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: P635032

Luminaire Tested: GWS-SA3C-830-U-T3-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:	P635032
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9458 lumens
Efficiency:	N/A
Efficacy:	101.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	93
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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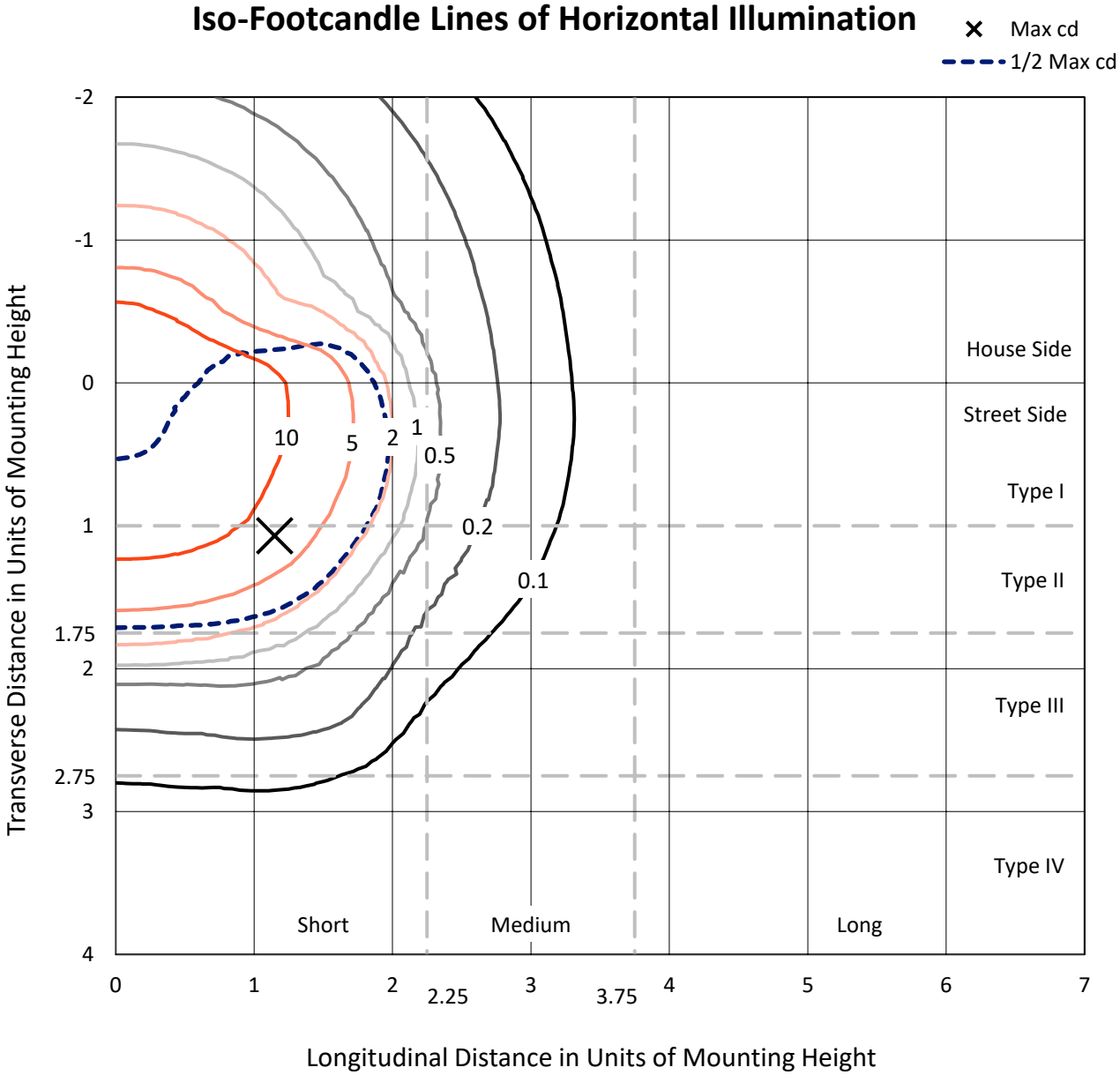
Scaled Data Report

REPORT NUMBER: P635032
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
Type II - Short - N/A

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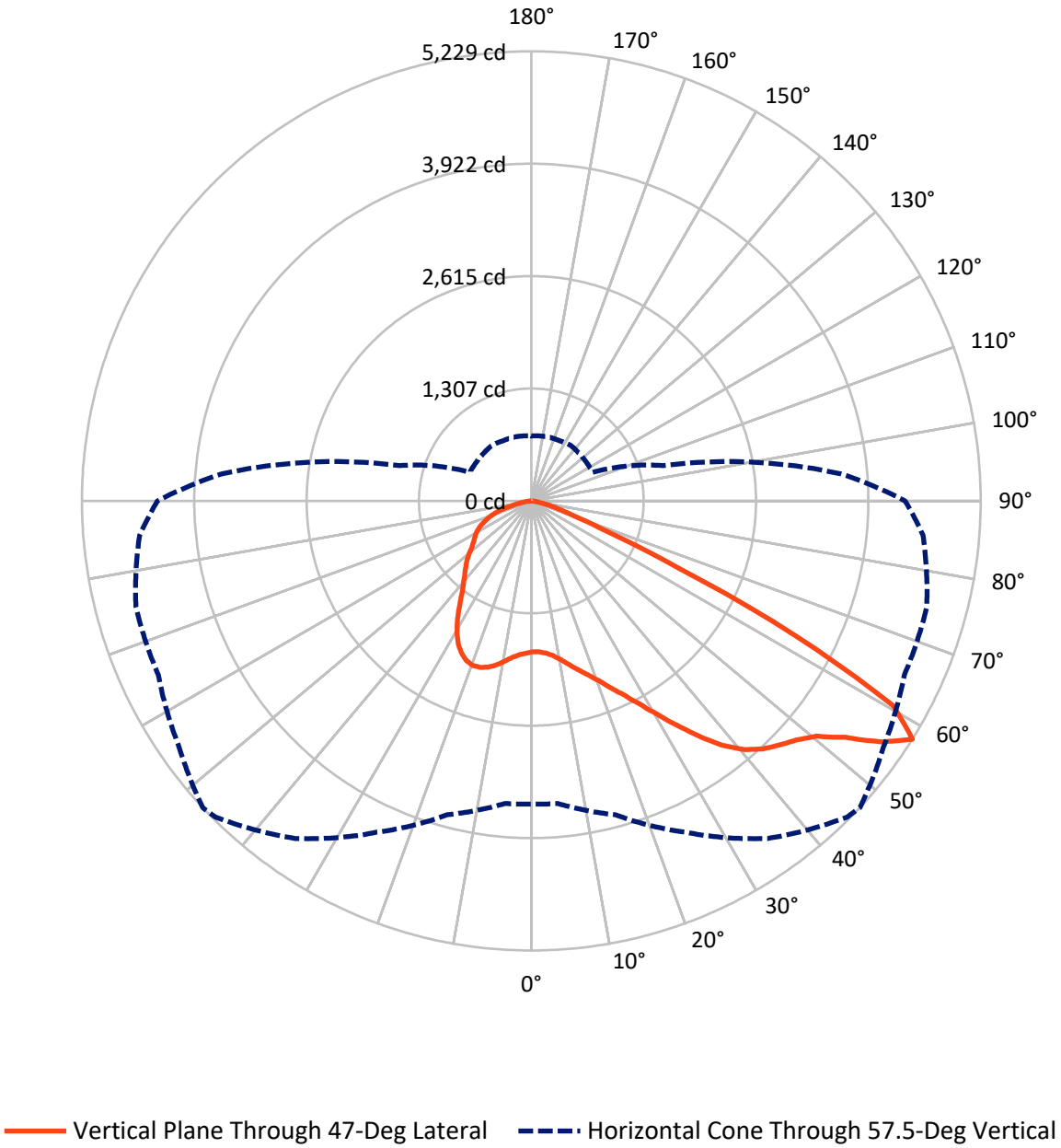
Luminous Intensity Polar Plot



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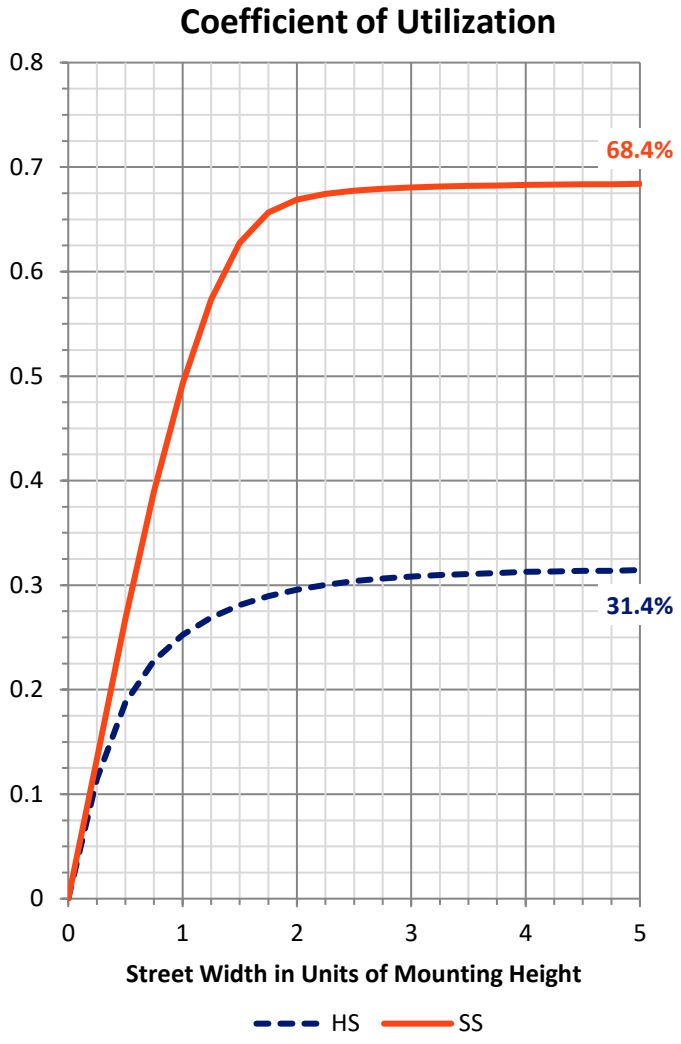
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2993.4	0.0	2993.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6464.6	0.0	6464.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	9458.0	0.0	9458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	1.8
10°-20°	569.0	6.0
20°-30°	1024.6	10.8
30°-40°	1547.5	16.4
40°-50°	2083.9	22.0
50°-60°	2504.0	26.5
60°-70°	1219.5	12.9
70°-80°	300.4	3.2
80°-90°	36.1	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°	9458.0	100.0
0°-180°	9458.0	100.0



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REPORT NUMBER: P635032
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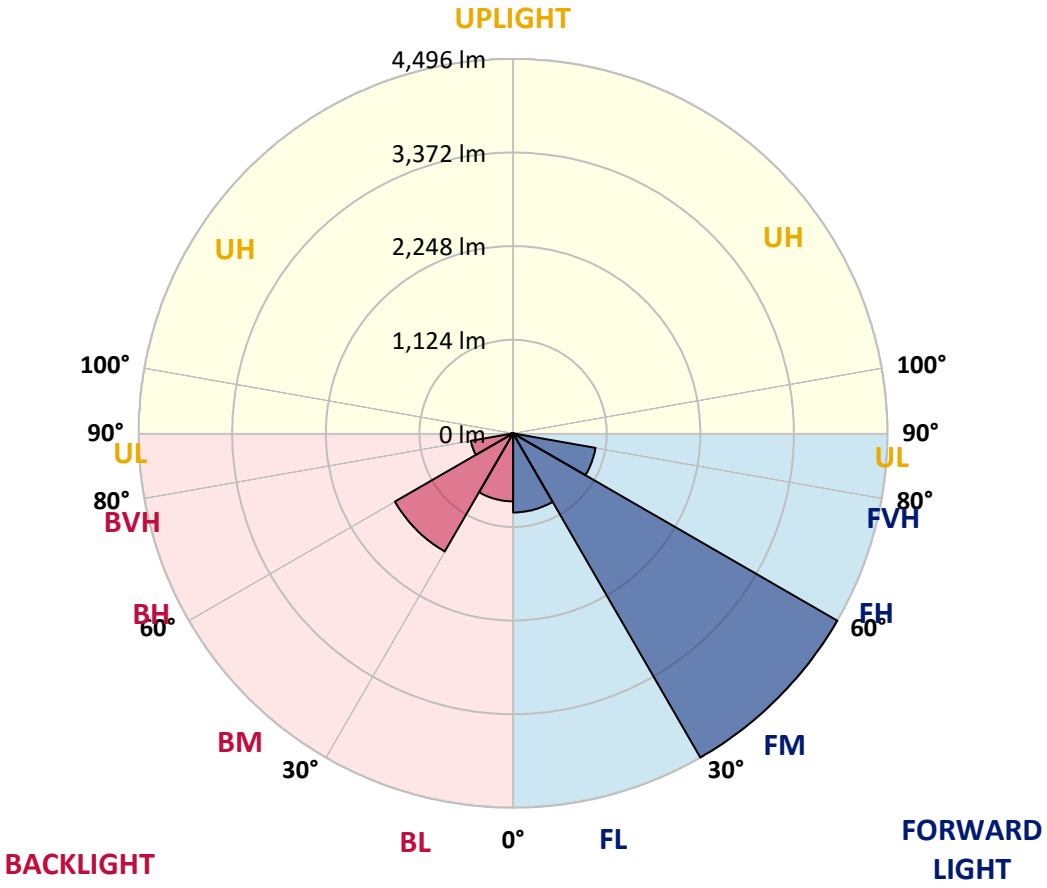
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	950.0	10.0			
FM	(30°-60°)	4495.9	47.5			
FH	(60°-80°)	1005.1	10.6			G1/1800
FVH	(80°-90°)	13.6	0.1			G1/100
BL	(0°-30°)	816.6	8.6	B2/1000		
BM	(30°-60°)	1639.5	17.3	B2/2500		
BH	(60°-80°)	514.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	22.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P635032
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0
2.5°	1750.8	1750.0	1750.0	1754.8	1754.8	1756.4	1758.8	1761.1	1761.9	1758.0	1749.2
5°	1769.9	1769.9	1769.9	1773.9	1773.9	1775.4	1778.6	1779.4	1778.6	1772.3	1763.5
7.5°	1800.1	1800.1	1800.9	1805.6	1809.6	1812.0	1817.6	1816.8	1814.4	1804.0	1792.9
10°	1849.3	1851.7	1854.1	1859.7	1867.6	1873.2	1877.1	1877.1	1874.0	1858.1	1843.8
12.5°	1919.2	1922.4	1924.8	1929.6	1935.9	1945.4	1954.2	1954.2	1950.2	1930.4	1908.9
15°	2001.1	2004.2	2003.4	2005.0	2016.9	2030.4	2037.6	2042.4	2043.9	2016.1	1982.8
17.5°	2094.8	2098.0	2094.8	2090.0	2091.6	2113.1	2125.8	2143.2	2153.6	2116.2	2063.0
20°	2179.8	2176.6	2176.6	2179.8	2184.6	2210.8	2229.8	2258.4	2271.1	2225.9	2143.2
22.5°	2269.6	2276.7	2273.5	2273.5	2292.6	2336.3	2359.3	2396.7	2410.2	2351.4	2240.2
25°	2385.5	2391.9	2390.3	2391.9	2414.1	2476.1	2499.1	2568.2	2581.7	2497.5	2347.4
27.5°	2512.6	2523.0	2527.7	2526.1	2561.9	2642.9	2671.5	2767.6	2792.3	2661.2	2461.8
30°	2677.9	2689.0	2693.0	2691.4	2733.5	2843.9	2876.5	2986.1	3021.0	2855.0	2607.2
32.5°	2869.3	2880.4	2892.4	2897.1	2951.1	3063.9	3110.8	3224.4	3274.5	3079.0	2782.7
35°	3059.2	3068.7	3091.7	3129.1	3203.0	3318.1	3359.4	3471.5	3519.9	3311.8	2994.8
37.5°	3268.9	3275.2	3295.1	3346.7	3453.2	3562.8	3604.1	3711.4	3716.9	3536.6	3234.7
40°	3498.5	3498.5	3494.5	3545.3	3656.5	3767.0	3802.7	3864.7	3832.1	3709.8	3468.3
42.5°	3693.1	3689.9	3693.1	3740.8	3823.4	3913.1	3944.1	3932.2	3890.9	3842.4	3679.6
45°	3868.6	3871.0	3899.6	3936.2	3979.1	4032.3	4050.6	3983.0	3945.7	3948.9	3848.8
47.5°	3987.8	3990.2	4056.9	4118.1	4144.3	4161.0	4153.0	4059.3	4040.2	4076.0	3979.1
50°	4003.7	4016.4	4131.6	4257.1	4322.2	4324.6	4302.4	4188.0	4182.4	4222.9	4049.0
52.5°	4006.9	4019.6	4163.4	4389.8	4559.0	4594.7	4569.3	4450.1	4392.1	4351.6	4134.8
55°	3995.0	4009.3	4168.1	4478.7	4802.8	4945.8	4948.2	4779.8	4594.7	4567.7	4379.4
57.5°	3527.1	3532.6	3778.9	4252.3	4793.3	5198.4	5229.4	5000.6	4789.3	4763.9	4575.7
60°	2457.0	2479.3	2747.0	3372.2	4026.7	4740.9	4841.0	4774.2	4632.8	4447.8	3925.8
62.5°	1230.5	1249.6	1518.1	2109.1	2777.2	3341.2	3448.4	3519.1	3552.5	3353.9	2673.1
65°	529.9	544.2	711.0	1101.8	1572.1	1844.6	1881.9	1966.9	2175.0	1940.7	1440.2
67.5°	354.3	363.8	448.8	672.0	926.3	943.7	938.2	956.4	1001.7	827.0	650.6
70°	271.7	279.6	336.8	492.5	665.7	569.6	539.4	489.3	531.4	541.8	527.5
72.5°	197.0	203.4	246.3	336.0	417.1	363.8	359.1	384.5	441.7	457.6	448.8
75°	127.1	130.3	156.5	184.3	215.3	233.5	243.1	289.2	347.1	359.1	348.7
77.5°	85.0	87.4	102.5	118.4	122.3	123.1	126.3	147.0	186.7	208.9	206.5
80°	44.5	44.5	50.0	50.0	57.2	68.3	71.5	85.0	103.3	114.4	115.2
82.5°	17.5	18.3	21.4	23.8	28.6	35.0	37.3	44.5	54.0	62.0	69.1
85°	7.1	7.9	8.7	10.3	12.7	15.9	16.7	19.1	25.4	31.8	35.7
87.5°	0.0	0.0	0.8	0.8	1.6	2.4	2.4	3.2	4.0	7.1	9.5
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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REPORT NUMBER: P635032
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0
2.5°	1759.6	1749.2	1759.6	1762.7	1771.5	1774.7	1769.1	1768.3	1768.3	1760.4	1758.0
5°	1771.5	1761.9	1772.3	1777.0	1789.7	1797.7	1799.3	1805.6	1809.6	1806.4	1805.6
7.5°	1800.9	1789.0	1800.1	1807.2	1823.9	1836.6	1842.2	1856.5	1866.8	1865.2	1864.4
10°	1852.5	1836.6	1849.3	1861.2	1879.5	1894.6	1895.4	1903.3	1913.7	1910.5	1908.9
12.5°	1912.1	1897.0	1911.3	1923.2	1944.7	1951.0	1940.7	1937.5	1939.1	1935.1	1931.9
15°	1985.2	1963.7	1976.4	1989.9	2001.8	1994.7	1972.5	1963.7	1962.9	1957.4	1954.2
17.5°	2058.2	2031.2	2040.8	2047.9	2042.4	2020.1	1992.3	1977.2	1970.1	1959.0	1955.8
20°	2130.5	2096.4	2094.8	2089.2	2063.8	2023.3	1986.0	1955.8	1937.5	1922.4	1916.8
22.5°	2213.2	2165.5	2141.7	2116.2	2060.6	1994.7	1938.3	1895.4	1866.0	1846.9	1840.6
25°	2302.1	2234.6	2185.4	2134.5	2028.9	1933.5	1854.9	1796.1	1761.1	1740.5	1733.3
27.5°	2390.3	2297.4	2223.5	2136.9	1965.3	1845.4	1739.7	1660.3	1625.3	1608.6	1603.1
30°	2509.5	2380.8	2268.8	2105.9	1881.9	1723.0	1591.2	1510.9	1487.9	1476.0	1471.2
32.5°	2646.9	2486.4	2329.1	2040.8	1775.4	1580.0	1441.0	1385.4	1369.5	1346.5	1345.7
35°	2828.0	2637.4	2386.3	1944.7	1641.2	1426.7	1325.8	1286.1	1257.5	1221.0	1217.8
37.5°	3039.3	2825.6	2417.3	1822.3	1484.7	1300.4	1240.0	1195.5	1149.5	1101.0	1094.7
40°	3257.8	3045.7	2419.7	1677.7	1331.4	1217.0	1166.2	1108.2	1051.0	997.0	989.8
42.5°	3487.3	3250.6	2377.6	1510.9	1205.9	1144.7	1093.1	1020.0	955.6	919.1	915.1
45°	3692.3	3415.9	2282.3	1335.4	1112.9	1084.3	1018.4	939.8	905.6	879.4	873.8
47.5°	3853.6	3525.5	2153.6	1178.1	1037.5	1022.4	936.6	896.1	869.9	846.0	840.5
50°	3933.0	3550.1	1986.0	1050.2	967.6	949.3	890.5	859.5	842.0	823.0	818.2
52.5°	4031.5	3577.9	1841.4	942.9	899.2	874.6	852.4	827.7	815.0	803.1	799.2
55°	4257.9	3682.8	1765.1	857.1	834.1	823.0	819.8	799.2	795.2	787.2	780.1
57.5°	*4350.0*	*3615.2*	*1584.8*	*787.2*	*782.5*	*784.1*	*792.0*	*772.9*	*769.0*	*759.4*	*754.7*
60°	3498.5	2732.7	1073.2	726.9	739.6	749.9	757.8	738.8	733.2	731.6	725.3
62.5°	2241.8	1680.9	749.1	670.5	689.5	702.2	707.0	688.7	684.8	697.5	698.3
65°	1167.0	915.9	607.7	610.1	626.0	645.0	654.6	648.2	646.6	660.1	660.9
67.5°	595.8	560.0	529.9	538.6	551.3	575.9	598.2	626.0	635.5	637.1	637.9
70°	507.6	491.7	476.6	482.2	495.7	509.2	530.6	544.2	528.3	524.3	522.7
72.5°	432.1	420.2	413.1	419.4	426.6	424.2	417.8	424.2	426.6	427.4	428.2
75°	336.0	327.3	321.7	322.5	322.5	313.8	301.9	294.7	286.8	280.4	280.4
77.5°	205.7	207.3	212.9	212.1	211.3	208.1	196.2	189.9	170.8	165.2	165.2
80°	117.6	120.0	125.5	127.1	127.1	123.1	111.2	104.1	95.3	91.4	90.6
82.5°	71.5	74.7	77.8	79.4	80.2	75.5	65.1	59.6	54.8	50.8	50.8
85°	37.3	38.9	42.1	42.9	40.5	35.7	30.2	27.8	23.0	22.2	22.2
87.5°	10.3	11.1	12.7	10.3	9.5	7.1	4.0	3.2	1.6	0.8	0.8
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

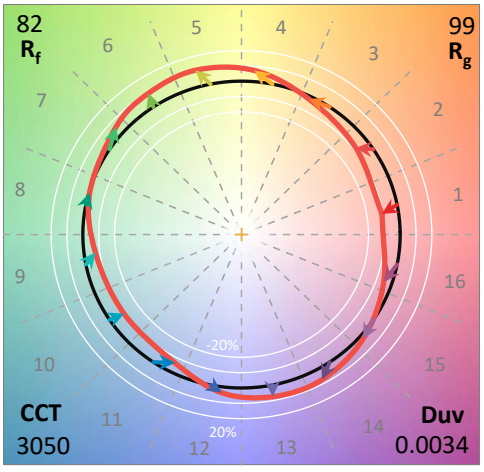
Test Information

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

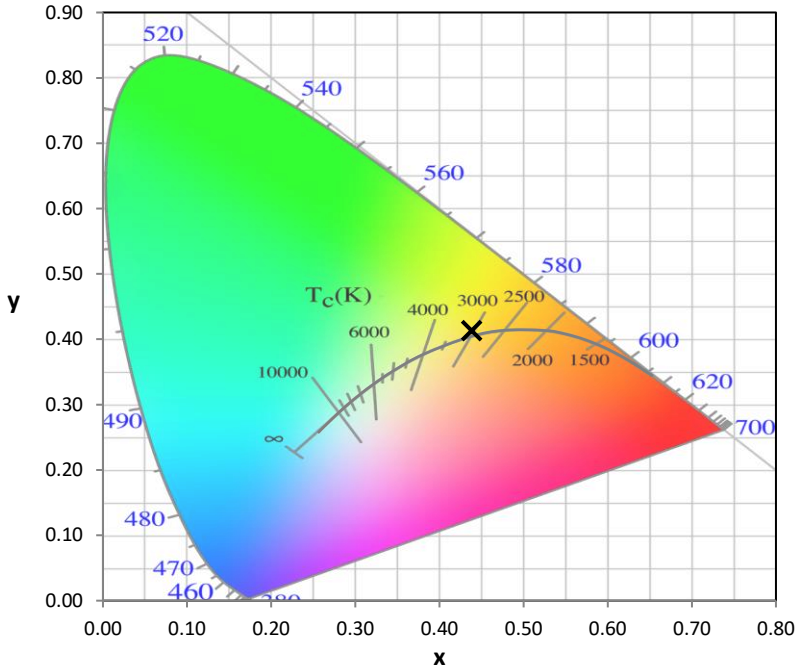
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

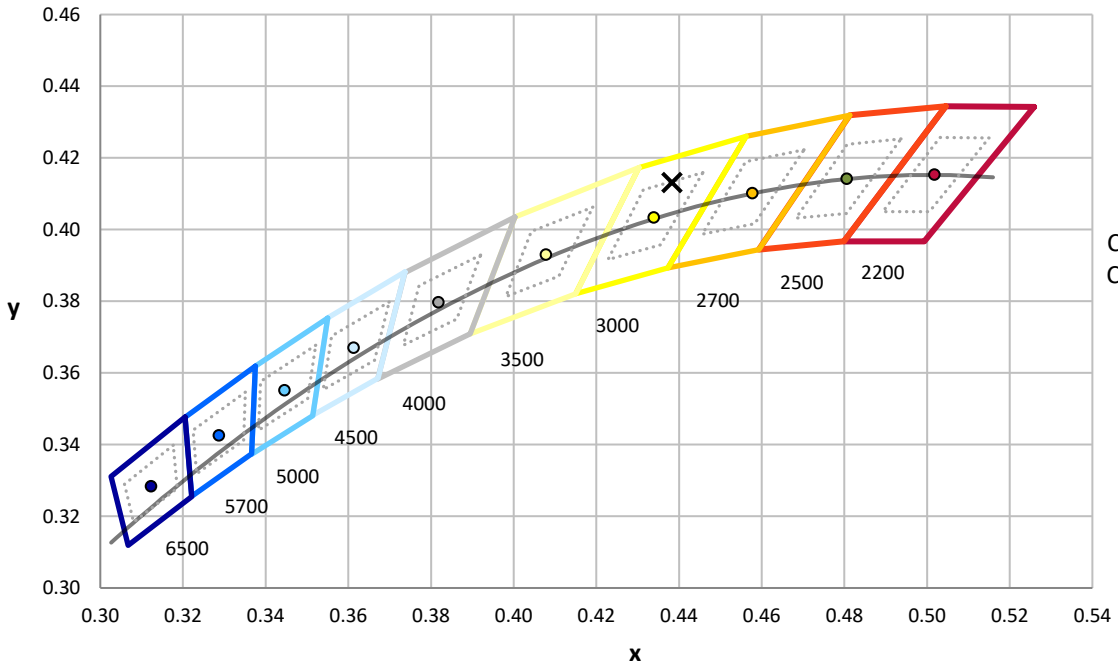
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

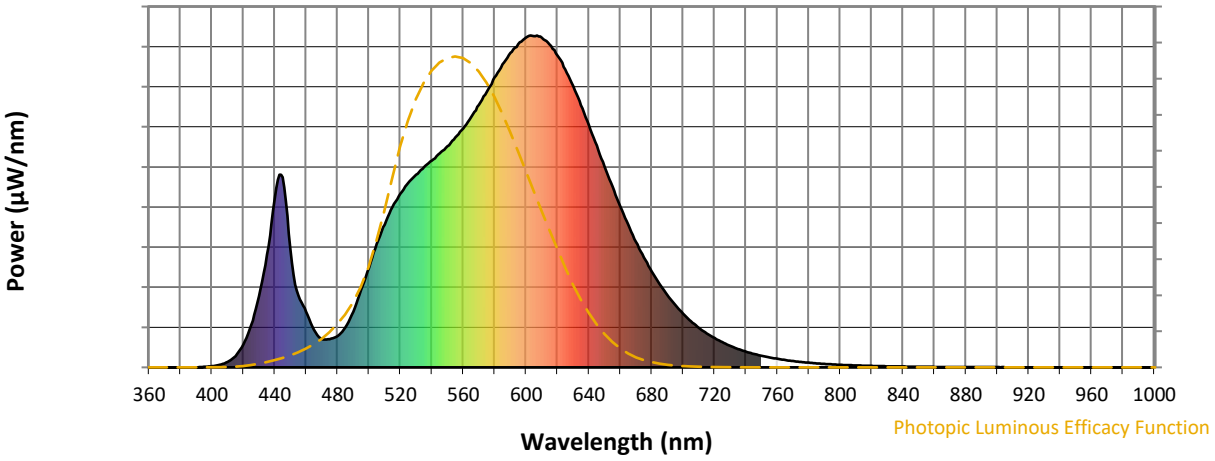


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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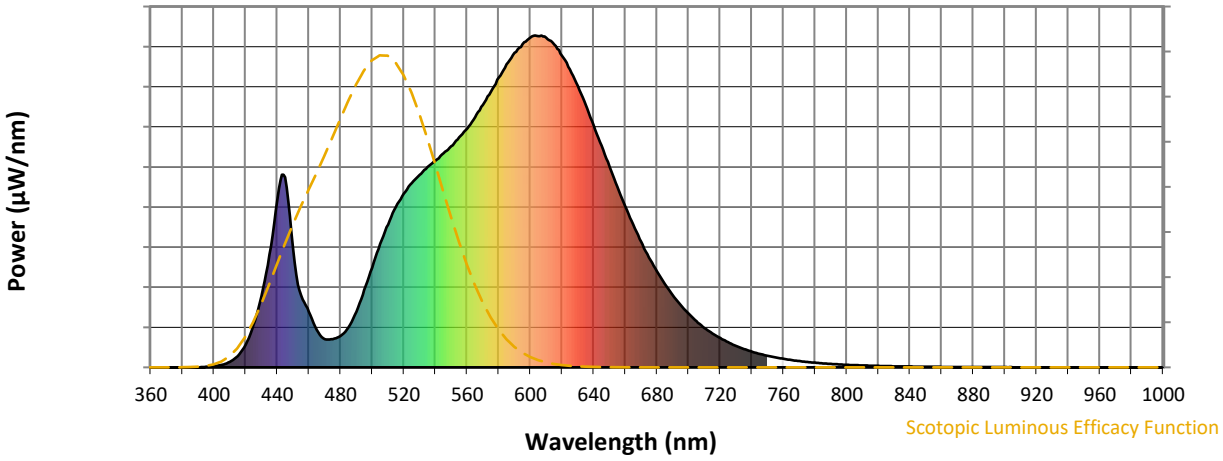
Scotopic Flux vs. Wavelength



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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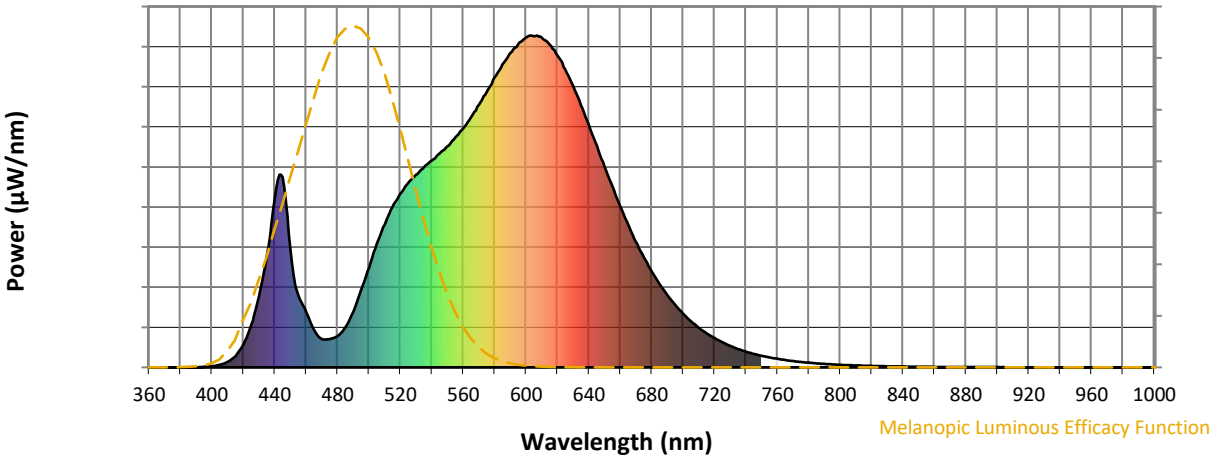
Melanopic Flux vs. Wavelength



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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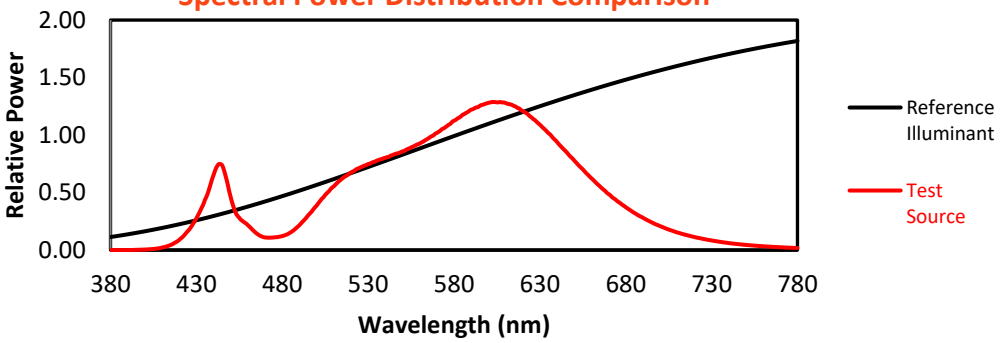
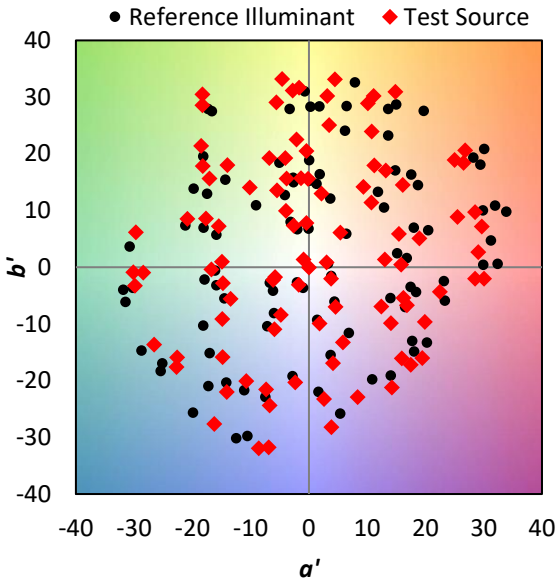
Summary

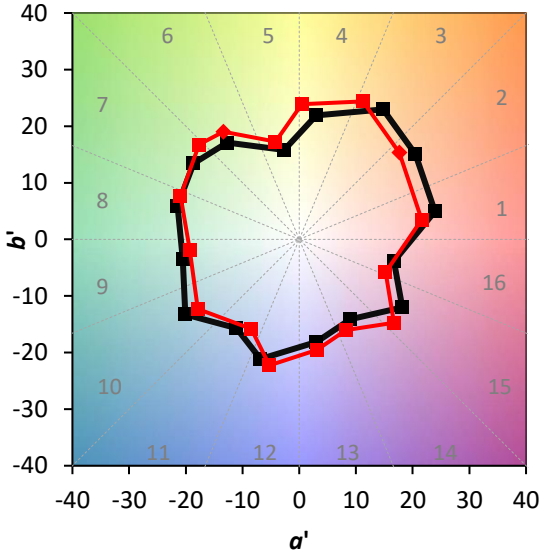
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

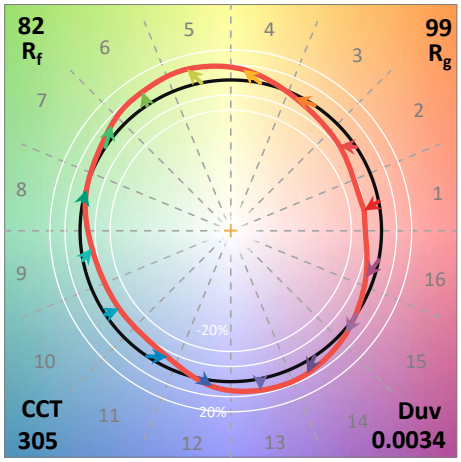
Spectral Power Distribution Comparison

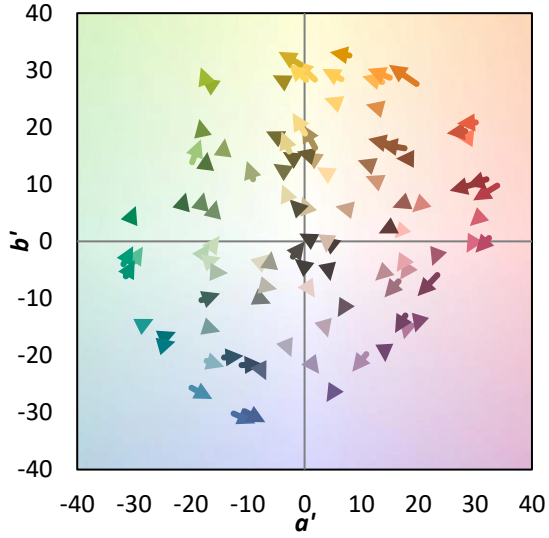


Color Vector Graphics









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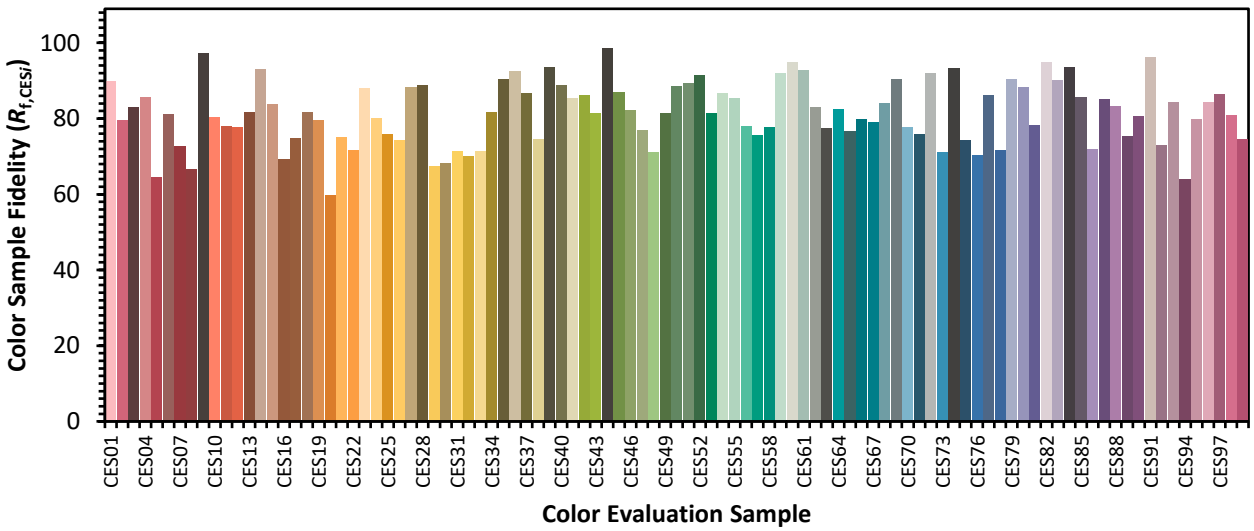
Individual Sample Fidelity Index ($R_{f,i}$)

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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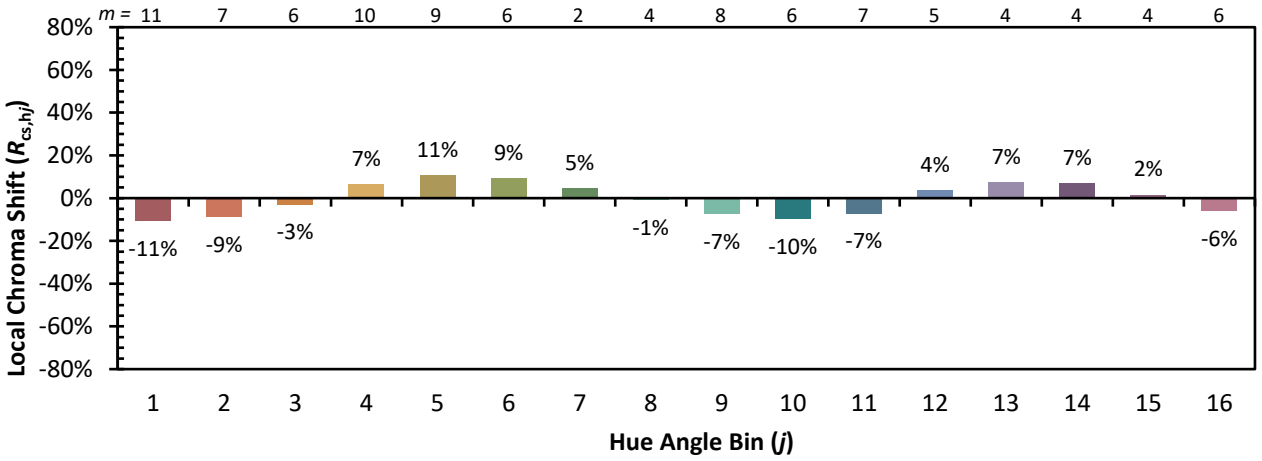
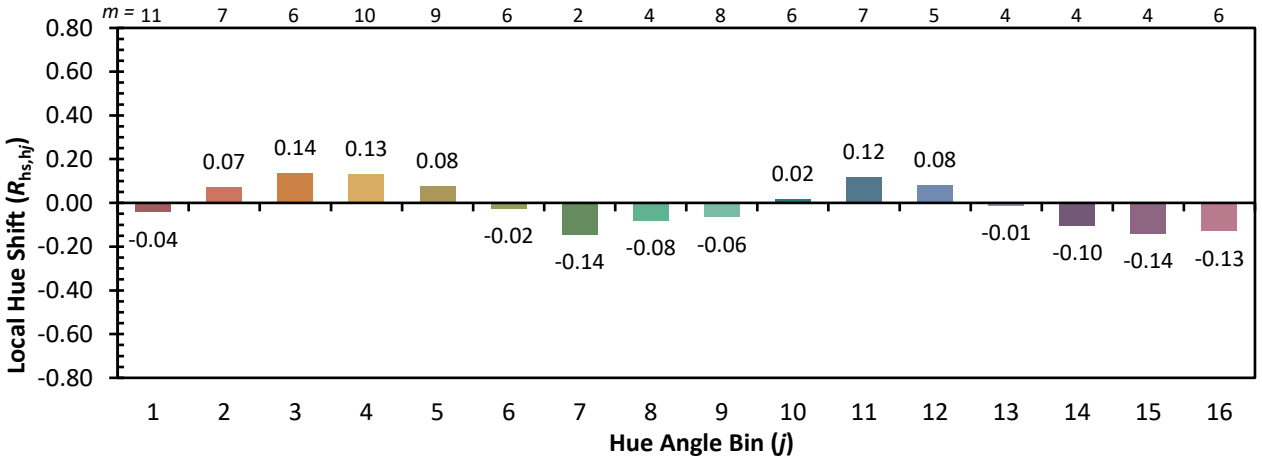
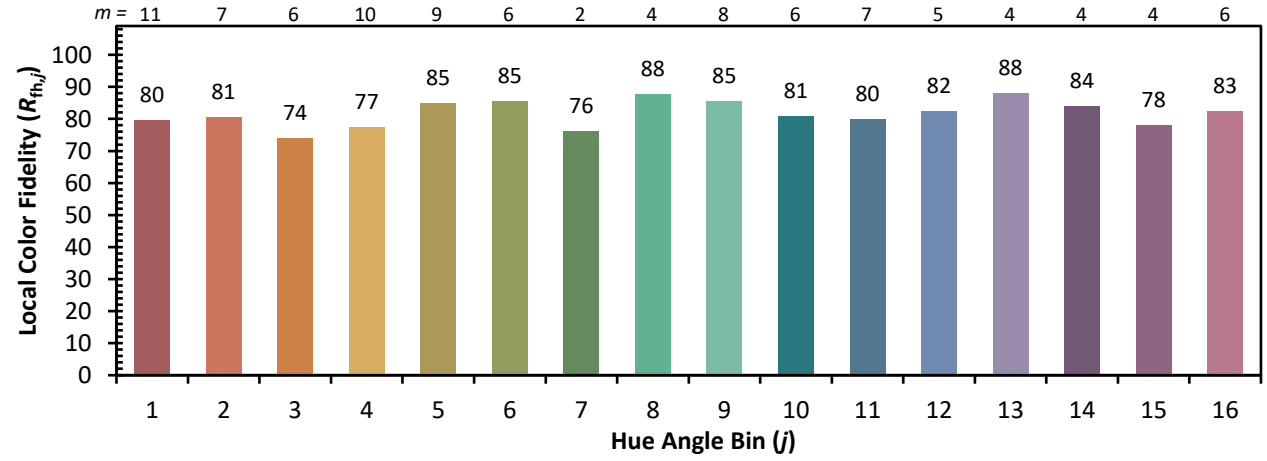
Color Rendition by Hue-Angle Bin







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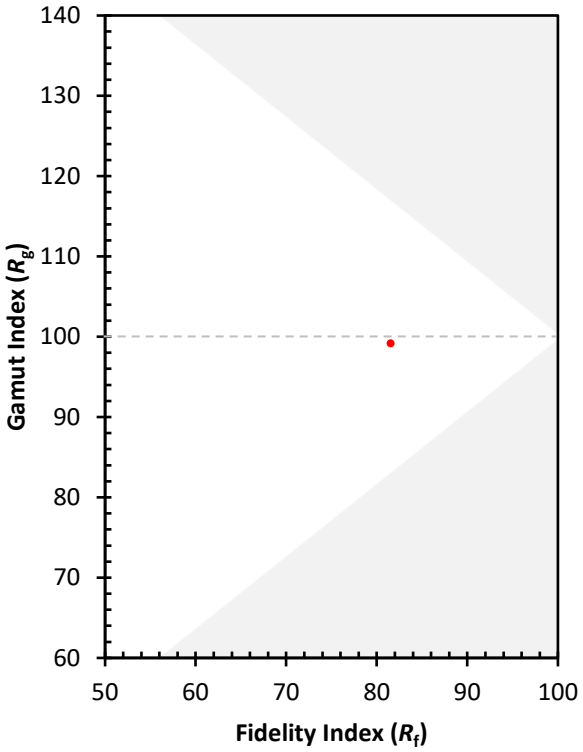
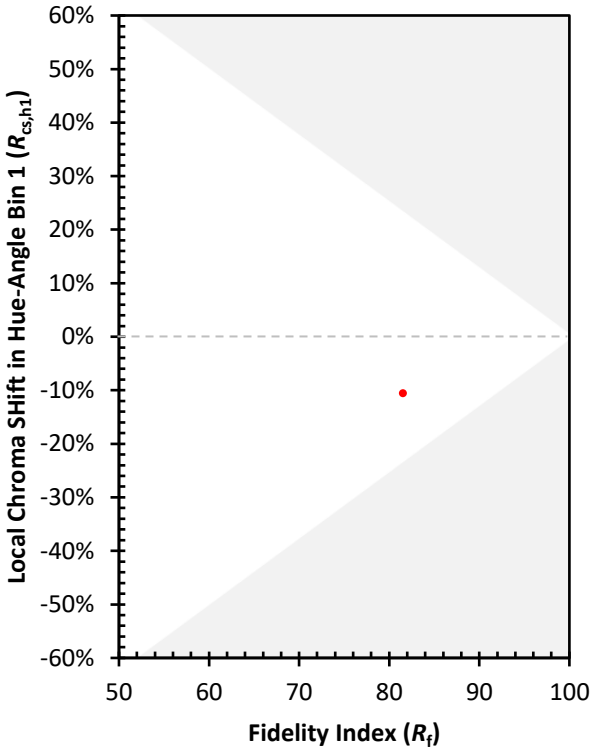
Measure Comparisons





(END OF REPORT)