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: P635496

Luminaire Tested: GWS-SA3D-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:	P635496
	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-SA3D-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:	9060.6 lumens
Efficiency:	N/A
Efficacy:	75.0 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):	120.8
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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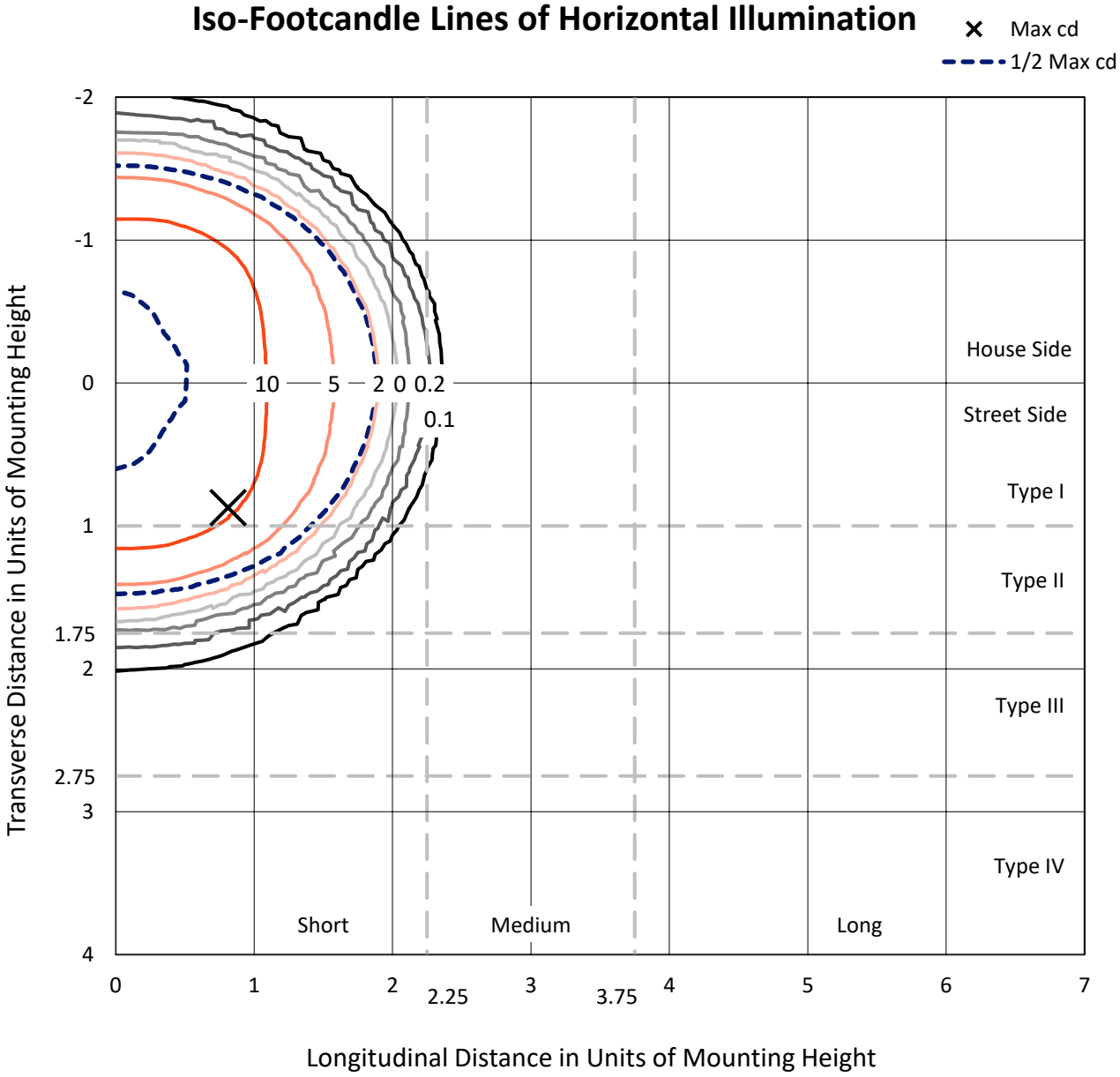
Scaled Data Report

REPORT NUMBER: P635496
CATALOG NUMBER: GWS-SA3D-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
Type V - Short - N/A

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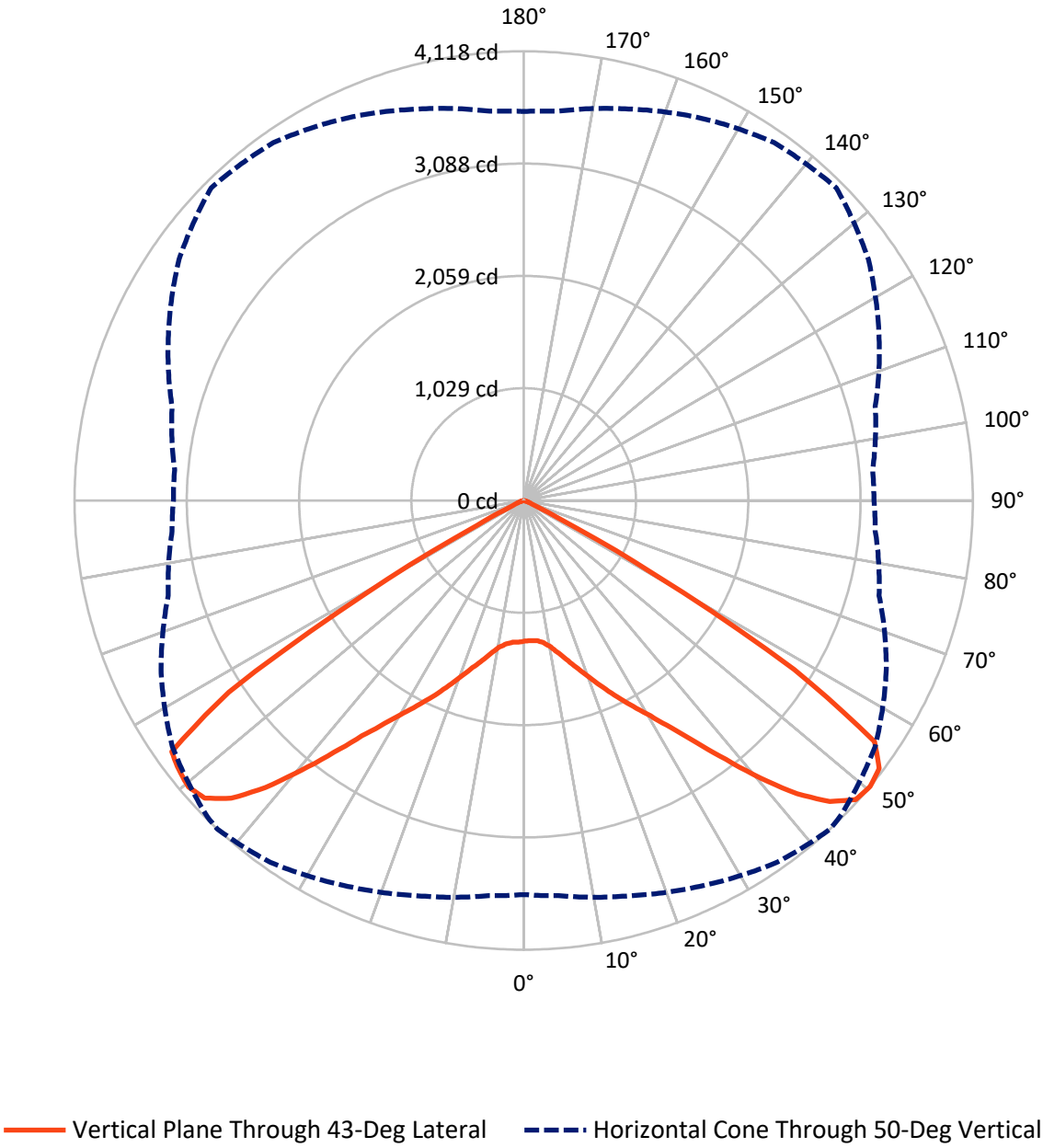
Luminous Intensity Polar Plot



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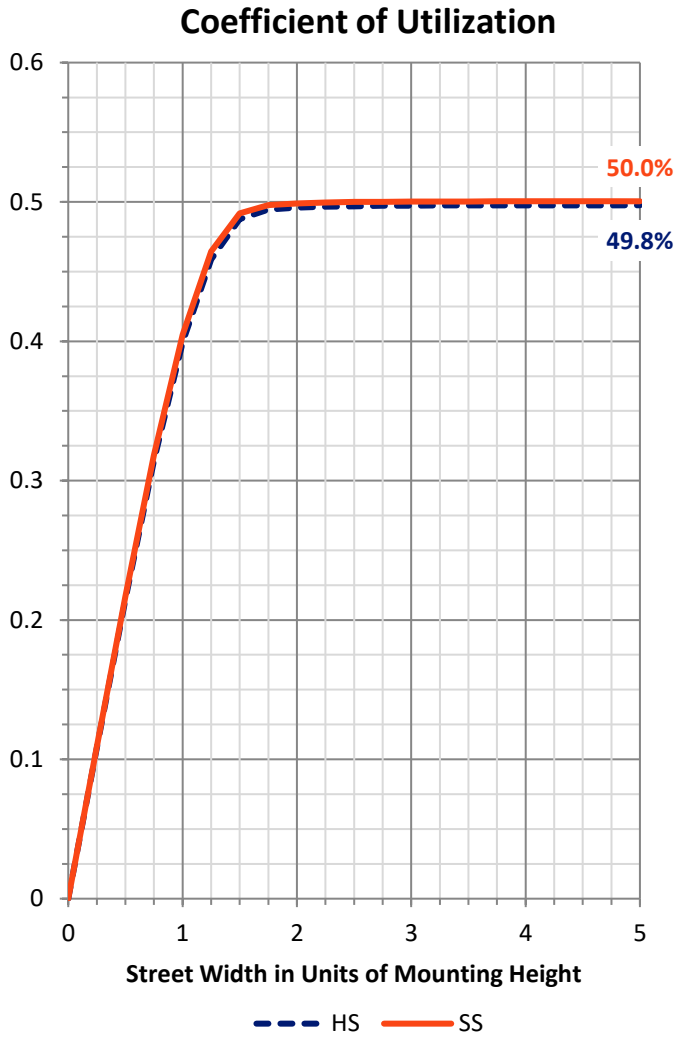
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4530.2	0.0	4530.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4530.4	0.0	4530.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9060.6	0.0	9060.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.4
10°-20°	436.7	4.8
20°-30°	883.6	9.8
30°-40°	1639.4	18.1
40°-50°	2721.2	30.0
50°-60°	2777.1	30.7
60°-70°	455.4	5.0
70°-80°	19.9	0.2
80°-90°	0.3	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°	9060.6	100.0
0°-180°	9060.6	100.0



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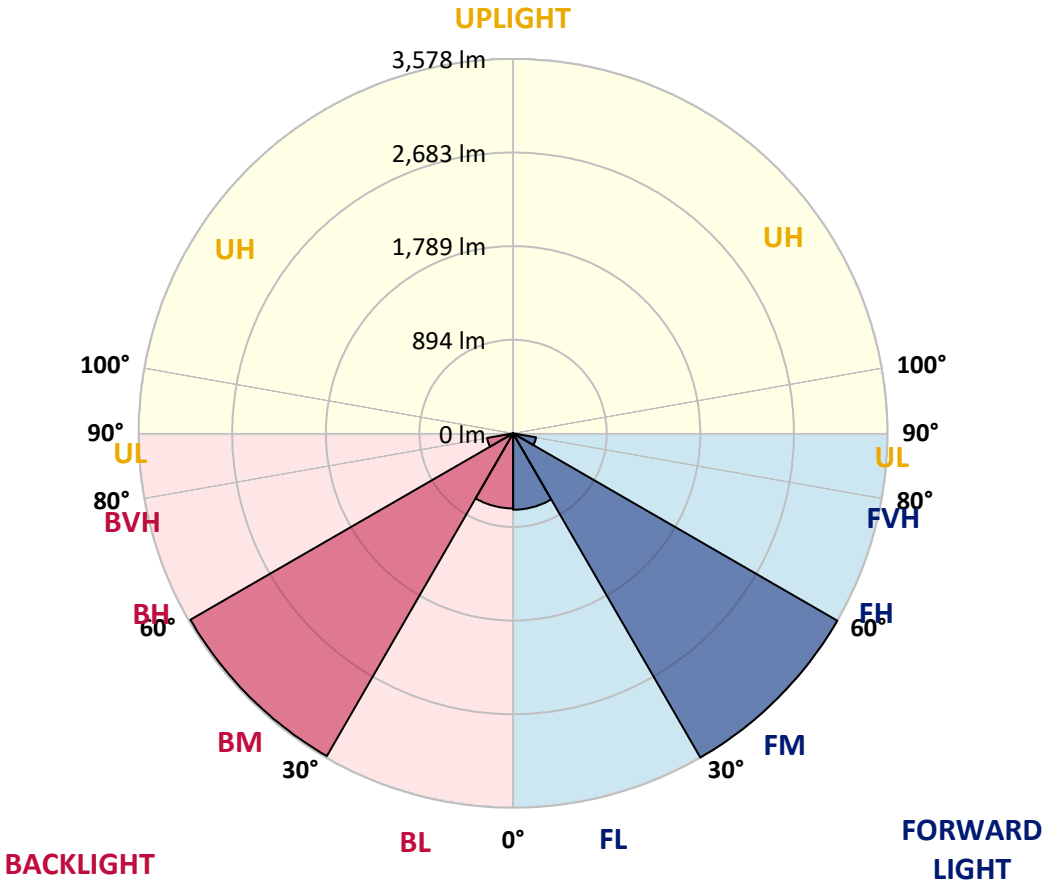
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	730.0	8.1			
FM	(30°-60°)	3577.6	39.5			
FH	(60°-80°)	222.8	2.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	717.3	7.9	B2/1000		
BM	(30°-60°)	3560.2	39.3	B3/5000		
BH	(60°-80°)	252.6	2.8	B1/500		G0/660
BVH	(80°-90°)	0.2	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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Scaled Data Report

REPORT NUMBER: P635496
CATALOG NUMBER: GWS-SA3D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1264.7	1267.7	1271.7	1275.7	1280.7	1285.7	1288.7	1297.7	1295.7	1303.8	1303.8
5°	1250.6	1253.7	1258.7	1267.7	1278.7	1289.7	1297.7	1315.8	1325.8	1341.8	1347.9
7.5°	1257.7	1261.7	1267.7	1281.7	1298.7	1315.8	1324.8	1353.9	1373.9	1404.0	1421.0
10°	1280.7	1284.7	1294.7	1318.8	1340.8	1364.9	1375.9	1413.0	1445.1	1486.1	1510.2
12.5°	1306.8	1311.8	1331.8	1367.9	1406.0	1438.0	1453.1	1494.2	1527.2	1573.3	1611.4
15°	1333.8	1341.8	1372.9	1426.0	1480.1	1523.2	1539.3	1583.4	1616.4	1665.5	1708.6
17.5°	1397.0	1406.0	1441.0	1498.2	1572.3	1622.4	1636.5	1682.6	1707.6	1740.7	1785.8
20°	1476.1	1493.2	1536.3	1605.4	1686.6	1734.7	1744.7	1789.8	1787.8	1801.8	1840.9
22.5°	1574.3	1586.4	1633.5	1715.6	1806.8	1859.9	1883.0	1902.0	1877.0	1864.9	1890.0
25°	1676.5	1690.6	1741.7	1831.9	1934.1	1995.2	2014.3	2029.3	1989.2	1944.1	1947.1
27.5°	1808.8	1818.8	1869.0	1965.2	2067.4	2136.5	2153.6	2179.6	2126.5	2054.3	2034.3
30°	1966.2	1976.2	2029.3	2130.5	2231.7	2290.8	2316.9	2349.0	2290.8	2200.7	2177.6
32.5°	2150.6	2160.6	2228.7	2332.9	2416.1	2480.2	2505.3	2539.4	2493.3	2392.1	2366.0
35°	2371.0	2377.0	2457.2	2570.4	2658.6	2720.8	2737.8	2777.9	2726.8	2625.6	2611.5
37.5°	2626.6	2633.6	2720.8	2852.0	2942.2	3011.4	3038.4	3049.5	2987.3	2874.1	2863.1
40°	2907.2	2930.2	3015.4	3156.7	3257.9	3345.1	3369.1	3332.1	3244.9	3090.5	3070.5
42.5°	3199.8	3219.8	3315.0	3468.3	3585.6	3674.8	3675.8	3595.6	3447.3	3233.8	3203.8
45°	3443.3	3451.3	3574.6	3728.9	3873.2	3936.3	3942.3	3797.0	3573.6	3317.0	3252.9
47.5°	3610.6	3623.7	3730.9	3879.2	4038.5	4095.7	4083.6	3902.3	3633.7	3371.1	3264.9
50°	3612.6	3634.7	3750.9	3894.2	4048.6	4117.7	4100.7	3932.3	3667.8	3373.1	3235.8
52.5°	3293.0	3329.0	3518.4	3725.9	3962.4	4080.6	4084.6	3971.4	3654.7	3341.1	3209.8
55°	2484.3	2523.3	2761.8	3115.6	3572.6	3902.3	3959.4	3925.3	3639.7	3355.1	3255.9
57.5°	1314.8	1284.7	1417.0	1767.7	2342.0	2925.2	3092.5	3365.1	3472.3	3372.1	3341.1
60°	286.6	305.6	406.9	548.2	913.9	1375.9	1539.3	2006.2	2561.4	2807.9	2986.3
62.5°	123.3	121.3	126.3	143.3	209.4	348.7	425.9	695.5	1097.3	1507.2	1784.8
65°	101.2	102.2	106.2	106.2	99.2	100.2	105.2	159.3	256.5	359.8	483.0
67.5°	76.2	77.2	84.2	86.2	81.2	72.2	71.2	60.1	63.1	79.2	82.2
70°	48.1	48.1	52.1	54.1	54.1	50.1	49.1	43.1	42.1	48.1	54.1
72.5°	26.1	26.1	28.1	29.1	28.1	27.1	27.1	26.1	25.1	29.1	37.1
75°	11.0	11.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	13.0	20.0
77.5°	2.0	3.0	4.0	3.0	2.0	2.0	2.0	3.0	3.0	4.0	6.0
80°	1.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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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Scaled Data Report

REPORT NUMBER: P635496
CATALOG NUMBER: GWS-SA3D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1310.8	1299.8	1303.8	1305.8	1302.8	1300.8	1289.7	1286.7	1281.7	1273.7	1271.7
5°	1354.9	1345.8	1344.8	1338.8	1324.8	1307.8	1286.7	1277.7	1267.7	1257.7	1255.7
7.5°	1429.0	1418.0	1411.0	1390.9	1358.9	1331.8	1296.7	1277.7	1264.7	1251.6	1248.6
10°	1524.2	1511.2	1491.2	1454.1	1411.0	1371.9	1330.8	1305.8	1285.7	1267.7	1266.7
12.5°	1625.4	1611.4	1575.3	1528.2	1476.1	1440.0	1387.9	1352.9	1322.8	1295.7	1292.7
15°	1731.7	1714.6	1665.5	1609.4	1561.3	1524.2	1467.1	1411.0	1364.9	1325.8	1321.8
17.5°	1812.8	1791.8	1733.7	1691.6	1652.5	1614.4	1550.3	1476.1	1415.0	1367.9	1356.9
20°	1863.9	1843.9	1788.8	1765.7	1747.7	1720.6	1644.5	1567.3	1499.2	1441.0	1431.0
22.5°	1913.0	1889.0	1840.9	1840.9	1854.9	1843.9	1761.7	1673.5	1593.4	1526.2	1511.2
25°	1968.2	1949.1	1915.1	1943.1	1978.2	1977.2	1893.0	1782.8	1690.6	1615.4	1600.4
27.5°	2048.3	2029.3	2017.3	2070.4	2114.5	2111.5	2019.3	1900.0	1802.8	1728.7	1714.6
30°	2189.6	2171.6	2158.6	2222.7	2278.8	2257.8	2156.6	2041.3	1943.1	1858.9	1848.9
32.5°	2378.0	2359.0	2342.0	2406.1	2456.2	2429.1	2332.9	2224.7	2111.5	2029.3	2009.3
35°	2625.6	2585.5	2568.4	2644.6	2665.6	2635.6	2543.4	2448.2	2327.9	2233.7	2220.7
37.5°	2881.1	2834.0	2822.0	2888.1	2922.2	2911.2	2802.9	2703.7	2573.4	2469.2	2454.2
40°	3099.6	3056.5	3035.4	3138.6	3215.8	3222.8	3125.6	3004.4	2851.0	2742.8	2715.7
42.5°	3227.8	3190.8	3185.7	3346.1	3472.3	3562.5	3446.3	3321.0	3159.7	3037.4	3015.4
45°	3256.9	3232.8	3274.9	3485.4	3681.8	3846.1	3746.9	3614.6	3440.3	3311.0	3290.0
47.5°	3253.9	3245.9	3321.0	3557.5	3806.1	4008.5	3959.4	3810.1	3641.7	3506.4	3486.4
50°	*3210.8*	*3211.8*	*3337.1*	*3593.6*	*3856.2*	*4052.6*	*4003.5*	*3865.2*	*3714.9*	*3581.6*	*3565.5*
52.5°	3193.8	3187.7	3307.0	3582.6	3907.3	4032.5	3922.3	3767.0	3599.6	3435.3	3411.2
55°	3253.9	3238.9	3311.0	3573.6	3913.3	4021.5	3730.9	3394.2	3051.5	2857.0	2841.0
57.5°	3344.1	3328.0	3362.1	3507.4	3599.6	3344.1	2745.8	2202.7	1849.9	1700.6	1635.5
60°	2986.3	2975.3	2949.2	2773.9	2379.0	1794.8	1222.6	779.6	560.2	453.0	453.0
62.5°	1852.9	1837.9	1696.6	1260.7	915.9	530.1	291.6	182.4	138.3	129.3	128.3
65°	520.1	517.1	427.9	302.6	192.4	119.3	105.2	107.2	105.2	102.2	101.2
67.5°	78.2	86.2	86.2	70.1	67.1	75.2	88.2	94.2	89.2	84.2	82.2
70°	50.1	54.1	52.1	45.1	48.1	56.1	63.1	64.1	61.1	56.1	55.1
72.5°	35.1	39.1	32.1	29.1	30.1	33.1	36.1	36.1	35.1	33.1	31.1
75°	21.0	21.0	15.0	14.0	14.0	15.0	15.0	17.0	17.0	16.0	15.0
77.5°	7.0	8.0	5.0	4.0	4.0	4.0	5.0	6.0	6.0	5.0	4.0
80°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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

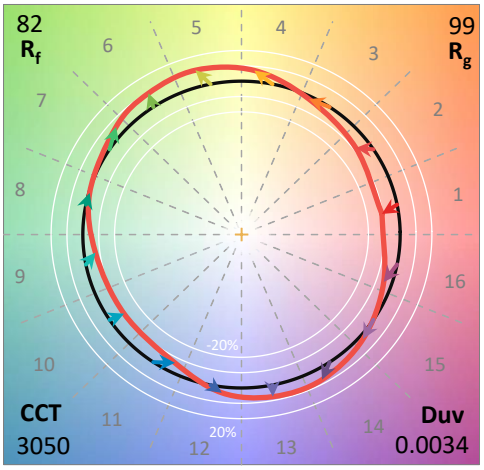
Test Information

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

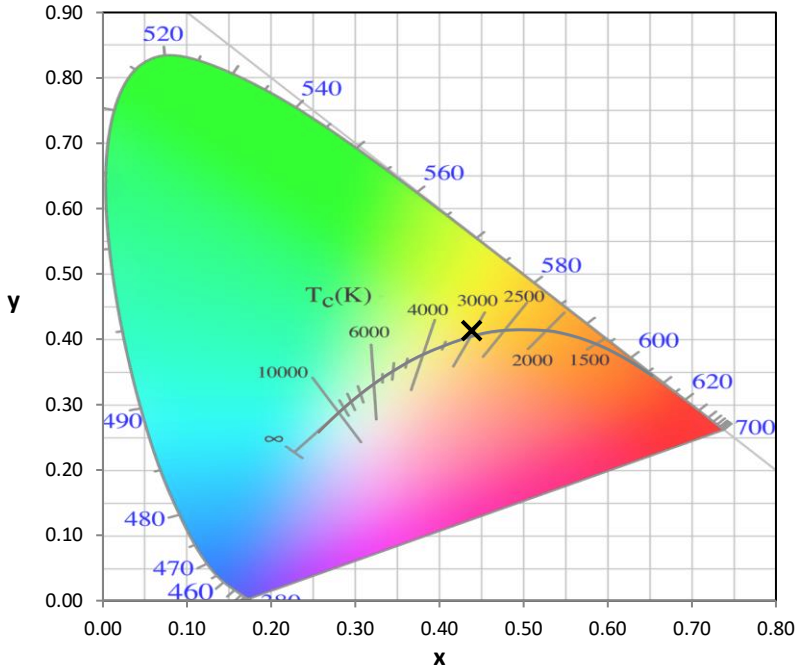
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

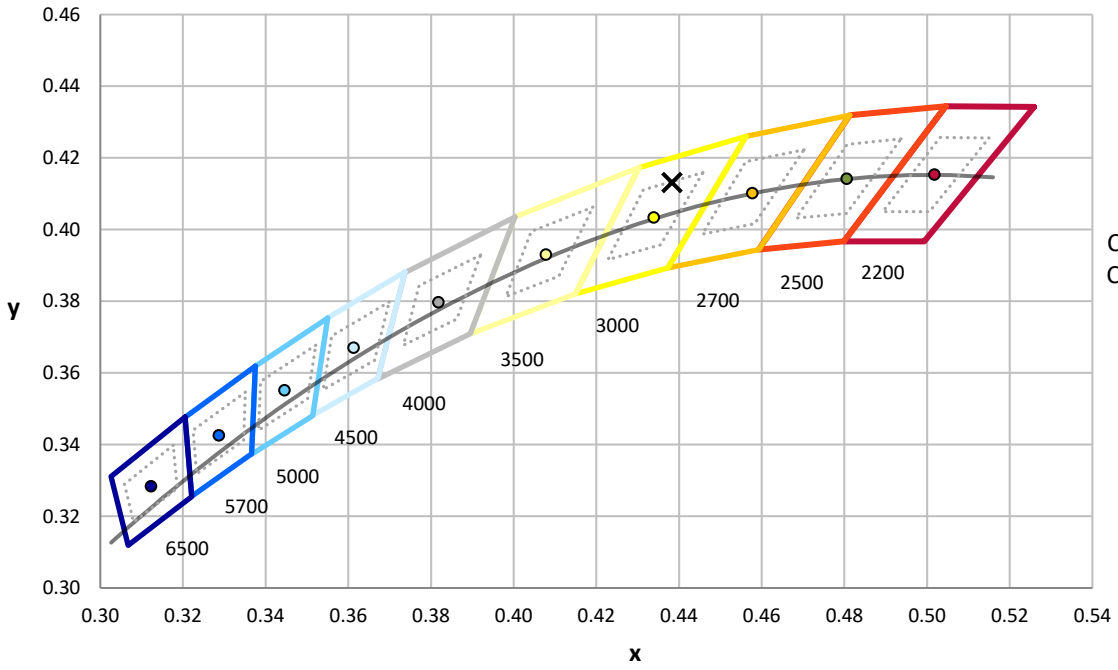
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

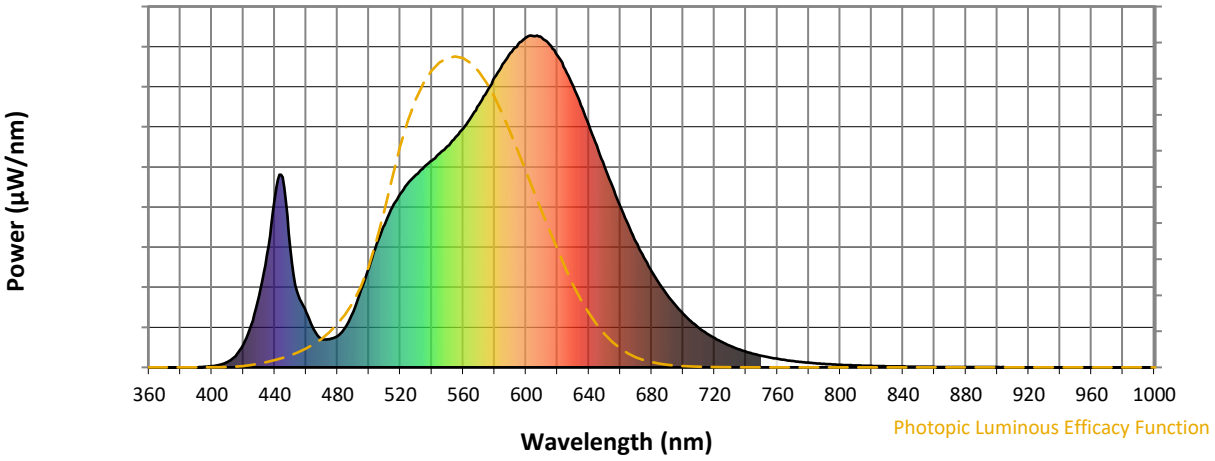


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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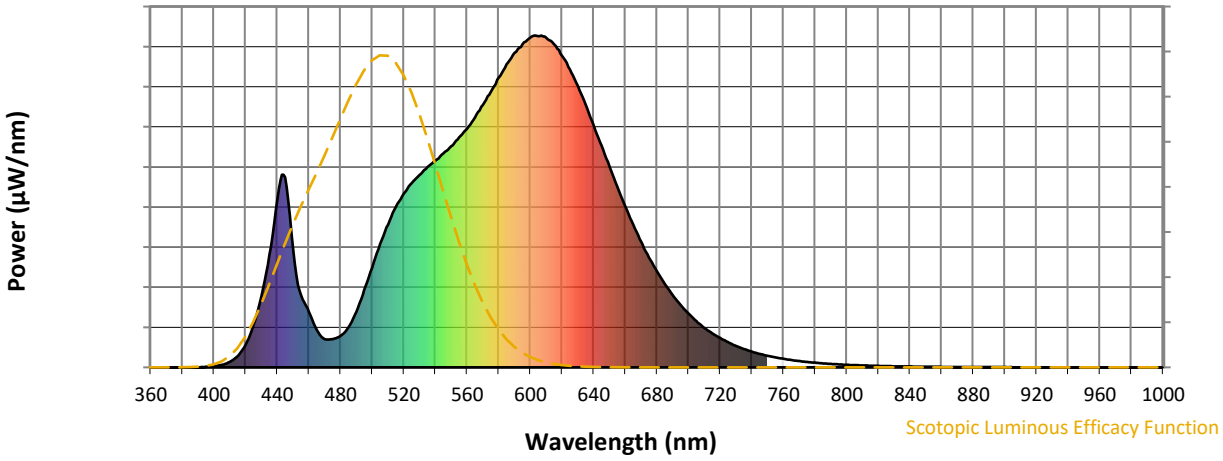
Scotopic Flux vs. Wavelength



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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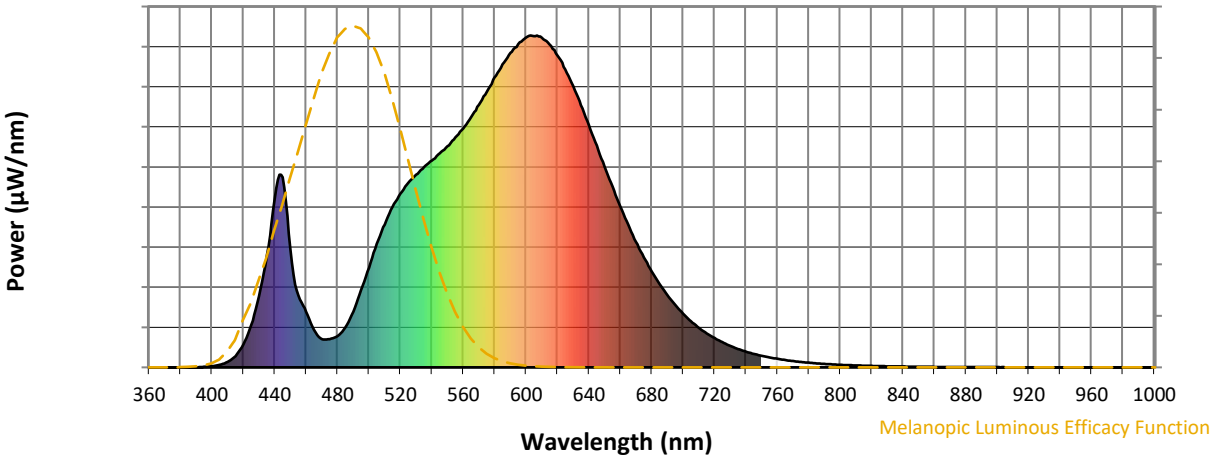
Melanopic Flux vs. Wavelength



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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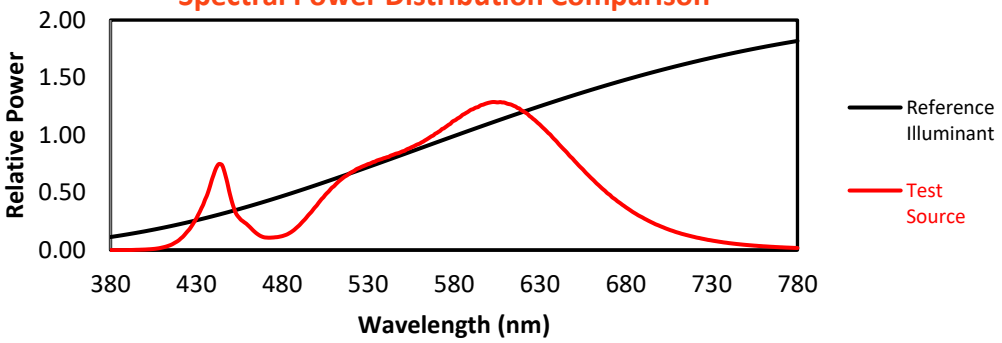
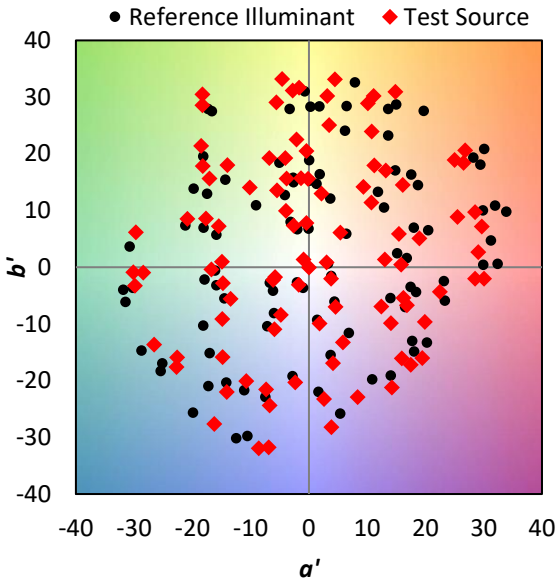
Summary

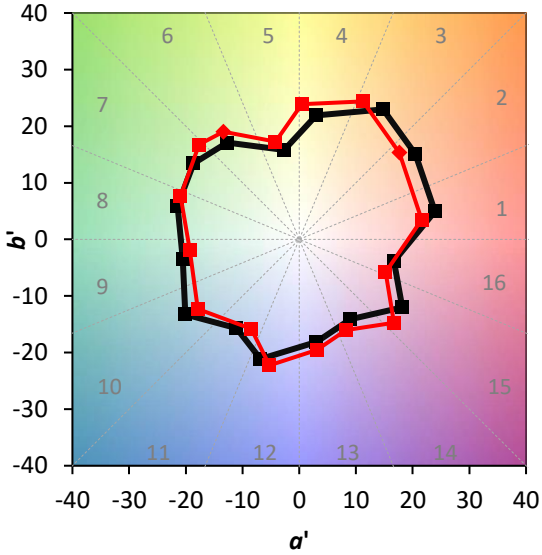
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

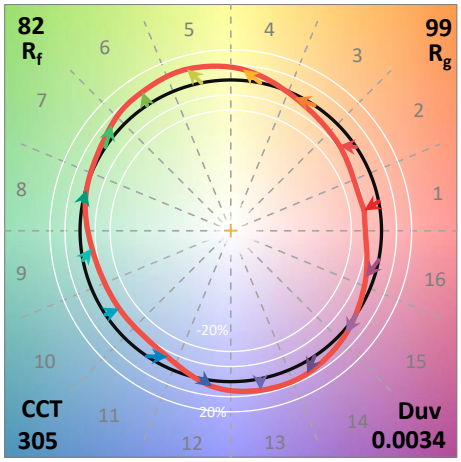
Spectral Power Distribution Comparison

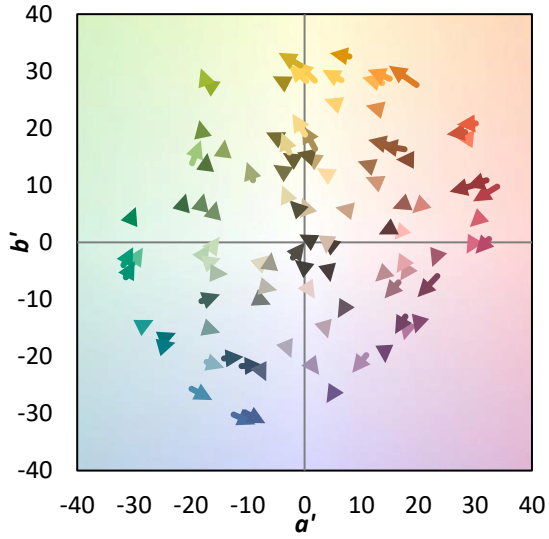


Color Vector Graphics









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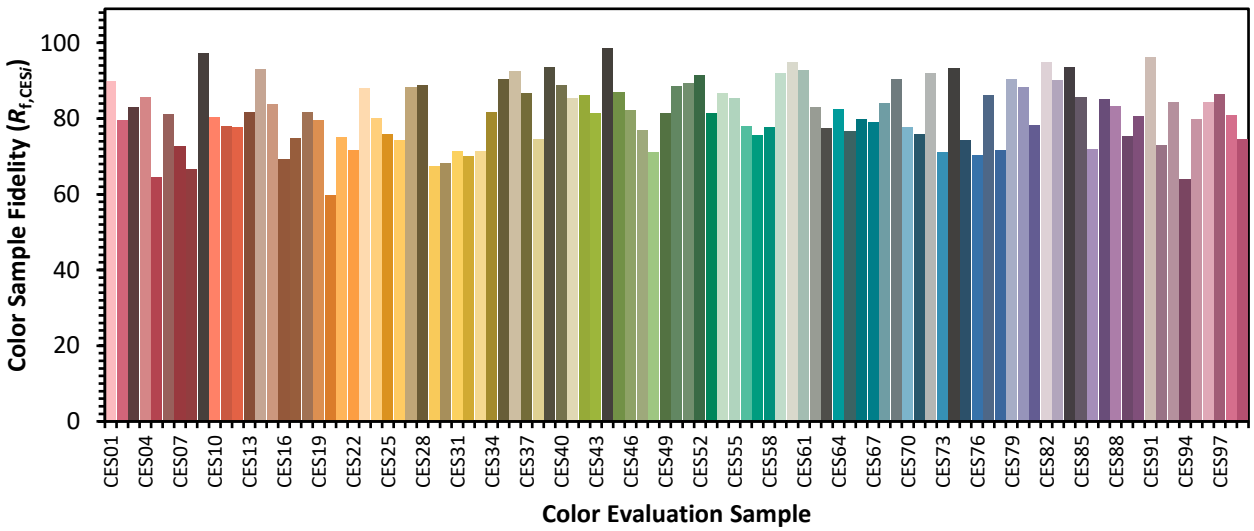
Individual Sample Fidelity Index ($R_{f,i}$)

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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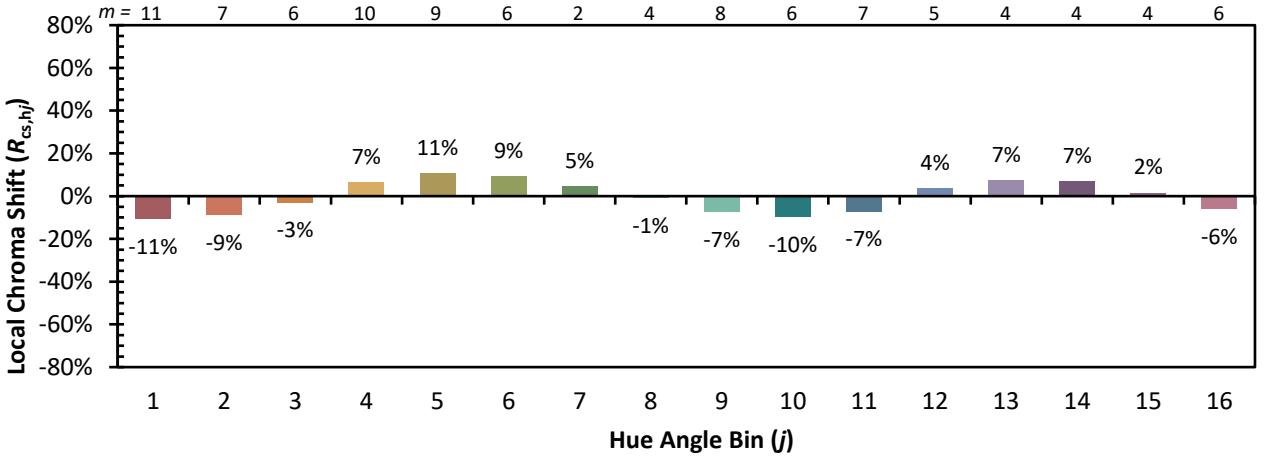
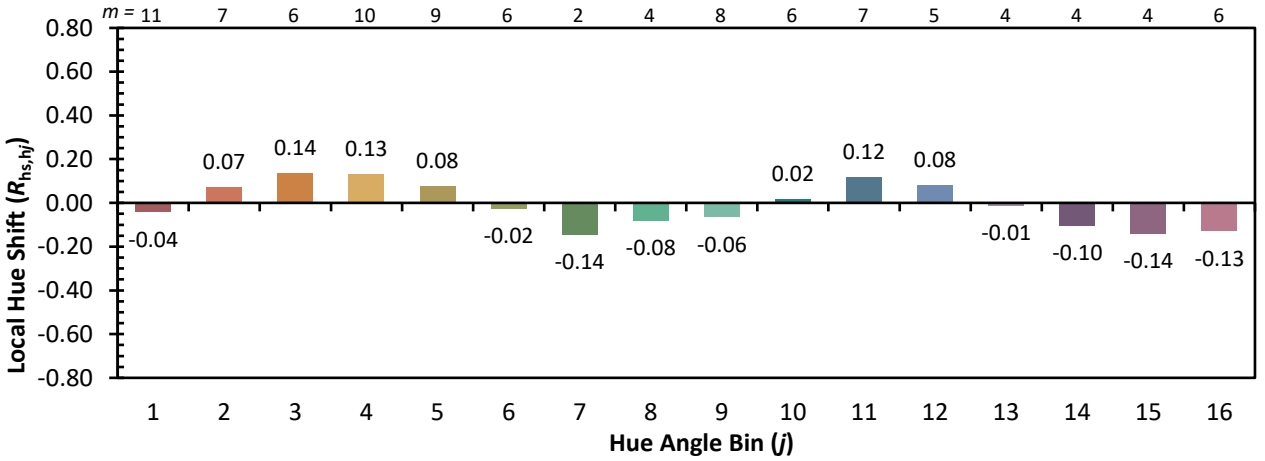
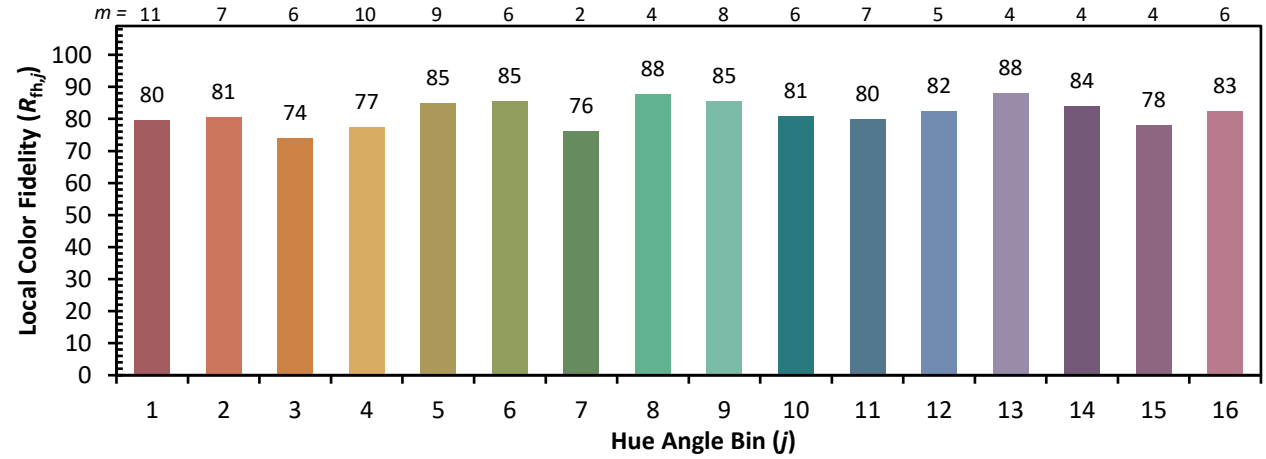
Color Rendition by Hue-Angle Bin







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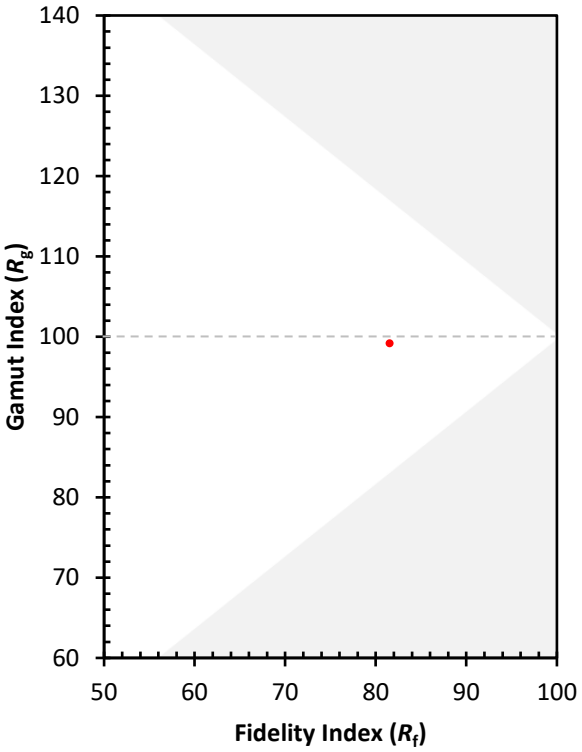
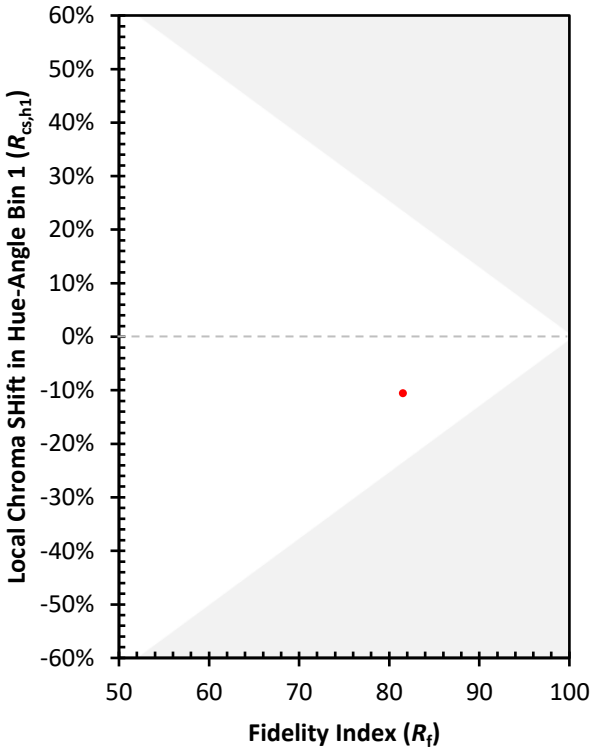
Measure Comparisons





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