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: P634013

Luminaire Tested: GWS-SA2F-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:	P634013
	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-SA2F-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:	13266.3 lumens
Efficiency:	N/A
Efficacy:	106.6 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):	124.5
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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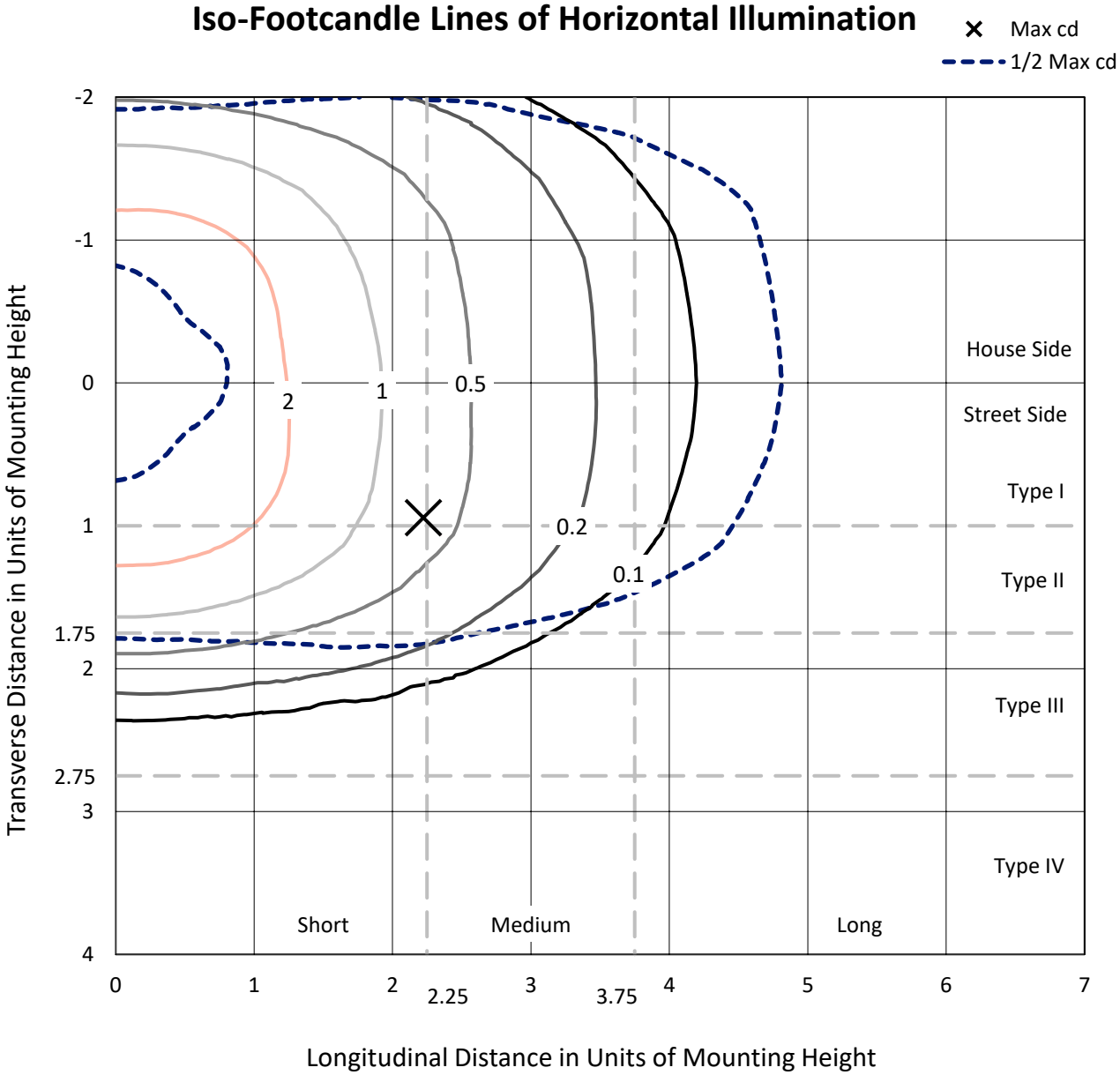
Scaled Data Report

REPORT NUMBER: P634013
CATALOG NUMBER: GWS-SA2F-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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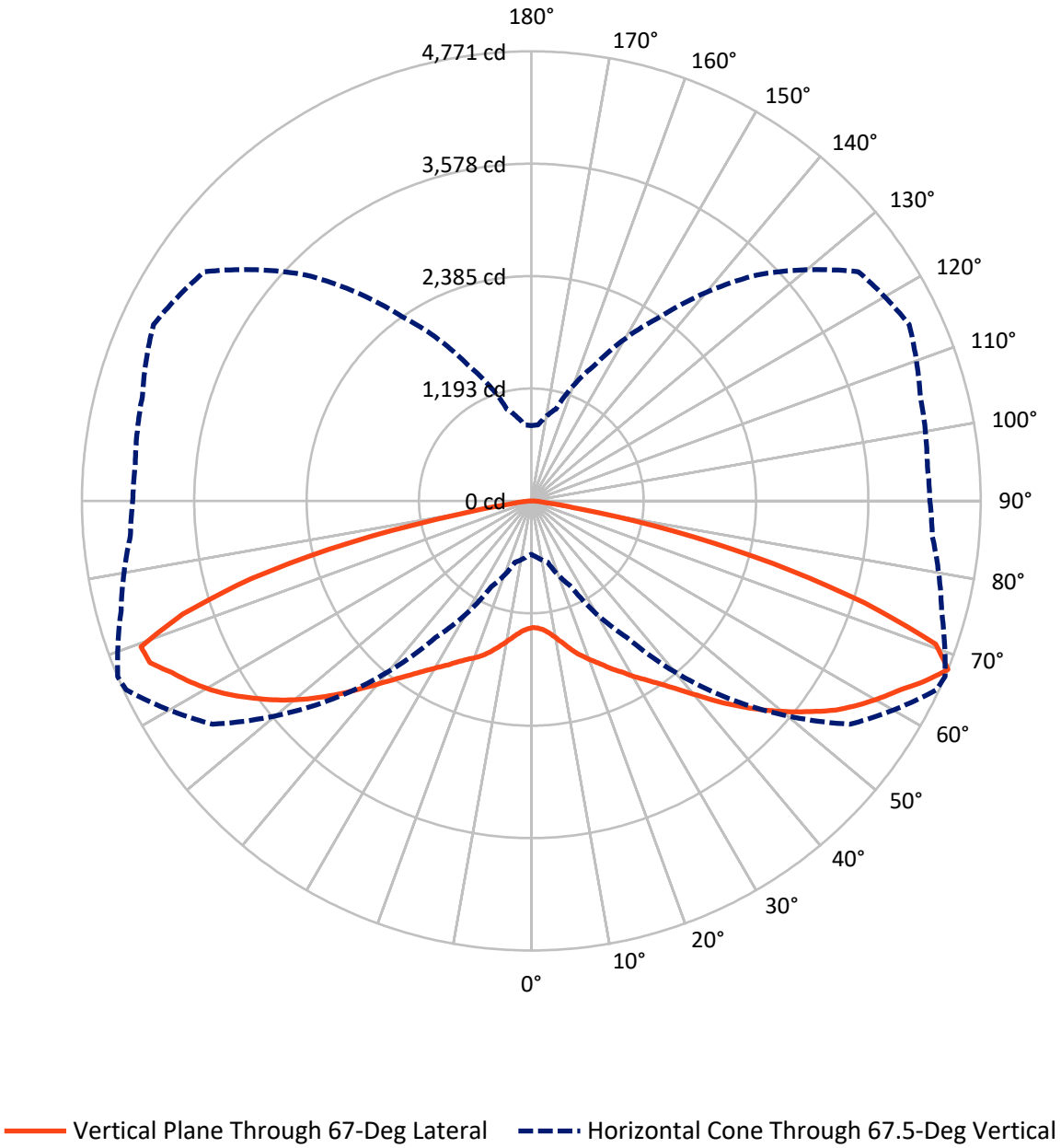
Luminous Intensity Polar Plot



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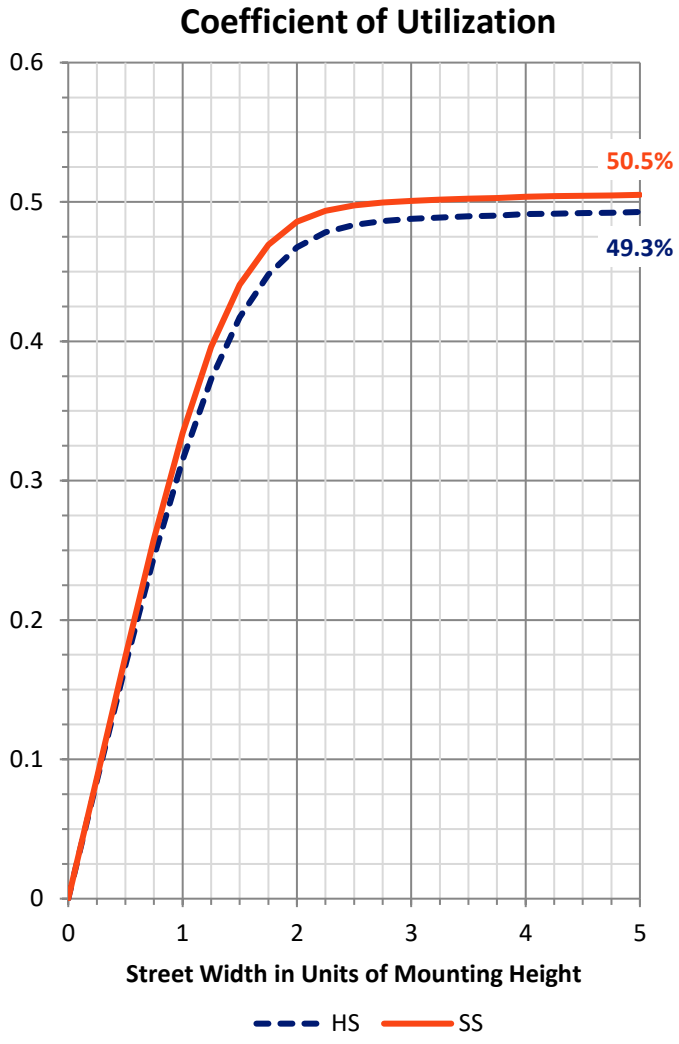
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6559.9	0.0	6559.9
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	6706.4	0.0	6706.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	13266.3	0.0	13266.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.0
10°-20°	445.2	3.4
20°-30°	873.6	6.6
30°-40°	1488.3	11.2
40°-50°	2389.9	18.0
50°-60°	3247.4	24.5
60°-70°	3106.3	23.4
70°-80°	1476.8	11.1
80°-90°	107.0	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°	13266.3	100.0
0°-180°	13266.3	100.0



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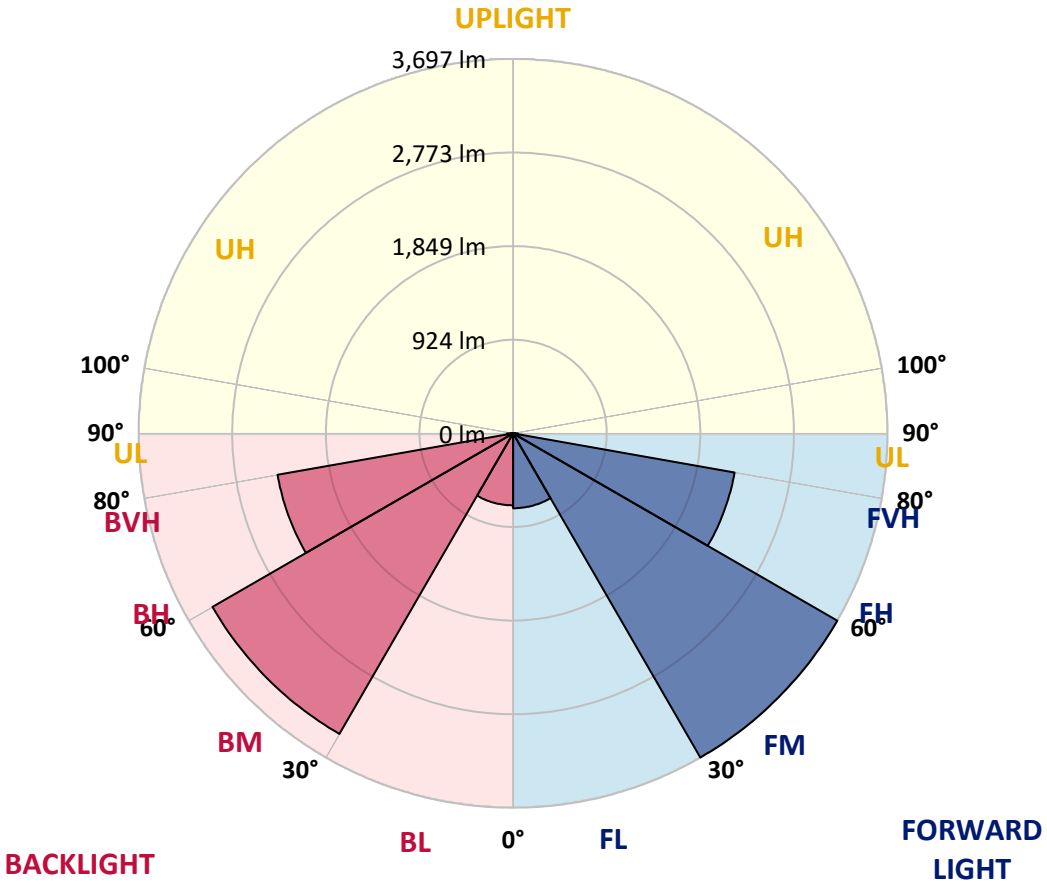
REPORT NUMBER: P634013
CATALOG NUMBER: GWS-SA2F-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	739.7	5.6			
FM	(30°-60°)	3697.4	27.9			
FH	(60°-80°)	2221.1	16.7			G2/5000
FVH	(80°-90°)	48.1	0.4			G1/100
BL	(0°-30°)	710.9	5.4	B2/1000		
BM	(30°-60°)	3428.1	25.8	B3/5000		
BH	(60°-80°)	2362.0	17.8	B3/2500		G3/2500
BVH	(80°-90°)	58.9	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: P634013
CATALOG NUMBER: GWS-SA2F-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	*1343.3*	1343.3	1343.3
2.5°	1315.6	1317.4	1320.2	1325.7	1331.3	1339.6	1347.9	1347.0	*1350.7*	1353.4	1356.2
5°	1308.2	1310.0	1314.6	1322.0	1330.4	1344.2	1361.8	1369.2	*1374.7*	1384.9	1394.1
7.5°	1323.9	1327.6	1334.0	1344.2	1357.1	1374.7	1398.7	1411.7	*1420.0*	1438.4	1454.1
10°	1345.1	1349.8	1362.7	1382.1	1401.5	1428.3	1458.8	1478.2	*1483.7*	1507.7	1537.3
12.5°	1365.5	1371.0	1392.3	1427.4	1462.5	1498.5	1534.5	1558.5	*1560.4*	1592.7	1626.0
15°	1397.8	1402.4	1431.1	1476.3	1529.9	1579.8	1624.1	1640.8	*1648.2*	1671.3	1712.8
17.5°	1468.9	1474.5	1511.4	1560.4	1616.7	1669.4	1713.8	1727.6	*1727.6*	1747.0	1781.2
20°	1545.6	1551.2	1600.1	1662.9	1731.3	1784.9	1819.1	1806.1	*1801.5*	1807.1	1831.1
22.5°	1631.5	1641.7	1688.8	1761.8	1845.9	1911.5	1929.0	1890.2	*1877.3*	1864.3	1869.9
25°	1741.5	1753.5	1799.7	1877.3	1959.5	2028.8	2039.0	1978.9	*1971.5*	1926.2	1909.6
27.5°	1868.0	1877.3	1934.6	2011.2	2087.9	2146.1	2157.2	2083.3	*2058.4*	1995.5	1956.7
30°	2031.6	2039.9	2089.8	2165.5	2232.0	2272.7	2286.5	2184.9	*2165.5*	2069.4	2009.4
32.5°	2209.9	2213.6	2264.4	2337.4	2396.5	2435.3	2415.9	2297.6	*2269.0*	2160.9	2078.7
35°	2414.0	2414.0	2479.6	2538.8	2585.9	2597.0	2560.0	2425.1	*2391.9*	2274.5	2172.0
37.5°	2614.5	2620.1	2681.0	2751.2	2792.8	2791.0	2723.5	2575.7	*2537.8*	2410.3	2296.7
40°	2831.6	2843.6	2904.6	2983.1	3022.9	3017.3	2913.8	2749.4	*2710.6*	2560.0	2449.1
42.5°	3031.2	3050.6	3121.7	3202.1	3245.5	3241.8	3133.7	2948.9	*2911.1*	2741.1	2630.2
45°	3190.1	3210.4	3299.1	3410.9	3480.2	3473.7	3364.7	3155.9	*3109.7*	2931.4	2809.4
47.5°	3329.6	3350.8	3449.7	3567.9	3677.9	3689.0	3589.2	3364.7	*3315.7*	3135.6	2997.9
50°	3436.7	3446.9	3557.8	3687.1	3814.6	3876.5	3789.7	3574.4	*3515.3*	3337.0	3181.8
52.5°	3428.4	3442.3	3579.0	3754.6	3925.5	4027.1	3967.0	3772.1	*3714.8*	3520.8	3369.3
55°	3259.4	3273.2	3435.8	3691.7	3987.4	4137.0	4130.6	3960.6	*3919.0*	3708.4	3564.2
57.5°	3012.7	3043.2	3204.9	3481.1	3906.1	4224.8	4250.7	4132.4	*4089.0*	3892.2	3757.3
60°	2571.1	2611.7	2798.4	3156.8	3645.5	4195.2	4379.1	4277.5	*4250.7*	4063.1	3931.9
62.5°	1868.0	1897.6	2146.1	2616.4	3259.4	3984.6	4487.2	4427.1	*4406.8*	4216.5	4089.9
65°	1118.8	1186.2	1385.8	1850.5	2629.3	3587.3	4428.0	4623.0	*4601.7*	4374.5	4224.8
67.5°	*566.3*	*596.8*	*675.3*	*1003.3*	*1768.3*	*2968.3*	*4131.5*	*4744.9*	*4770.8*	*4509.3*	*4272.8*
70°	351.1	359.4	381.6	495.2	883.2	1950.3	3378.5	4427.1	*4553.7*	4488.1	4148.1
72.5°	281.8	283.6	287.3	308.6	424.0	911.8	2136.0	3467.2	*3695.4*	4191.5	3969.8
75°	233.7	234.7	235.6	242.1	264.2	372.3	1039.3	2382.6	*2649.6*	3562.4	3680.6
77.5°	187.5	182.9	186.6	189.4	194.9	207.9	358.5	1271.2	*1541.9*	2338.3	2846.4
80°	121.9	120.1	127.5	130.3	135.8	144.1	191.2	431.4	*523.8*	850.9	905.4
82.5°	65.6	61.9	77.6	74.8	77.6	84.1	112.7	158.0	*177.4*	256.8	217.1
85°	20.3	20.3	21.2	24.9	30.5	29.6	49.0	77.6	*85.9*	109.9	81.3
87.5°	3.7	3.7	3.7	3.7	3.7	4.6	10.2	15.7	*21.2*	37.9	28.6
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

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CATALOG NUMBER: GWS-SA2F-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3
2.5°	1361.8	1353.4	1358.1	1360.8	1359.9	1358.1	1348.8	1347.0	1342.4	1335.0	1333.1
5°	1402.4	1393.2	1394.1	1391.3	1382.1	1370.1	1349.8	1339.6	1331.3	1322.0	1321.1
7.5°	1466.2	1456.0	1453.2	1440.3	1414.4	1386.7	1354.4	1335.9	1322.0	1310.0	1308.2
10°	1547.5	1537.3	1528.1	1497.6	1455.1	1418.1	1375.6	1348.8	1328.5	1313.7	1311.0
12.5°	1638.0	1629.7	1606.6	1562.2	1511.4	1468.0	1424.6	1391.3	1361.8	1339.6	1336.8
15°	1738.7	1720.2	1685.1	1627.8	1579.8	1544.7	1492.0	1446.8	1399.6	1370.1	1363.6
17.5°	1808.9	1793.2	1751.6	1696.2	1658.3	1627.8	1565.9	1501.3	1437.5	1394.1	1384.9
20°	1858.8	1842.2	1795.1	1754.4	1742.4	1716.5	1644.5	1569.6	1495.7	1442.1	1430.1
22.5°	1894.8	1877.3	1829.2	1808.9	1825.5	1820.9	1750.7	1665.7	1577.9	1514.2	1499.4
25°	1929.0	1912.4	1869.9	1877.3	1921.6	1935.5	1859.7	1760.9	1661.1	1586.3	1568.7
27.5°	1961.3	1940.1	1920.7	1961.3	2024.2	2050.0	1969.7	1857.9	1749.8	1673.1	1659.2
30°	2011.2	1986.3	1983.5	2042.6	2142.4	2164.6	2075.9	1964.1	1857.0	1779.3	1761.8
32.5°	2074.1	2051.0	2052.8	2141.5	2257.0	2275.5	2199.7	2095.3	1988.1	1910.5	1886.5
35°	2159.1	2130.4	2146.1	2255.1	2371.5	2405.7	2344.7	2257.9	2153.5	2074.1	2047.3
37.5°	2276.4	2234.8	2267.1	2381.7	2499.0	2549.8	2502.7	2438.1	2334.6	2254.2	2229.3
40°	2426.0	2391.9	2404.8	2531.4	2652.4	2713.4	2683.8	2620.1	2517.5	2433.4	2404.8
42.5°	2603.4	2569.2	2564.6	2699.5	2820.5	2912.9	2884.3	2826.1	2719.8	2623.8	2596.0
45°	2777.1	2745.7	2752.2	2889.8	3025.6	3126.3	3097.7	3029.3	2913.8	2803.0	2780.8
47.5°	2958.2	2932.3	2937.9	3083.8	3233.5	3334.2	3298.2	3215.0	3080.1	2961.9	2935.1
50°	3143.9	3114.3	3122.6	3276.0	3437.7	3532.8	3477.4	3354.5	3205.8	3090.3	3067.2
52.5°	3328.7	3293.5	3314.8	3459.8	3627.1	3702.8	3600.3	3451.5	3307.4	3192.8	3167.0
55°	3541.1	3504.2	3481.1	3636.3	3801.7	3833.1	3692.7	3519.0	3348.1	3217.8	3202.1
57.5°	3735.2	3703.7	3660.3	3815.5	3937.5	3914.4	3763.8	3500.5	3249.2	3082.0	3059.8
60°	3908.8	3882.0	3844.2	3976.3	4031.7	3980.0	3706.5	3281.5	3005.3	2830.7	2820.5
62.5°	4068.7	4040.0	4004.9	4117.6	4110.2	3990.1	3446.0	2945.3	2575.7	2388.2	2371.5
65°	4195.2	4169.4	4159.2	4247.9	4235.9	3791.5	3040.4	2394.6	1881.9	1670.3	1663.9
67.5°	*4231.3*	*4221.1*	*4275.6*	*4426.2*	*4238.7*	*3392.4*	*2384.5*	*1588.1*	*1010.7*	*810.2*	*798.2*
70°	4096.4	4095.5	4251.6	4466.8	3854.3	2591.4	1407.0	716.0	508.1	450.8	443.5
72.5°	3920.8	3918.1	4041.9	3853.4	2858.4	1418.1	592.2	383.4	317.8	302.1	302.1
75°	3632.6	3625.2	3718.5	2931.4	1607.5	534.0	314.1	263.3	249.4	246.7	246.7
77.5°	2961.0	2899.1	2752.2	1811.7	560.8	262.4	207.9	206.9	198.6	197.7	197.7
80°	973.7	973.7	1131.7	691.0	247.6	161.7	146.9	154.3	146.0	140.4	139.5
82.5°	158.9	219.0	311.3	197.7	134.0	100.7	90.5	96.1	100.7	80.4	80.4
85°	62.8	82.2	120.1	92.4	61.9	40.6	43.4	48.0	42.5	37.0	36.0
87.5°	24.0	29.6	42.5	22.2	12.9	7.4	4.6	4.6	3.7	3.7	3.7
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

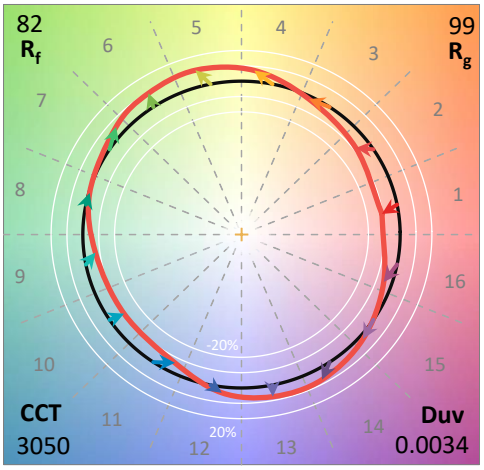
Test Information

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

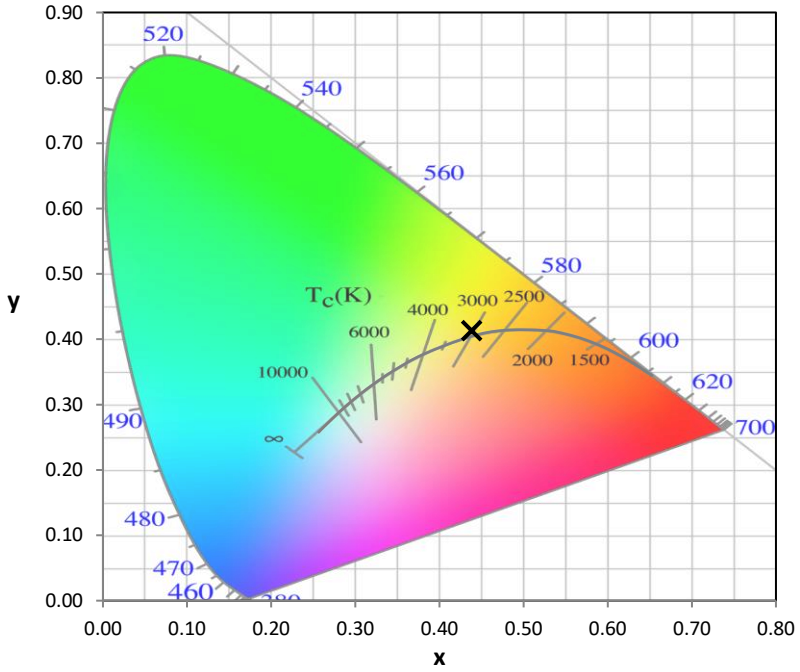
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

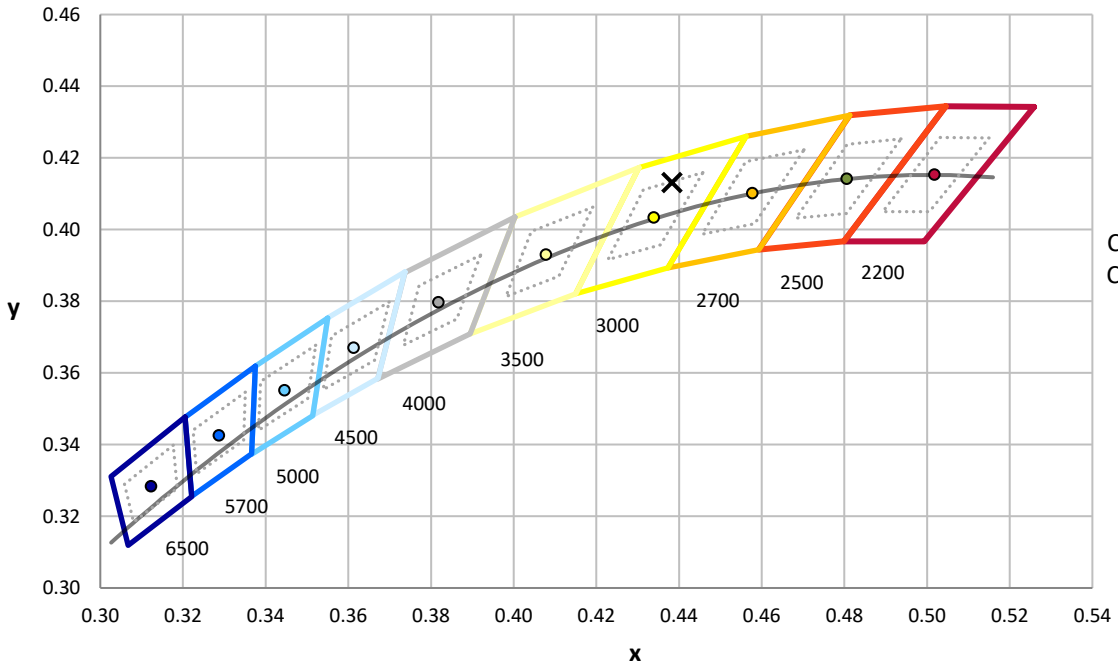
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

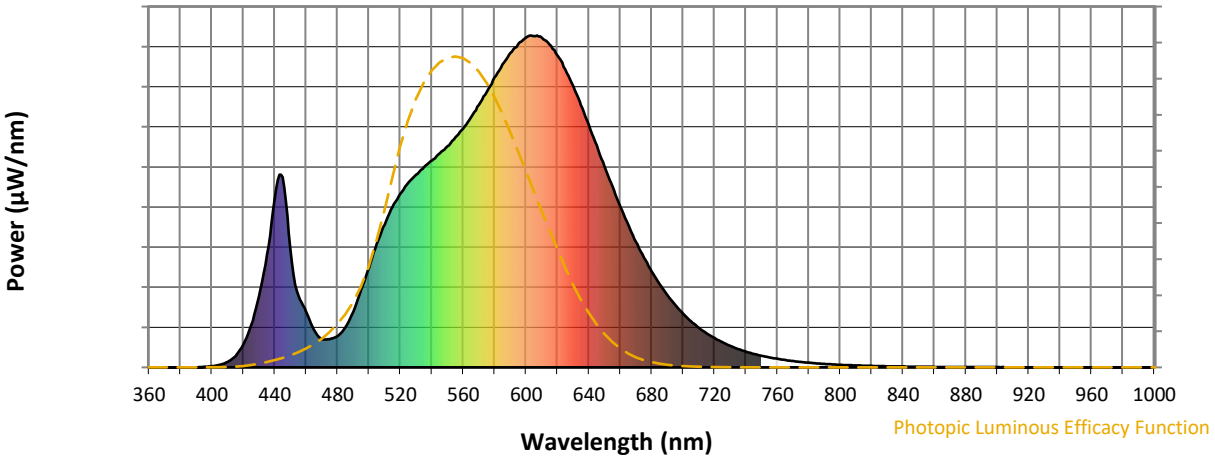


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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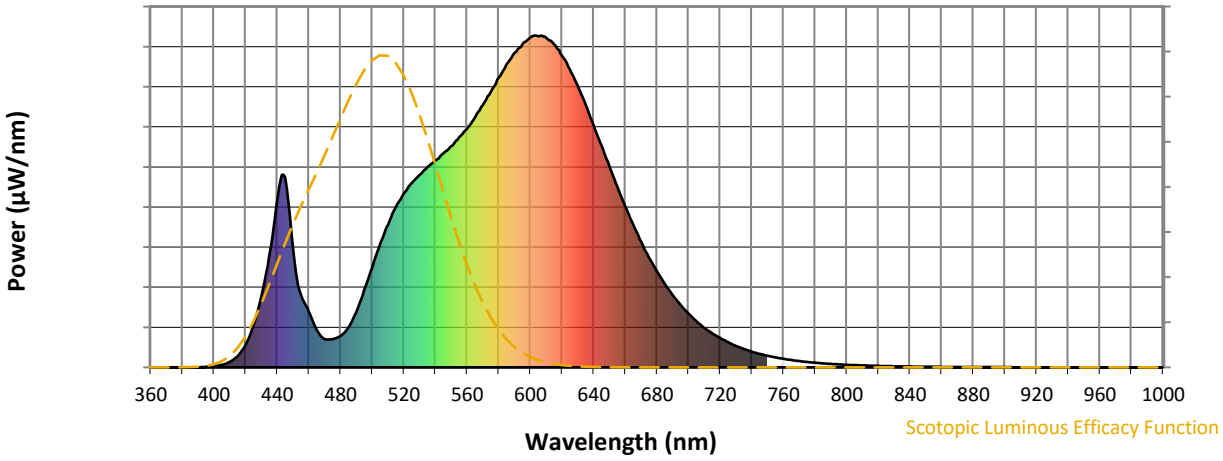
Scotopic Flux vs. Wavelength



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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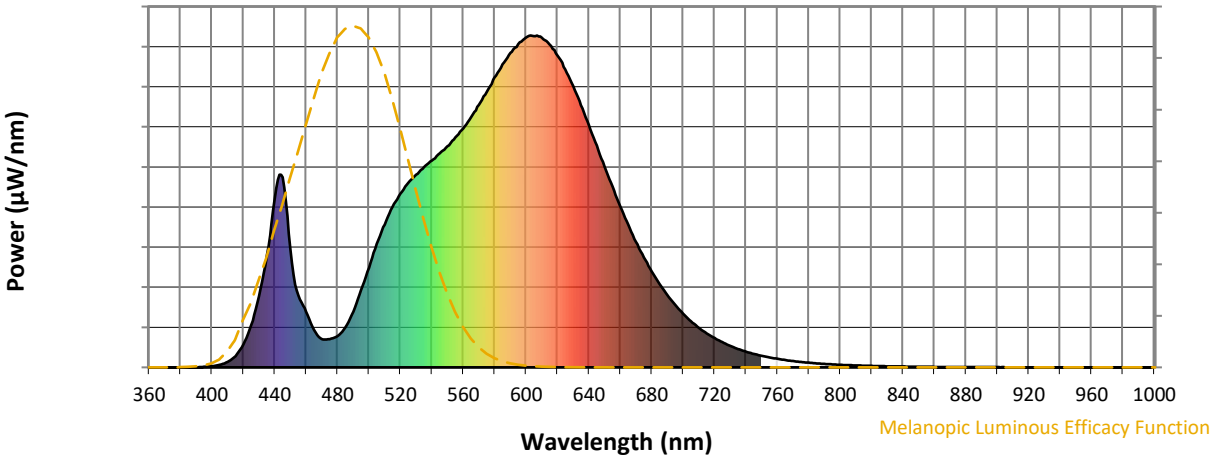
Melanopic Flux vs. Wavelength



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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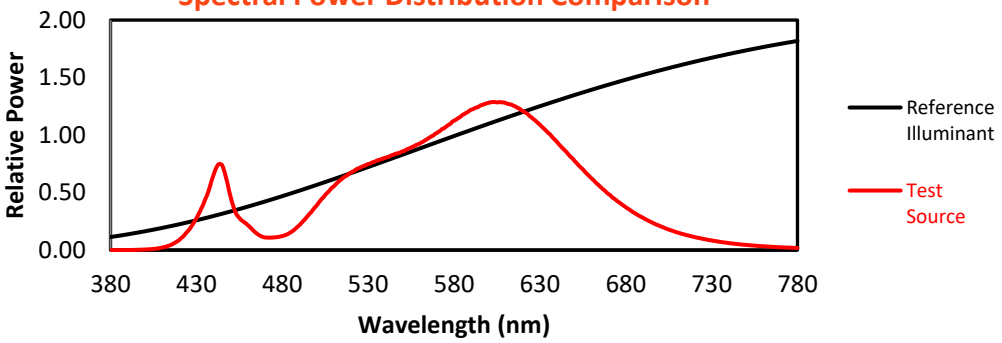
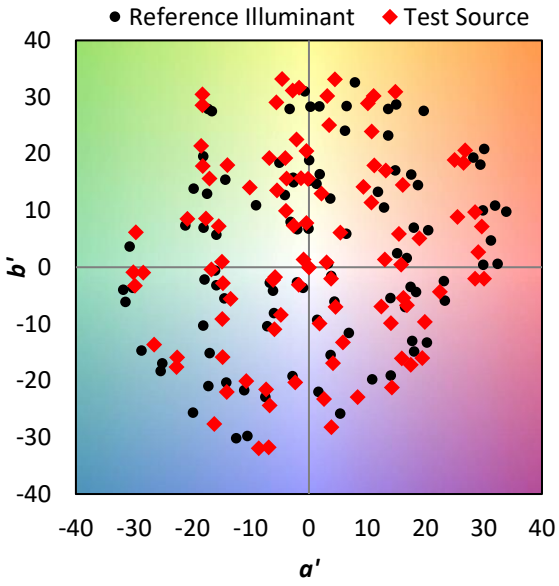
Summary

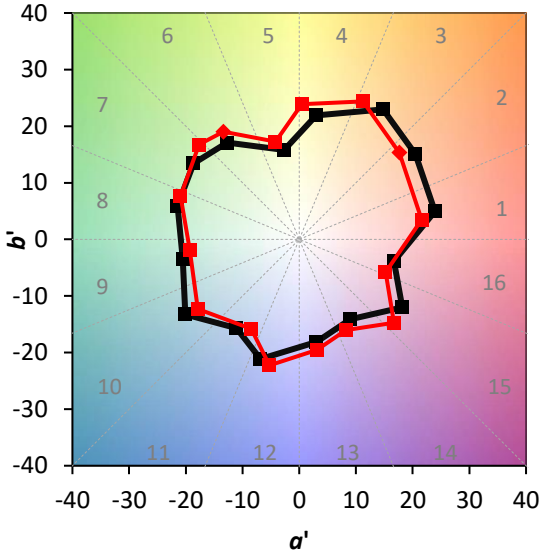
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

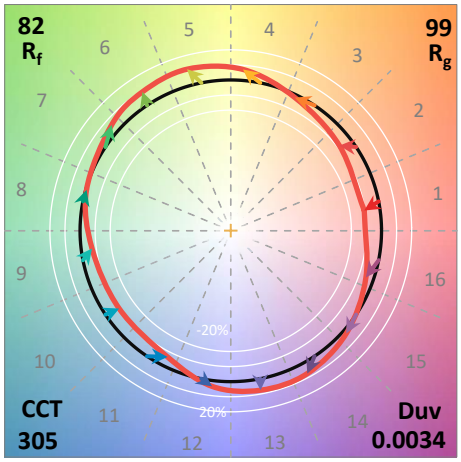
Spectral Power Distribution Comparison

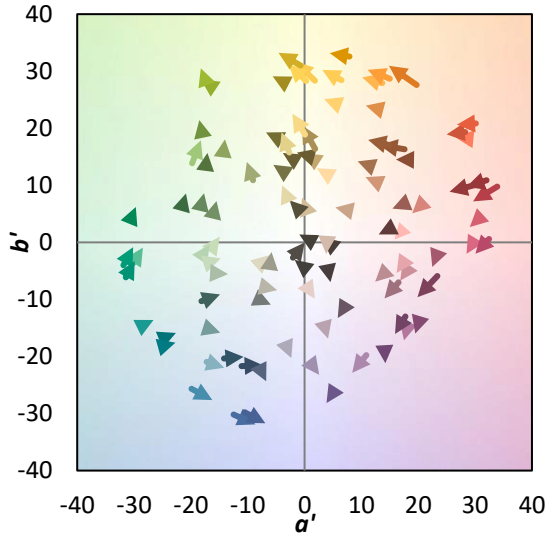


Color Vector Graphics









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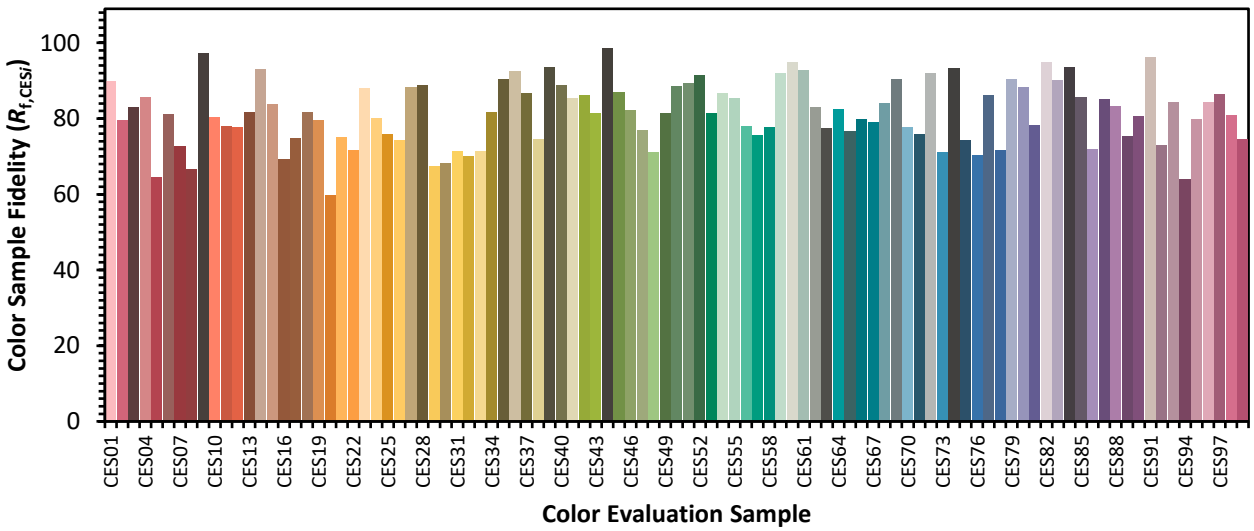
Individual Sample Fidelity Index ($R_{f,i}$)

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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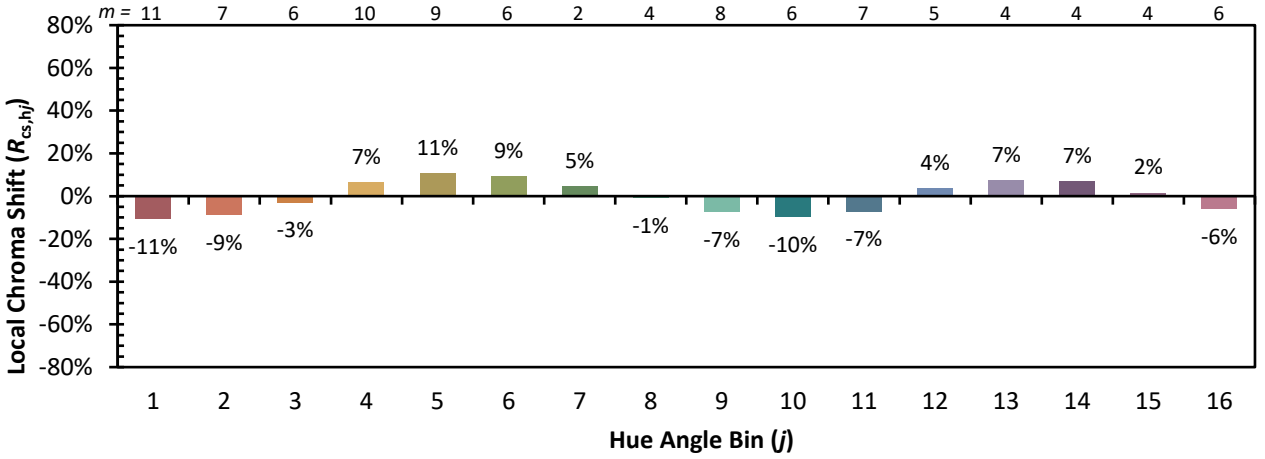
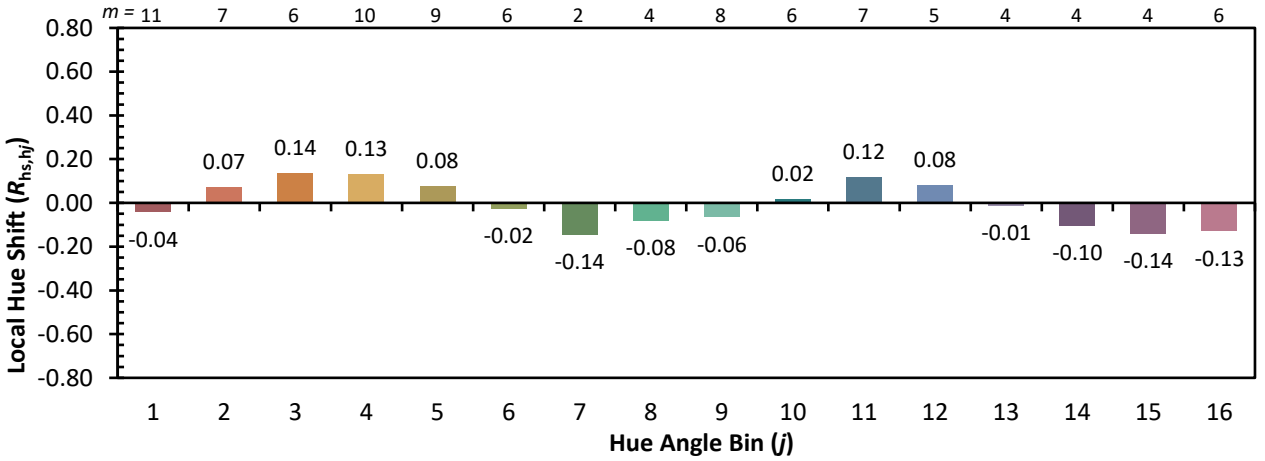
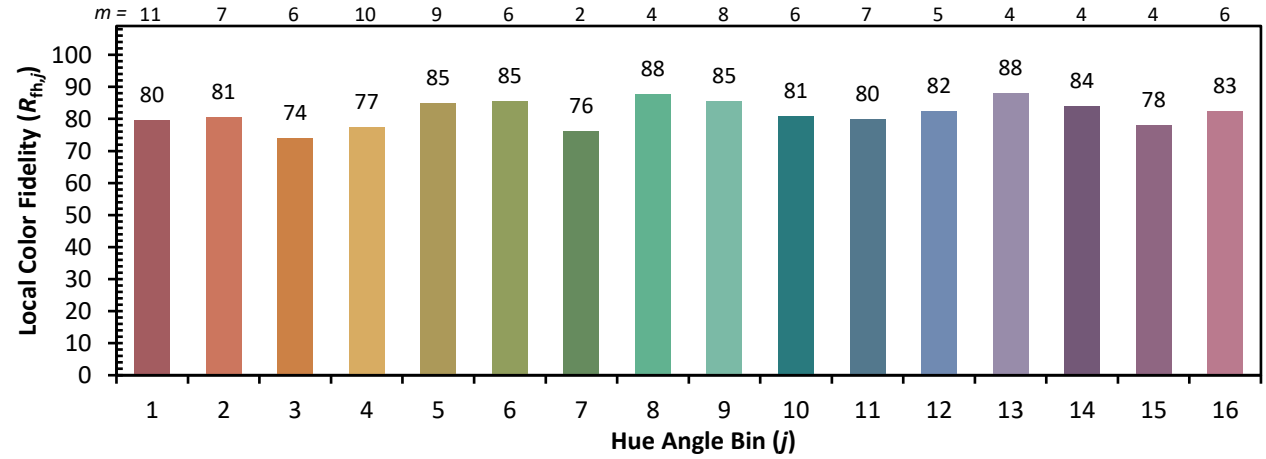
Color Rendition by Hue-Angle Bin







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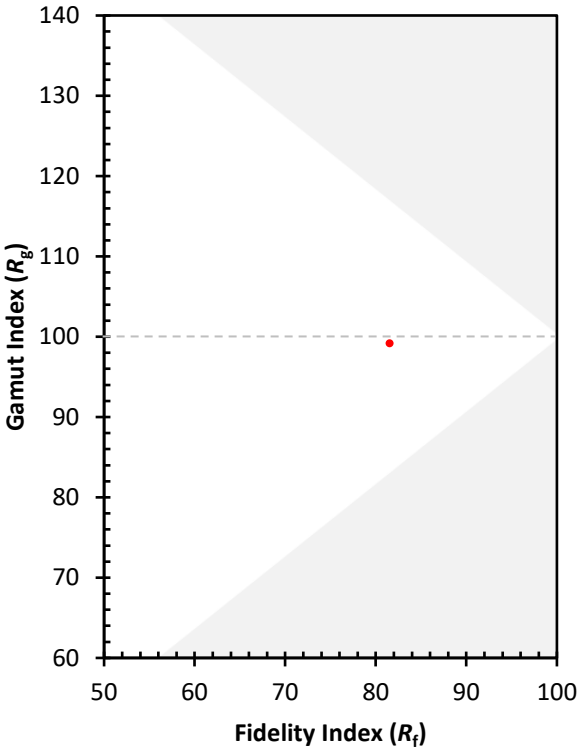
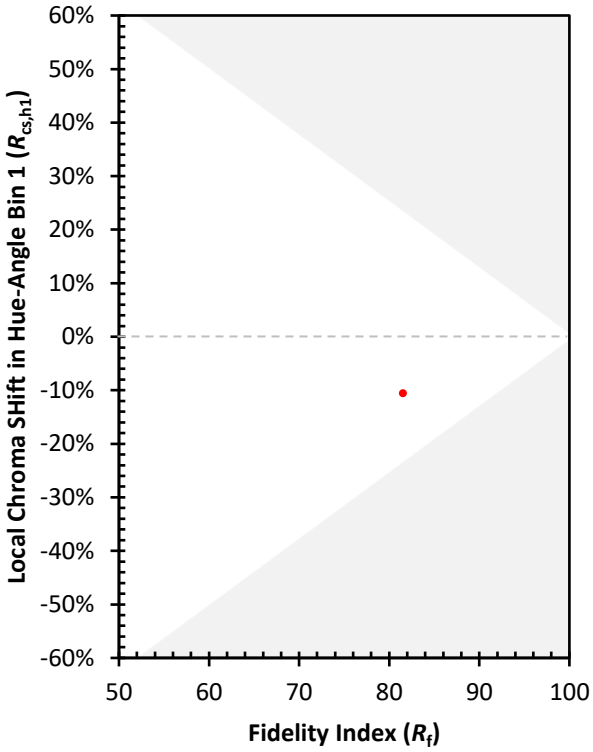
Measure Comparisons





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