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: P641958

Luminaire Tested: GWS-SA6B-830-U-T2R-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:	P641958
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14802.7 lumens
Efficiency:	N/A
Efficacy:	106.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	138.9
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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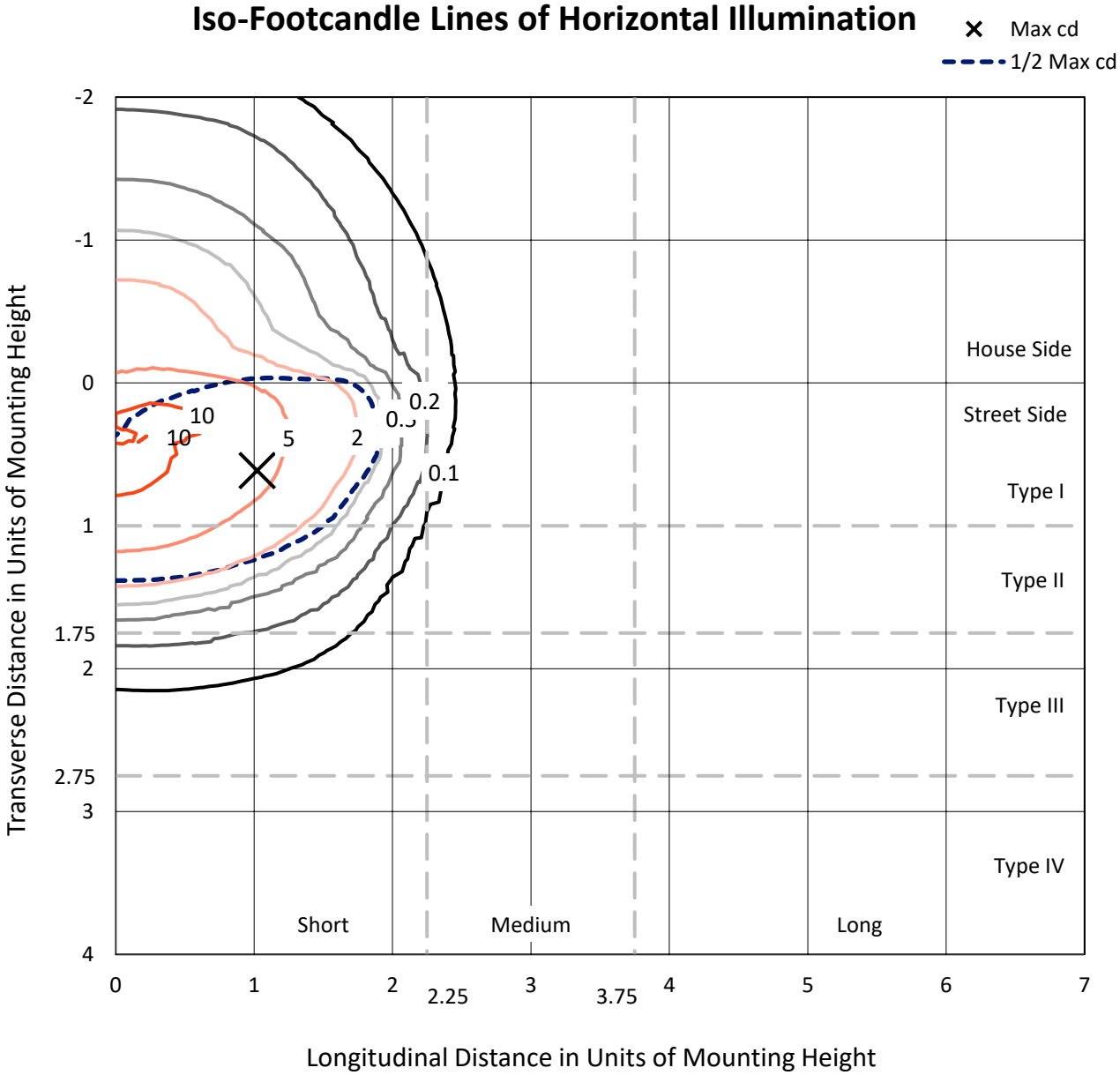
Scaled Data Report

REPORT NUMBER: P641958
CATALOG NUMBER: GWS-SA6B-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - N/A

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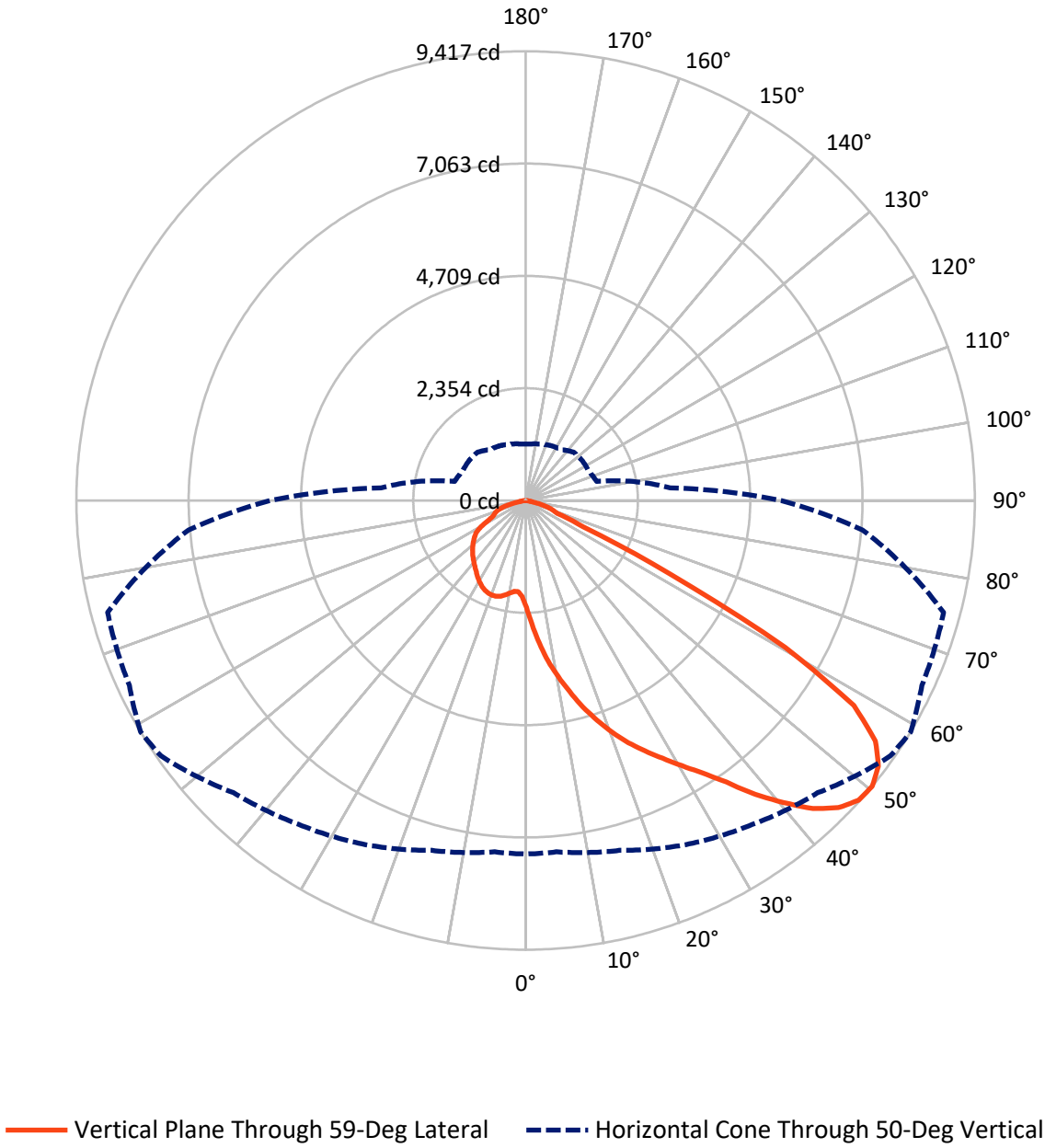
Luminous Intensity Polar Plot



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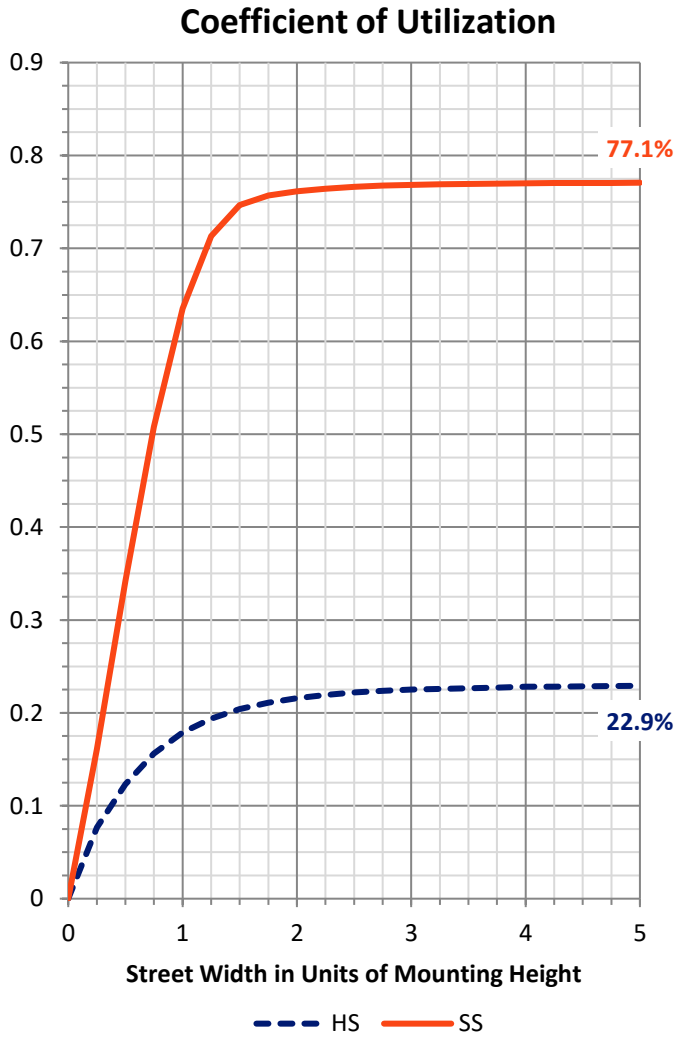
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3404.9	0.0	3404.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	11397.8	0.0	11397.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	14802.7	0.0	14802.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.7
10°-20°	913.3	6.2
20°-30°	1729.5	11.7
30°-40°	2868.0	19.4
40°-50°	3917.9	26.5
50°-60°	3556.4	24.0
60°-70°	1184.3	8.0
70°-80°	345.4	2.3
80°-90°	36.3	0.2
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°	14802.7	100.0
0°-180°	14802.7	100.0



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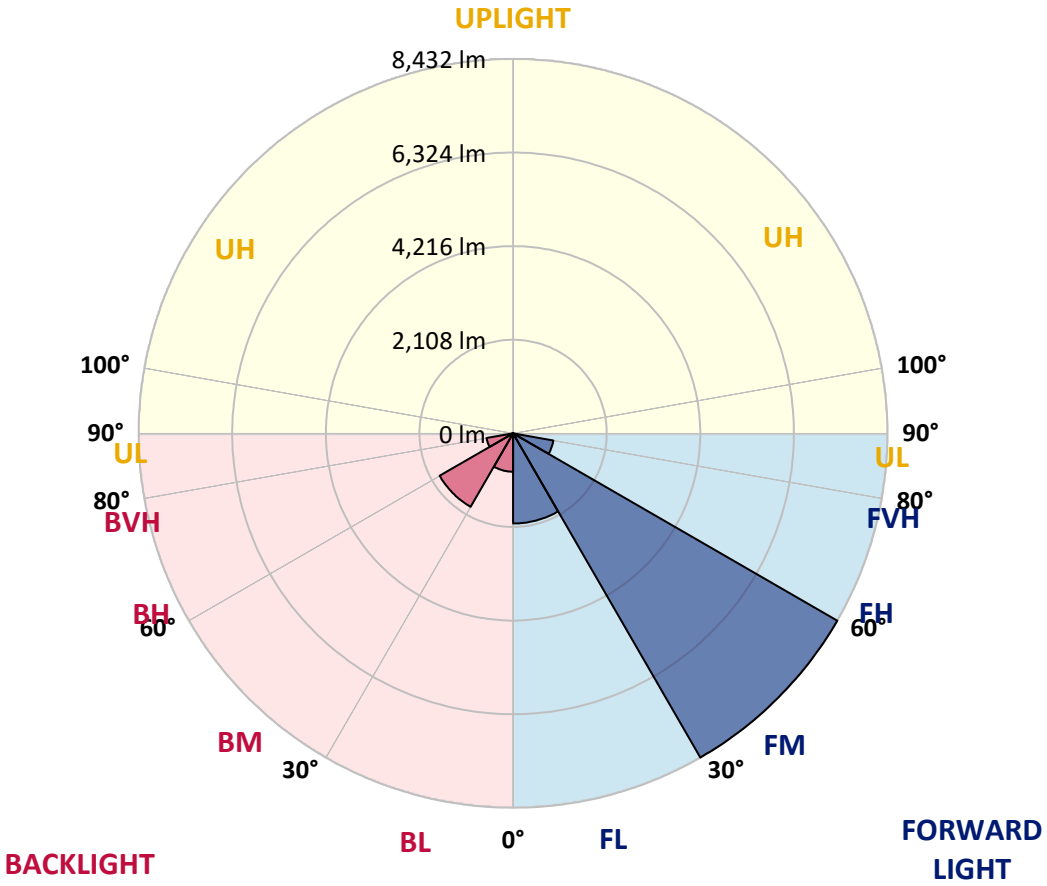
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2029.8	13.7			
FM	(30°-60°)	8431.8	57.0			
FH	(60°-80°)	922.0	6.2			G1/1800
FVH	(80°-90°)	14.2	0.1			G1/100
BL	(0°-30°)	864.6	5.8	B2/1000		
BM	(30°-60°)	1910.5	12.9	B2/2500		
BH	(60°-80°)	607.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	22.1	0.1			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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REPORT NUMBER: P641958
CATALOG NUMBER: GWS-SA6B-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7
2.5°	2905.9	2927.6	2893.8	2896.2	2811.8	2773.2	2664.7	2600.8	2558.6	2440.5	2333.1
5°	3491.9	3466.6	3440.0	3424.4	3350.8	3247.1	3112.1	3004.8	2905.9	2674.4	2451.3
7.5°	3851.2	3837.9	3819.8	3810.2	3737.9	3629.3	3494.3	3402.7	3259.2	2945.7	2594.8
10°	4156.3	4140.6	4129.7	4137.0	4077.9	4007.9	3860.8	3755.9	3594.4	3232.6	2768.4
12.5°	4392.6	4401.0	4404.6	4443.2	4417.9	4375.7	4223.8	4112.8	3933.2	3535.3	2972.2
15°	4579.5	4577.1	4619.3	4692.8	4733.8	4707.3	4585.5	4492.7	4273.2	3833.1	3191.6
17.5°	4622.9	4625.3	4691.6	4820.6	4954.5	5019.6	4950.9	4839.9	4622.9	4127.3	3419.5
20°	4657.9	4662.7	4731.4	4878.5	5073.8	5255.9	5266.8	5187.2	5000.3	4445.6	3651.0
22.5°	4878.5	4889.4	4907.4	5000.3	5176.3	5406.6	5533.2	5516.4	5359.6	4779.6	3900.6
25°	5458.5	5425.9	5337.9	5311.4	5378.9	5565.8	5781.6	5814.2	5737.0	5147.4	4169.5
27.5°	6174.7	6139.7	6009.5	5872.1	5726.2	5791.3	6021.6	6119.2	6120.4	5552.5	4439.6
30°	6824.6	6796.9	6690.8	6494.2	6242.2	6148.2	6318.2	6449.6	6528.0	6020.4	4747.1
32.5°	7380.5	7355.1	7211.7	7051.3	6805.3	6616.0	6677.5	6804.1	6987.4	6625.7	5129.3
35°	7848.3	7823.0	7685.5	7523.9	7296.1	7182.7	7161.0	7247.8	7485.4	7257.5	5568.2
37.5°	8228.1	8202.8	8059.3	7907.4	7733.7	7741.0	7773.5	7815.7	7952.0	7933.9	6037.2
40°	8474.1	8447.6	8345.1	8236.5	8126.8	8213.6	8375.2	8324.6	8396.9	8480.1	6468.9
42.5°	8583.8	8550.0	8491.0	8466.8	8433.1	8568.1	8879.2	8828.6	8741.8	8844.3	6789.6
45°	8474.1	8445.1	8443.9	8517.5	8595.9	8769.5	9227.7	9186.7	8967.2	9020.3	6981.4
47.5°	8137.7	8112.4	8181.1	8374.0	8566.9	8820.1	9383.2	9390.5	9127.6	9093.8	7105.5
50°	7410.6	7393.7	7592.7	7958.0	8290.8	8662.2	9333.8	9417.0	9166.2	9070.9	7089.9
52.5°	5932.3	6010.7	6443.6	7053.7	7700.0	8384.9	9150.5	9259.0	8980.5	8920.2	7005.5
55°	4061.0	4097.2	4530.0	5421.1	6446.0	7784.4	8729.7	8897.3	8761.1	8894.9	7093.5
57.5°	2102.8	2131.8	2473.0	3264.0	4372.1	6151.8	7561.3	8111.1	8318.5	9022.7	7367.2
60°	863.3	887.4	1028.5	1410.7	2205.3	3582.3	5441.6	6256.7	6743.8	8240.2	6542.5
62.5°	627.0	639.1	706.6	841.6	1155.1	1755.6	3079.5	3379.7	3722.2	5164.3	4153.8
65°	528.1	541.4	595.6	677.6	842.8	1076.7	1315.5	1322.7	1457.8	2104.1	1539.8
67.5°	442.5	454.6	502.8	572.7	681.3	764.5	706.6	707.8	705.4	763.2	737.9
70°	344.8	354.5	402.7	477.5	534.2	490.7	552.2	611.3	586.0	608.9	643.9
72.5°	252.0	262.9	305.1	361.7	347.3	349.7	447.3	507.6	493.2	518.5	551.0
75°	182.1	189.3	211.0	180.9	190.5	230.3	314.7	347.3	361.7	383.4	412.4
77.5°	59.1	59.1	66.3	83.2	103.7	127.8	160.4	173.6	195.3	219.4	239.9
80°	30.1	31.3	37.4	45.8	57.9	73.6	94.0	100.1	110.9	124.2	132.6
82.5°	14.5	15.7	18.1	22.9	30.1	38.6	51.8	57.9	65.1	73.6	79.6
85°	3.6	3.6	4.8	7.2	9.6	14.5	19.3	22.9	28.9	35.0	38.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	6.0	7.2	9.6
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-SA6B-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7
2.5°	2284.9	2217.4	2130.6	2057.0	1989.5	1937.7	1893.0	1871.3	1850.8	1836.4	1841.2
5°	2347.6	2231.9	2070.3	1958.2	1889.4	1854.5	1830.3	1818.3	1815.9	1806.2	1802.6
7.5°	2439.3	2274.1	2058.2	1944.9	1899.1	1881.0	1867.7	1860.5	1864.1	1854.5	1850.8
10°	2552.6	2344.0	2088.4	1988.3	1948.5	1935.2	1920.8	1911.1	1906.3	1891.8	1889.4
12.5°	2693.7	2430.8	2142.6	2043.8	2004.0	1981.1	1961.8	1944.9	1934.0	1916.0	1911.1
15°	2845.6	2527.3	2206.5	2098.0	2051.0	2017.2	1985.9	1960.6	1941.3	1917.2	1913.5
17.5°	3010.8	2628.6	2259.6	2135.4	2075.1	2030.5	1984.7	1947.3	1920.8	1889.4	1885.8
20°	3183.2	2731.0	2299.4	2153.5	2076.3	2016.0	1954.5	1905.1	1871.3	1840.0	1837.6
22.5°	3361.7	2825.1	2323.5	2148.7	2057.0	1982.3	1908.7	1853.3	1813.5	1776.1	1773.7
25°	3541.3	2915.5	2329.5	2129.4	2018.4	1931.6	1858.1	1793.0	1748.4	1706.2	1701.3
27.5°	3723.4	2991.5	2315.1	2090.8	1966.6	1872.5	1799.0	1735.1	1689.3	1647.1	1639.8
30°	3917.5	3056.6	2283.7	2040.1	1906.3	1809.8	1737.5	1689.3	1645.9	1603.7	1596.4
32.5°	4124.9	3113.3	2239.1	1978.7	1836.4	1747.1	1694.1	1650.7	1607.3	1569.9	1562.7
35°	4372.1	3150.7	2172.8	1899.1	1771.3	1701.3	1665.2	1614.5	1561.5	1520.5	1516.8
37.5°	4627.7	3179.6	2093.2	1823.1	1714.6	1674.8	1644.7	1575.9	1509.6	1460.2	1454.1
40°	4874.9	3203.7	1994.3	1752.0	1662.7	1655.5	1614.5	1528.9	1414.4	1358.9	1354.1
42.5°	5105.2	3210.9	1890.6	1676.0	1615.7	1612.1	1566.3	1433.6	1345.6	1310.7	1305.8
45°	5263.1	3204.9	1783.3	1604.9	1568.7	1549.4	1501.2	1364.9	1310.7	1279.3	1273.3
47.5°	5380.1	3173.6	1662.7	1530.1	1515.6	1489.1	1385.4	1321.5	1270.9	1239.5	1233.5
50°	*5359.6*	*3043.3*	*1541.0*	*1457.8*	*1451.7*	*1428.8*	*1301.0*	*1267.3*	*1222.6*	*1188.9*	*1184.1*
52.5°	5253.5	2796.2	1416.8	1378.2	1390.2	1345.6	1240.7	1202.1	1163.6	1125.0	1116.5
55°	5280.0	2617.7	1322.7	1301.0	1322.7	1221.4	1173.2	1132.2	1096.0	1058.7	1051.4
57.5°	5395.8	2441.7	1222.6	1217.8	1240.7	1126.2	1086.4	1034.5	982.7	952.6	952.6
60°	4531.2	1779.7	1046.6	1058.7	1110.5	1049.0	1014.0	961.0	904.3	877.8	877.8
62.5°	2679.2	1116.5	868.1	854.9	887.4	926.0	945.3	901.9	834.4	799.4	800.6
65°	1180.4	812.7	765.7	754.8	745.2	771.7	824.7	828.4	757.2	716.2	717.4
67.5°	727.1	735.5	716.2	707.8	699.3	694.5	689.7	692.1	672.8	635.4	634.2
70°	655.9	678.8	665.6	658.3	647.5	639.1	610.1	563.1	530.5	520.9	531.7
72.5°	564.3	595.6	588.4	584.8	571.5	551.0	512.4	466.6	428.0	403.9	408.8
75°	425.6	451.0	454.6	455.8	441.3	422.0	382.2	343.6	309.9	284.6	290.6
77.5°	244.8	259.2	262.9	266.5	255.6	248.4	221.9	194.1	176.0	149.5	156.7
80°	136.3	142.3	142.3	143.5	137.5	129.0	110.9	95.3	86.8	74.8	76.0
82.5°	82.0	84.4	85.6	86.8	83.2	74.8	61.5	50.6	45.8	39.8	38.6
85°	39.8	42.2	42.2	43.4	37.4	32.6	25.3	19.3	16.9	12.1	13.3
87.5°	9.6	10.9	10.9	9.6	8.4	6.0	3.6	1.2	0.0	0.0	0.0
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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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

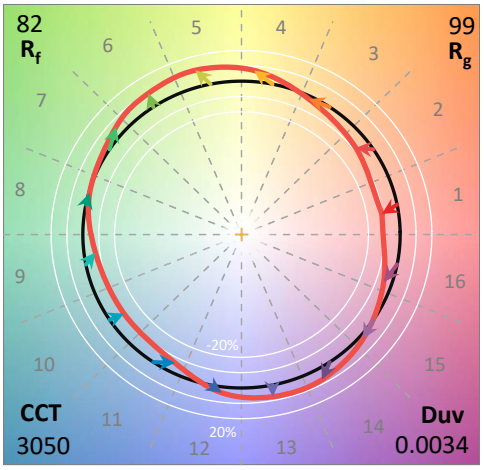
Test Information

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

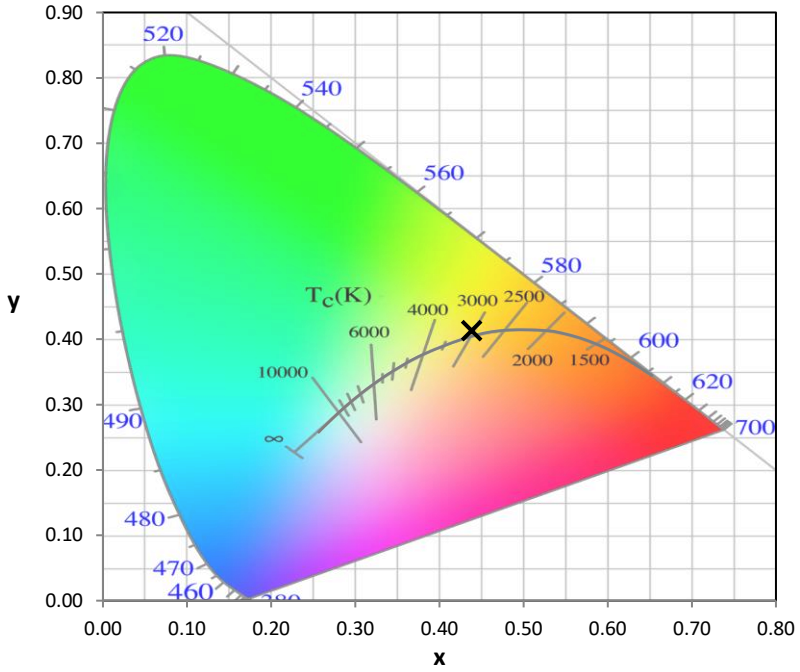
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

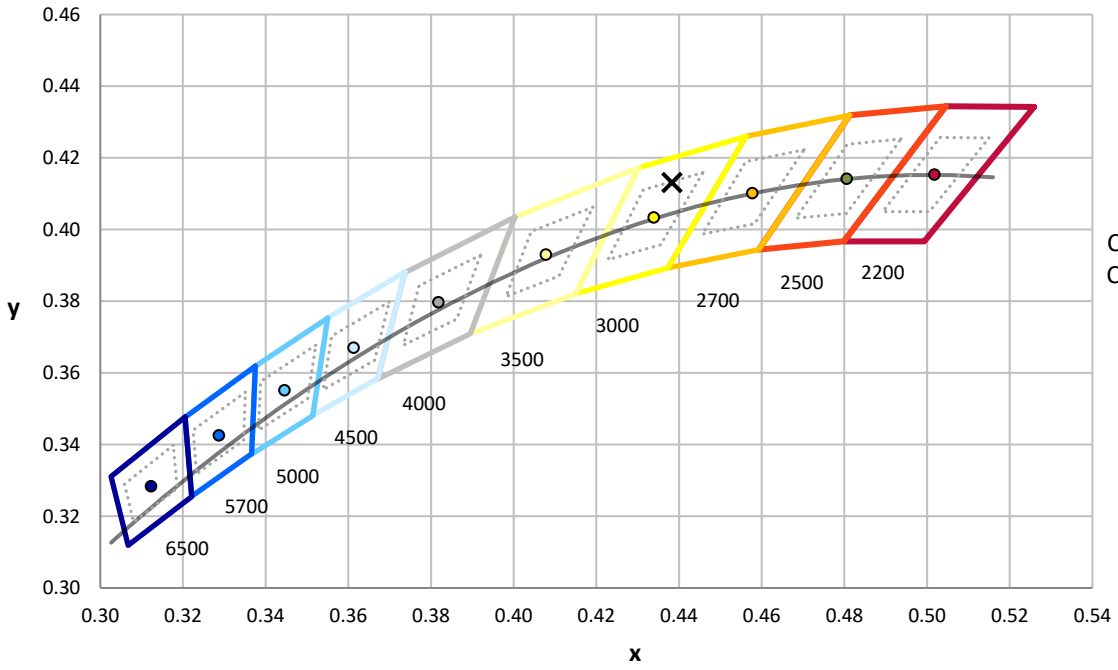
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

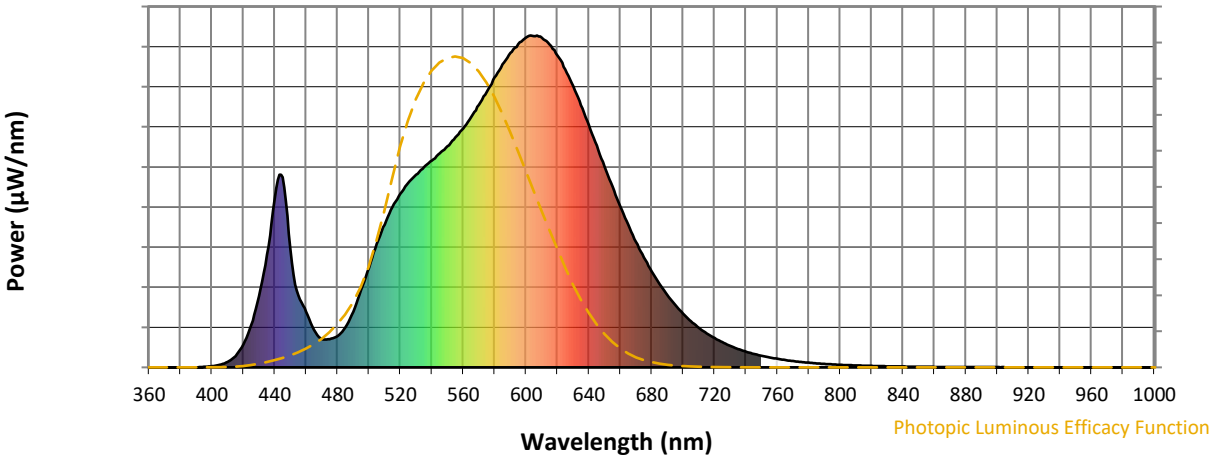


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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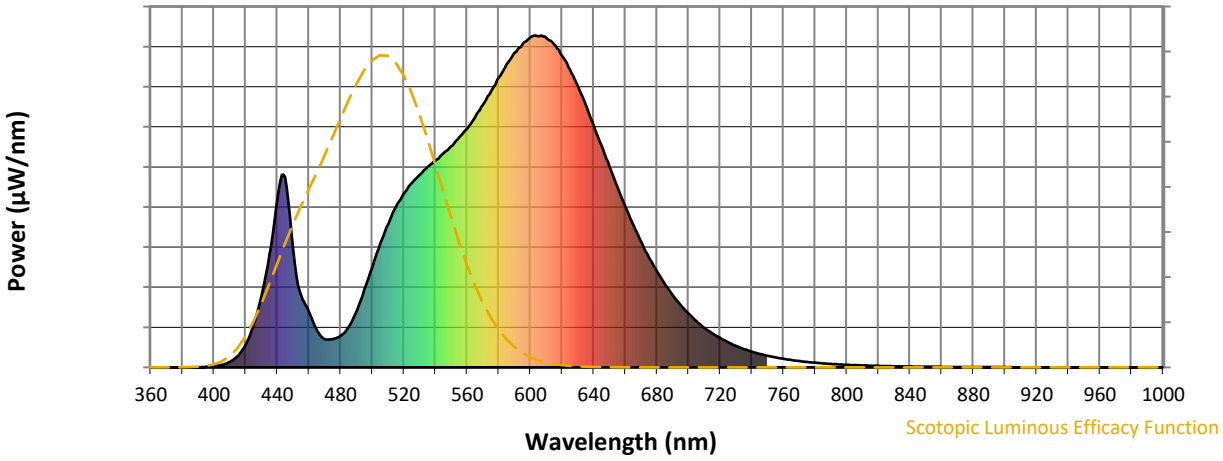
Scotopic Flux vs. Wavelength



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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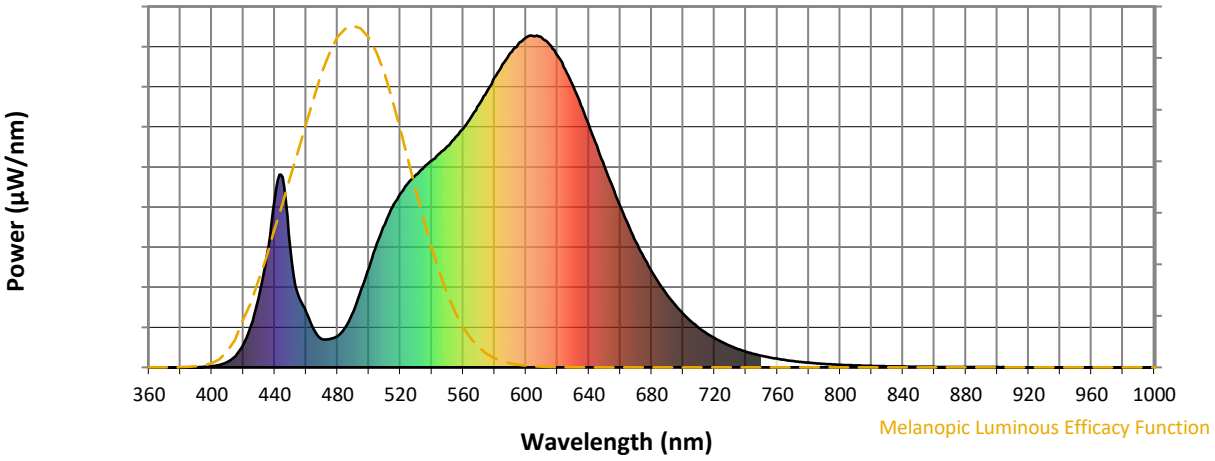
Melanopic Flux vs. Wavelength



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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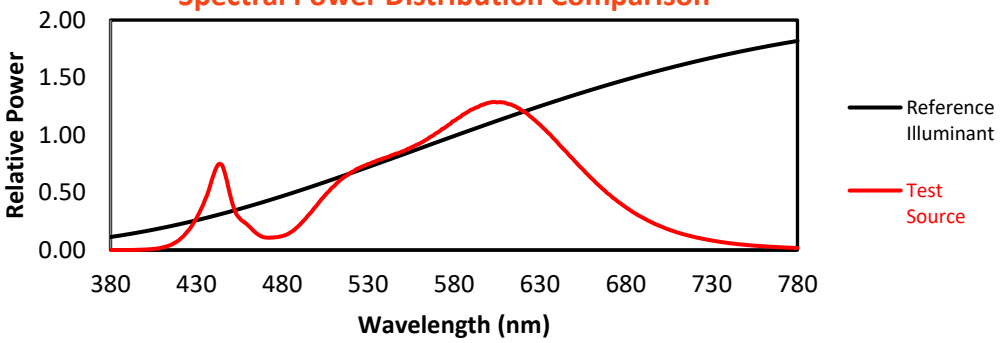
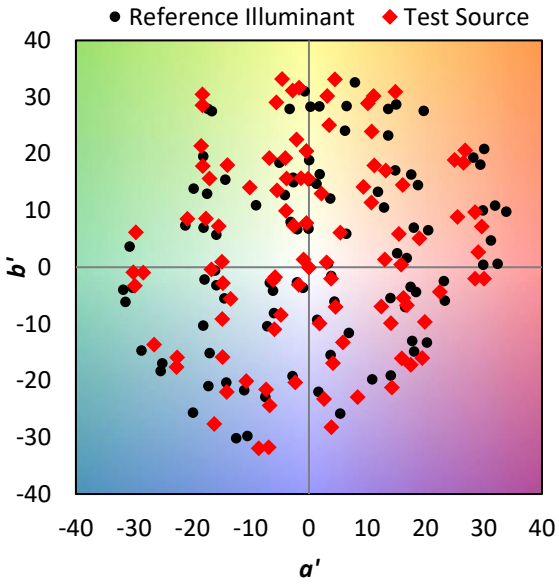
Summary

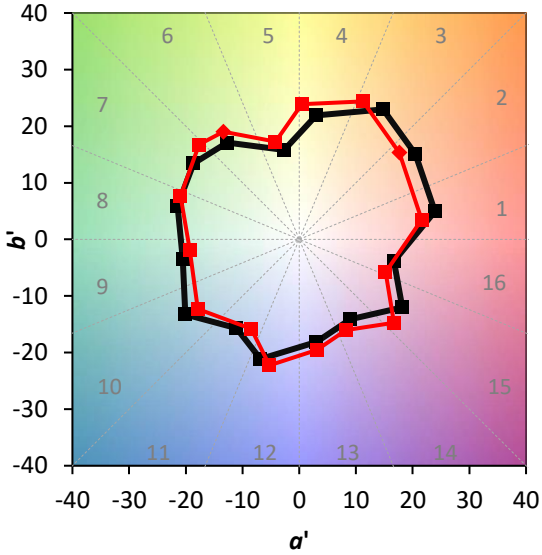
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

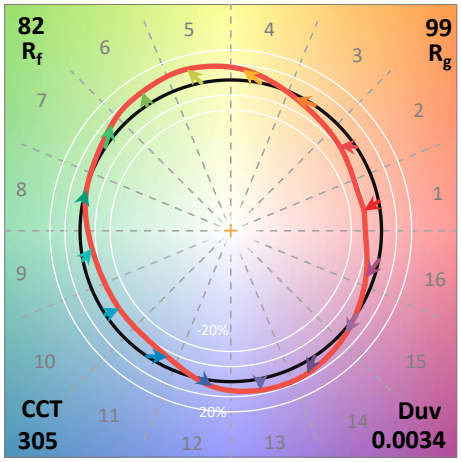
Spectral Power Distribution Comparison

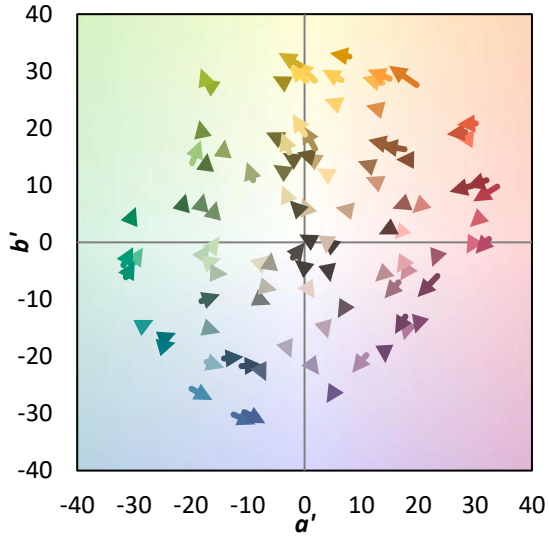


Color Vector Graphics









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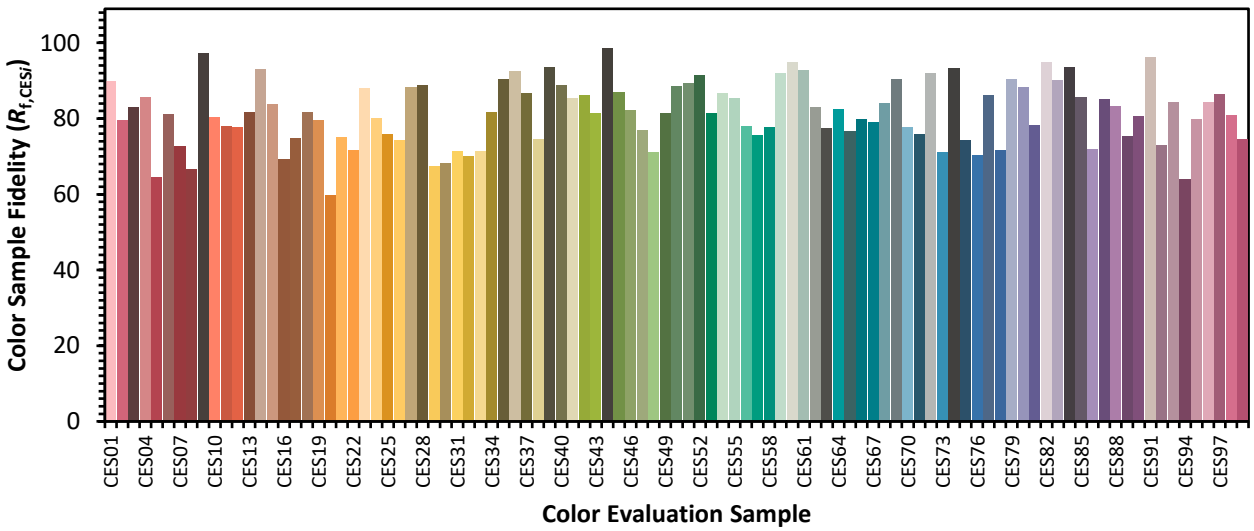
Individual Sample Fidelity Index ($R_{f,i}$)

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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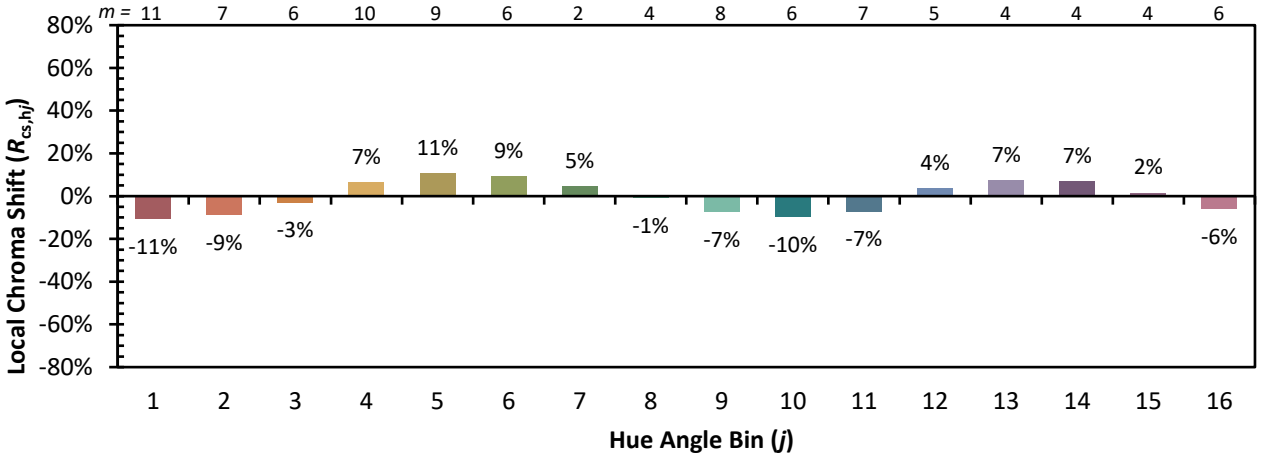
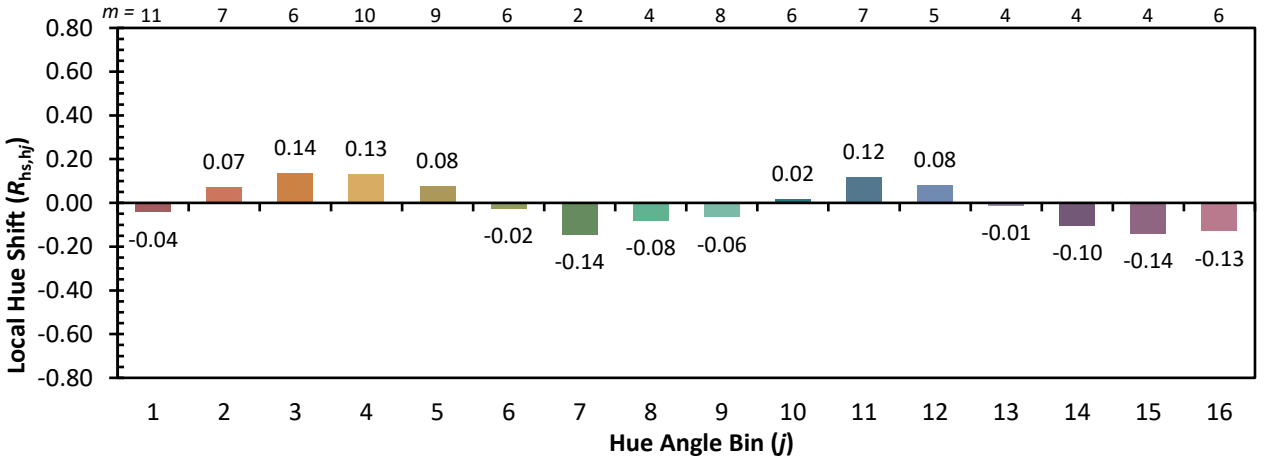
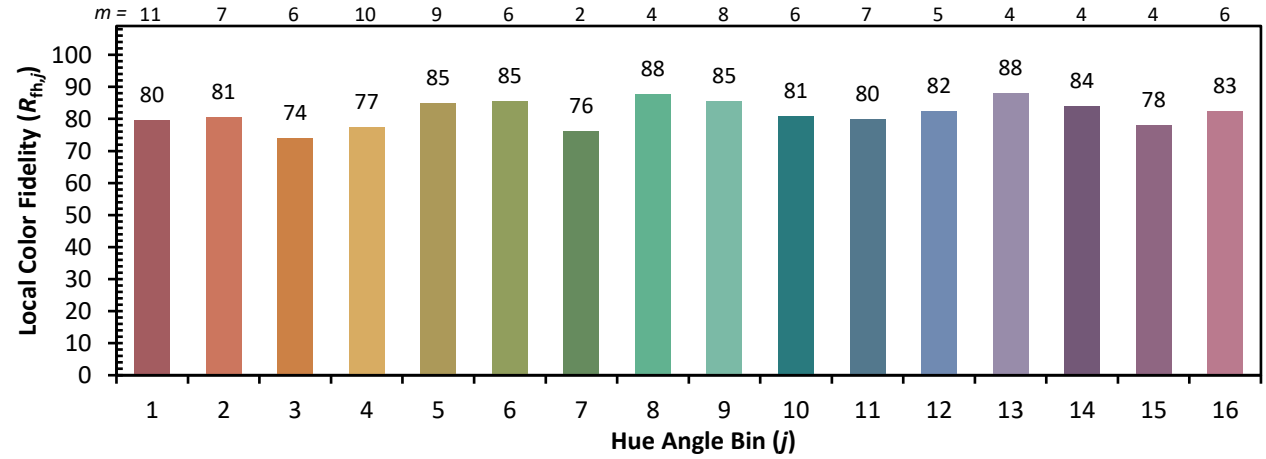
Color Rendition by Hue-Angle Bin







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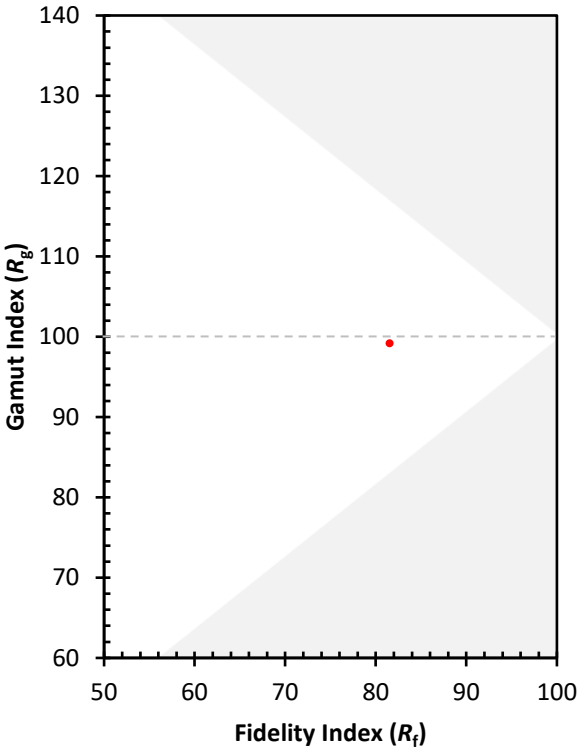
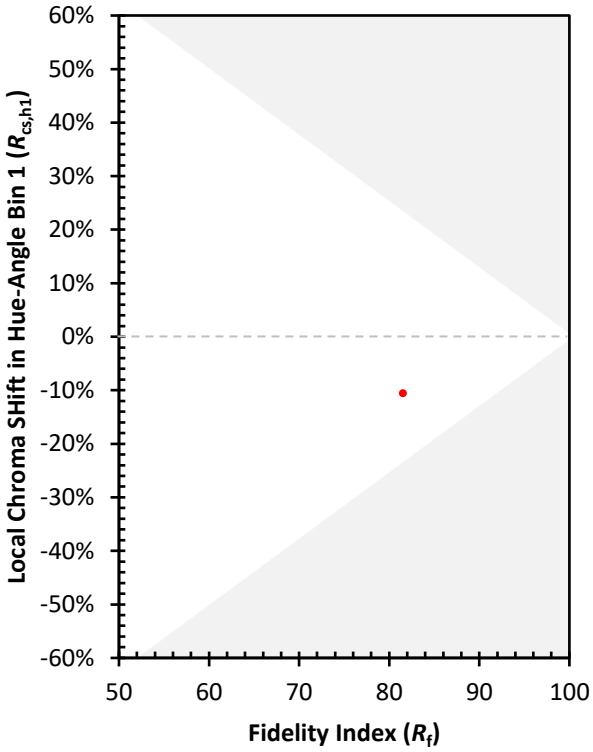
Measure Comparisons





(END OF REPORT)