BM	(30°-60°)	459.8	9.5	B1/1000		
BH	(60°-80°)	86.3	1.8	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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REPORT NUMBER: P634509
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	*1702.3*	1702.3	1702.3	1702.3	1702.3
2.5°	1581.5	1582.6	1583.2	1599.2	1605.1	1628.8	*1641.3*	1647.8	1665.0	1685.1	1701.7
5°	1475.4	1473.7	1476.6	1496.8	1509.8	1544.7	*1563.7*	1576.7	1614.6	1662.0	1701.7
7.5°	1383.0	1386.6	1390.1	1412.1	1431.6	1469.5	*1496.8*	1516.3	1569.0	1639.5	1706.4
10°	1317.9	1317.9	1323.2	1348.1	1371.2	1418.0	*1445.2*	1470.1	1532.9	1619.4	1711.8
12.5°	1269.9	1270.5	1277.0	1305.4	1332.1	1380.7	*1409.1*	1433.4	1502.7	1599.2	1712.9
15°	1247.4	1245.6	1250.9	1281.2	1310.8	1356.4	*1386.0*	1409.7	1481.4	1588.0	1718.9
17.5°	1241.5	1240.3	1244.4	1274.0	1304.3	1348.7	*1377.7*	1401.4	1478.4	1591.5	1736.6
20°	1258.6	1256.3	1254.5	1280.0	1308.4	1352.2	*1382.4*	1409.1	1492.6	1611.1	1763.9
22.5°	1299.5	1299.5	1295.4	1307.8	1326.8	1366.4	*1397.8*	1432.8	1529.9	1650.2	1804.2
25°	1374.7	1368.8	1361.1	1366.4	1364.1	1389.0	*1426.3*	1474.8	1600.4	1714.7	1853.3
27.5°	1460.6	1466.0	1452.9	1453.5	1432.8	1423.9	*1467.1*	1540.6	1705.2	1805.9	1926.2
30°	1577.3	1573.2	1573.8	1572.0	1524.0	1481.9	*1528.7*	1626.5	1837.3	1945.1	2020.9
32.5°	1668.5	1674.4	1694.0	1705.2	1642.5	1574.9	*1624.7*	1743.2	1987.8	2103.9	2137.0
35°	1765.1	1775.7	1815.4	1852.1	1799.4	1721.8	*1775.1*	1897.7	2129.3	2260.8	2270.3
37.5°	1866.9	1888.3	1935.6	2000.2	1991.9	1923.2	*1971.8*	2079.6	2240.7	2355.6	2380.5
40°	1983.6	2004.4	2081.9	2174.9	2194.5	2179.1	*2195.1*	2257.9	2314.1	2359.7	2427.9
42.5°	2111.6	2140.0	2238.3	2362.7	2436.1	2449.8	*2412.5*	2405.9	2346.1	2312.4	2417.8
45°	2262.6	2295.8	2407.1	2568.2	2684.9	2703.3	*2638.7*	2555.2	2366.3	2277.4	2387.6
47.5°	2432.0	2463.4	2574.2	2767.8	2941.4	2948.5	*2836.0*	2701.5	2426.1	2317.7	2410.7
50°	2488.9	2508.4	2604.4	2831.8	3151.6	3206.1	*3043.3*	2866.2	2546.3	2436.1	2523.2
52.5°	2293.4	2301.1	2384.6	2614.4	3109.0	3459.1	*3345.9*	3112.0	2760.1	2616.8	2696.8
55°	*1817.2*	*1804.7*	*1872.3*	*2083.1*	*2702.1*	*3407.5*	*3620.2*	*3498.1*	*3035.6*	*2828.8*	*2922.4*
57.5°	1271.1	1256.3	1240.9	1383.6	2016.2	2888.7	*3335.9*	3552.0	3297.9	3039.1	3165.9
60°	1044.8	1030.6	956.0	890.2	1219.0	2074.2	*2562.3*	2969.2	3276.6	3028.4	3158.2
62.5°	902.7	894.4	864.2	774.7	717.3	1184.0	*1604.6*	1994.3	2514.3	2378.1	2385.2
65°	709.0	706.6	727.3	736.8	634.4	655.1	*818.6*	1036.5	1359.3	1281.7	1215.4
67.5°	484.5	479.2	518.3	637.3	610.1	517.1	*479.2*	483.3	588.2	359.5	285.5
70°	308.0	295.6	296.2	395.1	496.4	408.1	*369.6*	325.2	292.6	53.3	60.4
72.5°	197.2	189.5	162.9	178.3	229.8	199.0	*200.8*	173.0	115.5	28.4	33.2
75°	82.9	76.4	58.6	46.8	46.2	29.0	*25.5*	23.7	16.0	16.0	17.2
77.5°	0.6	0.0	0.0	0.6	1.2	0.6	*0.6*	1.2	2.4	3.6	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.6
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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CATALOG NUMBER: GWS-SA3B-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1711.8	1697.5	1713.5	1719.5	1718.9	1719.5	1702.3	1690.4	1689.8	1675.0	1667.9
5°	1718.3	1707.0	1718.9	1711.2	1692.8	1669.7	1638.9	1612.3	1600.4	1583.2	1574.9
7.5°	1730.7	1718.9	1717.1	1686.3	1640.7	1592.1	1537.6	1489.1	1463.0	1431.6	1433.4
10°	1739.6	1726.0	1702.9	1640.1	1564.3	1486.7	1405.5	1333.3	1287.7	1245.6	1238.5
12.5°	1743.2	1723.0	1669.1	1574.3	1467.7	1366.4	1247.4	1144.3	1073.3	1018.2	1010.5
15°	1749.7	1717.1	1625.9	1495.0	1348.7	1205.3	1053.7	912.7	818.6	755.2	760.5
17.5°	1759.7	1710.6	1577.3	1406.1	1220.7	1018.2	813.2	651.5	565.1	528.3	528.9
20°	1773.9	1702.9	1524.0	1308.4	1067.3	806.7	568.6	446.6	422.3	421.1	419.4
22.5°	1792.9	1695.2	1467.1	1201.2	885.5	565.1	378.5	340.6	350.6	370.2	373.7
25°	1815.4	1685.7	1403.8	1080.4	687.1	370.8	283.7	277.8	302.1	328.1	334.1
27.5°	1850.4	1681.0	1331.5	942.9	482.1	265.9	232.2	235.7	257.7	279.6	284.9
30°	1909.6	1689.8	1252.7	788.9	309.8	212.0	201.4	206.7	218.6	229.8	234.6
32.5°	1990.1	1715.9	1176.3	620.7	220.9	184.2	181.8	184.8	189.5	196.1	197.8
35°	2084.3	1760.9	1097.5	444.2	182.4	168.2	165.8	165.8	168.2	169.4	170.0
37.5°	2161.9	1808.3	1023.5	295.6	163.5	155.8	152.2	150.4	149.9	151.0	151.6
40°	2195.7	1827.8	942.9	215.0	149.9	144.5	139.2	133.9	133.9	138.0	138.6
42.5°	2172.0	1805.9	850.0	177.7	140.4	132.7	124.4	119.6	122.0	126.2	127.3
45°	2121.6	1752.0	747.5	157.0	130.9	120.8	111.4	108.4	110.8	116.1	117.3
47.5°	2113.3	1716.5	624.9	143.3	120.8	110.8	100.7	97.7	100.7	104.8	106.0
50°	2195.7	1747.3	488.7	131.5	111.4	100.1	91.8	88.8	90.6	93.0	94.2
52.5°	2346.1	1861.6	394.5	120.2	100.1	89.4	84.1	80.6	80.6	82.9	83.5
55°	*2568.2*	*2061.2*	*340.6*	*107.2*	*87.1*	*81.1*	*76.4*	*72.9*	*72.9*	*74.0*	*74.6*
57.5°	2824.1	2302.9	353.0	90.0	76.4	73.4	69.3	66.3	67.5	67.5	67.5
60°	2788.6	2285.1	377.9	75.8	67.5	66.3	62.8	61.6	64.6	62.2	61.0
62.5°	2054.1	1578.5	197.8	62.2	58.0	56.9	54.5	56.9	61.0	54.5	52.1
65°	997.4	764.1	79.4	50.9	49.2	48.0	46.8	50.3	52.7	42.6	40.3
67.5°	234.6	190.7	51.5	43.2	40.9	38.5	39.7	40.3	38.5	29.0	27.8
70°	61.0	59.8	40.3	36.1	32.6	30.2	30.2	29.6	25.5	18.4	17.2
72.5°	33.2	32.6	29.0	27.2	22.5	20.1	20.7	18.4	14.2	10.7	10.1
75°	16.6	17.8	16.6	15.4	12.4	11.3	11.3	10.1	7.1	4.1	4.1
77.5°	3.6	4.1	4.1	3.6	3.0	2.4	2.4	3.0	1.2	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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

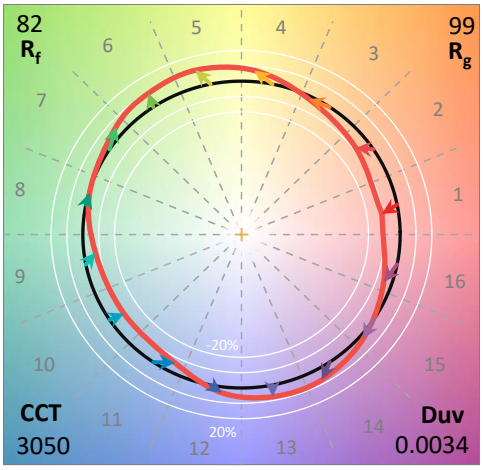
Test Information

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

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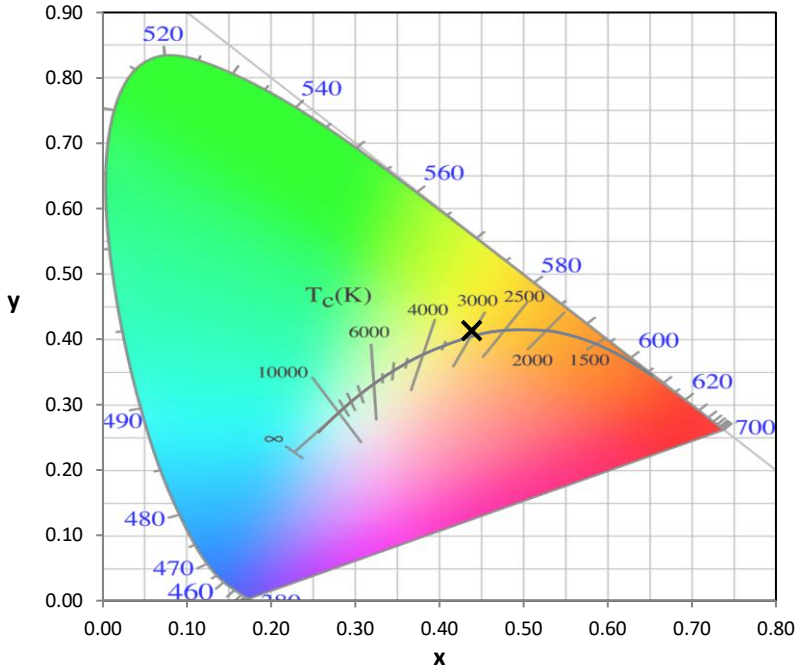
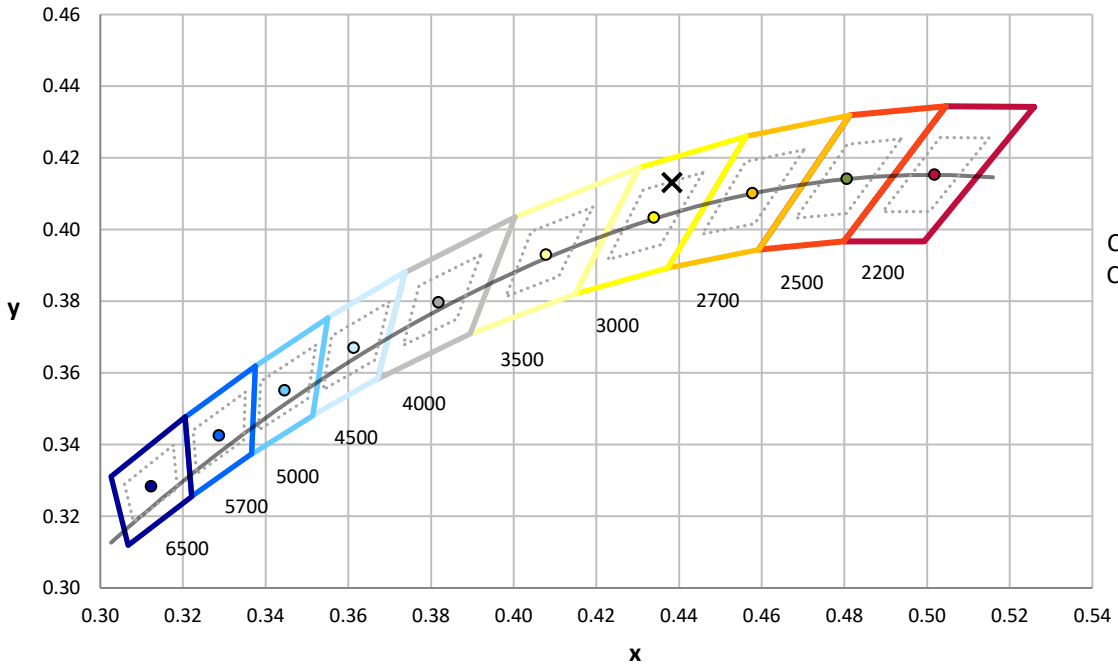
CIE 1931 Chromaticity Diagram



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

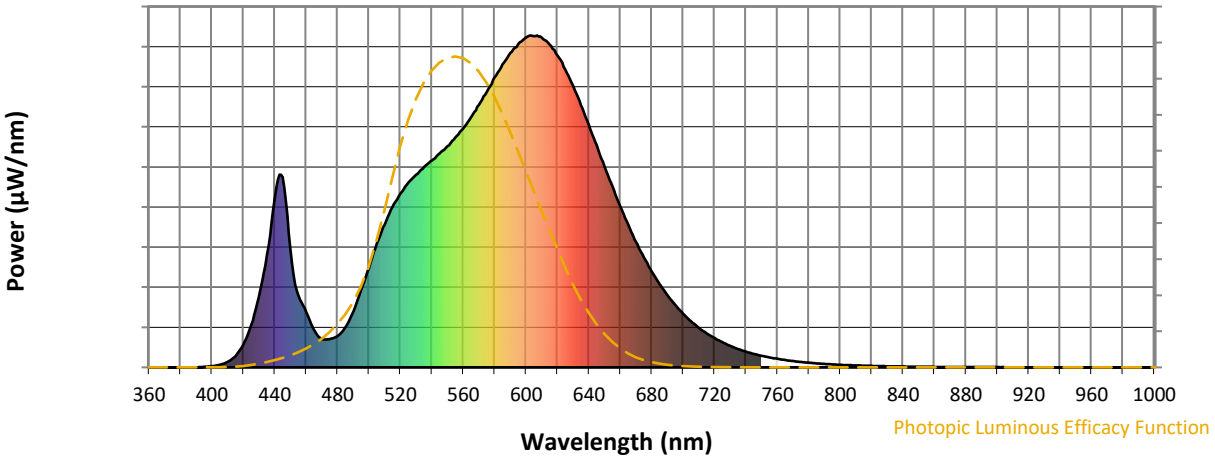


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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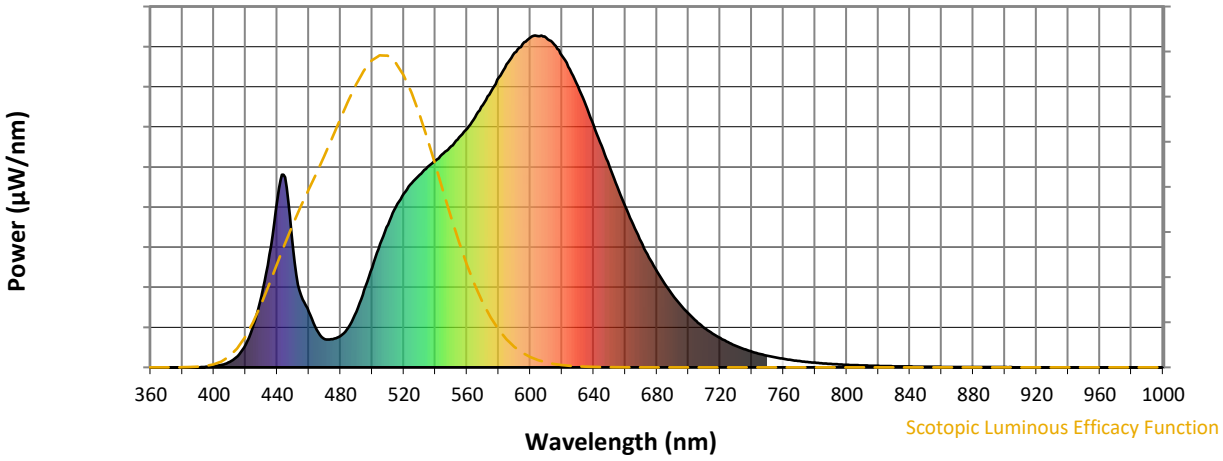
Scotopic Flux vs. Wavelength



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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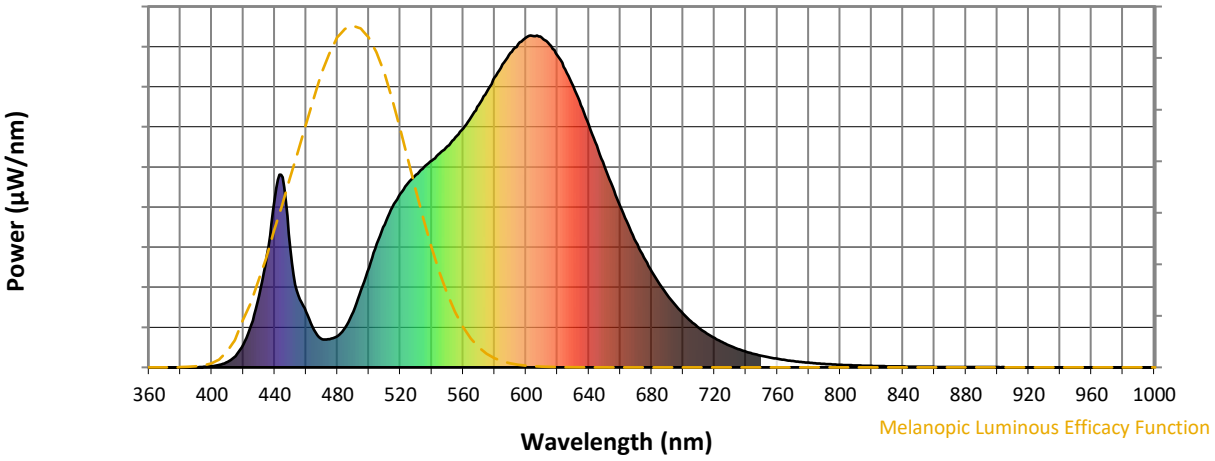
Melanopic Flux vs. Wavelength



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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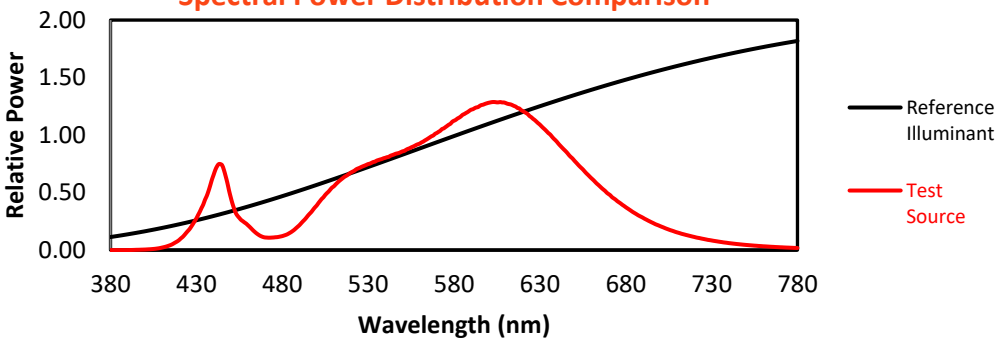
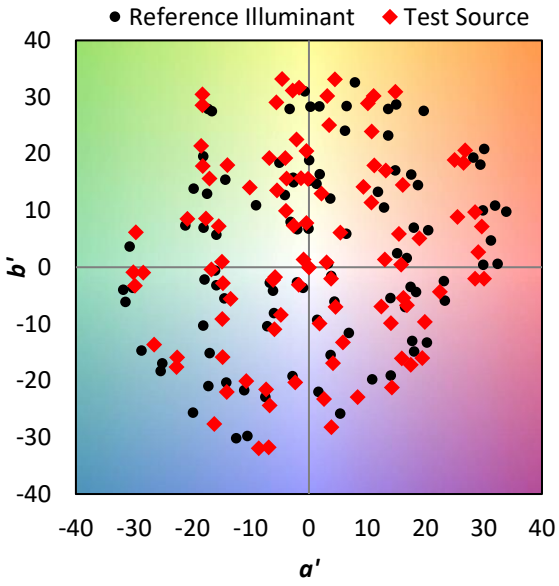
Summary

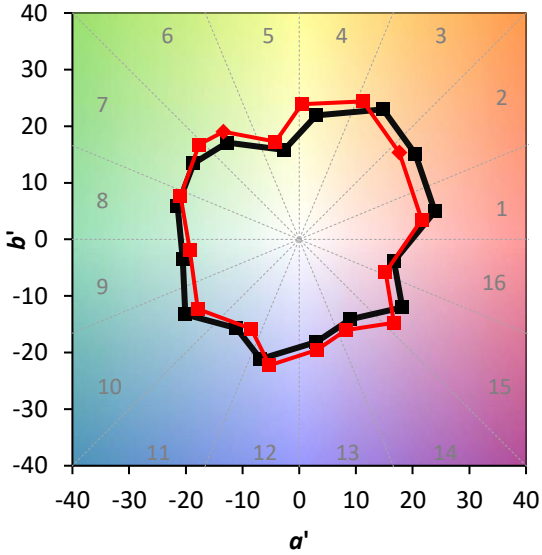
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

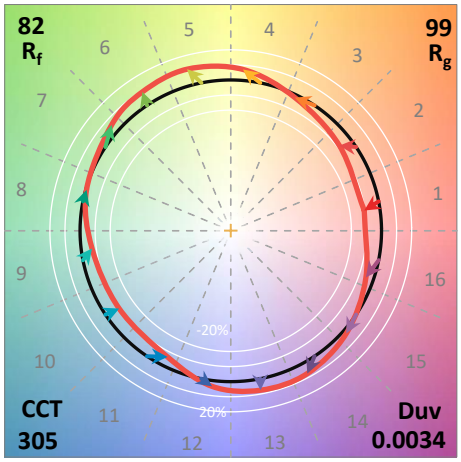
Spectral Power Distribution Comparison

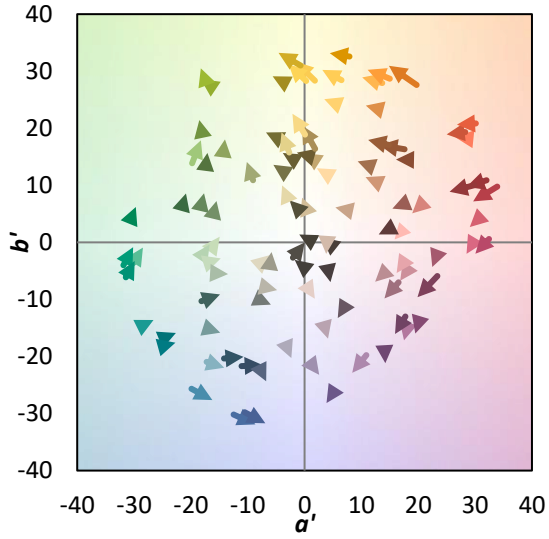


Color Vector Graphics









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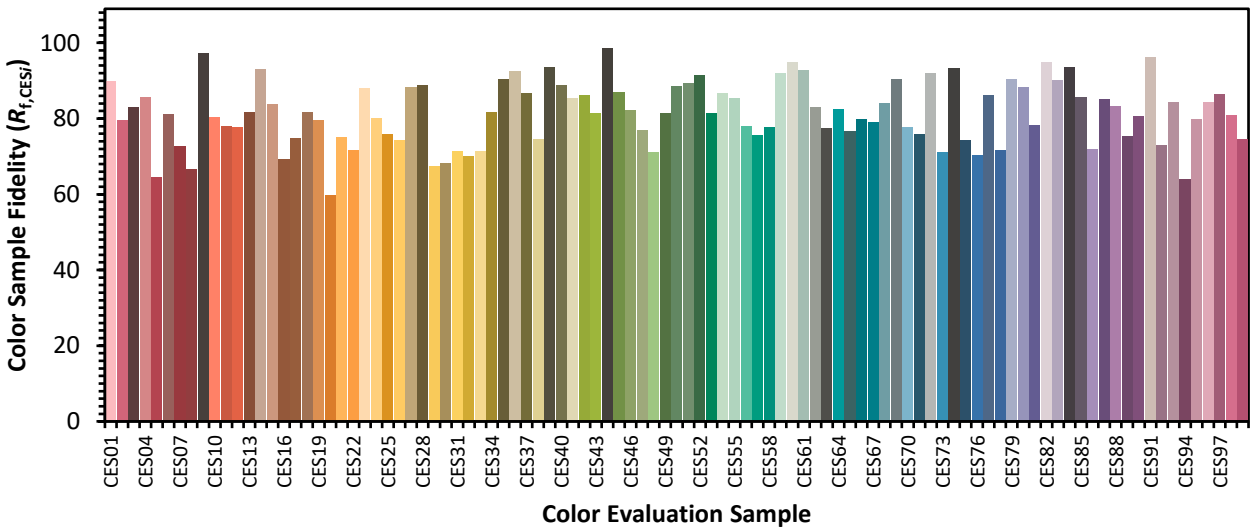
Individual Sample Fidelity Index ($R_{f,i}$)

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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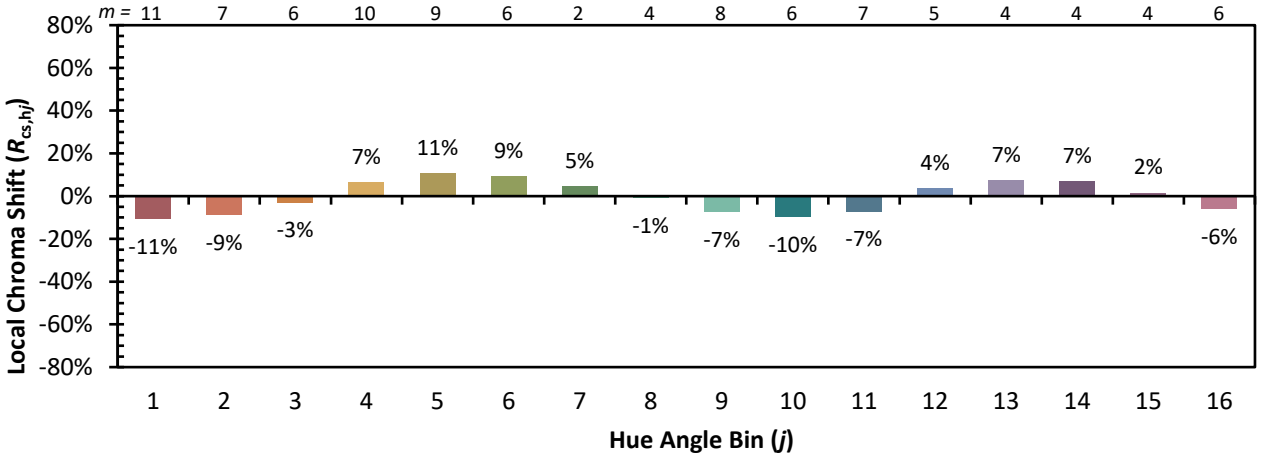
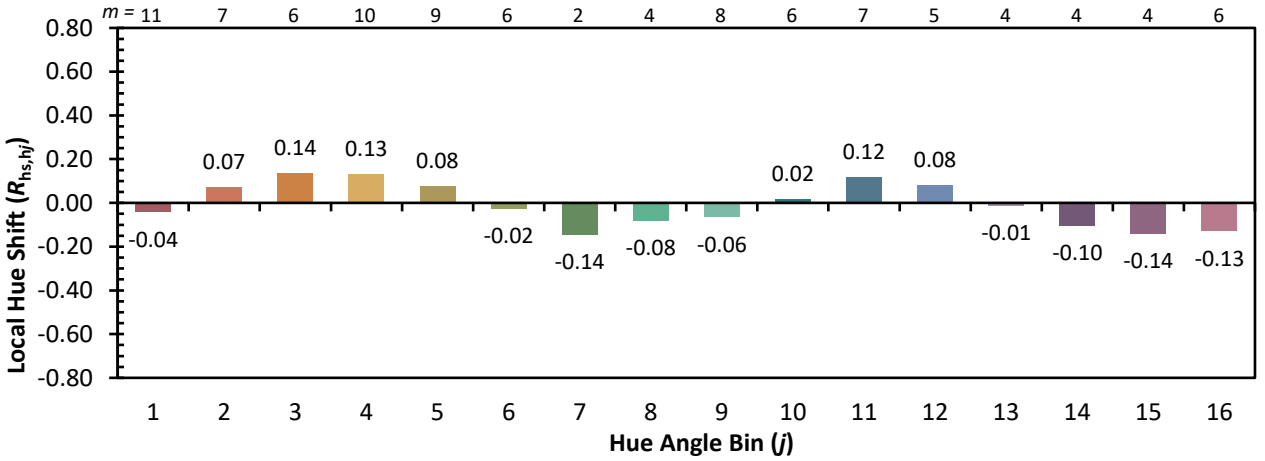
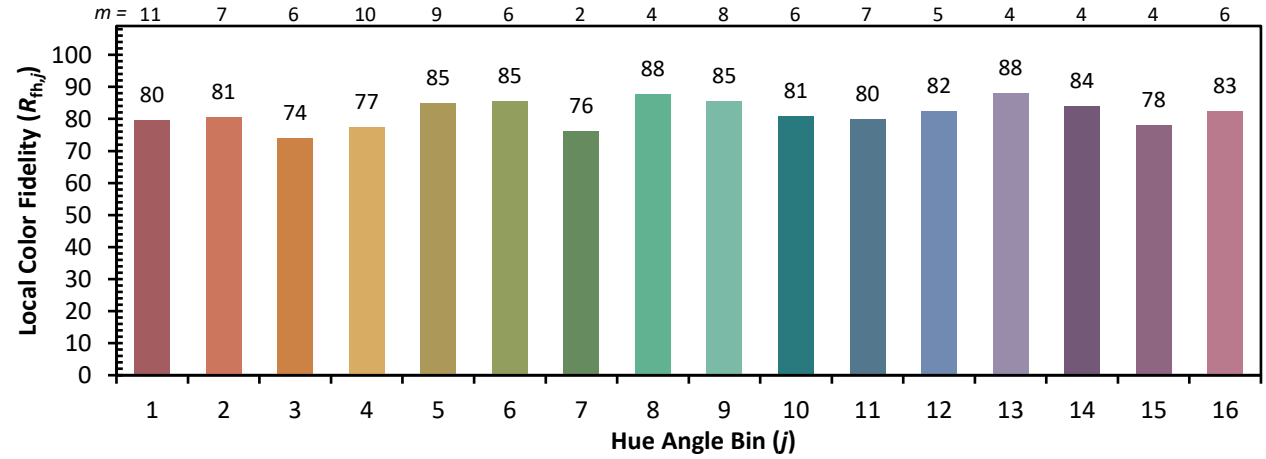
Color Rendition by Hue-Angle Bin







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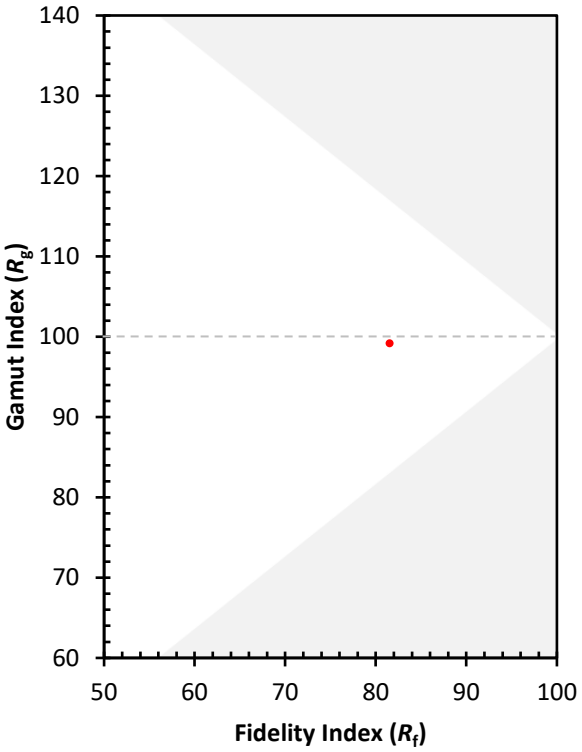
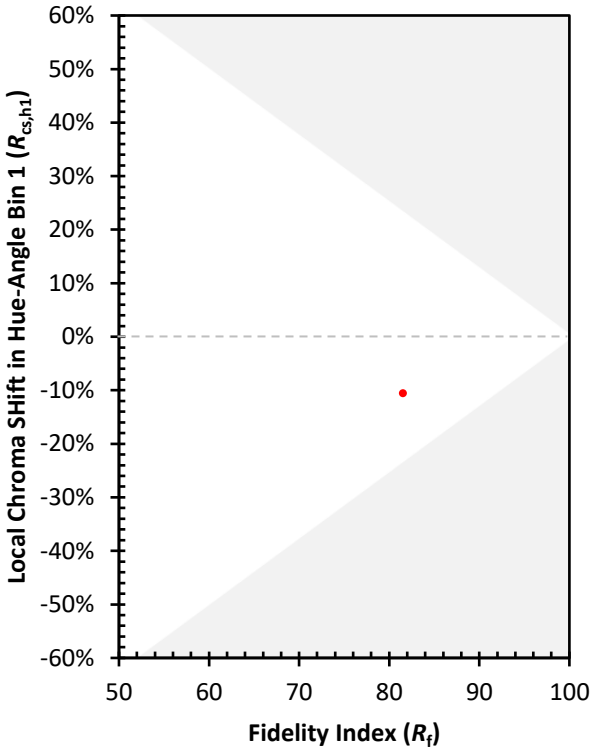
Measure Comparisons





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