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: P633022

Luminaire Tested: GWS-SA2D-830-U-RW-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:	P633022
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	8176.6 lumens
Efficiency:	N/A
Efficacy:	99.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G1

Input Watts (W):	82.1
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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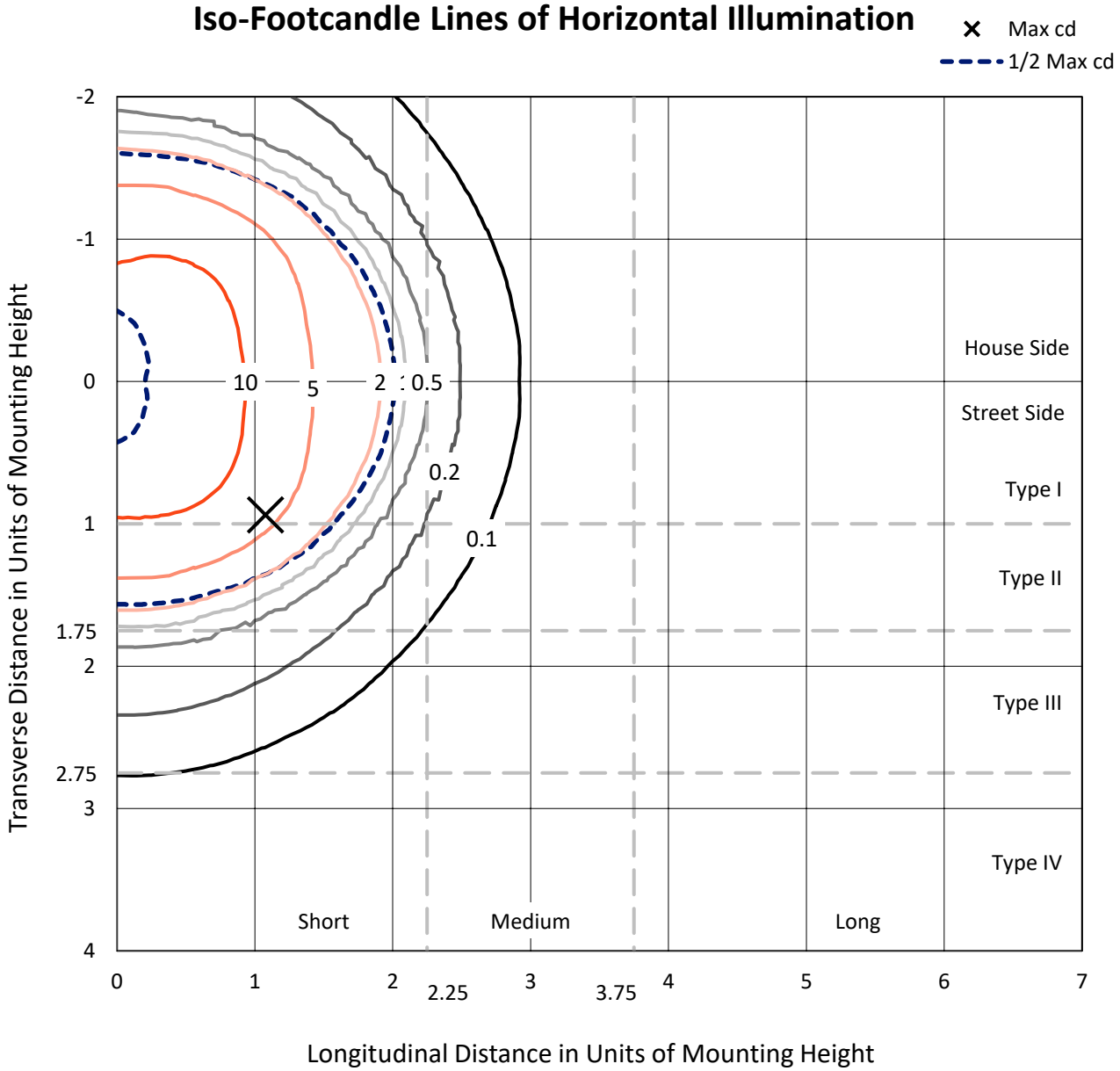
Scaled Data Report

REPORT NUMBER: P633022
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15 fc
Type V - Short - N/A

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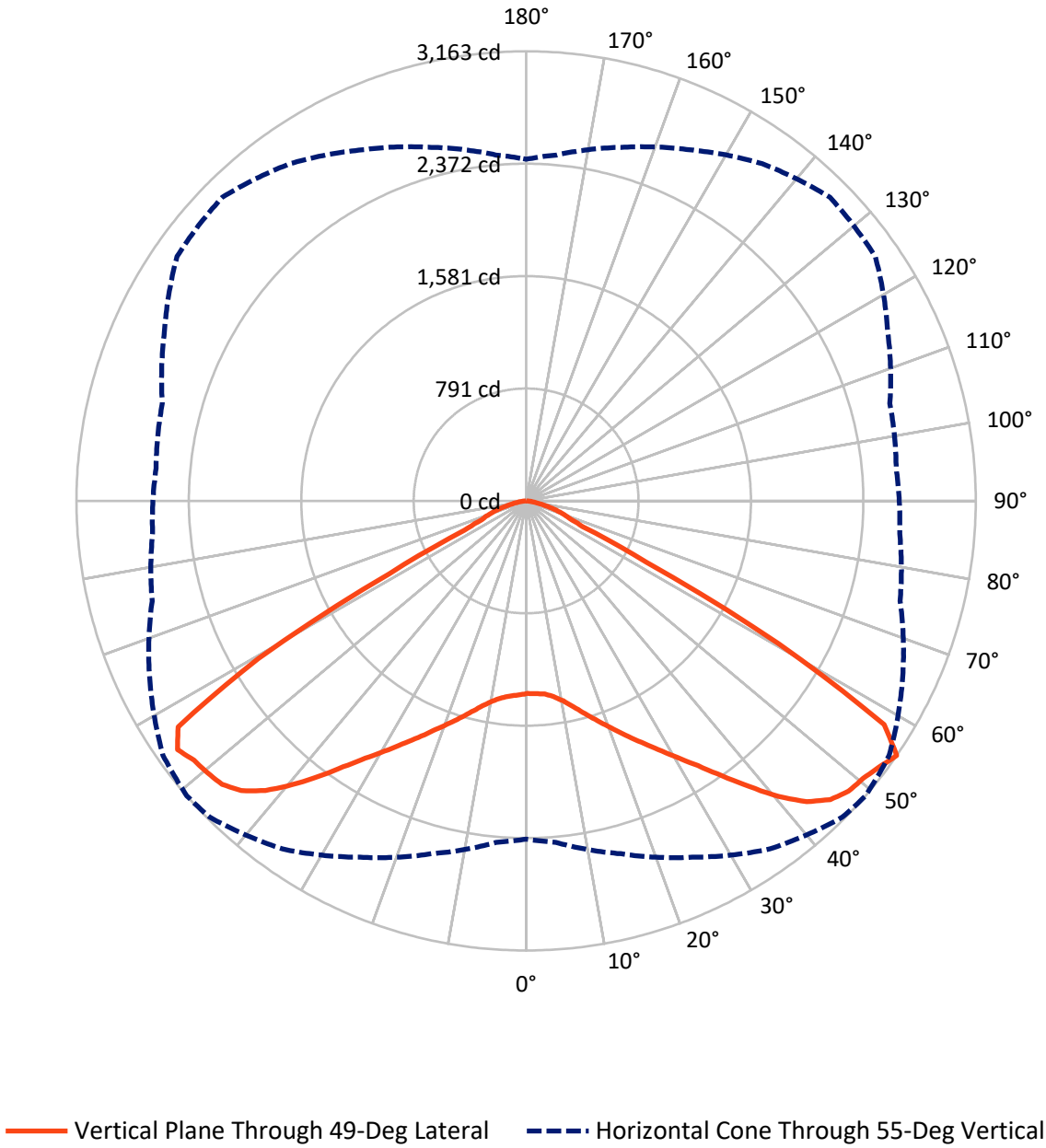
Luminous Intensity Polar Plot



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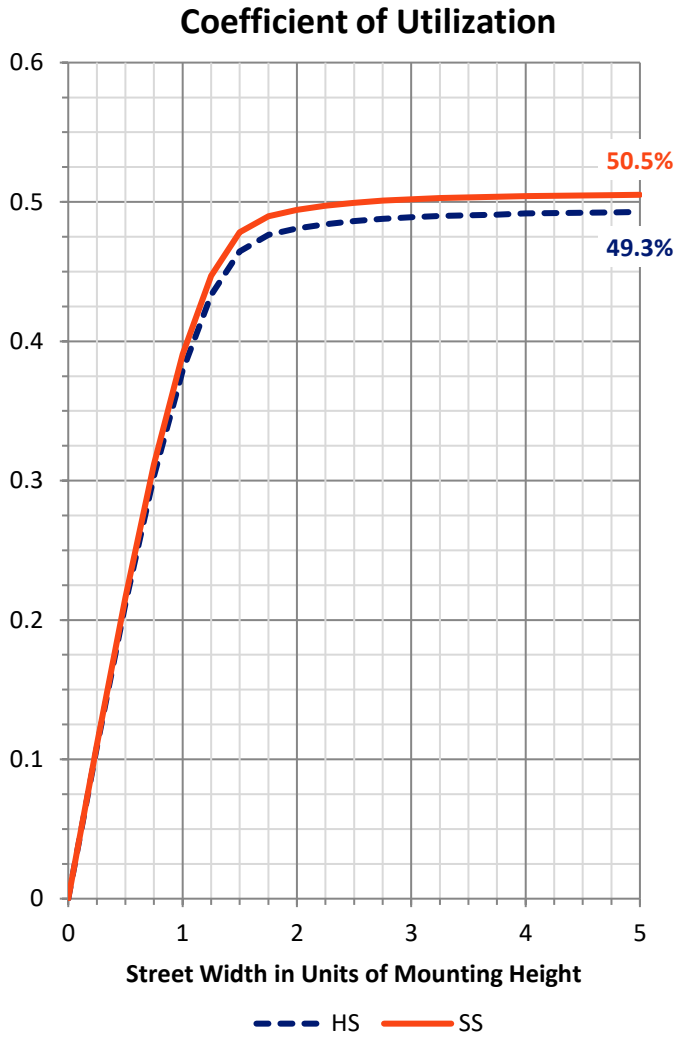
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4048.2	0.0	4048.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	4128.4	0.0	4128.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	8176.6	0.0	8176.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.6
10°-20°	435.8	5.3
20°-30°	830.1	10.2
30°-40°	1407.2	17.2
40°-50°	2117.8	25.9
50°-60°	2318.1	28.4
60°-70°	733.0	9.0
70°-80°	175.9	2.2
80°-90°	26.4	0.3
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°	8176.6	100.0
0°-180°	8176.6	100.0



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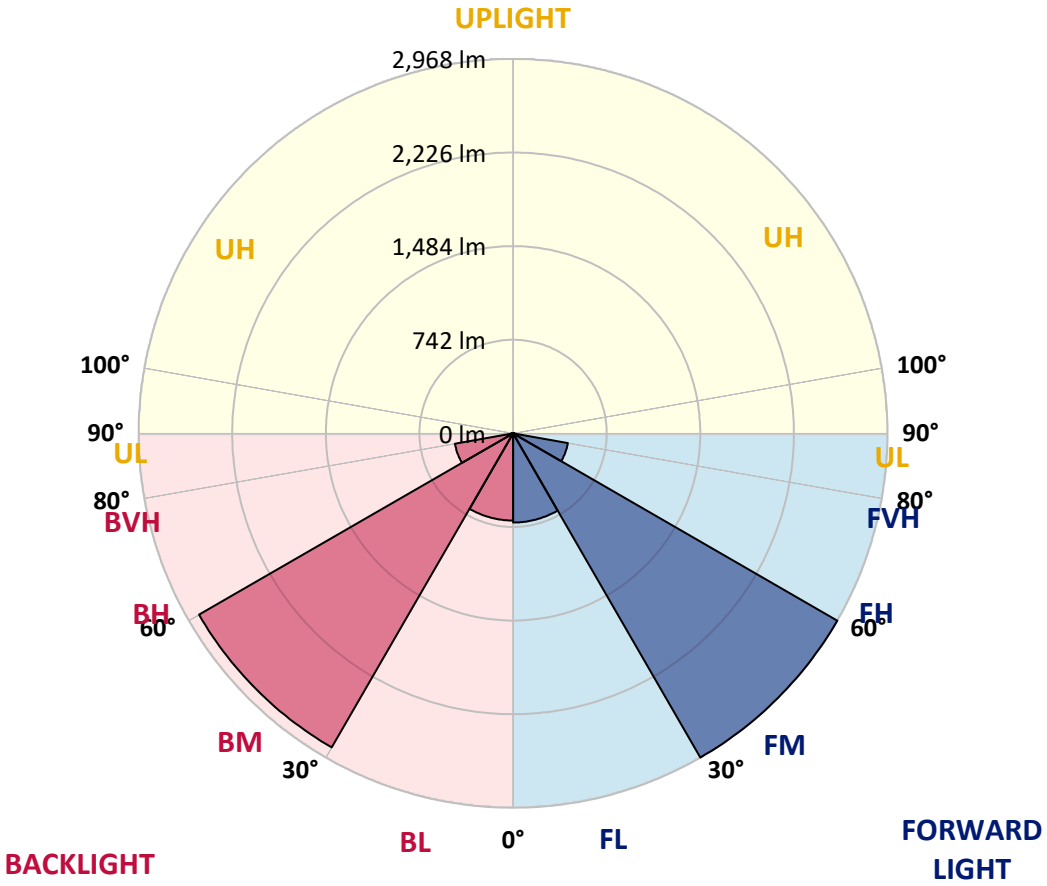
REPORT NUMBER: P633022
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	706.9	8.6			
FM	(30°-60°)	2968.3	36.3			
FH	(60°-80°)	440.9	5.4			G0/660
FVH	(80°-90°)	12.2	0.1			G1/100
BL	(0°-30°)	691.1	8.5	B2/1000		
BM	(30°-60°)	2874.9	35.2	B3/5000		
BH	(60°-80°)	468.0	5.7	B1/500		G0/660
BVH	(80°-90°)	14.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
Type V Short



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Scaled Data Report

REPORT NUMBER: P633022
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1334.6	1335.9	1338.5	1343.2	1347.9	1354.5	1357.2	1360.5	1359.8	1363.8	1363.8
5°	1327.9	1329.9	1333.9	1340.5	1348.5	1361.2	1364.5	1372.5	1380.4	1390.4	1393.7
7.5°	1335.9	1338.5	1343.2	1353.8	1365.8	1382.4	1389.1	1402.4	1417.7	1435.6	1442.9
10°	1351.2	1354.5	1362.5	1379.8	1399.1	1424.3	1430.3	1446.9	1471.5	1496.1	1510.8
12.5°	1368.5	1373.8	1388.4	1415.7	1444.3	1477.5	1486.8	1507.4	1534.0	1566.0	1585.9
15°	1388.4	1393.1	1415.7	1454.2	1498.8	1542.7	1553.3	1573.3	1603.2	1634.4	1662.4
17.5°	1430.3	1438.3	1464.9	1509.4	1561.3	1613.2	1625.1	1647.7	1671.7	1696.3	1722.9
20°	1487.5	1494.1	1528.1	1583.2	1644.4	1691.6	1703.6	1723.6	1734.9	1747.5	1770.1
22.5°	1544.7	1554.0	1592.6	1657.7	1729.5	1780.7	1790.0	1808.7	1800.7	1796.7	1811.3
25°	1615.8	1628.5	1666.4	1737.5	1810.7	1873.8	1881.1	1897.1	1883.8	1863.2	1862.5
27.5°	1704.3	1715.6	1754.8	1827.9	1900.4	1966.3	1980.2	2001.5	1972.2	1947.0	1929.0
30°	1809.3	1816.6	1859.9	1937.7	2012.1	2074.6	2092.6	2113.9	2091.9	2050.0	2032.1
32.5°	1931.7	1941.7	1991.5	2073.3	2139.8	2202.3	2220.3	2246.9	2222.9	2175.7	2153.1
35°	2078.6	2088.6	2141.1	2230.2	2298.1	2362.6	2375.2	2397.1	2367.2	2312.7	2294.7
37.5°	2238.2	2250.9	2317.4	2401.8	2472.9	2548.1	2548.8	2555.4	2512.8	2445.0	2425.1
40°	2417.8	2434.4	2500.9	2588.7	2674.4	2735.6	2734.9	2716.3	2644.5	2539.4	2508.9
42.5°	2595.3	2608.6	2675.8	2766.2	2852.0	2909.8	2892.5	2847.3	2743.6	2600.6	2560.1
45°	2723.6	2733.6	2804.1	2905.8	2992.9	3028.8	2997.6	2943.1	2802.8	2639.2	2579.3
47.5°	2784.1	2797.4	2868.6	2969.7	3068.1	3088.7	3051.5	3000.3	2837.3	2675.1	2594.6
50°	2751.6	2768.9	2849.3	2943.1	3054.1	3096.7	3070.1	3018.9	2873.9	2710.3	2621.9
52.5°	2667.1	2683.7	2785.5	2899.2	3024.9	3109.3	3108.6	3066.7	2915.8	2720.3	2623.2
55°	2378.5	2411.1	2569.4	2765.5	2989.0	3146.5	3162.5	3118.0	2922.5	2723.0	2637.2
57.5°	1548.0	1605.2	1755.5	2010.8	2459.0	2861.9	2969.7	2980.3	2874.6	2711.7	2639.9
60°	646.3	692.2	811.2	980.8	1351.2	1830.6	2039.4	2248.9	2501.5	2593.3	2615.2
62.5°	401.6	405.6	417.6	456.2	579.8	813.9	948.2	1144.4	1520.1	1839.9	1987.5
65°	362.4	364.4	367.1	364.4	370.4	399.0	434.9	503.4	656.3	815.2	1004.1
67.5°	319.2	321.8	323.8	321.8	323.8	325.2	329.2	335.1	363.1	385.7	403.0
70°	258.0	262.0	265.3	264.0	272.0	272.0	276.0	280.6	294.6	311.2	323.2
72.5°	196.8	193.5	197.5	198.8	206.1	210.1	216.1	221.4	237.4	247.4	262.7
75°	127.7	124.3	130.3	133.7	143.6	148.9	154.3	159.6	170.9	177.5	192.2
77.5°	69.2	68.5	74.5	79.1	89.8	96.4	100.4	104.4	113.7	115.7	125.0
80°	39.9	39.9	43.9	47.2	53.9	61.2	65.2	68.5	75.1	77.1	81.1
82.5°	21.9	21.9	23.9	25.9	31.3	35.2	38.6	41.2	47.2	49.2	51.2
85°	10.6	10.0	11.3	12.6	14.6	16.6	18.6	19.9	24.6	25.9	28.6
87.5°	1.3	1.3	1.3	2.0	2.7	4.0	4.7	4.7	7.3	8.6	10.0
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: P633022
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1367.8	1359.2	1364.5	1366.5	1366.5	1364.5	1355.8	1353.2	1349.2	1343.2	1343.2
5°	1398.4	1391.7	1393.1	1389.7	1381.8	1371.8	1355.8	1347.9	1341.2	1333.9	1333.2
7.5°	1450.9	1442.3	1440.9	1428.3	1407.0	1385.8	1361.8	1347.2	1337.2	1327.9	1327.2
10°	1519.4	1511.4	1501.5	1476.2	1444.9	1413.7	1381.1	1361.2	1346.5	1333.2	1332.6
12.5°	1595.9	1586.6	1568.0	1530.7	1491.5	1460.9	1423.7	1393.1	1371.1	1353.2	1349.8
15°	1679.0	1665.7	1633.8	1589.9	1551.3	1518.7	1478.8	1435.0	1401.7	1373.1	1369.8
17.5°	1742.8	1725.5	1691.0	1649.7	1617.8	1585.2	1533.4	1478.2	1430.3	1394.4	1389.1
20°	1786.7	1772.8	1733.5	1702.9	1684.3	1655.7	1595.2	1532.7	1478.8	1433.6	1431.0
22.5°	1827.3	1810.7	1772.1	1754.1	1754.1	1734.9	1677.0	1603.2	1540.0	1487.5	1480.8
25°	1873.2	1855.2	1826.0	1824.0	1833.3	1824.6	1754.8	1675.7	1601.9	1542.7	1532.0
27.5°	1937.0	1917.1	1899.8	1911.7	1925.0	1915.7	1837.9	1746.2	1668.4	1608.5	1599.2
30°	2038.7	2014.1	1998.2	2012.8	2038.7	2011.5	1927.0	1829.9	1751.5	1685.6	1681.0
32.5°	2157.1	2129.2	2112.5	2135.8	2159.1	2116.5	2032.8	1939.7	1857.2	1788.1	1780.1
35°	2299.4	2264.2	2239.6	2270.8	2294.7	2252.9	2169.7	2081.3	1989.5	1917.7	1907.1
37.5°	2425.7	2383.2	2366.6	2410.4	2442.4	2415.1	2324.7	2241.5	2141.1	2062.7	2058.0
40°	2517.5	2475.6	2463.6	2536.1	2592.0	2585.3	2504.2	2409.1	2314.7	2224.3	2215.6
42.5°	2557.4	2528.1	2530.8	2628.5	2715.0	2757.5	2685.1	2583.3	2492.2	2398.5	2392.5
45°	2566.0	2548.1	2569.4	2691.7	2805.4	2892.5	2830.7	2745.6	2642.5	2552.1	2549.4
47.5°	2575.4	2565.4	2598.0	2727.6	2862.6	2963.7	2929.1	2841.3	2736.9	2648.5	2641.8
50°	2597.3	2593.3	2629.9	2752.9	2889.9	2983.0	2943.7	2856.6	2749.6	2662.5	2646.5
52.5°	2603.9	2597.3	2649.8	2792.1	2935.1	2982.3	2897.9	2784.1	2676.4	2579.3	2562.7
55°	*2624.6*	*2612.6*	*2648.5*	*2806.8*	*2997.6*	*3020.9*	*2895.2*	*2725.0*	*2574.7*	*2442.4*	*2403.1*
57.5°	2629.9	2616.6	2639.9	2782.8	2929.8	2909.2	2544.8	2199.0	1915.7	1768.8	1785.4
60°	2601.3	2605.3	2565.4	2549.4	2349.9	2074.6	1558.0	1245.5	978.1	865.1	889.7
62.5°	1980.2	1996.8	1860.5	1617.8	1244.1	986.1	652.3	506.7	428.9	408.9	412.3
65°	999.4	1022.0	880.4	728.1	541.3	437.5	378.4	366.4	362.4	357.7	357.7
67.5°	395.6	402.3	397.0	371.7	345.8	336.5	333.8	332.5	327.8	325.2	325.8
70°	317.8	323.2	315.2	299.2	288.6	287.9	286.6	283.9	280.6	280.6	282.6
72.5°	259.3	264.7	253.3	243.4	235.4	229.4	226.1	224.1	219.4	219.4	221.4
75°	190.8	194.2	184.9	183.5	174.9	168.9	163.6	160.9	154.9	152.3	154.3
77.5°	127.0	126.3	121.7	121.7	118.4	111.0	105.1	99.1	91.1	85.8	87.1
80°	82.5	82.5	80.5	80.5	77.1	71.1	63.8	57.9	53.2	49.2	49.2
82.5°	52.5	51.9	51.2	50.5	49.2	43.2	37.9	33.9	30.6	27.9	28.6
85°	29.3	29.3	27.9	27.9	25.3	21.9	19.3	16.6	14.6	14.0	14.0
87.5°	10.0	10.0	9.3	9.3	8.0	6.0	4.7	4.0	3.3	2.7	3.3
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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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

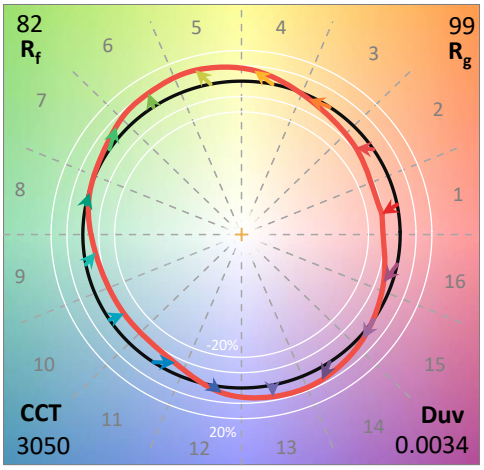
Test Information

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

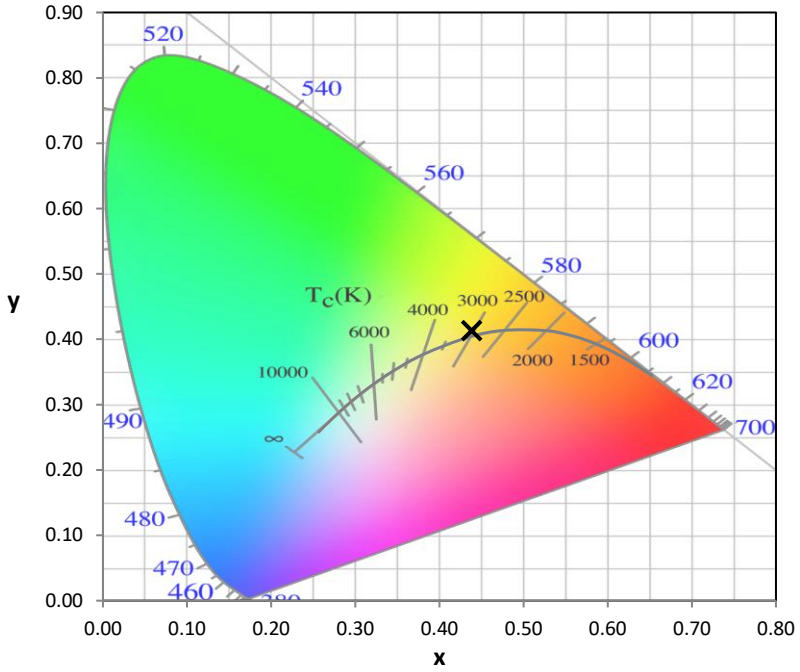
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

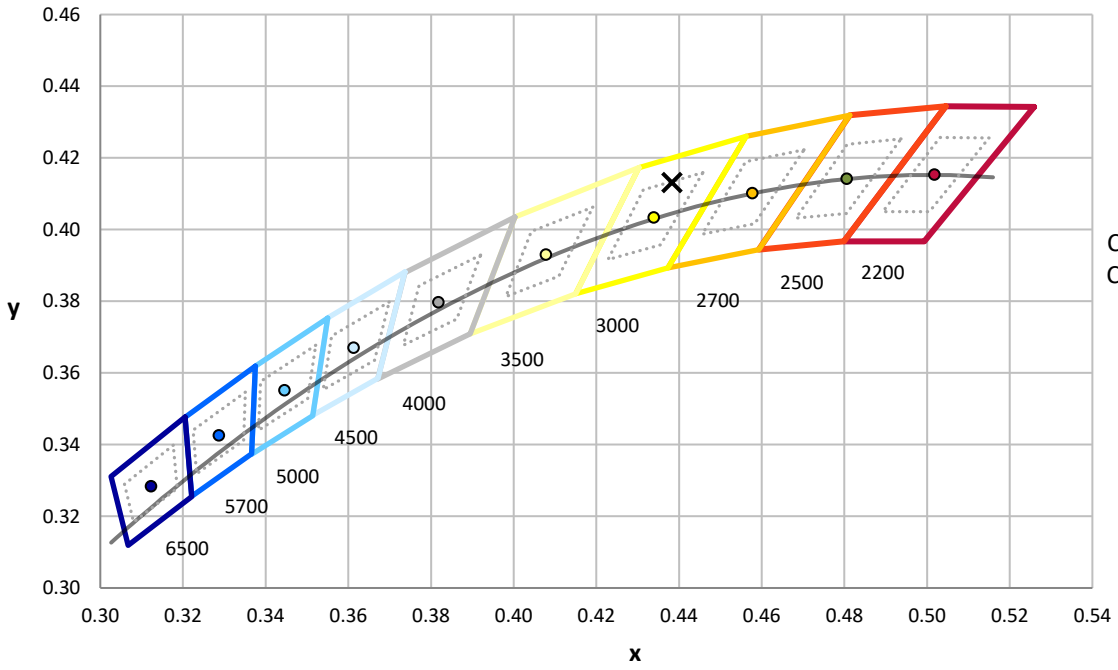
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

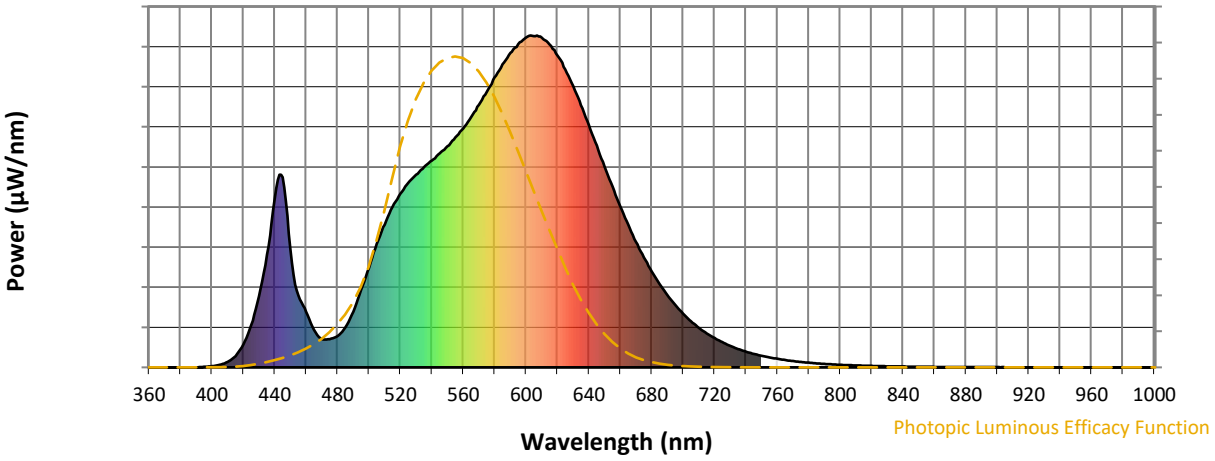


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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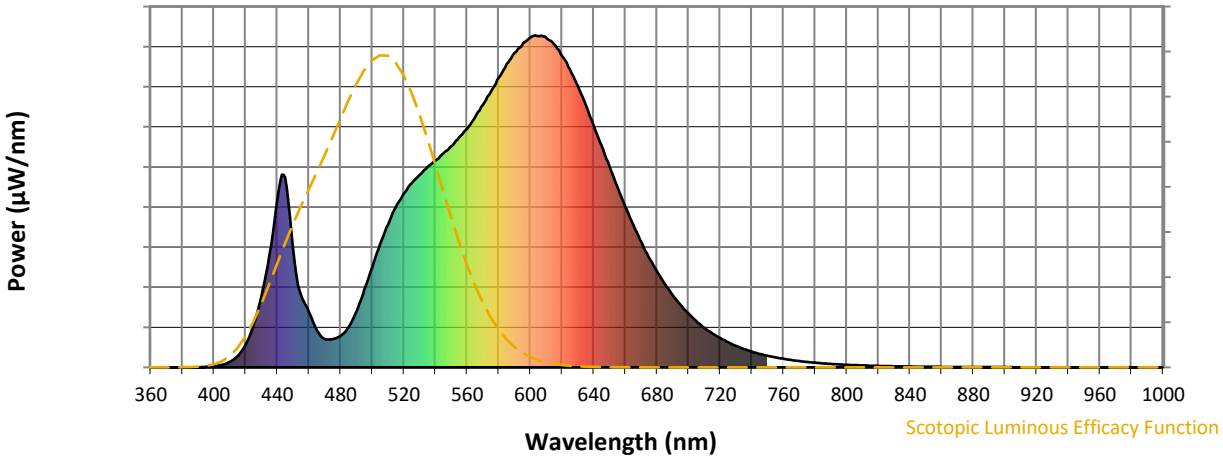
Scotopic Flux vs. Wavelength



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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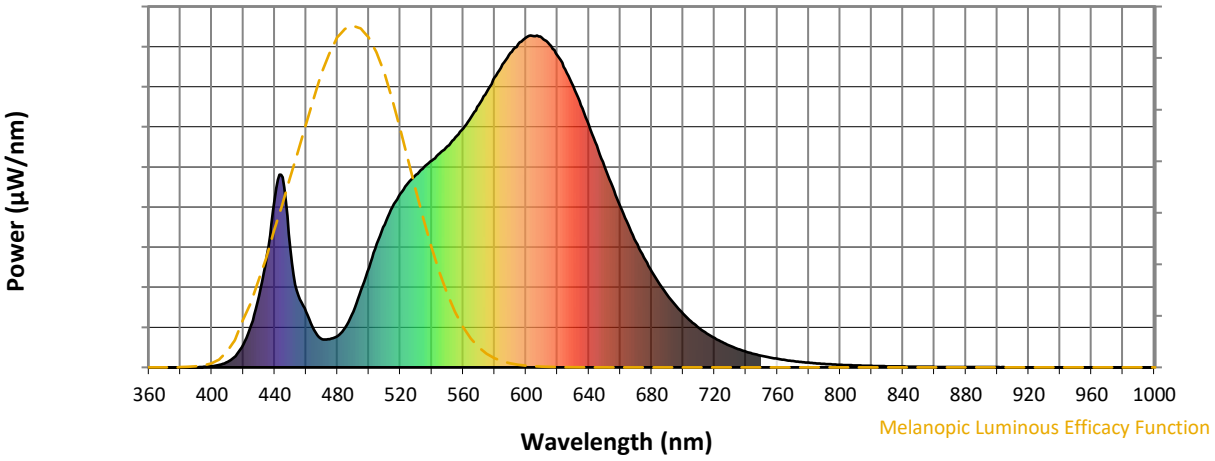
Melanopic Flux vs. Wavelength



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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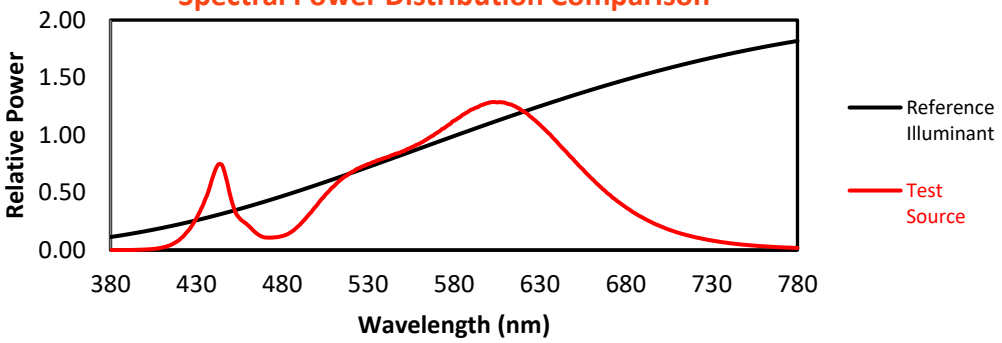
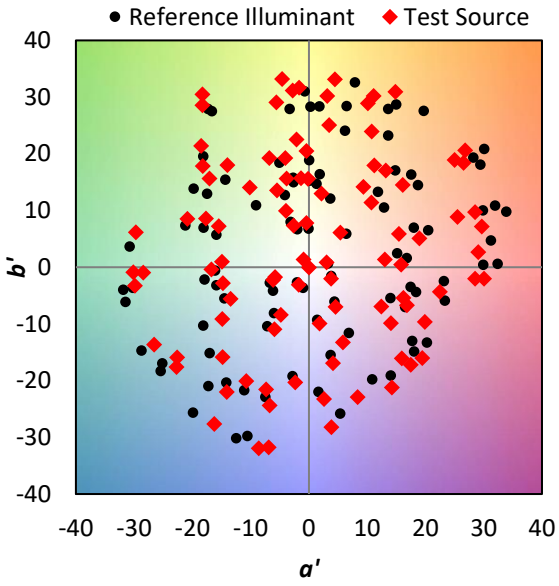
Summary

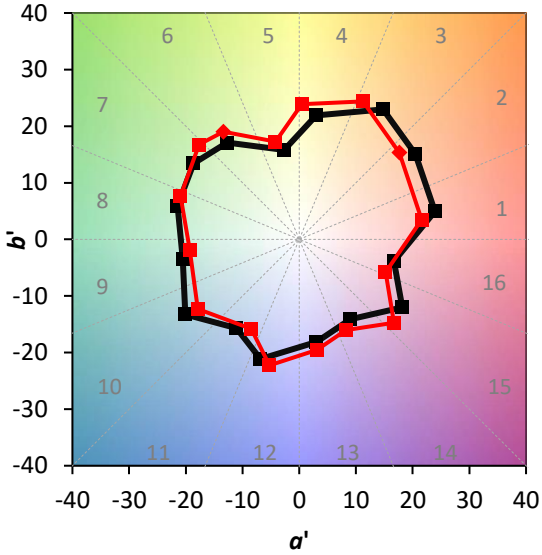
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

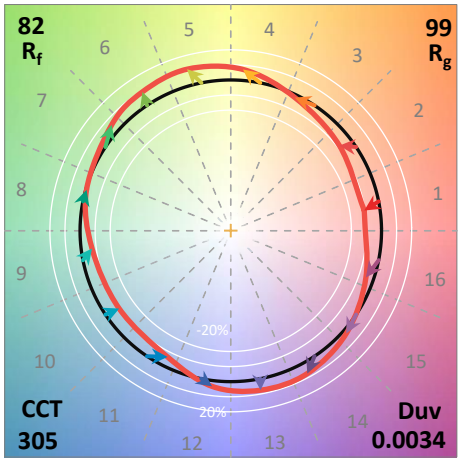
Spectral Power Distribution Comparison

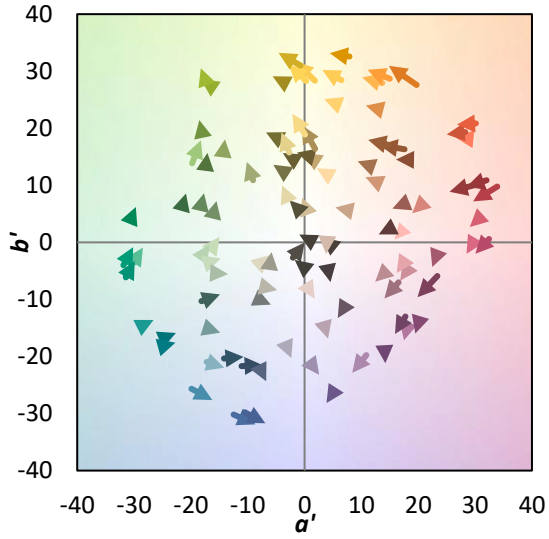


Color Vector Graphics









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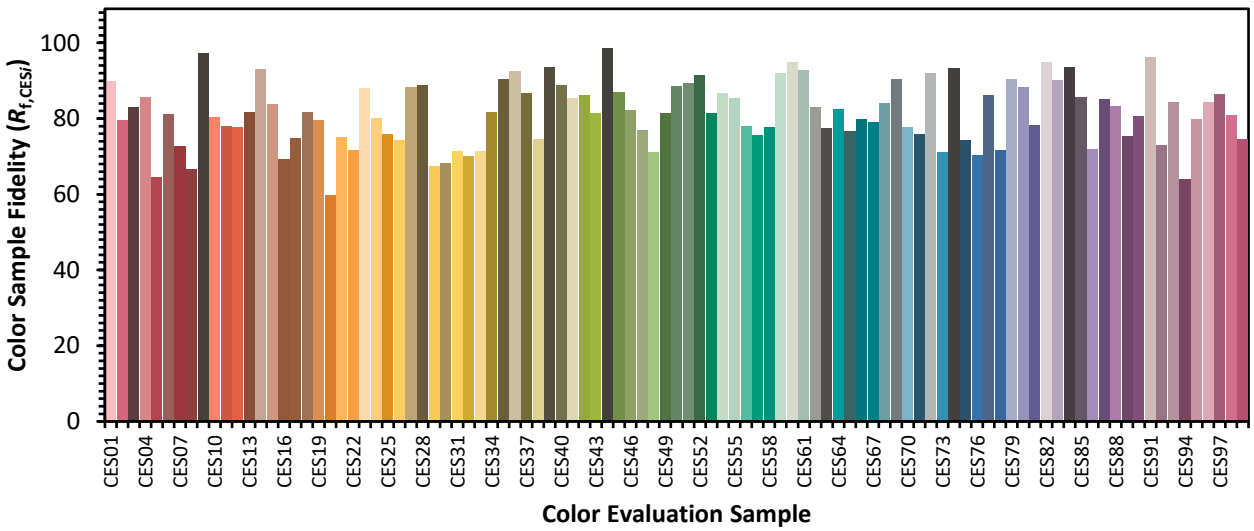
Individual Sample Fidelity Index ($R_{f,i}$)

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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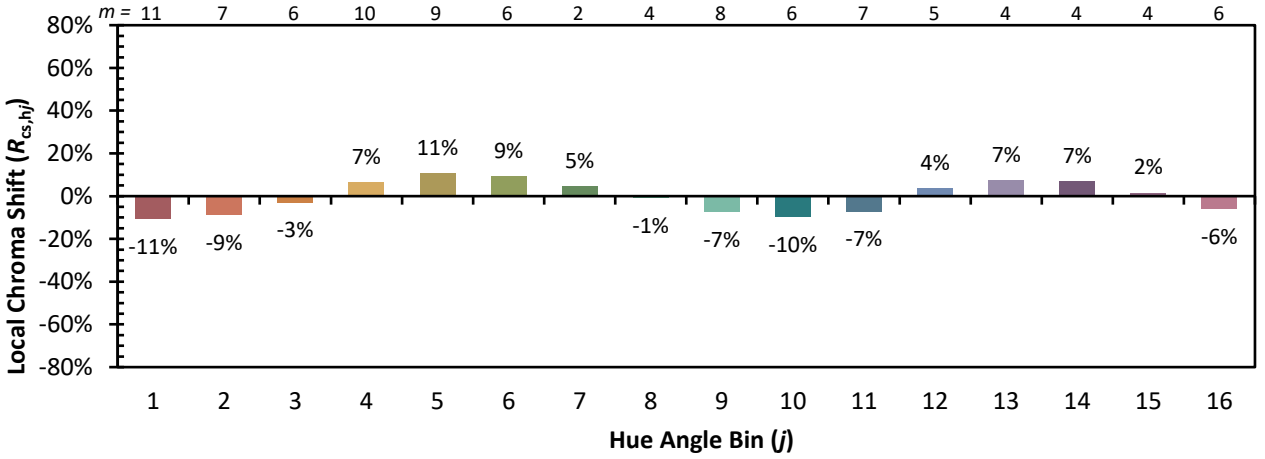
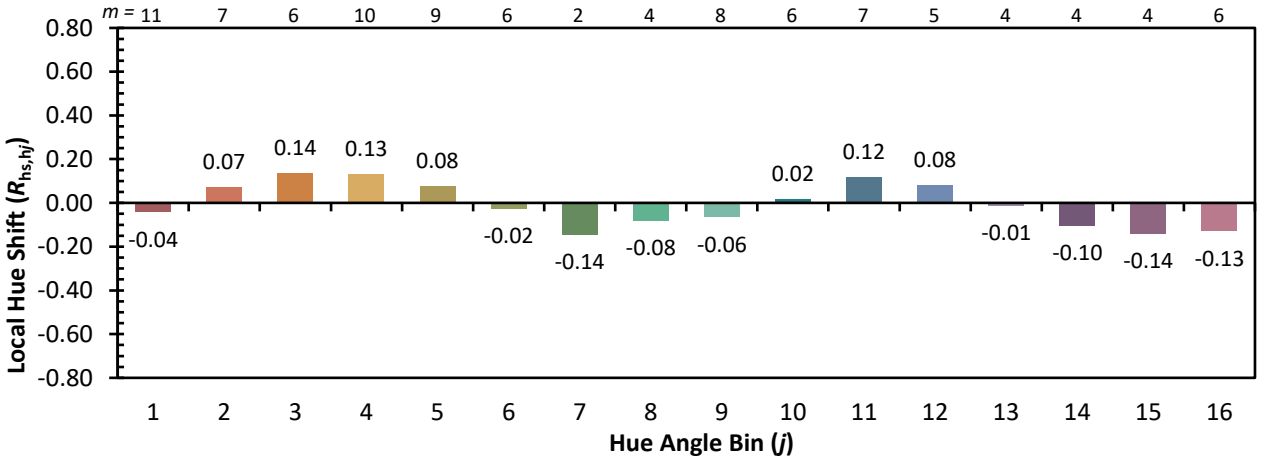
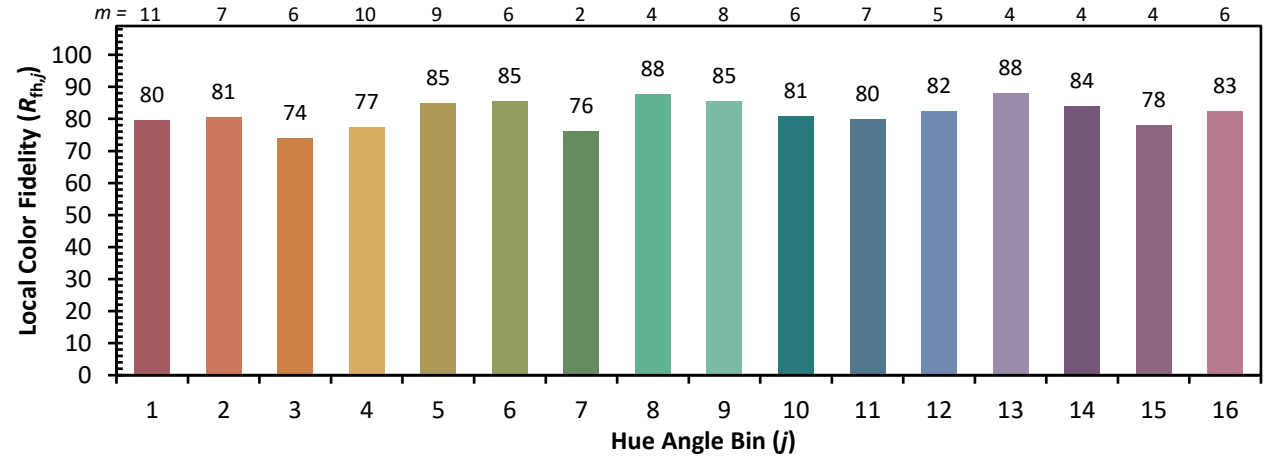
Color Rendition by Hue-Angle Bin







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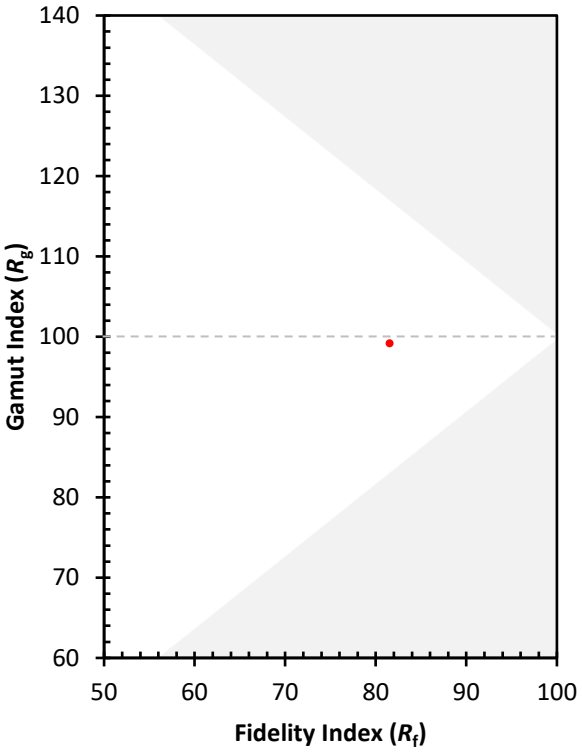
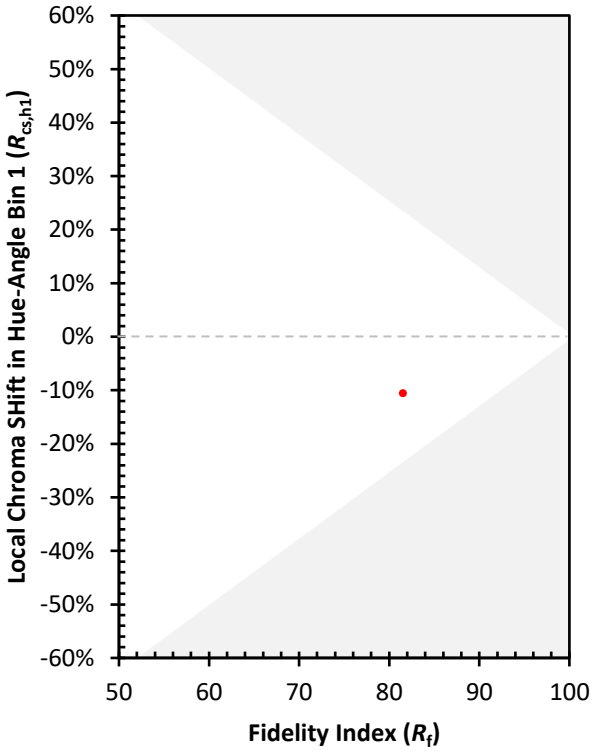
Measure Comparisons





(END OF REPORT)