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: P633547

Luminaire Tested: GWS-SA2E-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:	P633547
	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-SA2E-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	9893 lumens
Efficiency:	N/A
Efficacy:	91.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
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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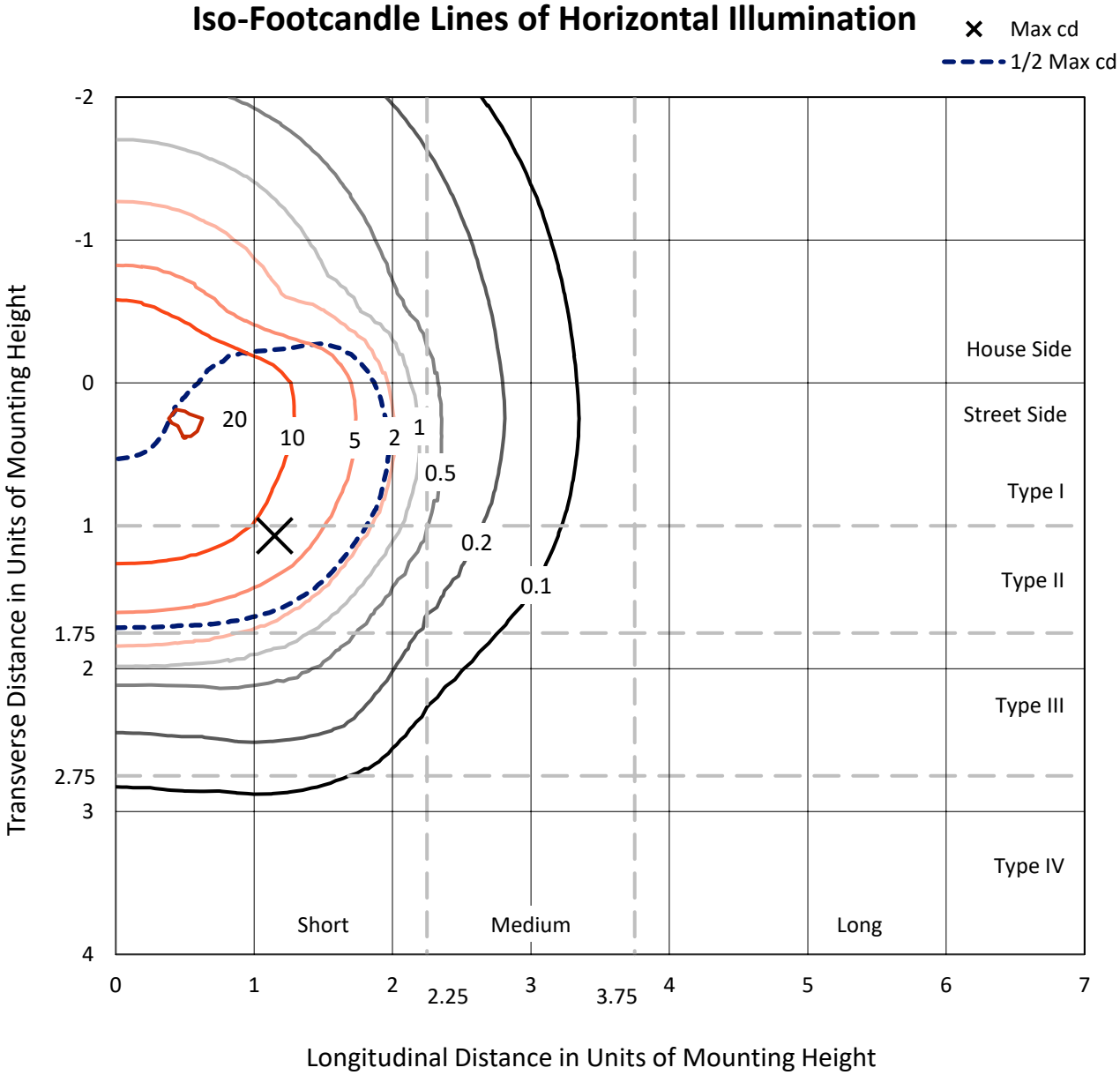
Scaled Data Report

REPORT NUMBER: P633547
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
Type II - Short - N/A

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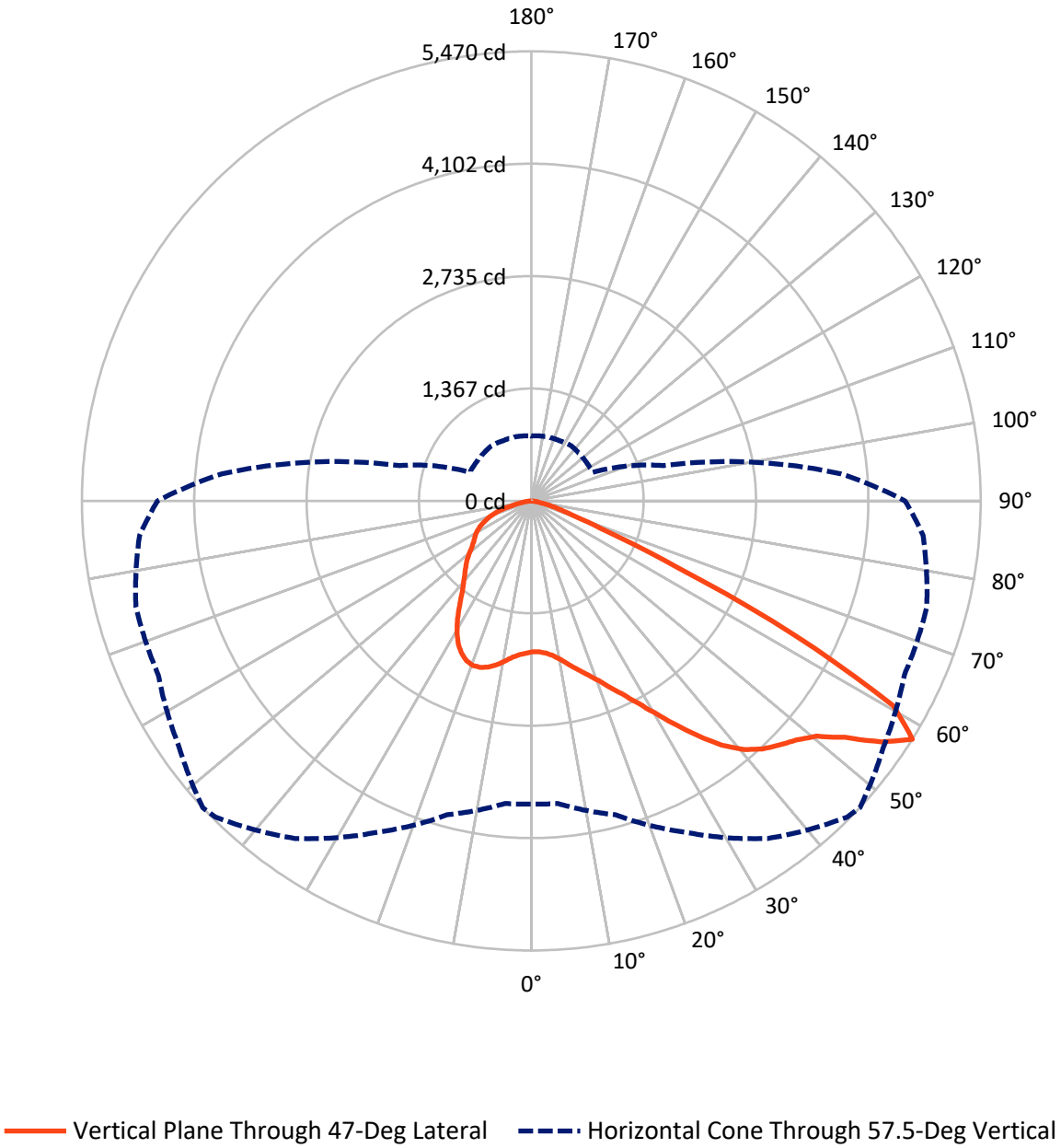
Luminous Intensity Polar Plot



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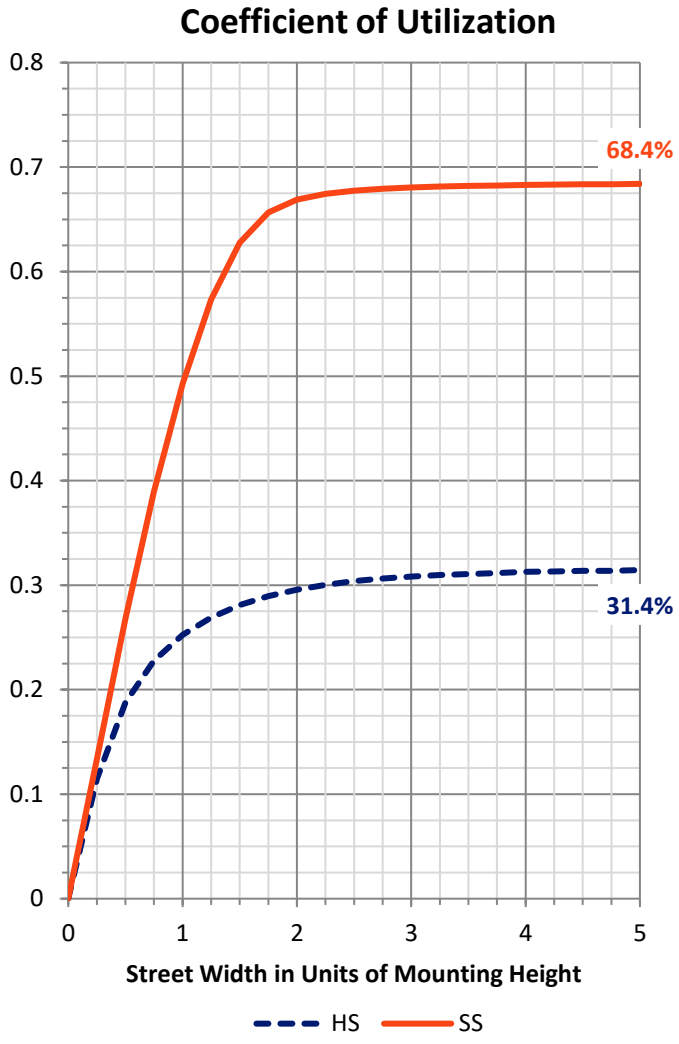
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3131.1	0.0	3131.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6761.9	0.0	6761.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	9893.0	0.0	9893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.8
10°-20°	595.2	6.0
20°-30°	1071.7	10.8
30°-40°	1618.7	16.4
40°-50°	2179.7	22.0
50°-60°	2619.2	26.5
60°-70°	1275.6	12.9
70°-80°	314.3	3.2
80°-90°	37.8	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°	9893.0	100.0
0°-180°	9893.0	100.0



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REPORT NUMBER: P633547
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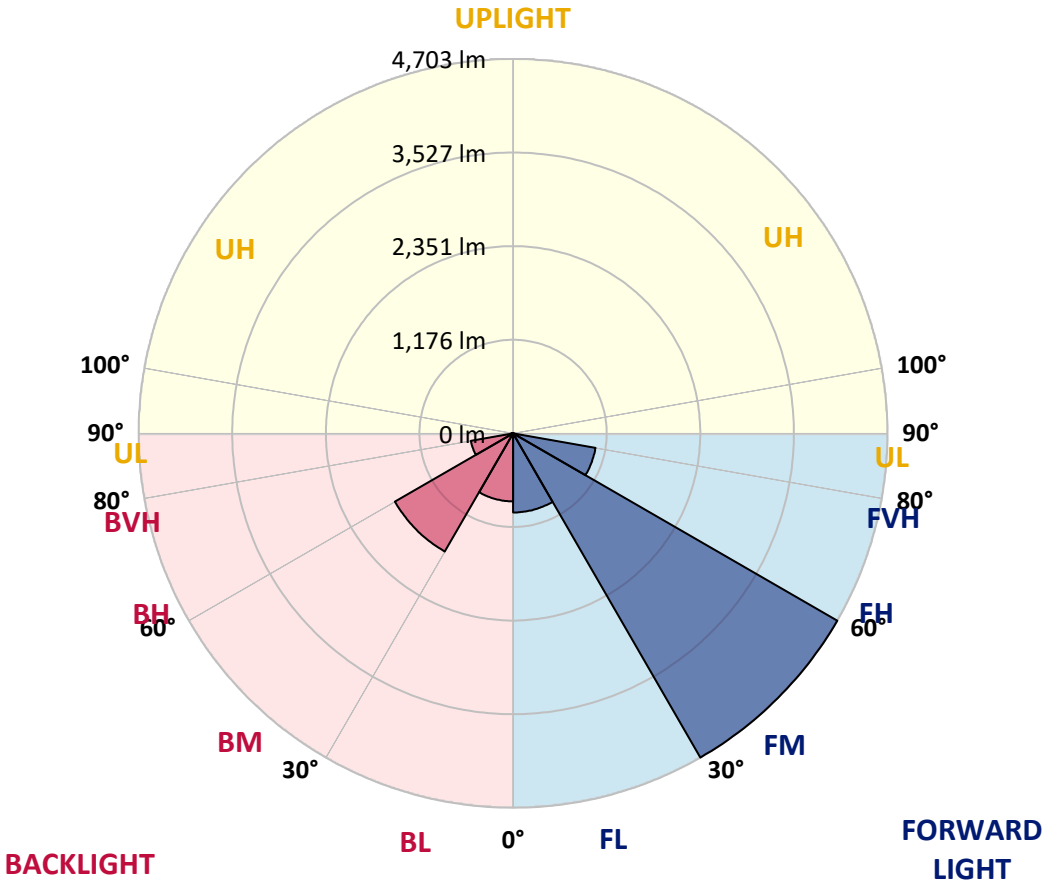
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	993.7	10.0			
FM	(30°-60°)	4702.7	47.5			
FH	(60°-80°)	1051.3	10.6			G1/1800
FVH	(80°-90°)	14.2	0.1			G1/100
BL	(0°-30°)	854.1	8.6	B2/1000		
BM	(30°-60°)	1714.9	17.3	B2/2500		
BH	(60°-80°)	538.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	23.6	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: P633547
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7
2.5°	1831.3	1830.5	1830.5	1835.5	1835.5	1837.2	1839.7	1842.1	1843.0	1838.8	1829.7
5°	1851.3	1851.3	1851.3	1855.4	1855.4	1857.1	1860.4	1861.3	1860.4	1853.8	1844.6
7.5°	1882.9	1882.9	1883.7	1888.7	1892.8	1895.3	1901.1	1900.3	1897.8	1887.0	1875.4
10°	1934.4	1936.9	1939.4	1945.2	1953.5	1959.3	1963.5	1963.5	1960.1	1943.5	1928.6
12.5°	2007.5	2010.8	2013.3	2018.3	2025.0	2034.9	2044.1	2044.1	2039.9	2019.1	1996.7
15°	2093.1	2096.4	2095.6	2097.2	2109.7	2123.8	2131.3	2136.3	2138.0	2108.9	2074.0
17.5°	2191.1	2194.5	2191.1	2186.2	2187.8	2210.2	2223.5	2241.8	2252.6	2213.6	2157.9
20°	2280.0	2276.7	2276.7	2280.0	2285.0	2312.5	2332.4	2362.3	2375.6	2328.2	2241.8
22.5°	2373.9	2381.4	2378.1	2378.1	2398.0	2443.7	2467.8	2506.9	2521.0	2459.5	2343.2
25°	2495.3	2501.9	2500.2	2501.9	2525.2	2590.0	2614.1	2686.4	2700.5	2612.4	2455.4
27.5°	2628.2	2639.0	2644.0	2642.3	2679.7	2764.5	2794.4	2894.9	2920.7	2783.6	2575.0
30°	2801.0	2812.7	2816.8	2815.2	2859.2	2974.7	3008.8	3123.4	3160.0	2986.3	2727.1
32.5°	3001.3	3012.9	3025.4	3030.4	3086.9	3204.9	3253.9	3372.7	3425.1	3220.6	2910.7
35°	3199.9	3209.8	3233.9	3273.0	3350.3	3470.8	3514.0	3631.1	3681.8	3464.1	3132.6
37.5°	3419.2	3425.9	3446.7	3500.7	3612.0	3726.7	3769.9	3882.1	3887.9	3699.3	3383.5
40°	3659.4	3659.4	3655.2	3708.4	3824.7	3940.2	3977.6	4042.4	4008.4	3880.4	3627.8
42.5°	3862.9	3859.6	3862.9	3912.8	3999.2	4093.1	4125.5	4113.1	4069.8	4019.2	3848.8
45°	4046.6	4049.1	4079.0	4117.2	4162.1	4217.7	4236.9	4166.2	4127.2	4130.5	4025.8
47.5°	4171.2	4173.7	4243.5	4307.5	4334.9	4352.4	4344.0	4246.0	4226.1	4263.4	4162.1
50°	4187.8	4201.1	4321.6	4452.9	4521.0	4523.5	4500.3	4380.6	4374.8	4417.2	4235.2
52.5°	4191.2	4204.5	4354.9	4591.7	4768.6	4806.0	4779.5	4654.8	4594.2	4551.8	4324.9
55°	4178.7	4193.7	4359.8	4684.7	5023.7	5173.3	5175.8	4999.6	4806.0	4777.8	4580.9
57.5°	3689.3	3695.1	3952.7	4447.9	5013.8	5437.5	5469.9	5230.6	5009.6	4983.0	4786.1
60°	2570.0	2593.3	2873.3	3527.3	4211.9	4958.9	5063.6	4993.8	4845.9	4652.3	4106.4
62.5°	1287.1	1307.0	1587.9	2206.1	2904.9	3494.8	3607.0	3681.0	3715.9	3508.1	2796.0
65°	554.2	569.2	743.7	1152.5	1644.4	1929.4	1968.4	2057.4	2275.1	2029.9	1506.5
67.5°	370.6	380.6	469.5	703.0	968.9	987.1	981.3	1000.4	1047.8	865.0	680.5
70°	284.2	292.5	352.3	515.2	696.3	595.8	564.2	511.8	555.9	566.7	551.7
72.5°	206.1	212.7	257.6	351.5	436.2	380.6	375.6	402.2	462.0	478.6	469.5
75°	132.9	136.3	163.7	192.8	225.2	244.3	254.3	302.5	363.1	375.6	364.8
77.5°	88.9	91.4	107.2	123.8	128.0	128.8	132.1	153.7	195.3	218.5	216.0
80°	46.5	46.5	52.3	52.3	59.8	71.5	74.8	88.9	108.0	119.7	120.5
82.5°	18.3	19.1	22.4	24.9	29.9	36.6	39.1	46.5	56.5	64.8	72.3
85°	7.5	8.3	9.1	10.8	13.3	16.6	17.4	19.9	26.6	33.2	37.4
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	2.5	3.3	4.2	7.5	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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REPORT NUMBER: P633547
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7
2.5°	1840.5	1829.7	1840.5	1843.8	1853.0	1856.3	1850.5	1849.6	1849.6	1841.3	1838.8
5°	1853.0	1843.0	1853.8	1858.8	1872.1	1880.4	1882.0	1888.7	1892.8	1889.5	1888.7
7.5°	1883.7	1871.2	1882.9	1890.3	1907.8	1921.1	1926.9	1941.9	1952.7	1951.0	1950.2
10°	1937.7	1921.1	1934.4	1946.8	1966.0	1981.7	1982.6	1990.9	2001.7	1998.4	1996.7
12.5°	2000.0	1984.2	1999.2	2011.7	2034.1	2040.7	2029.9	2026.6	2028.3	2024.1	2020.8
15°	2076.5	2054.0	2067.3	2081.5	2093.9	2086.4	2063.2	2054.0	2053.2	2047.4	2044.1
17.5°	2152.9	2124.7	2134.6	2142.1	2136.3	2113.0	2083.9	2068.2	2060.7	2049.0	2045.7
20°	2228.5	2192.8	2191.1	2185.3	2158.7	2116.4	2077.3	2045.7	2026.6	2010.8	2005.0
22.5°	2314.9	2265.1	2240.2	2213.6	2155.4	2086.4	2027.4	1982.6	1951.8	1931.9	1925.2
25°	2408.0	2337.4	2285.9	2232.7	2122.2	2022.5	1940.2	1878.7	1842.1	1820.5	1813.1
27.5°	2500.2	2403.0	2325.7	2235.2	2055.7	1930.2	1819.7	1736.6	1700.1	1682.6	1676.8
30°	2624.9	2490.3	2373.1	2202.8	1968.4	1802.3	1664.3	1580.4	1556.3	1543.8	1538.9
32.5°	2768.6	2600.8	2436.3	2134.6	1857.1	1652.7	1507.3	1449.1	1432.5	1408.4	1407.6
35°	2958.1	2758.7	2496.1	2034.1	1716.7	1492.3	1386.8	1345.3	1315.3	1277.1	1273.8
37.5°	3179.1	2955.6	2528.5	1906.1	1553.0	1360.2	1297.1	1250.5	1202.3	1151.7	1145.0
40°	3407.6	3185.7	2531.0	1754.9	1392.6	1273.0	1219.8	1159.1	1099.3	1042.8	1035.3
42.5°	3647.7	3400.1	2486.9	1580.4	1261.3	1197.4	1143.3	1066.9	999.6	961.4	957.2
45°	3862.1	3573.0	2387.2	1396.8	1164.1	1134.2	1065.2	983.0	947.2	919.8	914.0
47.5°	4030.8	3687.6	2252.6	1232.3	1085.2	1069.4	979.7	937.3	909.9	884.9	879.1
50°	4113.9	3713.4	2077.3	1098.5	1012.1	992.9	931.5	899.1	880.8	860.8	855.8
52.5°	4216.9	3742.5	1926.1	986.3	940.6	914.8	891.6	865.8	852.5	840.1	835.9
55°	4453.7	3852.1	1846.3	896.6	872.5	860.8	857.5	835.9	831.8	823.4	816.0
57.5°	*4550.1*	*3781.5*	*1657.7*	*823.4*	*818.5*	*820.1*	*828.4*	*808.5*	*804.3*	*794.4*	*789.4*
60°	3659.4	2858.4	1122.6	760.3	773.6	784.4	792.7	772.8	766.9	765.3	758.6
62.5°	2344.9	1758.2	783.6	701.3	721.2	734.5	739.5	720.4	716.3	729.5	730.4
65°	1220.6	958.1	635.7	638.1	654.8	674.7	684.7	678.0	676.4	690.5	691.3
67.5°	623.2	585.8	554.2	563.4	576.7	602.4	625.7	654.8	664.7	666.4	667.2
70°	531.0	514.3	498.6	504.4	518.5	532.6	555.1	569.2	552.6	548.4	546.7
72.5°	452.0	439.6	432.1	438.7	446.2	443.7	437.1	443.7	446.2	447.0	447.9
75°	351.5	342.3	336.5	337.4	337.4	328.2	315.7	308.3	300.0	293.3	293.3
77.5°	215.2	216.9	222.7	221.9	221.0	217.7	205.2	198.6	178.6	172.8	172.8
80°	123.0	125.5	131.3	132.9	132.9	128.8	116.3	108.9	99.7	95.6	94.7
82.5°	74.8	78.1	81.4	83.1	83.9	78.9	68.1	62.3	57.3	53.2	53.2
85°	39.1	40.7	44.0	44.9	42.4	37.4	31.6	29.1	24.1	23.3	23.3
87.5°	10.8	11.6	13.3	10.8	10.0	7.5	4.2	3.3	1.7	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

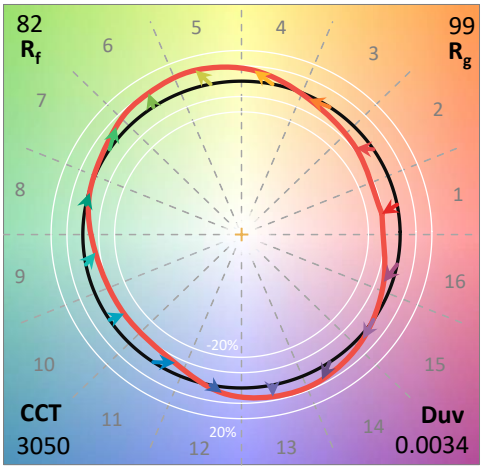
Test Information

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

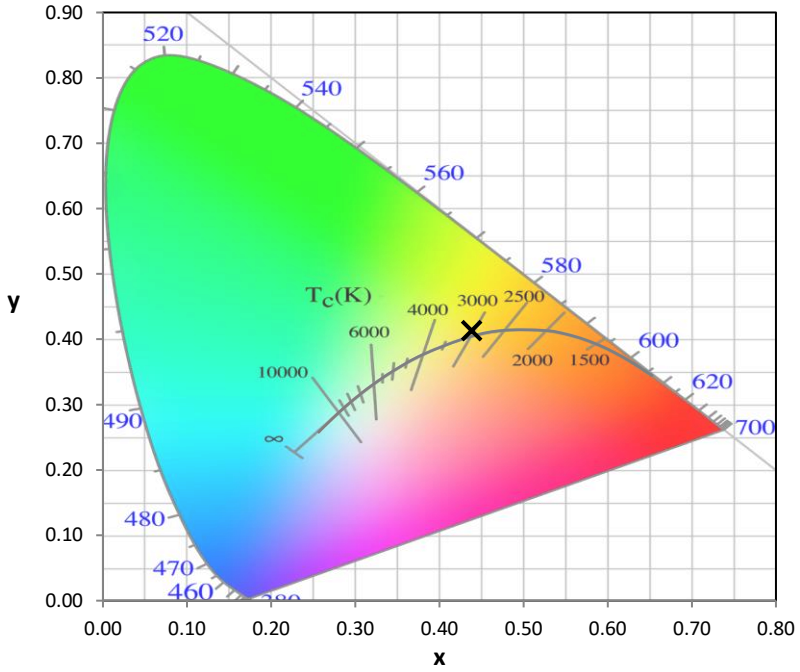
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

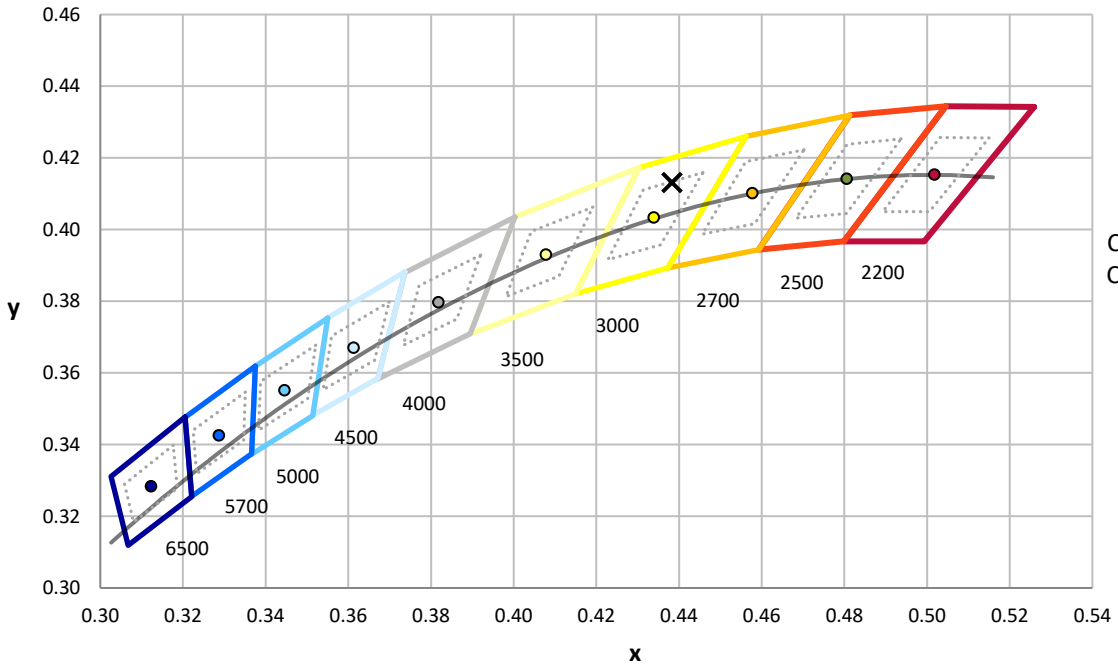
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

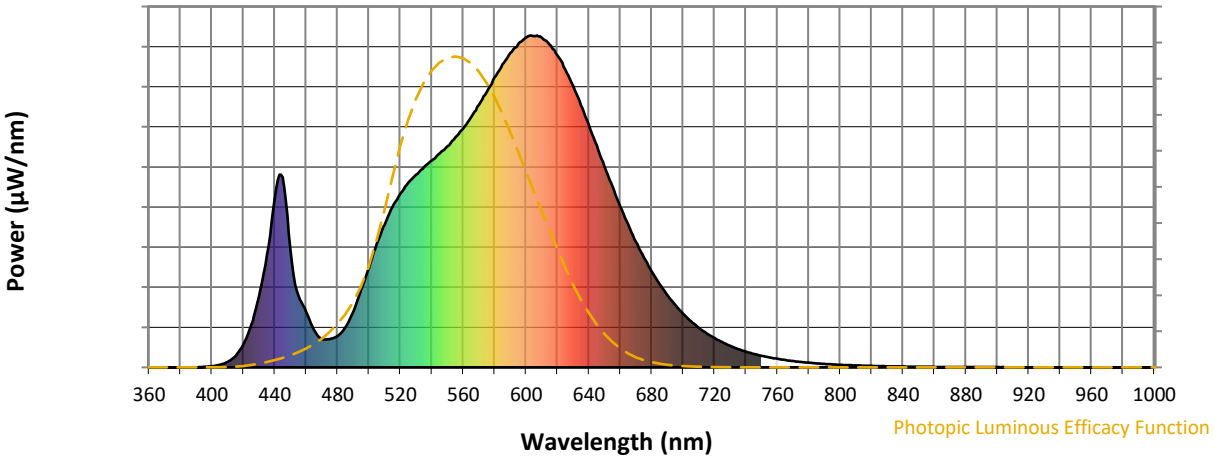


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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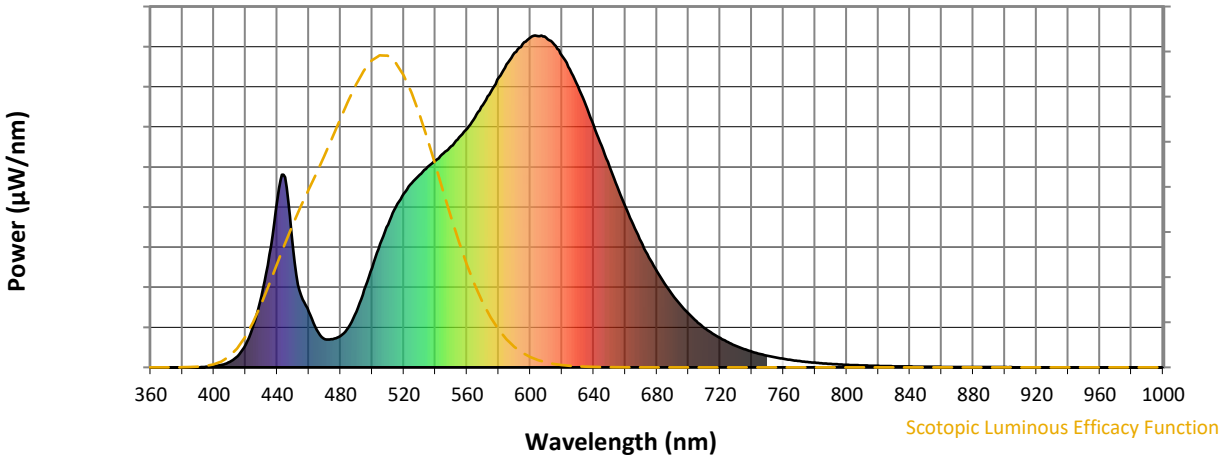
Scotopic Flux vs. Wavelength



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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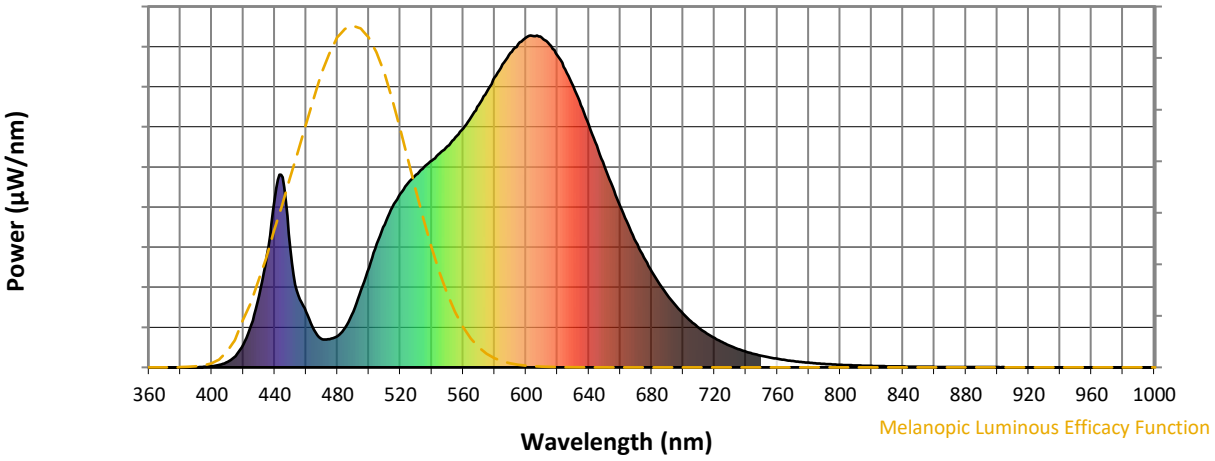
Melanopic Flux vs. Wavelength



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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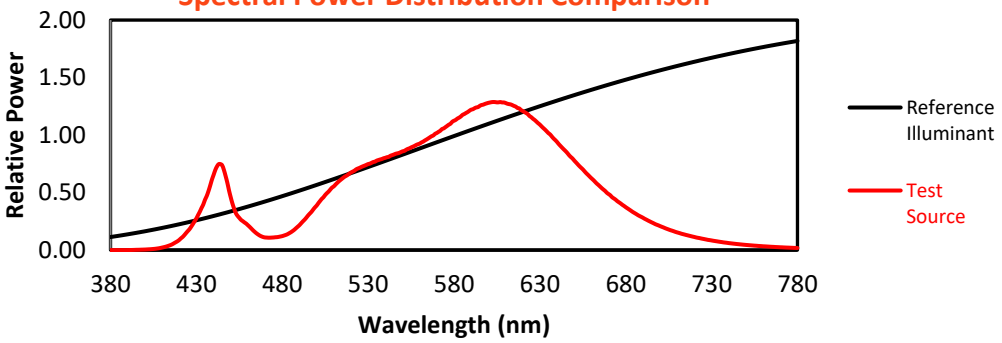
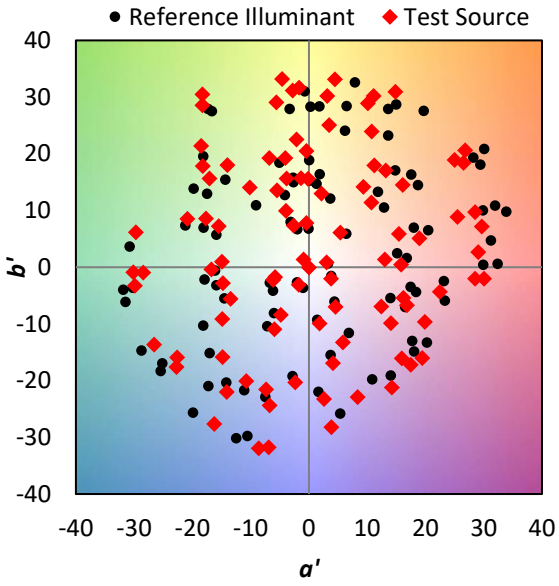
Summary

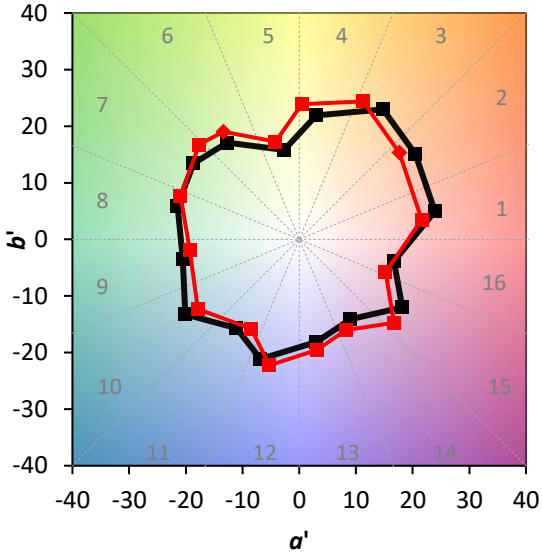
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

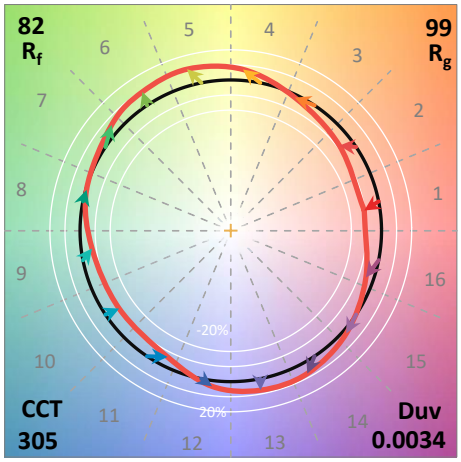
Spectral Power Distribution Comparison

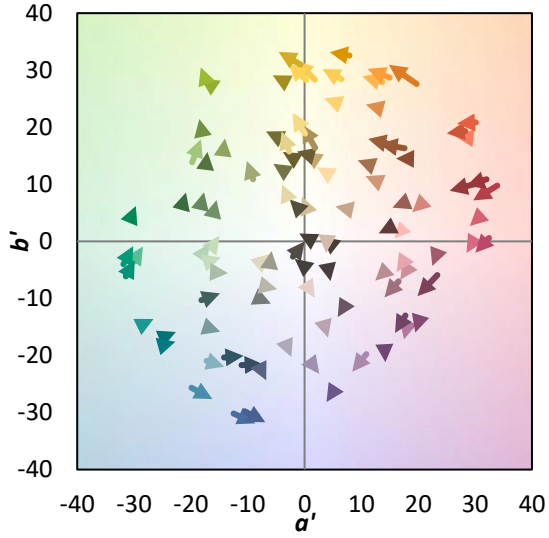


Color Vector Graphics









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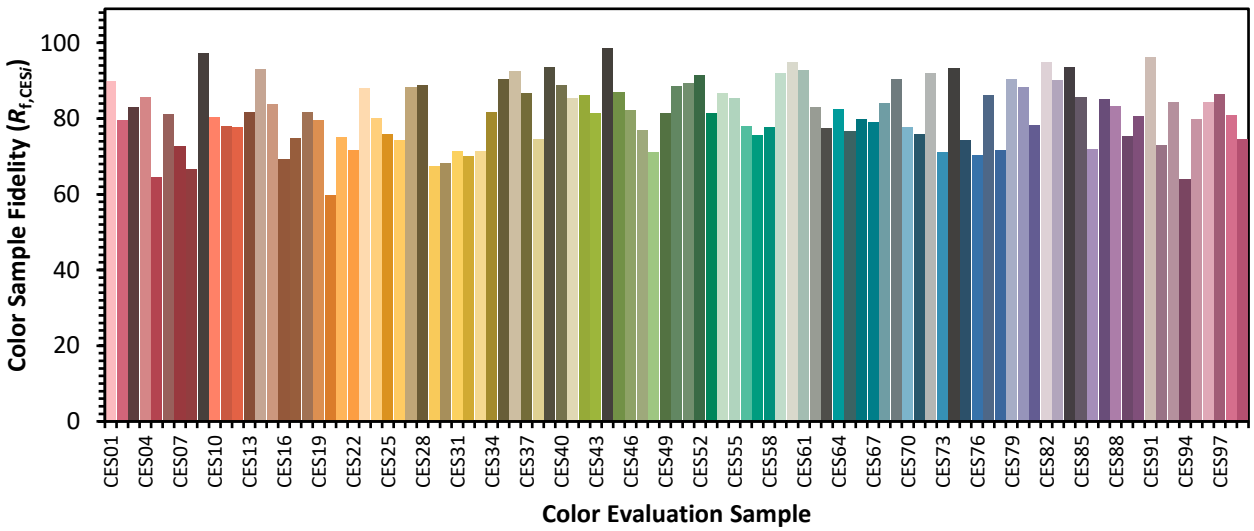
Individual Sample Fidelity Index ($R_{f,i}$)

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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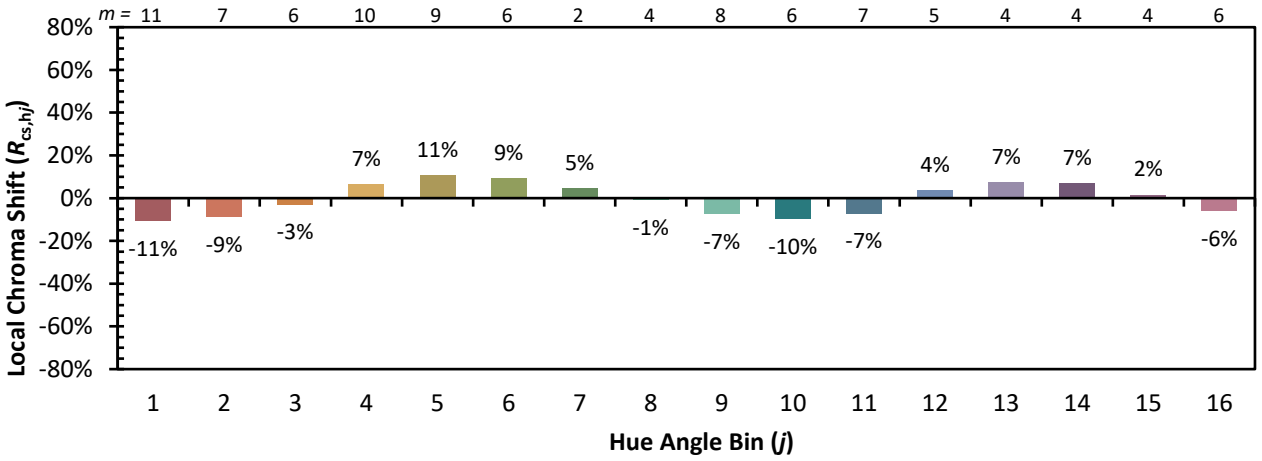
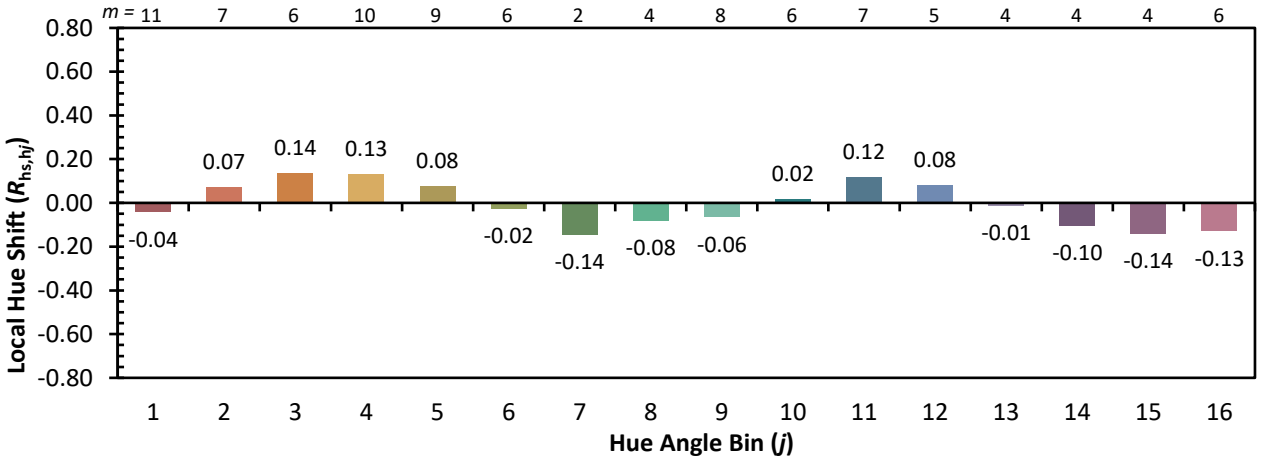
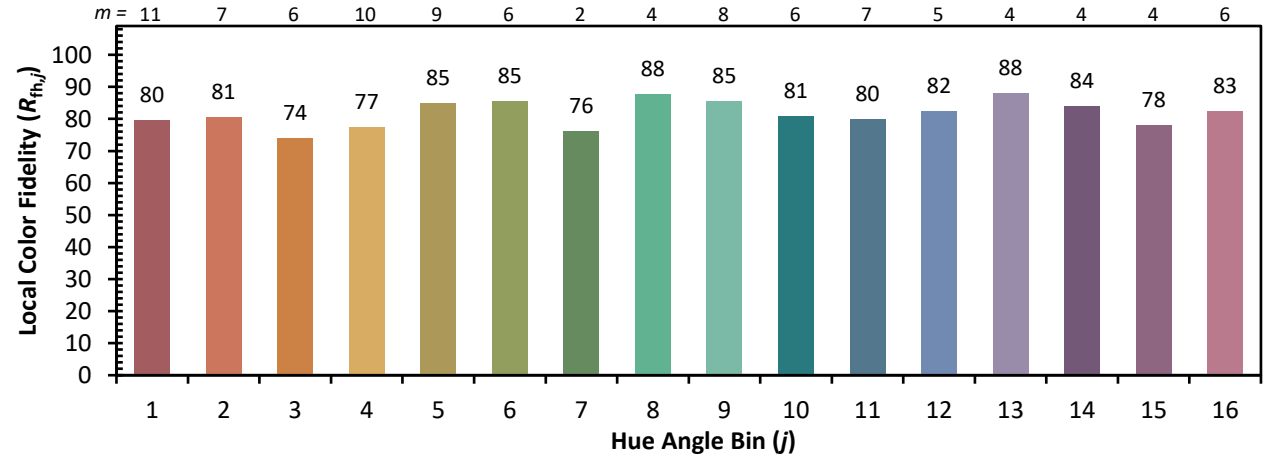
Color Rendition by Hue-Angle Bin







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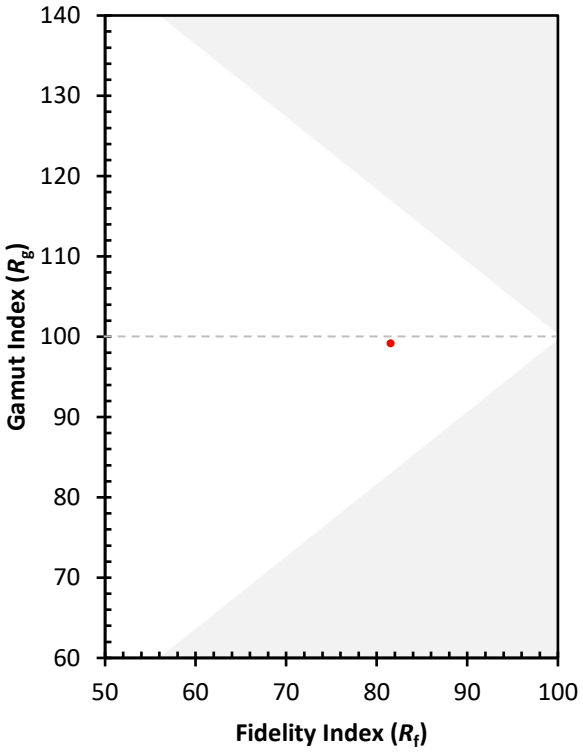
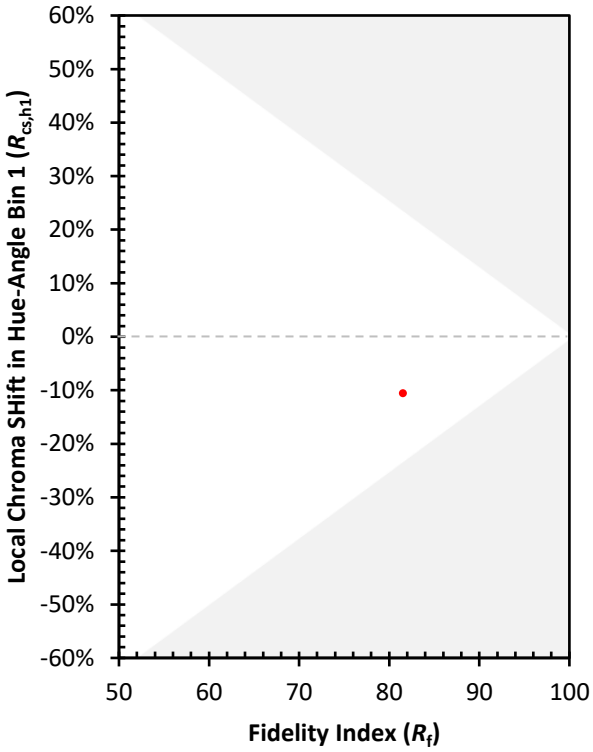
Measure Comparisons





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