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: P639948

Luminaire Tested: GWS-SA5C-830-U-AFL-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:	P639948
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17160.9 lumens
Efficiency:	N/A
Efficacy:	109.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G1

Input Watts (W):	157.5
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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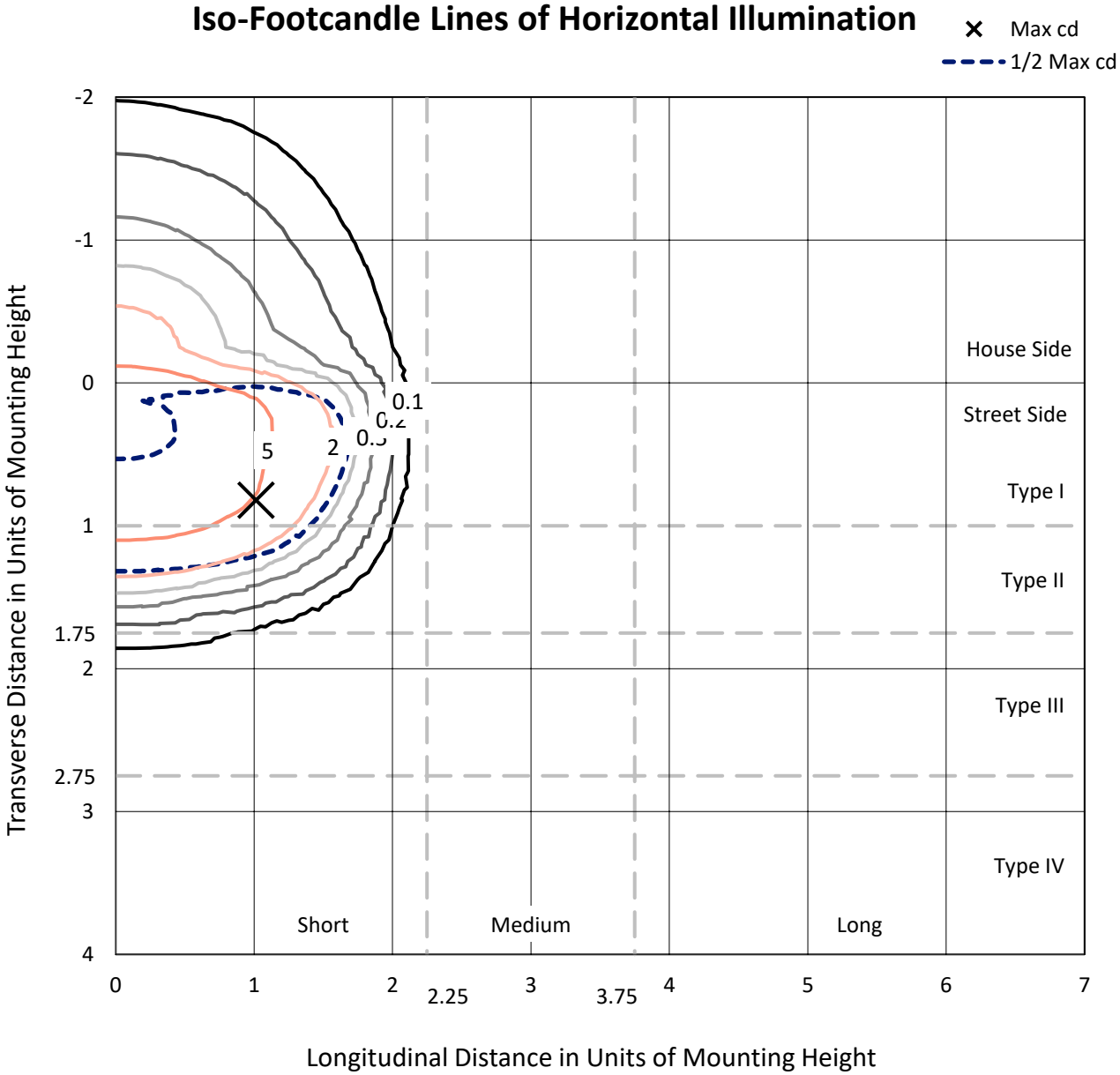
Scaled Data Report

REPORT NUMBER: P639948
CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type II - Short - N/A

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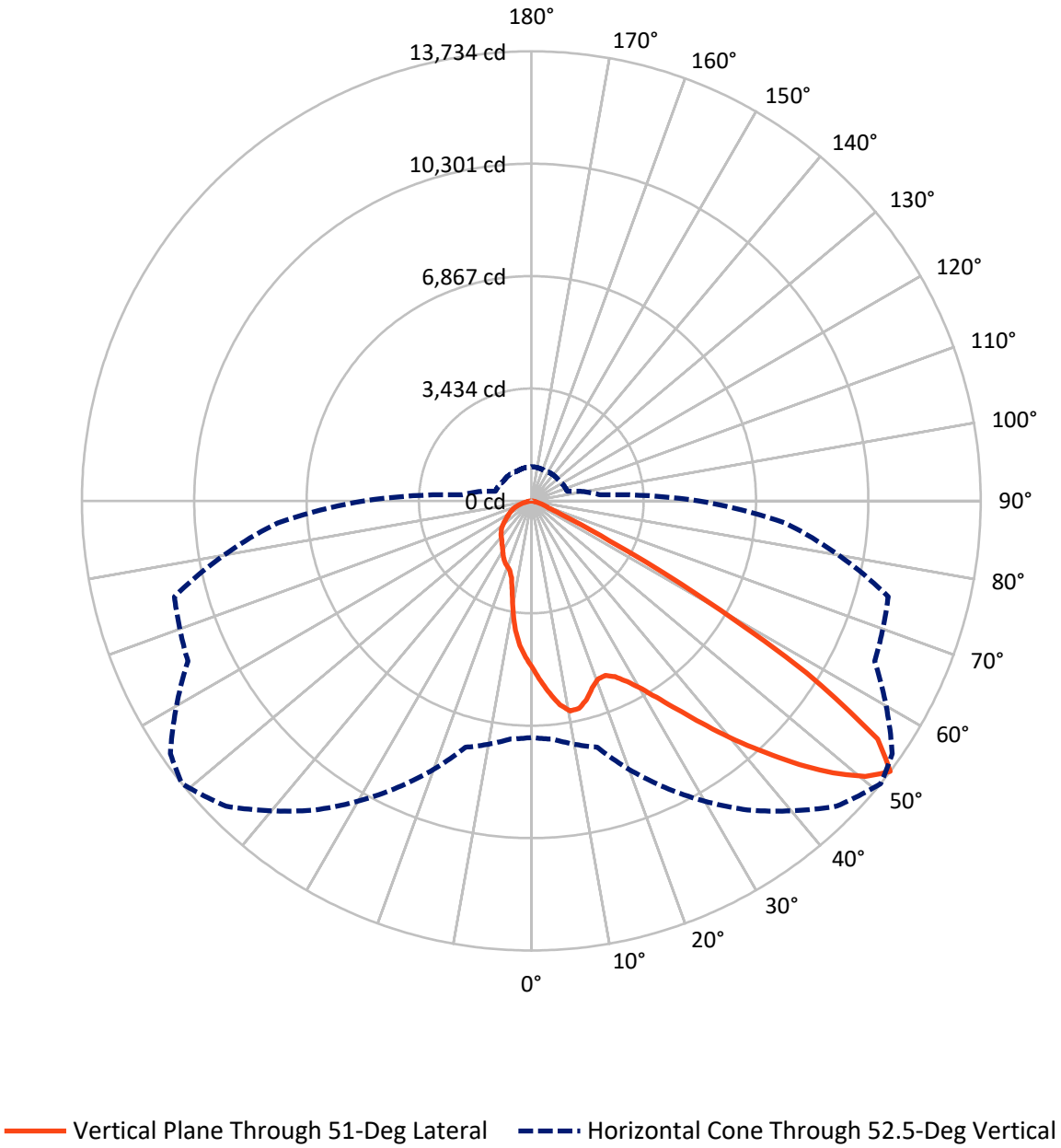
Luminous Intensity Polar Plot



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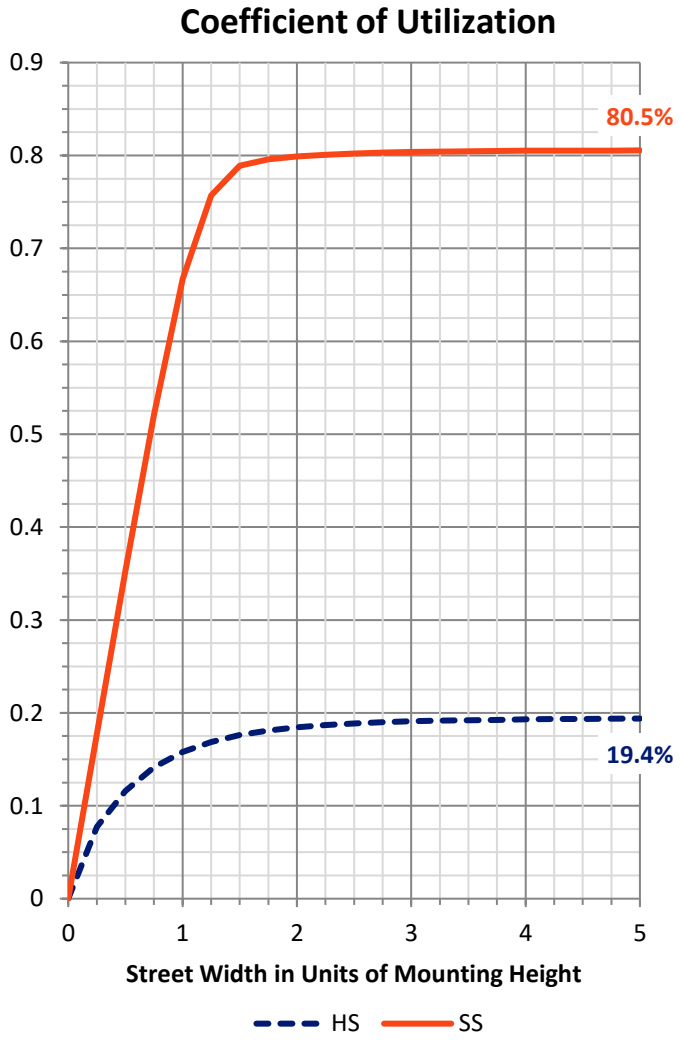
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.7	0.0	3343.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13817.2	0.0	13817.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	17160.9	0.0	17160.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.8	2.8
10°-20°	1238.9	7.2
20°-30°	2014.4	11.7
30°-40°	3192.3	18.6
40°-50°	4814.8	28.1
50°-60°	4165.1	24.3
60°-70°	944.3	5.5
70°-80°	278.4	1.6
80°-90°	35.9	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°	17160.9	100.0
0°-180°	17160.9	100.0



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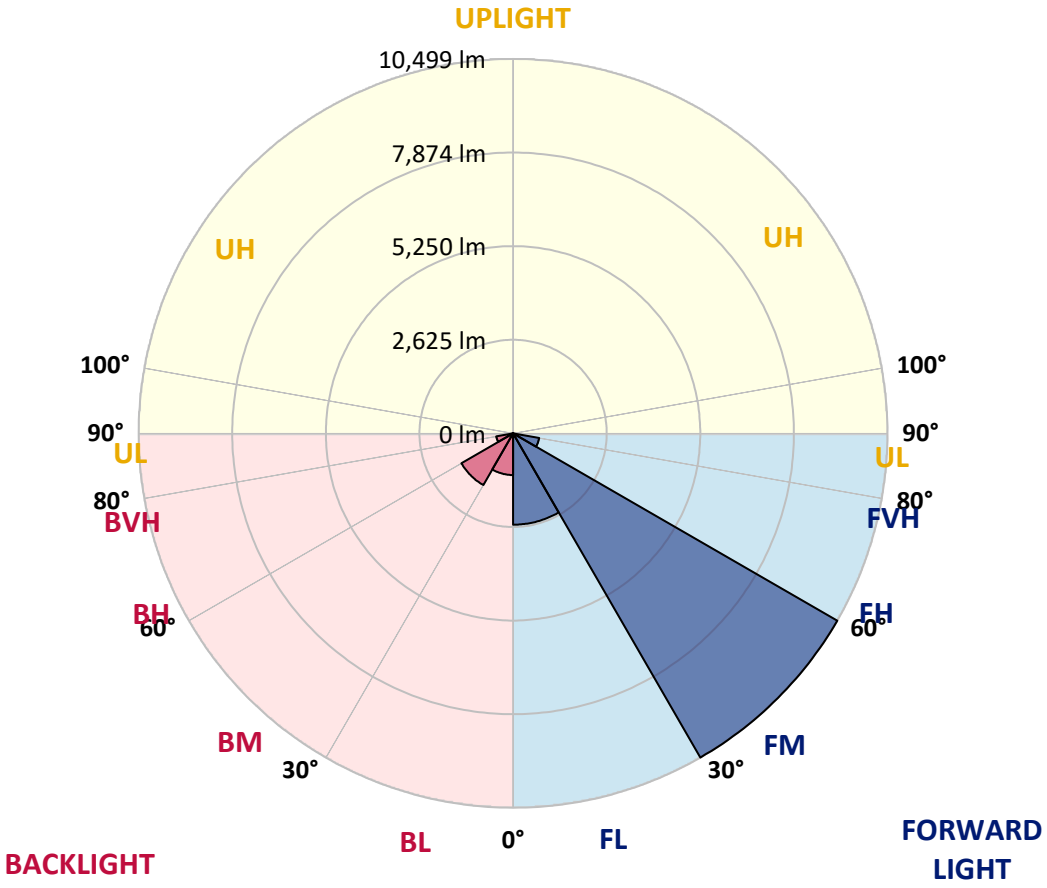
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2561.3	14.9			
FM	(30°-60°)	10499.3	61.2			
FH	(60°-80°)	743.1	4.3			G1/1800
FVH	(80°-90°)	13.5	0.1			G1/100
BL	(0°-30°)	1168.8	6.8	B3/2500		
BM	(30°-60°)	1672.9	9.7	B2/2500		
BH	(60°-80°)	479.6	2.8	B1/500		G1/500
BVH	(80°-90°)	22.4	0.1			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 II Short



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REPORT NUMBER: P639948
CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7
2.5°	5694.1	5726.7	5676.5	5657.5	5626.3	5572.1	5509.7	5492.1	5357.8	5269.7	5170.7
5°	6266.4	6284.0	6243.3	6202.6	6125.3	6029.1	5908.4	5882.6	5638.5	5436.5	5226.3
7.5°	6393.9	6387.1	6422.3	6445.4	6435.9	6397.9	6290.8	6240.6	5949.1	5629.0	5318.5
10°	5889.4	5851.4	5981.6	6136.2	6322.0	6536.2	6524.0	6520.0	6266.4	5888.0	5436.5
12.5°	5220.9	5201.9	5307.6	5501.6	5852.8	6327.4	6505.0	6643.4	6552.5	6134.8	5568.0
15°	4838.4	4831.7	4903.5	5043.2	5322.6	5921.9	6301.6	6575.6	6798.0	6399.3	5707.7
17.5°	4769.3	4773.4	4797.8	4877.8	5078.5	5572.1	6011.4	6393.9	6989.2	6689.5	5882.6
20°	4971.3	4998.5	4956.4	4968.6	5077.1	5446.0	5813.5	6210.8	7111.2	6981.0	6071.1
22.5°	5420.2	5410.7	5318.5	5264.2	5265.6	5523.3	5791.8	6125.3	7191.2	7264.4	6242.0
25°	5928.7	5917.9	5808.0	5687.3	5611.4	5733.4	5947.7	6216.2	7263.1	7523.5	6378.9
27.5°	6529.5	6495.6	6373.5	6218.9	6050.8	6103.7	6248.8	6461.7	7374.3	7778.4	6469.8
30°	7111.2	7150.5	6975.6	6792.5	6614.9	6582.3	6666.4	6859.0	7600.7	8076.7	6578.3
32.5°	7882.8	7869.3	7675.3	7436.7	7183.1	7158.7	7225.1	7401.4	8007.6	8489.0	6743.7
35°	8817.1	8819.9	8544.6	8221.8	7861.1	7796.0	7907.2	8078.1	8613.7	9047.7	7005.4
37.5°	9788.1	9784.0	9544.0	9177.9	8685.6	8593.4	8720.9	8848.3	9371.8	9808.4	7412.3
40°	10468.8	10495.9	10383.4	10190.8	9724.3	9499.2	9611.8	9699.9	10196.3	10703.4	7947.9
42.5°	10855.3	10896.0	10920.4	11035.7	10790.2	10550.2	10509.5	10555.6	10932.6	11534.7	8451.0
45°	10938.0	10992.3	11169.9	11597.1	11692.0	11624.2	11491.3	11380.1	11481.8	12124.6	8780.5
47.5°	10573.2	10668.2	11047.9	11795.1	12349.7	12562.6	12414.8	12245.3	11799.1	12276.5	8746.6
50°	9127.7	9238.9	10094.6	11391.0	12443.3	13218.9	13232.5	12981.6	11761.2	11838.5	8320.8
52.5°	7226.5	7302.4	7792.0	9656.5	11525.2	13191.8	13734.2	13465.7	11578.1	11290.6	7787.9
55°	4319.1	4441.1	4898.1	6370.8	8978.5	11692.0	12847.4	12977.6	11488.6	10830.9	7424.5
57.5°	1457.8	1517.4	1954.1	2813.8	5291.4	8560.8	9926.4	10455.3	10429.5	10128.5	6715.2
60°	694.3	707.9	796.0	1067.2	2118.2	4473.7	5875.8	6486.1	7042.0	7097.6	4178.0
62.5°	528.9	537.0	581.8	640.1	851.6	1884.9	2693.1	3159.6	3375.2	2896.6	1521.5
65°	442.1	448.9	482.8	519.4	579.0	816.4	1033.3	1192.0	1074.0	836.7	725.5
67.5°	368.8	374.3	400.0	439.4	480.0	546.5	573.6	589.9	618.4	694.3	667.2
70°	288.8	294.3	321.4	355.3	394.6	410.9	436.7	452.9	509.9	607.5	604.8
72.5°	222.4	229.2	244.1	265.8	298.3	314.6	343.1	362.1	394.6	473.3	505.8
75°	162.7	166.8	180.4	187.1	191.2	187.1	215.6	237.3	280.7	310.5	318.7
77.5°	66.4	74.6	71.9	71.9	85.4	103.1	118.0	131.5	161.4	179.0	180.4
80°	27.1	29.8	35.3	39.3	47.5	61.0	70.5	75.9	89.5	100.3	108.5
82.5°	16.3	17.6	20.3	21.7	27.1	35.3	40.7	44.8	55.6	66.4	70.5
85°	8.1	8.1	9.5	10.8	13.6	16.3	19.0	21.7	28.5	35.3	39.3
87.5°	1.4	1.4	1.4	2.7	4.1	5.4	6.8	8.1	9.5	10.8	13.6
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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REPORT NUMBER: P639948
CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7
2.5°	5112.4	5039.1	4953.7	4885.9	4807.3	4748.9	4666.2	4614.7	4565.9	4525.2	4495.4
5°	5117.8	4994.4	4816.7	4659.4	4496.7	4342.1	4183.5	4054.6	3939.4	3843.1	3835.0
7.5°	5149.0	4971.3	4693.3	4418.1	4100.7	3794.3	3487.8	3238.3	3048.4	2949.4	2929.1
10°	5201.9	4968.6	4567.2	4127.9	3586.8	3093.2	2729.8	2539.9	2430.1	2390.7	2377.2
12.5°	5257.5	4961.8	4405.9	3718.3	2967.1	2534.5	2335.1	2312.1	2332.4	2335.1	2333.8
15°	5325.3	4957.8	4202.4	3238.3	2514.1	2275.5	2289.0	2337.9	2385.3	2396.2	2396.2
17.5°	5408.0	4948.3	3925.8	2769.1	2230.7	2225.3	2297.2	2362.3	2407.0	2415.2	2415.2
20°	5494.8	4923.9	3585.4	2386.7	2115.5	2194.1	2271.4	2321.6	2352.8	2363.6	2365.0
22.5°	5554.4	4858.8	3193.5	2103.3	2043.6	2134.4	2190.0	2241.6	2241.6	2214.5	2206.3
25°	5566.7	4719.1	2769.1	1909.3	1958.2	2042.2	2099.2	2069.4	2013.8	1992.1	1990.7
27.5°	5521.9	4515.7	2350.1	1771.0	1855.1	1939.2	1929.7	1886.3	1861.9	1840.2	1848.3
30°	5467.7	4271.6	1986.6	1657.1	1735.8	1818.5	1785.9	1771.0	1753.4	1729.0	1734.4
32.5°	5431.0	3999.0	1707.3	1569.0	1655.8	1669.3	1692.4	1691.0	1674.7	1628.6	1625.9
35°	5441.9	3723.8	1520.1	1497.1	1589.3	1583.9	1627.3	1619.1	1506.6	1442.9	1438.8
37.5°	5528.7	3459.3	1410.3	1440.1	1483.5	1517.4	1555.4	1457.8	1418.4	1377.8	1380.5
40°	5694.1	3213.9	1350.6	1409.0	1419.8	1470.0	1381.8	1380.5	1362.8	1326.2	1324.9
42.5°	5881.3	3006.4	1310.0	1394.0	1379.1	1388.6	1295.0	1305.9	1304.5	1281.5	1274.7
45°	5995.2	2815.2	1277.4	1338.4	1342.5	1247.6	1219.1	1231.3	1238.1	1225.9	1224.5
47.5°	5877.2	2595.5	1243.5	1253.0	1288.3	1183.8	1148.6	1149.9	1162.1	1163.5	1158.1
50°	5546.3	2350.1	1202.8	1179.8	1156.7	1117.4	1084.9	1078.1	1090.3	1102.5	1106.5
52.5°	*5119.1*	*2115.5*	*1135.0*	*1099.8*	*1045.5*	*1045.5*	*1030.6*	*1008.9*	*1025.2*	*1041.5*	*1046.9*
55°	4805.9	1941.9	1038.7	999.4	939.8	960.1	957.4	938.4	960.1	972.3	976.4
57.5°	4164.5	1560.8	914.0	901.8	851.6	876.0	881.4	857.0	846.2	848.9	853.0
60°	2472.1	1007.6	824.5	823.1	778.4	806.9	823.1	798.7	766.2	770.2	775.7
62.5°	1109.3	770.2	711.9	706.5	705.2	741.8	759.4	736.3	690.2	694.3	699.7
65°	698.4	665.8	618.4	618.4	640.1	671.3	684.8	665.8	612.9	606.2	611.6
67.5°	648.2	619.7	570.9	561.4	572.3	598.0	599.4	562.8	531.6	526.2	526.2
70°	581.8	560.1	512.6	493.6	489.5	488.2	484.1	474.6	454.3	448.9	451.6
72.5°	481.4	466.5	436.7	416.3	405.5	404.1	387.8	379.7	362.1	359.4	358.0
75°	318.7	322.7	322.7	320.0	310.5	306.5	288.8	280.7	260.4	252.2	250.9
77.5°	188.5	192.6	198.0	199.3	198.0	198.0	181.7	172.2	151.9	141.0	138.3
80°	115.3	118.0	120.7	124.8	119.3	115.3	100.3	90.9	81.4	74.6	73.2
82.5°	74.6	77.3	78.7	81.4	78.7	73.2	61.0	55.6	48.8	43.4	42.0
85°	42.0	43.4	46.1	46.1	42.0	38.0	31.2	27.1	23.1	20.3	20.3
87.5°	14.9	14.9	14.9	16.3	13.6	12.2	8.1	5.4	4.1	4.1	4.1
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

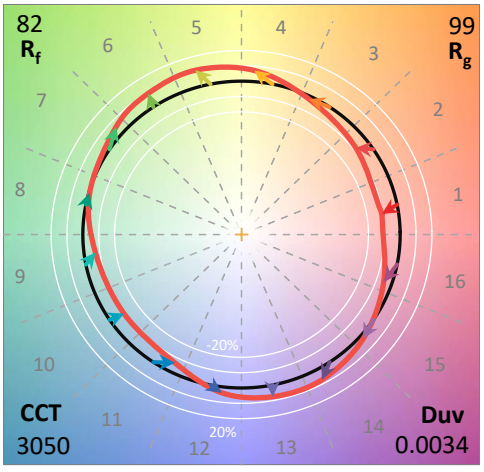
Test Information

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

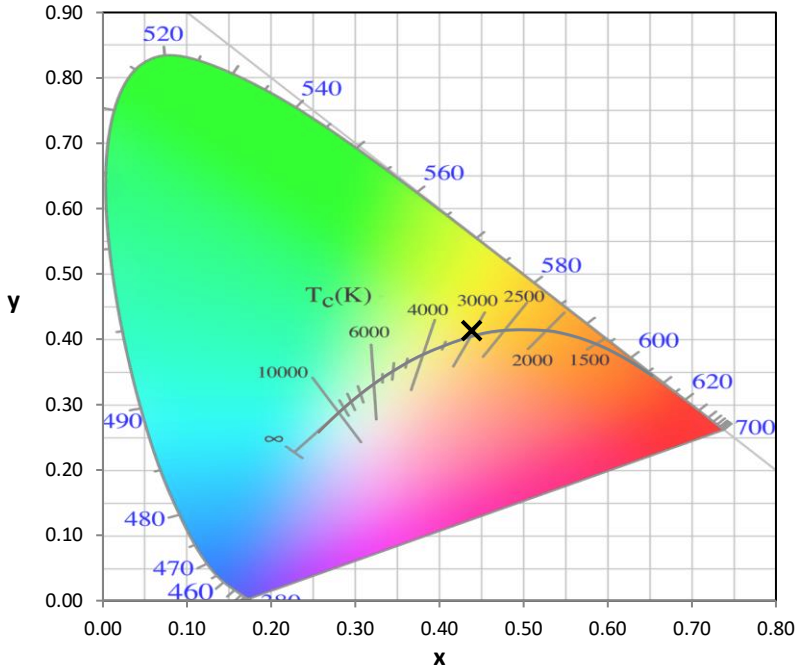
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

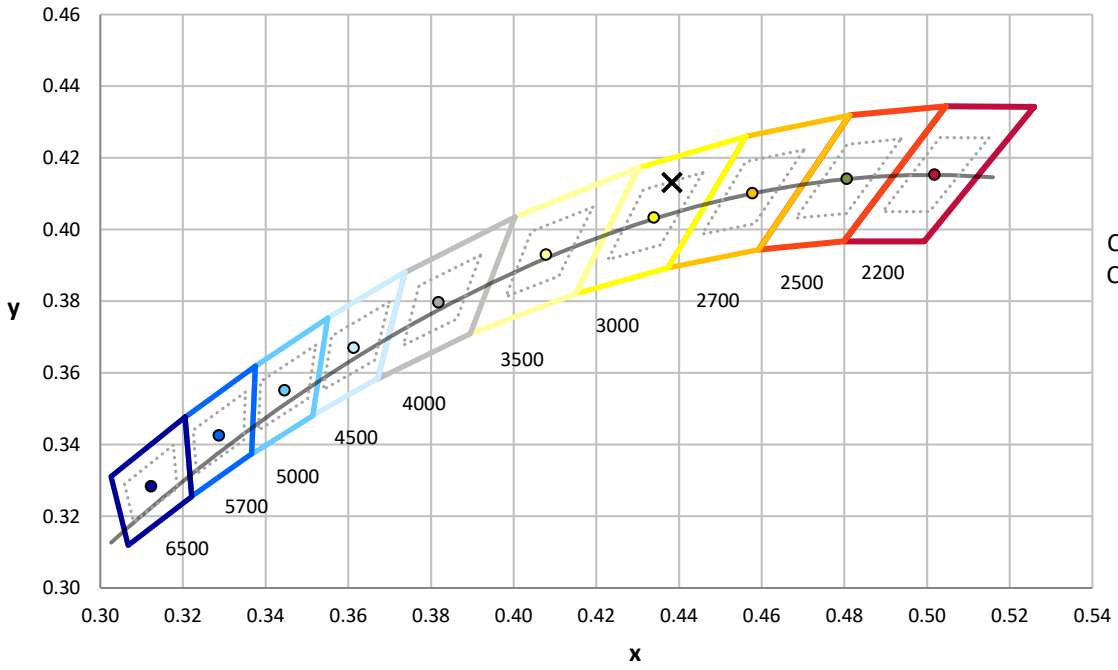
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

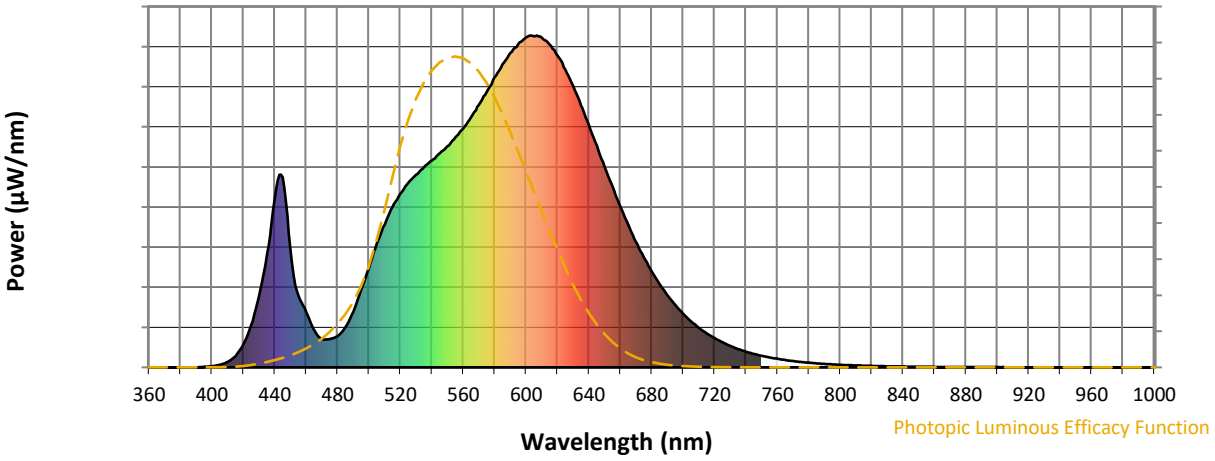


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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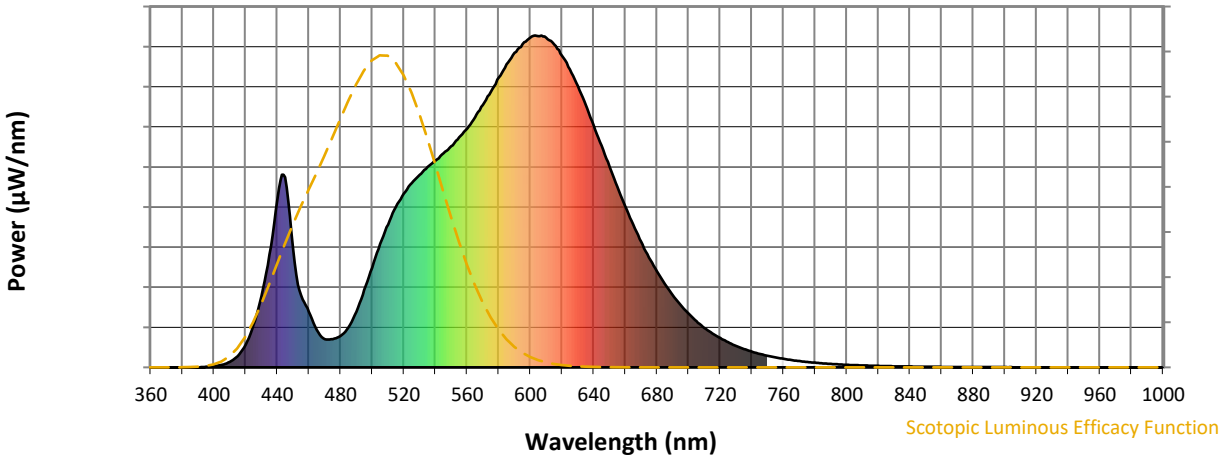
Scotopic Flux vs. Wavelength



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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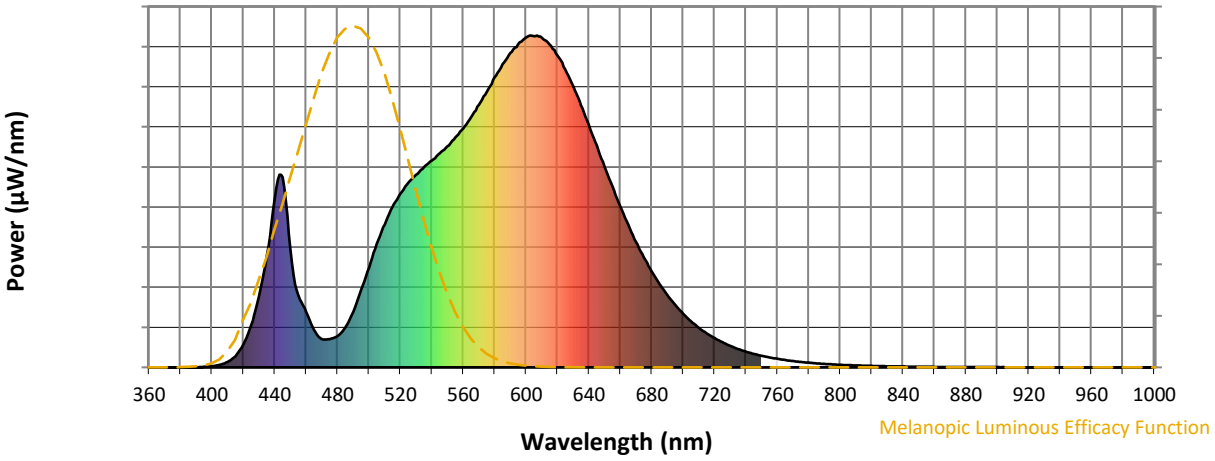
Melanopic Flux vs. Wavelength



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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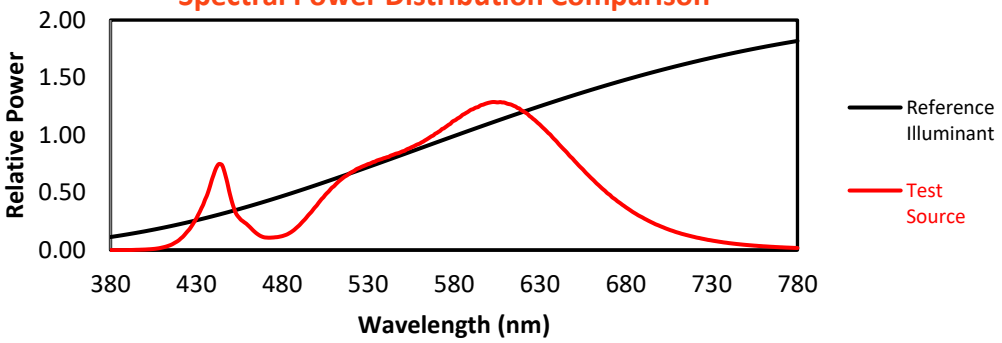
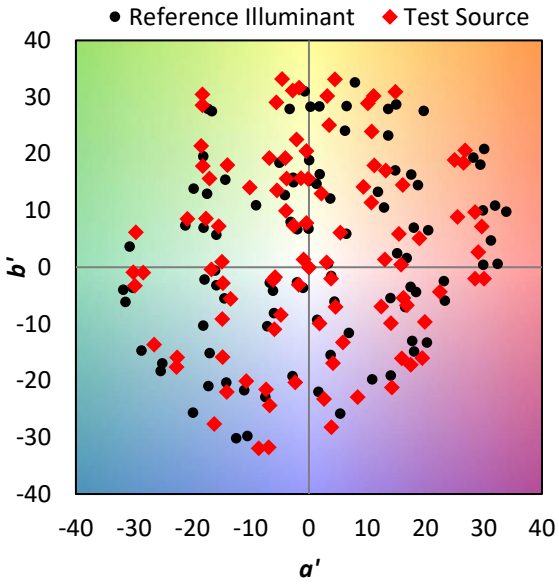
Summary

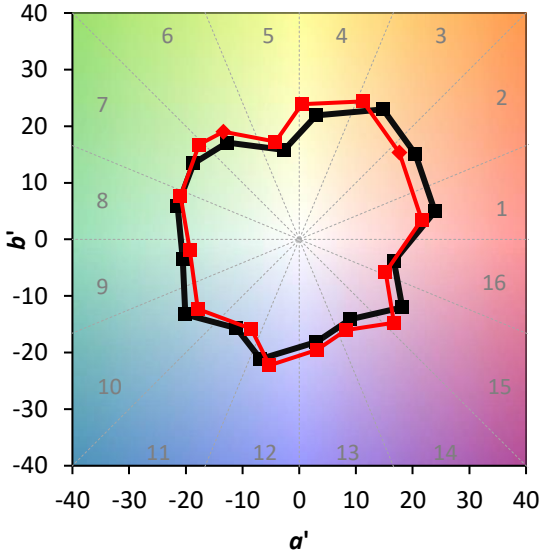
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

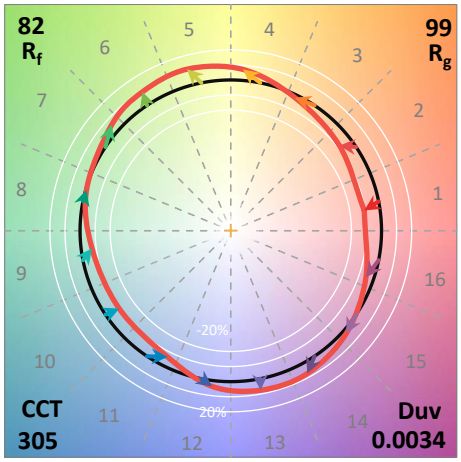
Spectral Power Distribution Comparison

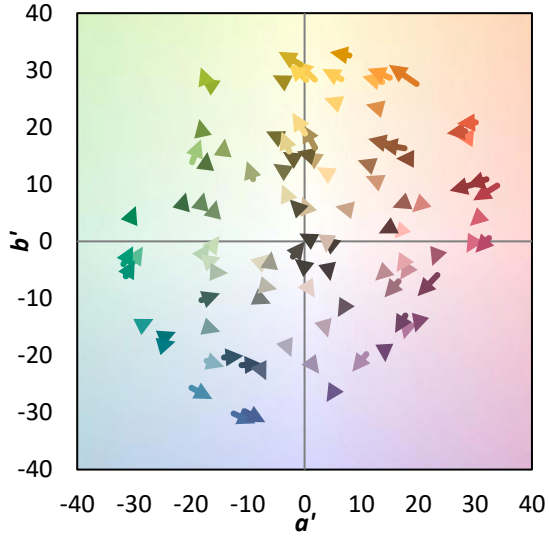


Color Vector Graphics









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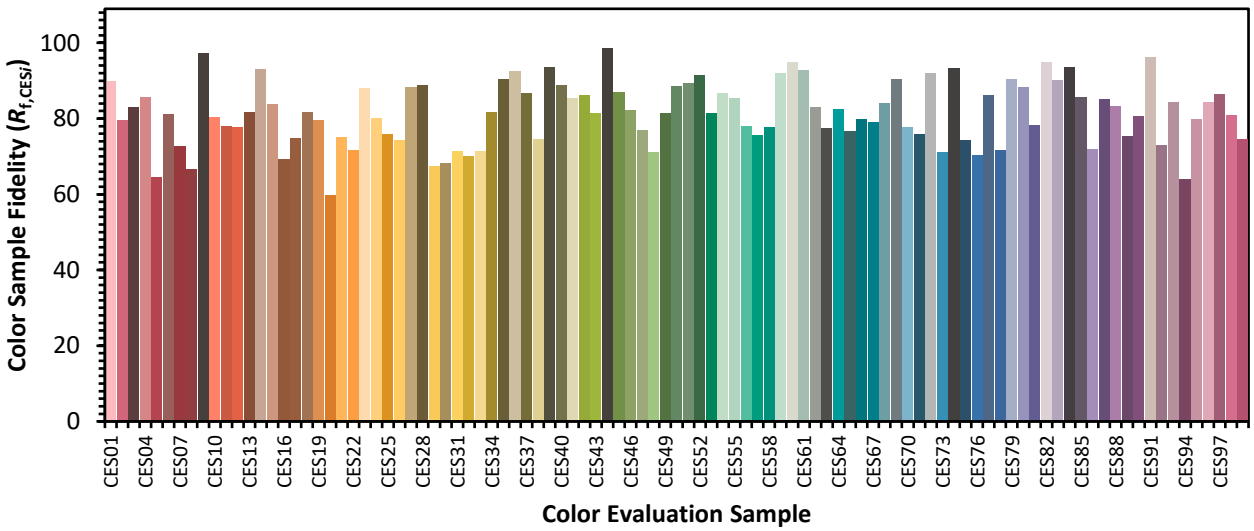
Individual Sample Fidelity Index ($R_{f,i}$)

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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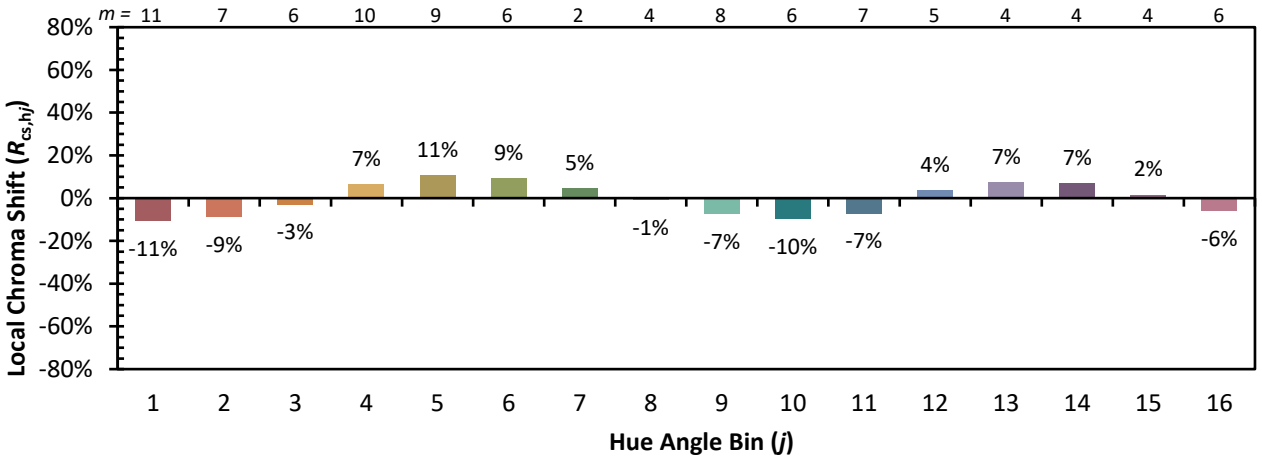
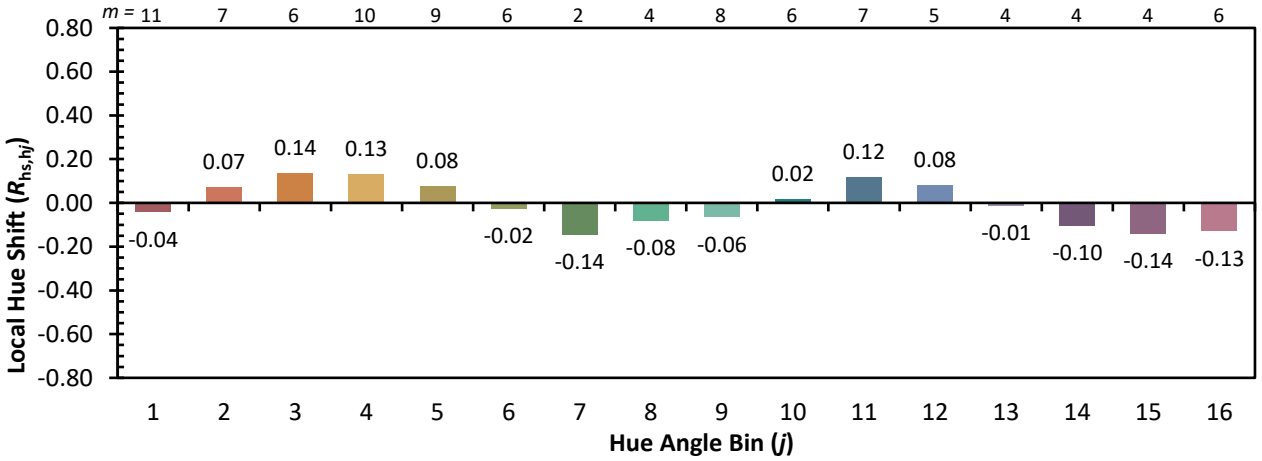
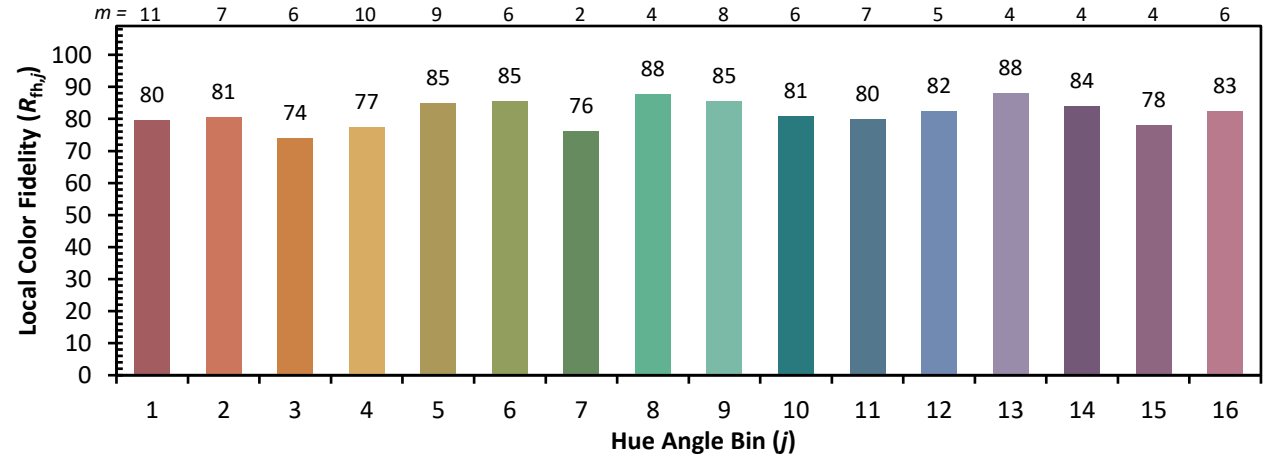
Color Rendition by Hue-Angle Bin







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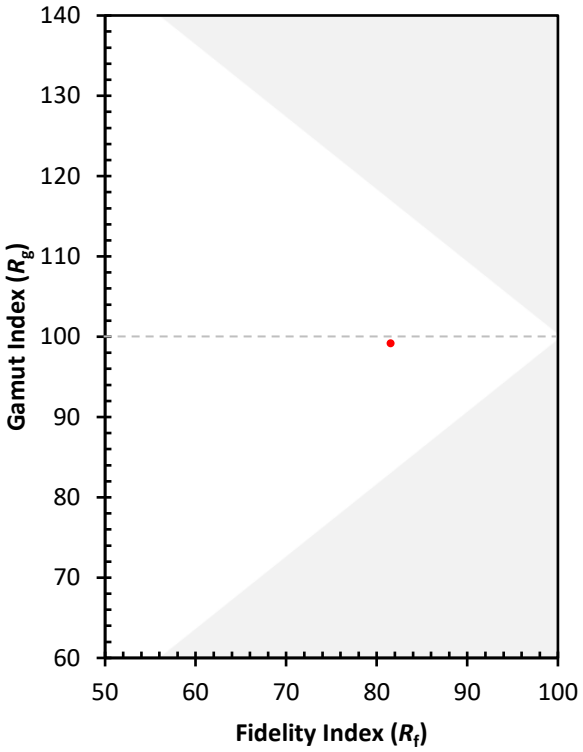
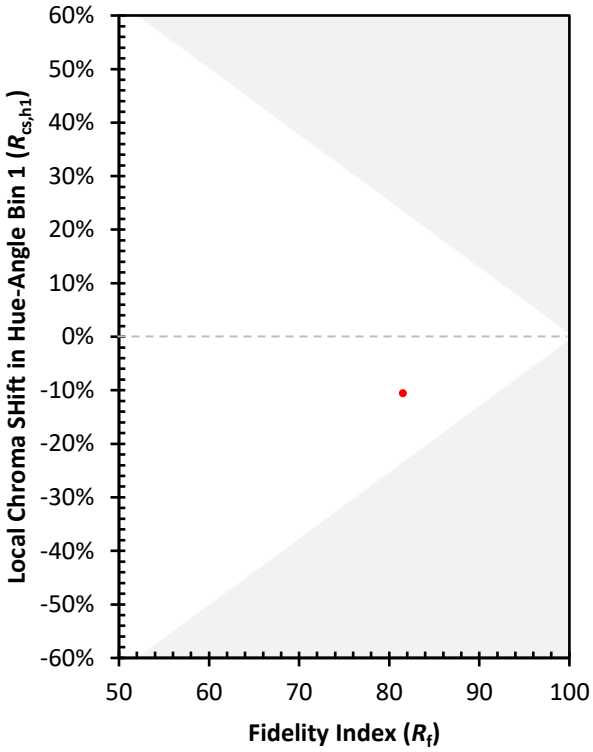
Measure Comparisons





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