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: P631540

Luminaire Tested: GWS-SA1F-830-U-SL2-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:	P631540
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1F-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5700.2 lumens
Efficiency:	N/A
Efficacy:	84.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	67.2
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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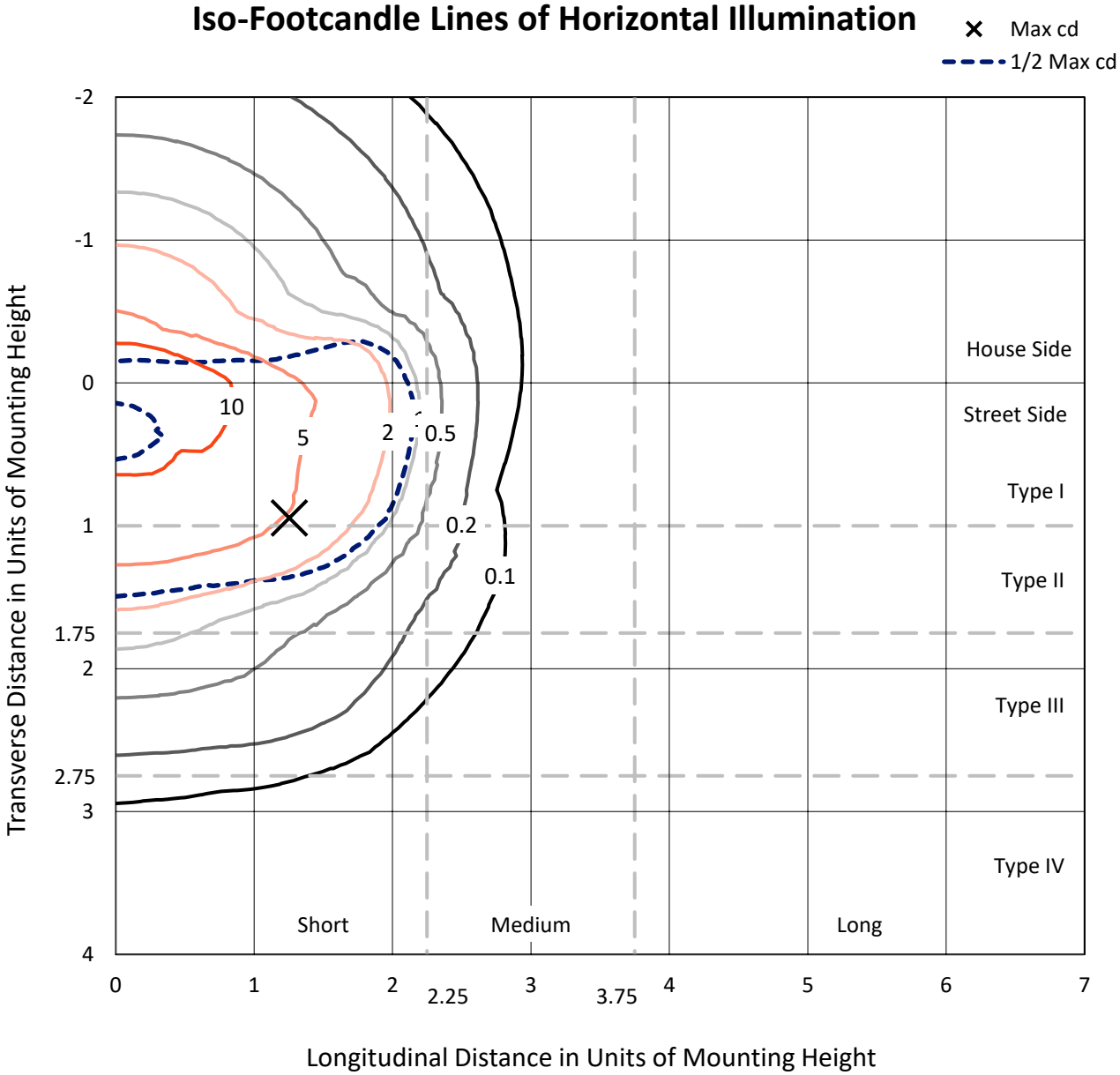
Scaled Data Report

REPORT NUMBER: P631540
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
Type II - Short - N/A

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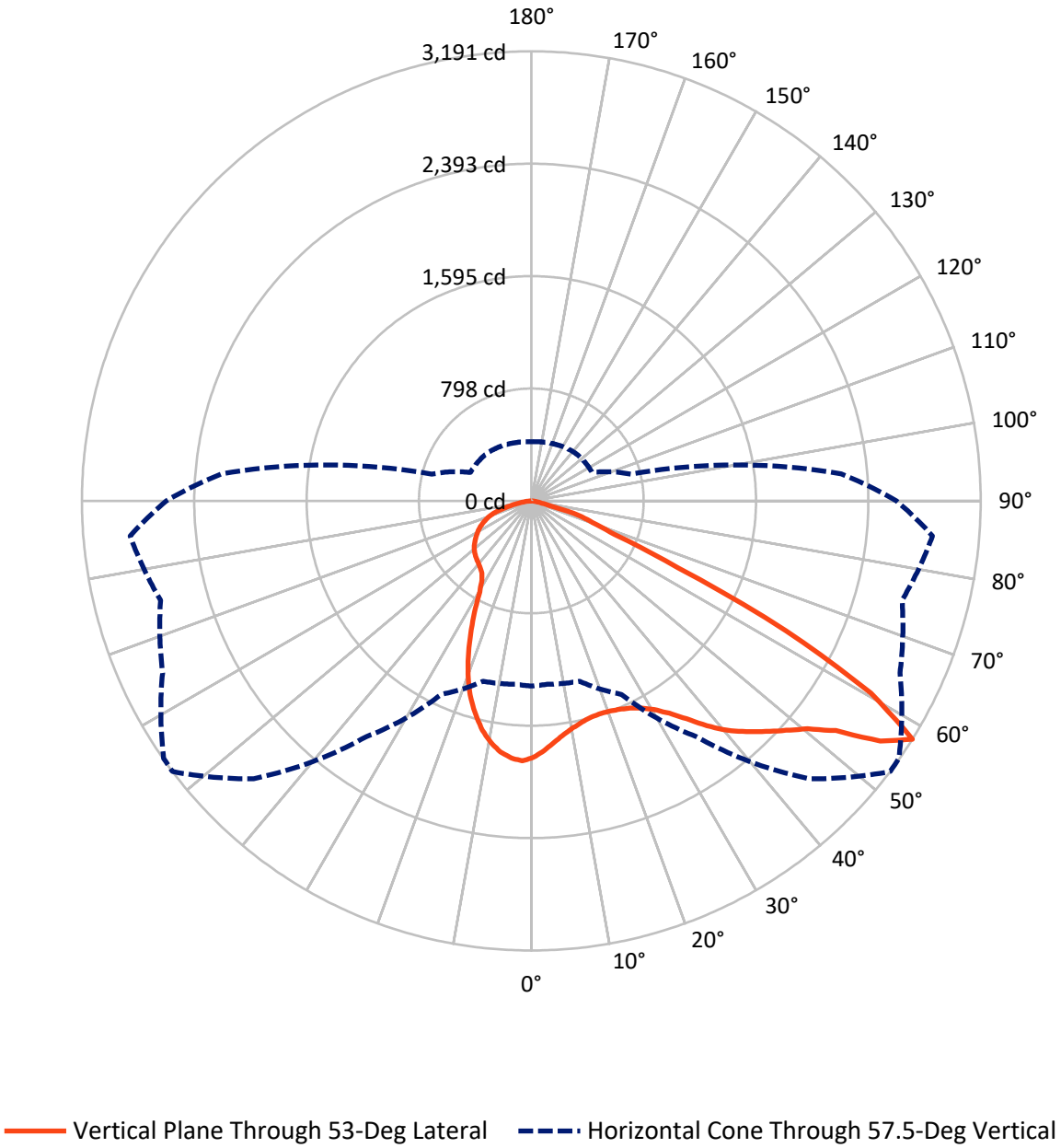
Luminous Intensity Polar Plot



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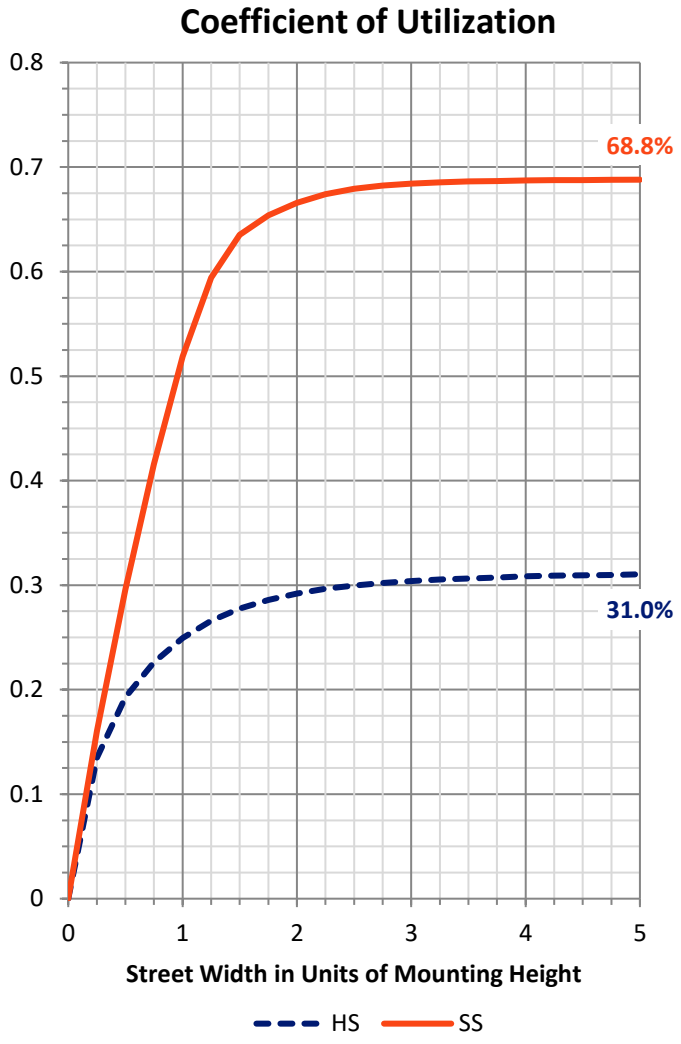
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.2	0.0	1782.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	3917.9	0.0	3917.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	5700.2	0.0	5700.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	2.9
10°-20°	431.8	7.6
20°-30°	636.3	11.2
30°-40°	890.6	15.6
40°-50°	1170.7	20.5
50°-60°	1372.7	24.1
60°-70°	808.7	14.2
70°-80°	201.2	3.5
80°-90°	23.6	0.4
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°	5700.2	100.0
0°-180°	5700.2	100.0



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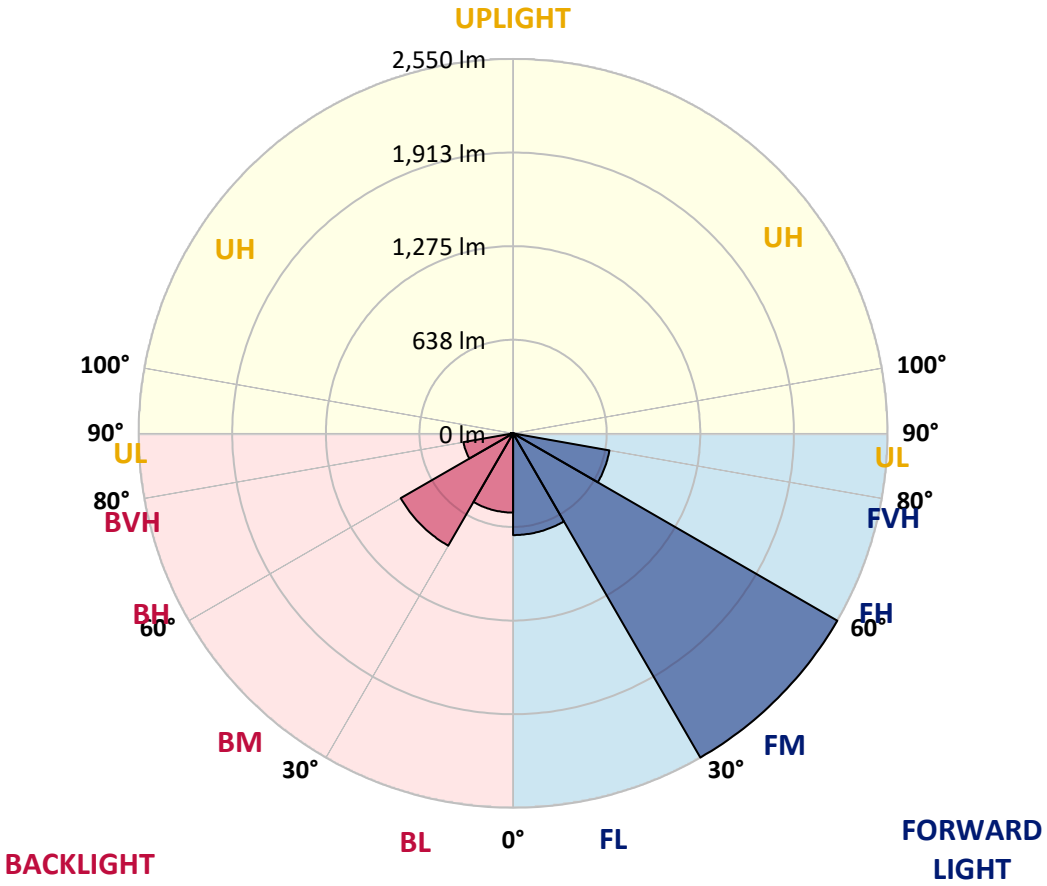
REPORT NUMBER: P631540
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	693.0	12.2			
FM	(30°-60°)	2550.3	44.7			
FH	(60°-80°)	666.7	11.7			G1/1800
FVH	(80°-90°)	7.9	0.1			G0/10
BL	(0°-30°)	539.7	9.5	B2/1000		
BM	(30°-60°)	883.7	15.5	B1/1000		
BH	(60°-80°)	343.1	6.0	B1/500		G1/500
BVH	(80°-90°)	15.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P631540
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1715.6	1720.4	1721.4	1736.3	1737.2	1758.8	1773.2	1770.3	1785.2	1803.4	1817.8
5°	1633.6	1634.1	1638.9	1656.6	1666.2	1694.5	1718.5	1718.5	1747.3	1784.7	1816.9
7.5°	1566.0	1565.5	1569.8	1589.5	1605.3	1639.4	1672.0	1675.8	1716.1	1770.8	1823.1
10°	1503.1	1506.5	1511.3	1535.2	1555.4	1597.6	1636.5	1642.7	1693.6	1761.2	1831.7
12.5°	1462.8	1463.3	1470.5	1497.3	1523.3	1568.4	1609.1	1616.8	1675.3	1752.1	1838.0
15°	1436.9	1437.4	1445.1	1474.8	1505.0	1550.6	1592.3	1601.0	1664.8	1750.7	1850.0
17.5°	1425.4	1424.9	1432.1	1461.8	1494.9	1542.4	1587.1	1597.6	1669.6	1761.7	1871.1
20°	1425.4	1425.9	1429.7	1456.6	1490.1	1540.5	1592.3	1605.3	1688.3	1786.6	1903.7
22.5°	1445.5	1447.5	1449.4	1467.6	1494.0	1543.4	1606.3	1623.5	1728.6	1828.4	1946.4
25°	1484.9	1485.4	1487.3	1502.1	1514.1	1551.6	1629.3	1655.2	1791.4	1889.3	2000.1
27.5°	1537.6	1544.4	1546.3	1555.9	1555.9	1571.7	1665.3	1702.7	1876.4	1977.1	2068.7
30°	1611.5	1613.9	1617.3	1627.8	1616.3	1609.6	1718.0	1766.0	1974.7	2083.1	2151.3
32.5°	1676.3	1681.6	1699.8	1717.1	1696.4	1675.3	1795.8	1852.4	2069.2	2193.5	2239.1
35°	1731.5	1744.4	1779.4	1817.8	1803.4	1782.3	1898.9	1957.9	2146.9	2272.6	2316.8
37.5°	1798.2	1808.2	1856.2	1918.6	1931.5	1921.5	2024.6	2066.8	2198.8	2292.8	2359.0
40°	1865.8	1881.2	1943.0	2029.4	2078.8	2086.0	2140.7	2169.0	2216.5	2253.5	2350.8
42.5°	1934.9	1961.3	2046.2	2146.9	2234.7	2251.1	2238.6	2250.6	2210.8	2199.2	2312.9
45°	2019.3	2050.5	2146.5	2275.0	2390.7	2416.1	2334.5	2323.5	2209.8	2178.6	2289.4
47.5°	2119.1	2150.3	2241.9	2391.6	2539.4	2558.1	2432.9	2412.7	2243.4	2210.3	2321.1
50°	2207.4	2229.0	2311.0	2478.5	2678.0	2689.1	2541.3	2516.8	2326.9	2298.1	2419.9
52.5°	2117.7	2115.3	2201.6	2407.9	2750.0	2882.9	2708.3	2684.8	2488.1	2443.9	2573.0
55°	1796.7	1769.4	1846.6	2049.6	2549.0	3055.1	3007.6	2960.6	2703.0	2590.7	2716.4
57.5°	1313.6	1305.9	1324.6	1515.1	2041.9	2788.4	3190.9	3186.6	2888.7	2725.1	2859.4
60°	1027.2	1015.7	965.8	971.0	1391.8	2178.1	2769.2	2896.3	3003.8	2805.7	2959.2
62.5°	912.0	903.4	877.5	806.0	829.0	1460.4	2029.9	2146.5	2624.8	2478.0	2541.8
65°	755.1	752.8	774.3	771.5	694.7	806.5	1145.7	1263.2	1650.4	1671.0	1650.4
67.5°	548.9	544.5	599.2	707.2	668.8	608.8	638.6	679.3	846.3	759.9	684.1
70°	356.9	350.7	382.4	510.9	598.7	530.6	460.1	453.4	465.4	289.3	312.8
72.5°	239.4	232.2	231.7	281.1	361.7	357.4	356.5	353.1	315.2	228.4	253.3
75°	133.4	127.6	126.2	121.4	129.5	131.9	140.6	145.4	157.4	173.2	191.9
77.5°	22.5	22.1	27.8	35.5	48.9	62.8	77.7	82.0	101.2	119.9	131.9
80°	12.5	13.0	16.8	20.6	27.3	37.4	48.0	50.9	62.4	72.4	82.0
82.5°	6.7	6.7	8.6	11.0	14.9	19.7	25.9	28.3	36.0	42.2	48.9
85°	2.4	2.4	3.4	4.3	6.2	8.2	10.1	11.5	15.8	21.6	24.5
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.9	1.9	2.4	4.3	6.2
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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REPORT NUMBER: P631540
CATALOG NUMBER: GWS-SA1F-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1829.8	1816.9	1834.6	1842.8	1845.7	1847.6	1835.1	1826.5	1823.6	1814.5	1809.2
5°	1836.5	1827.9	1844.7	1844.7	1832.7	1820.2	1794.8	1777.0	1764.6	1749.7	1747.3
7.5°	1848.1	1841.8	1850.9	1832.2	1802.0	1768.4	1724.3	1689.7	1661.9	1643.7	1644.2
10°	1863.4	1855.7	1848.5	1806.8	1751.6	1689.7	1622.1	1571.7	1525.7	1504.5	1493.0
12.5°	1873.5	1862.4	1832.2	1763.1	1682.1	1599.1	1503.6	1428.7	1362.1	1331.8	1329.4
15°	1886.0	1865.8	1805.4	1706.5	1593.8	1480.6	1357.7	1253.6	1163.4	1116.4	1114.0
17.5°	1902.3	1869.2	1773.2	1641.8	1500.7	1333.7	1179.3	1048.3	952.3	915.9	922.1
20°	1925.3	1873.0	1736.7	1569.8	1385.1	1166.8	974.4	854.0	817.0	814.6	809.8
22.5°	1951.2	1875.4	1696.4	1489.2	1245.0	988.8	805.0	753.7	753.2	765.2	768.1
25°	1980.5	1877.3	1650.9	1395.2	1093.4	811.3	712.0	696.6	708.6	731.2	734.0
27.5°	2017.9	1881.2	1595.7	1292.0	932.2	700.9	660.6	656.8	671.2	692.3	691.3
30°	2073.1	1895.1	1537.2	1173.5	766.7	648.6	629.5	629.9	635.7	645.8	647.2
32.5°	2129.2	1916.7	1480.1	1040.1	671.7	618.9	610.3	609.3	609.3	613.6	614.6
35°	2182.5	1941.1	1418.2	901.0	625.6	601.6	595.9	593.0	591.6	590.6	589.2
37.5°	2212.2	1953.1	1357.7	763.8	601.1	590.1	584.4	580.5	575.2	571.4	570.4
40°	2199.2	1939.2	1287.7	661.1	586.3	579.1	572.4	567.1	559.9	556.5	554.6
42.5°	2156.1	1896.0	1211.4	612.7	574.3	567.1	558.9	550.3	545.5	542.6	542.1
45°	2110.5	1843.7	1119.3	584.4	562.8	554.1	544.5	534.9	529.7	528.2	527.7
47.5°	2109.0	1817.8	1021.4	561.8	548.9	540.2	528.2	518.6	512.9	510.9	509.0
50°	2172.4	1844.2	911.1	542.1	534.5	525.3	511.9	501.4	494.2	491.8	491.3
52.5°	2303.8	1943.5	812.2	522.5	515.3	504.7	493.7	483.1	474.5	470.2	469.7
55°	2445.8	2069.7	750.8	502.3	492.7	483.6	473.5	462.0	452.4	445.7	444.7
57.5°	*2592.6*	*2207.4*	*732.1*	*476.9*	*469.7*	*463.5*	*451.5*	*439.0*	*428.0*	*421.7*	*420.3*
60°	2713.6	2325.9	767.1	450.0	446.2	438.0	427.0	415.0	407.3	402.5	401.6
62.5°	2271.7	1893.6	619.4	420.8	420.8	412.1	399.6	391.0	385.7	382.4	381.4
65°	1441.7	1172.5	422.7	391.5	391.0	379.5	368.9	363.2	360.8	355.5	354.5
67.5°	628.0	535.9	361.3	361.7	359.8	347.3	336.8	332.5	327.7	321.9	321.4
70°	325.8	332.0	323.4	328.6	325.3	310.4	300.3	293.6	283.5	277.8	278.3
72.5°	262.9	269.6	279.2	287.4	280.2	268.2	252.4	244.2	231.2	225.0	225.5
75°	200.5	207.7	216.9	225.5	219.7	204.9	194.8	186.6	171.8	164.6	166.0
77.5°	138.2	142.0	153.0	152.6	150.6	146.3	131.5	121.9	106.5	97.9	98.8
80°	85.9	88.3	93.6	96.0	95.0	89.2	77.2	70.0	60.9	55.7	56.1
82.5°	51.8	53.3	58.1	58.5	58.1	53.7	44.6	39.3	33.6	30.7	30.7
85°	26.4	27.3	30.2	30.2	27.3	23.0	20.6	18.2	14.9	13.4	13.4
87.5°	7.2	7.2	9.1	7.7	6.2	5.8	2.9	2.4	1.0	0.5	0.5
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

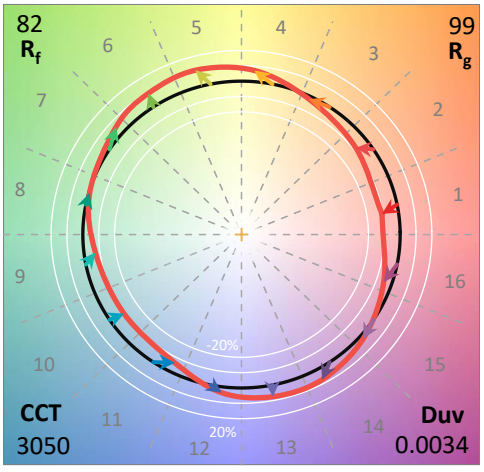
Test Information

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

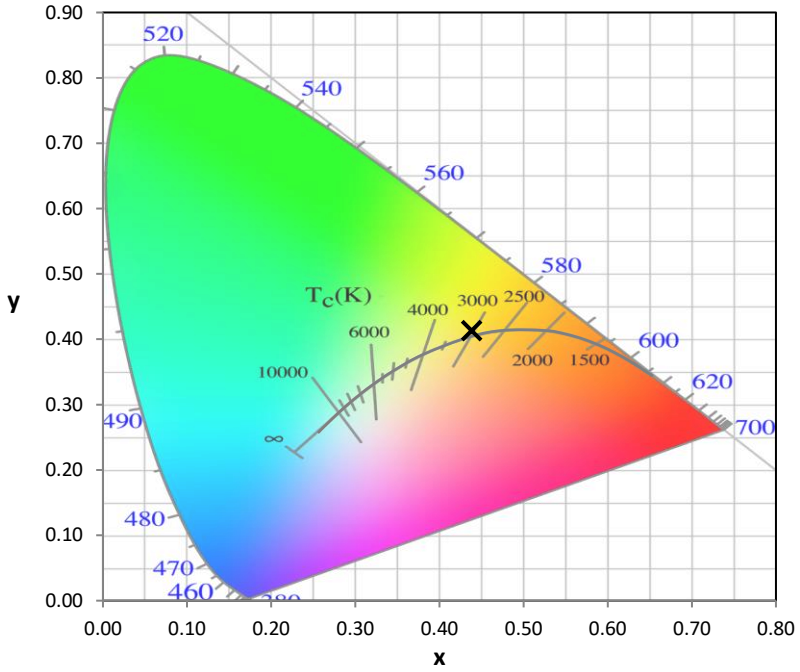
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

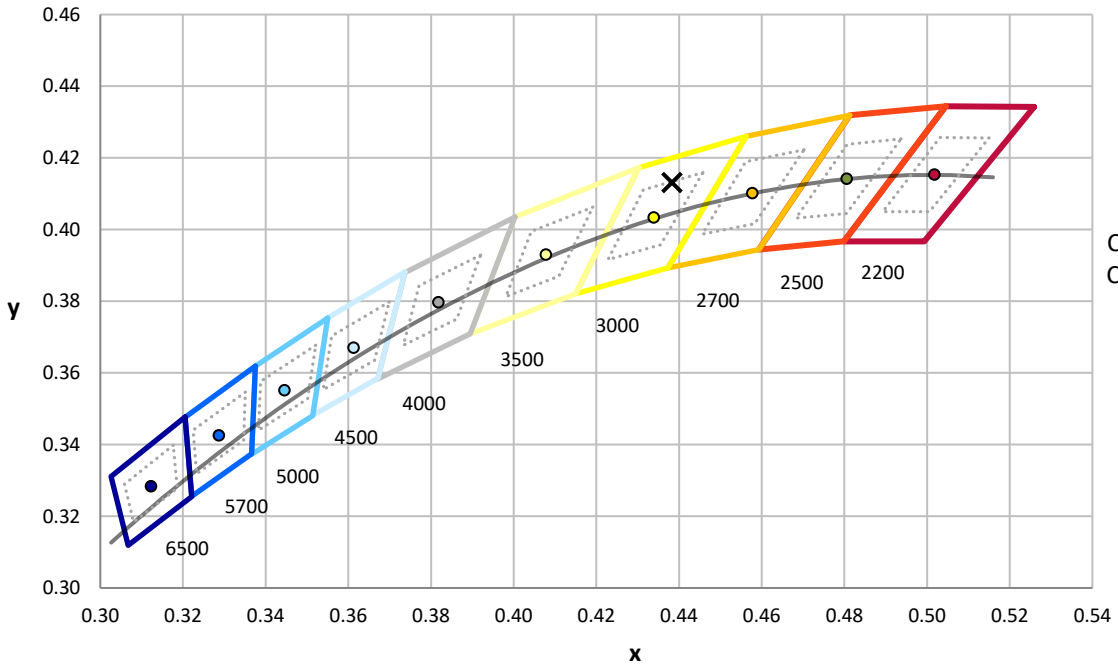
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

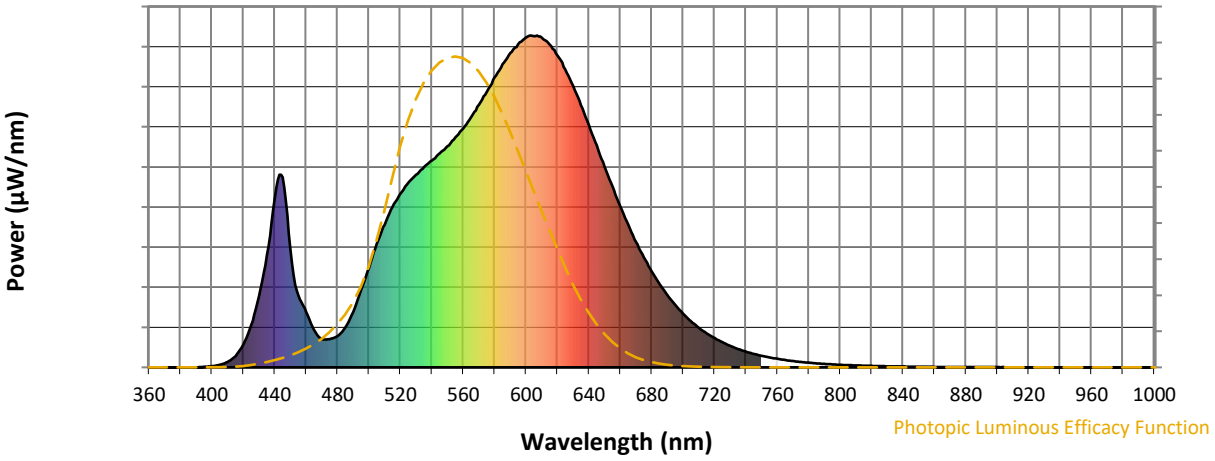


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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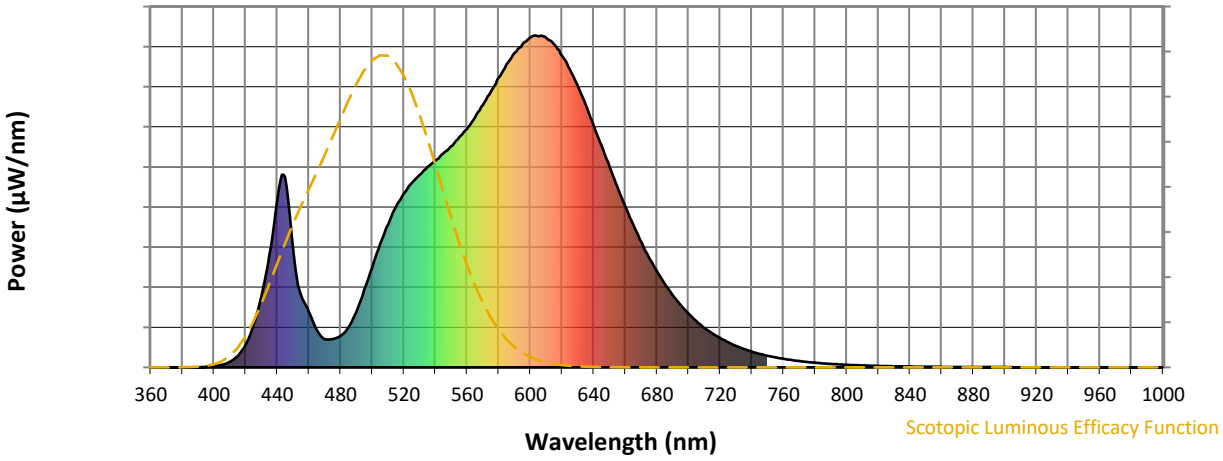
Scotopic Flux vs. Wavelength



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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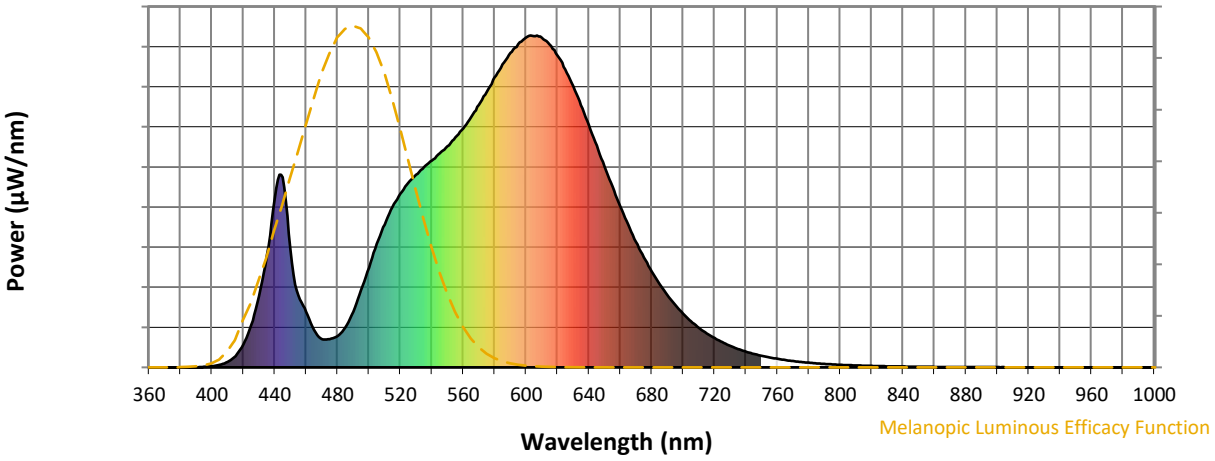
Melanopic Flux vs. Wavelength



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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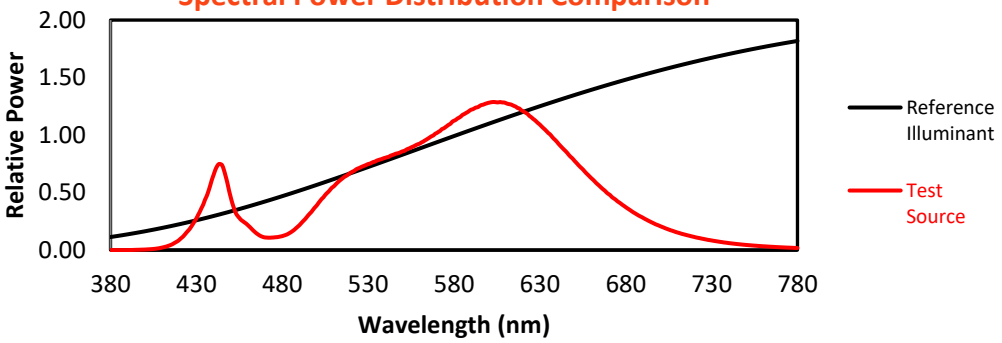
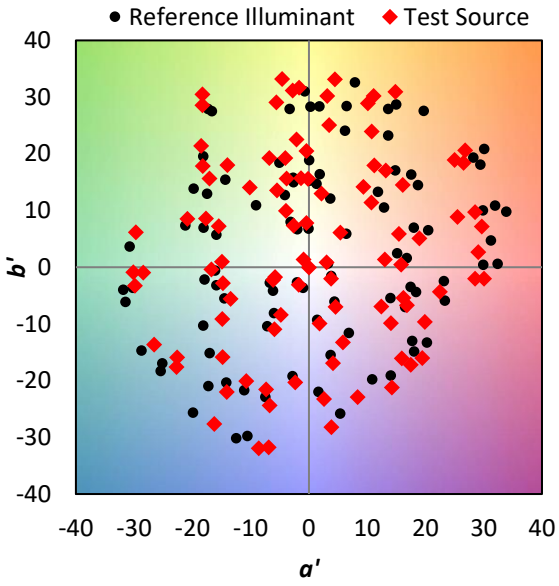
Summary

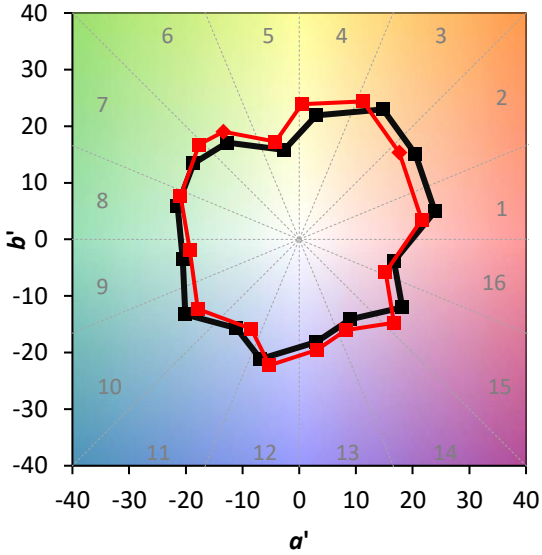
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

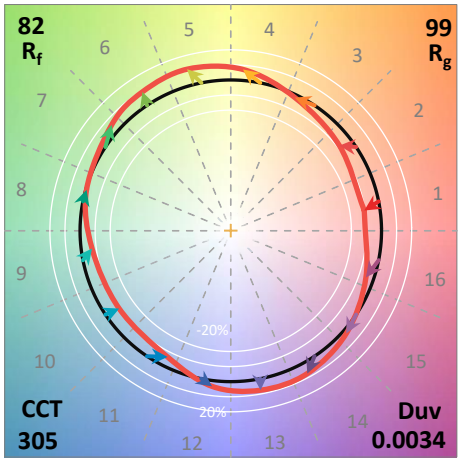
Spectral Power Distribution Comparison

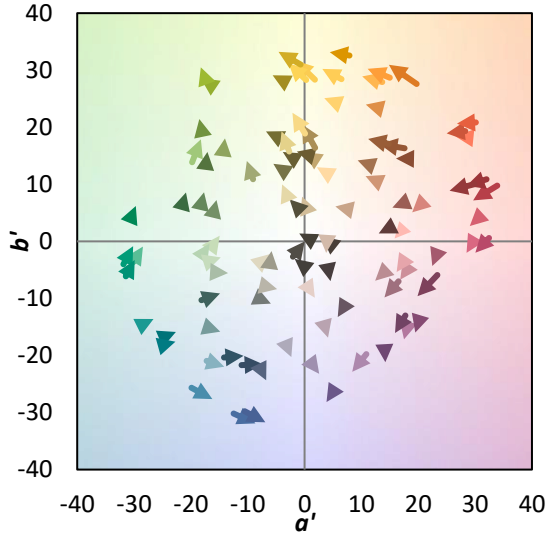


Color Vector Graphics









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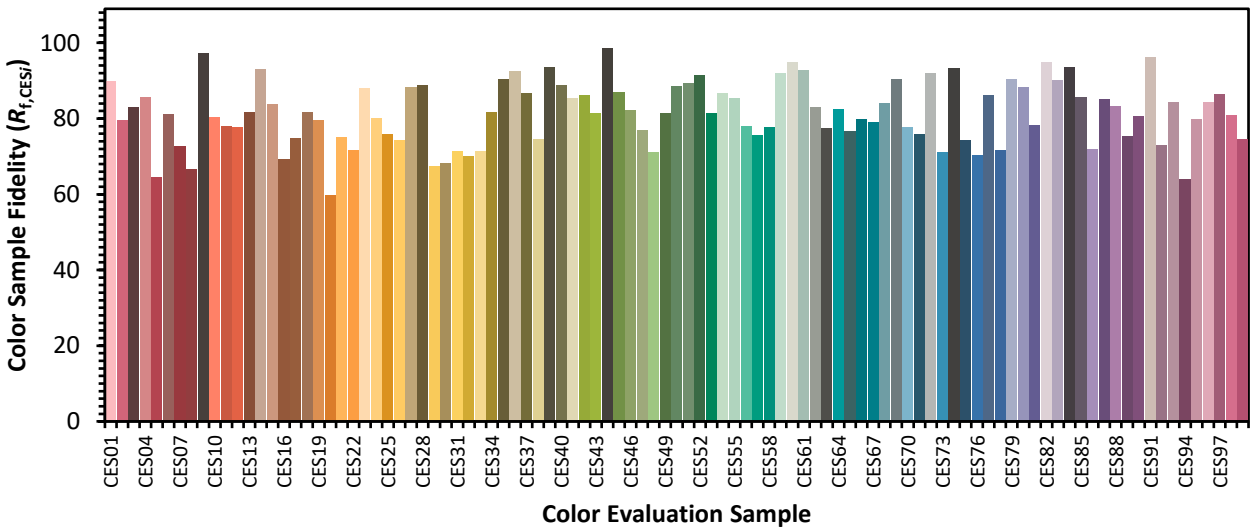
Individual Sample Fidelity Index ($R_{f,i}$)

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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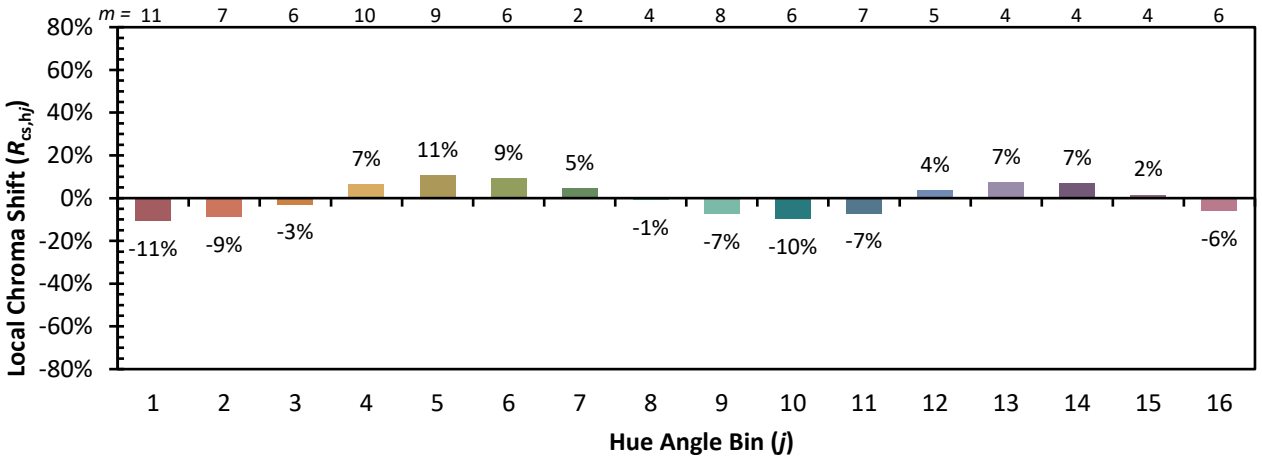
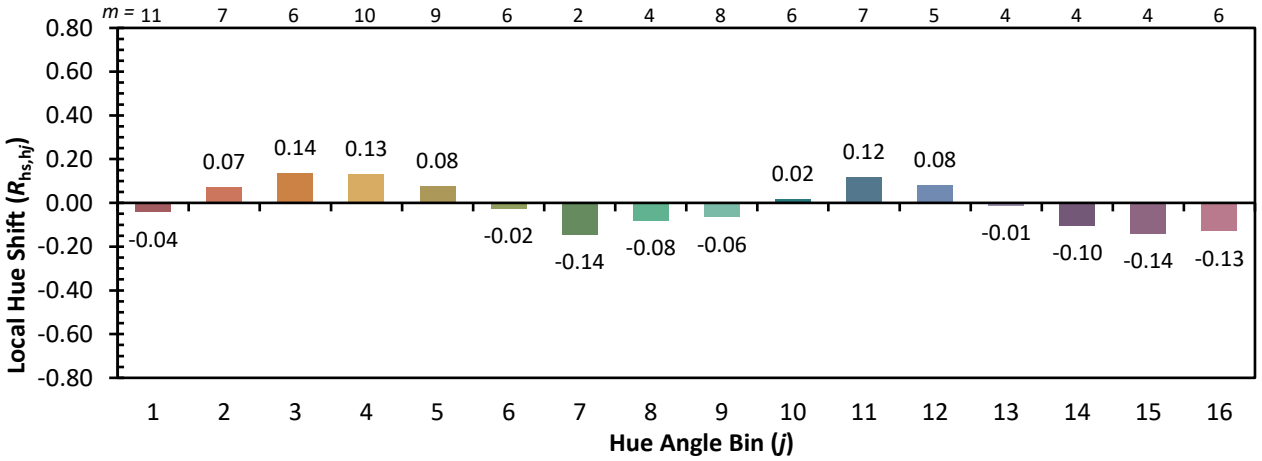
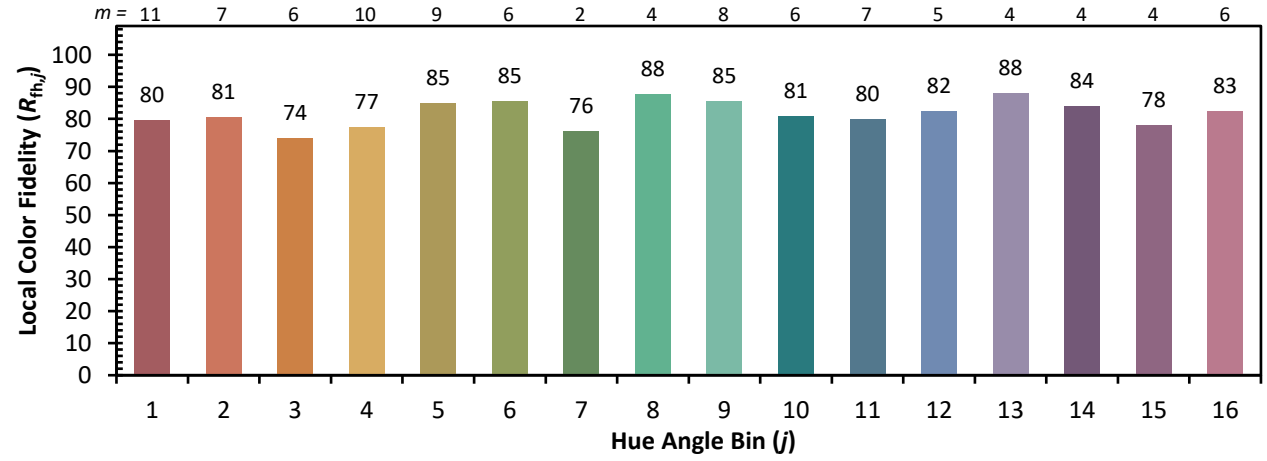
Color Rendition by Hue-Angle Bin







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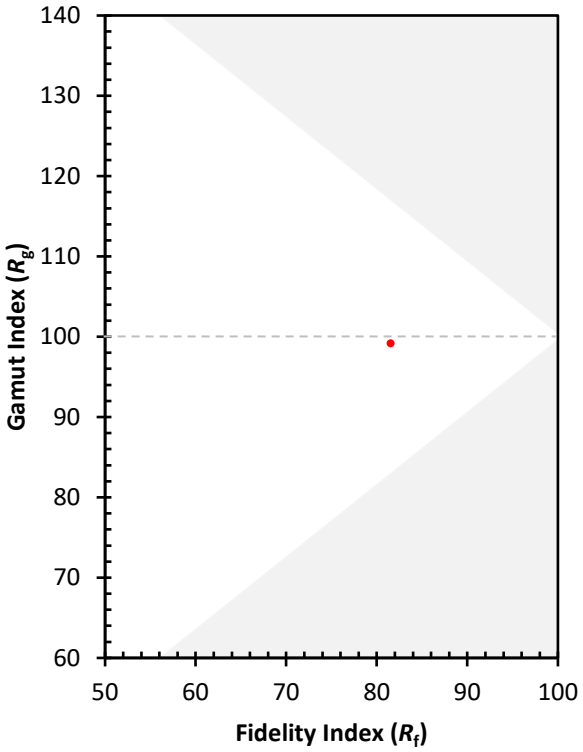
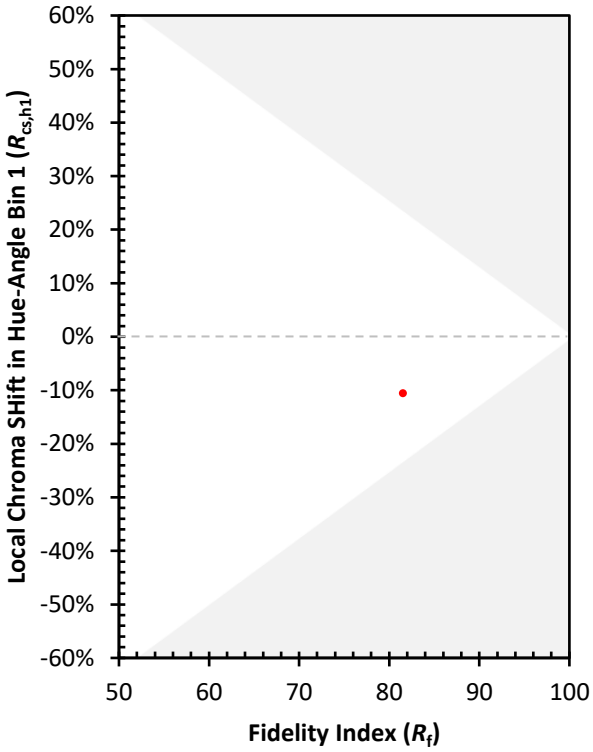
Measure Comparisons





(END OF REPORT)