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: P642423

Luminaire Tested: GWS-SA6C-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:	P642423
	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-SA6C-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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:	20463.2 lumens
Efficiency:	N/A
Efficacy:	108.2 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	189.2
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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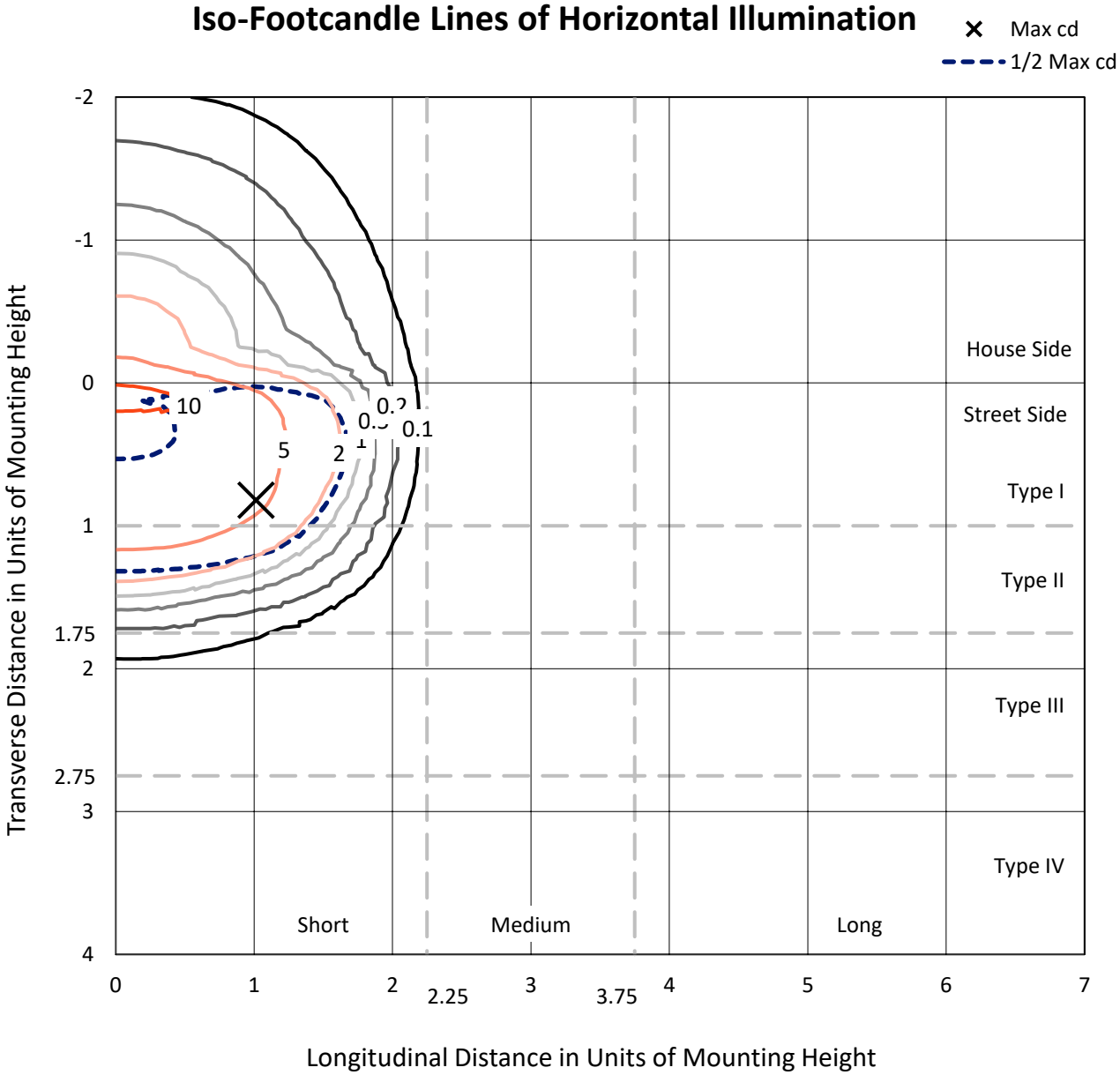
Scaled Data Report

REPORT NUMBER: P642423
CATALOG NUMBER: GWS-SA6C-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - N/A

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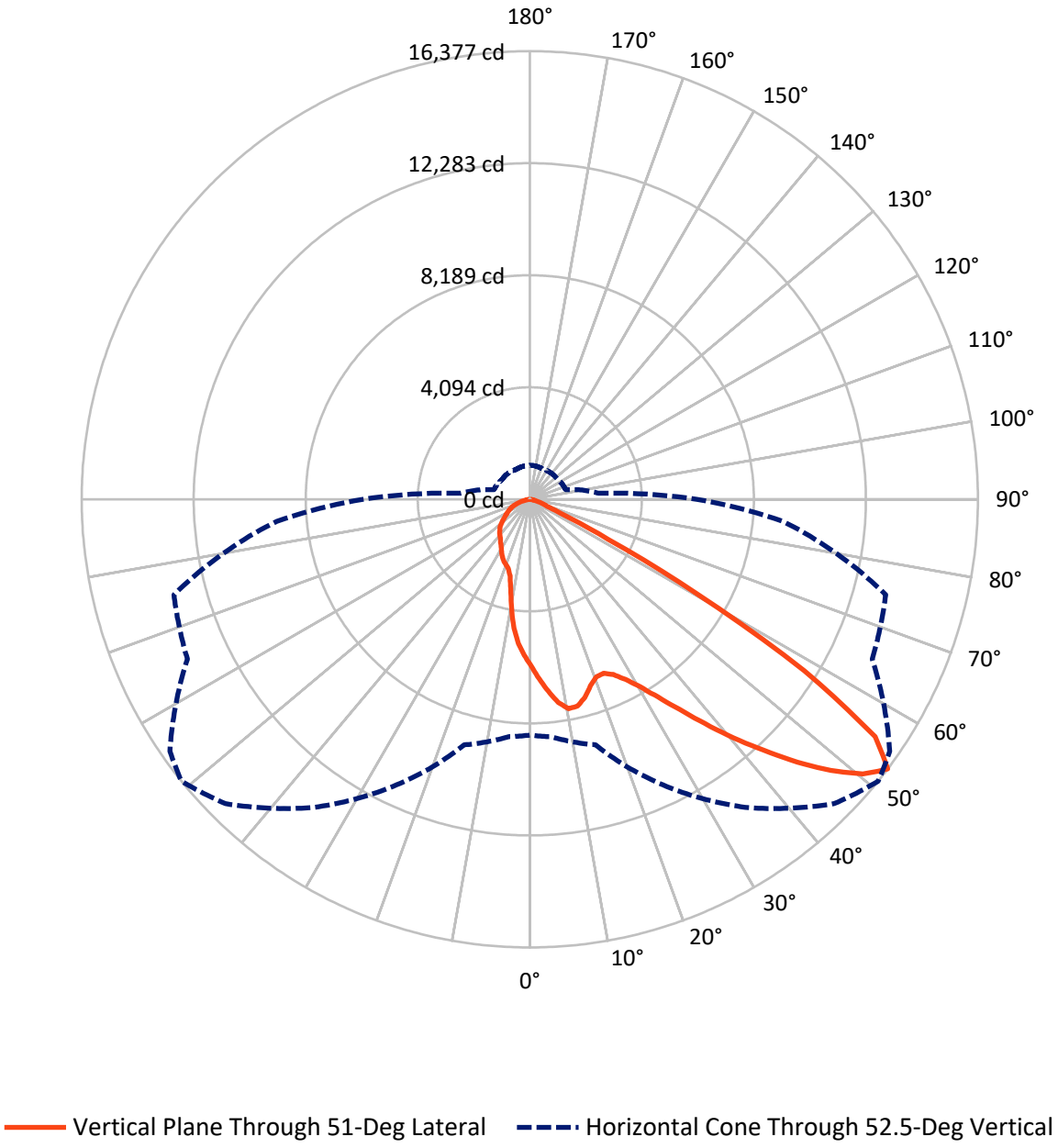
Luminous Intensity Polar Plot



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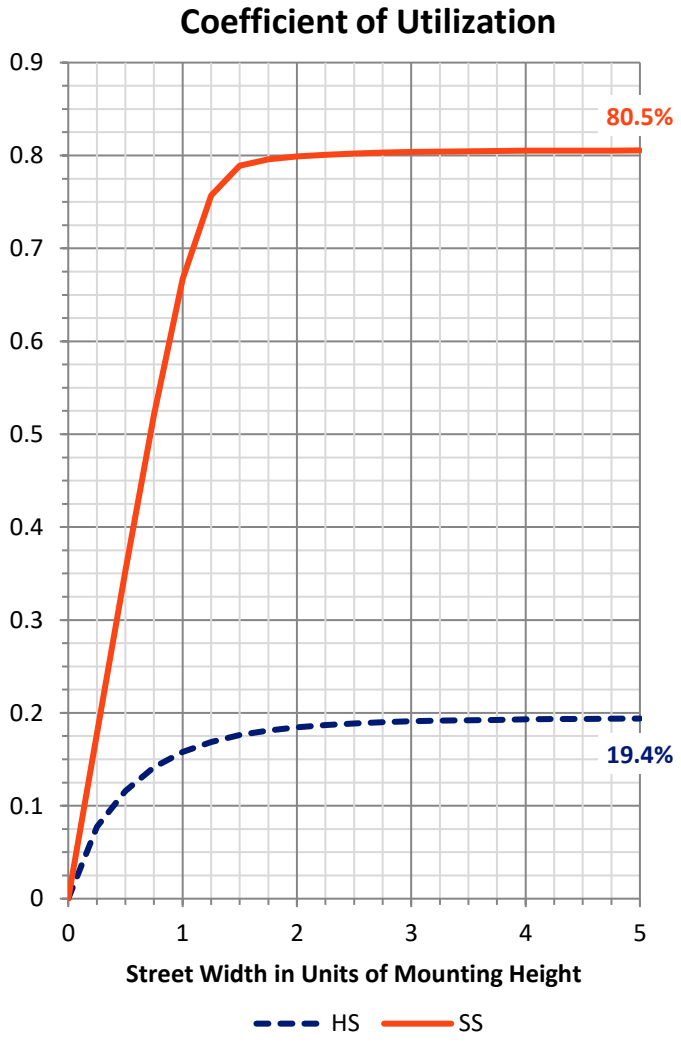
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3987.1	0.0	3987.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16476.1	0.0	16476.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	20463.2	0.0	20463.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.6	2.8
10°-20°	1477.3	7.2
20°-30°	2402.0	11.7
30°-40°	3806.7	18.6
40°-50°	5741.3	28.1
50°-60°	4966.6	24.3
60°-70°	1126.0	5.5
70°-80°	332.0	1.6
80°-90°	42.8	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°	20463.2	100.0
0°-180°	20463.2	100.0



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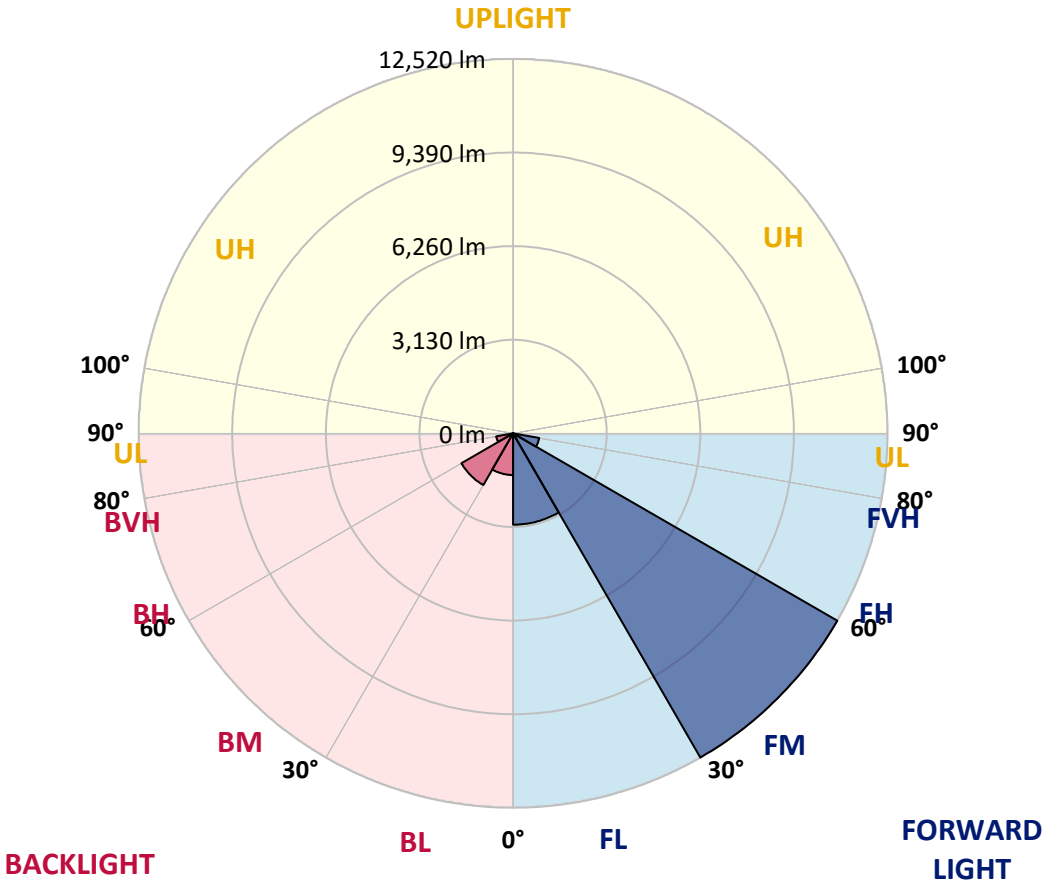
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3054.2	14.9			
FM	(30°-60°)	12519.7	61.2			
FH	(60°-80°)	886.1	4.3			G1/1800
FVH	(80°-90°)	16.1	0.1			G1/100
BL	(0°-30°)	1393.7	6.8	B3/2500		
BM	(30°-60°)	1994.9	9.7	B2/2500		
BH	(60°-80°)	571.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	26.7	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-G2
Type II Short



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REPORT NUMBER: P642423
CATALOG NUMBER: GWS-SA6C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9
2.5°	6789.8	6828.7	6768.8	6746.2	6709.0	6644.3	6569.9	6548.9	6388.8	6283.7	6165.7
5°	7472.2	7493.3	7444.7	7396.2	7304.1	7189.3	7045.3	7014.6	6723.6	6482.6	6232.0
7.5°	7624.2	7616.1	7658.2	7685.7	7674.4	7629.1	7501.3	7441.5	7093.8	6712.2	6341.9
10°	7022.7	6977.4	7132.7	7317.0	7538.5	7794.0	7779.5	7774.6	7472.2	7021.1	6482.6
12.5°	6225.5	6202.9	6329.0	6560.2	6979.0	7545.0	7756.8	7921.8	7813.4	7315.4	6639.5
15°	5769.5	5761.4	5847.1	6013.7	6346.8	7061.5	7514.3	7840.9	8106.1	7630.7	6806.0
17.5°	5687.0	5691.9	5721.0	5816.4	6055.7	6644.3	7168.2	7624.2	8334.1	7976.7	7014.6
20°	5928.0	5960.3	5910.2	5924.7	6054.1	6493.9	6932.1	7405.9	8479.6	8324.4	7239.4
22.5°	6463.2	6451.9	6341.9	6277.3	6278.9	6586.1	6906.3	7304.1	8575.0	8662.4	7443.1
25°	7069.6	7056.7	6925.7	6781.8	6691.2	6836.7	7092.2	7412.4	8660.7	8971.2	7606.4
27.5°	7785.9	7745.5	7600.0	7415.6	7215.1	7278.2	7451.2	7705.1	8793.3	9275.2	7714.8
30°	8479.6	8526.5	8317.9	8099.6	7887.8	7849.0	7949.2	8178.9	9063.4	9630.9	7844.1
32.5°	9399.7	9383.5	9152.3	8867.7	8565.3	8536.2	8615.5	8825.7	9548.5	10122.5	8041.4
35°	10513.8	10517.1	10188.8	9804.0	9373.8	9296.2	9428.8	9632.6	10271.3	10788.7	8353.5
37.5°	11671.6	11666.8	11380.6	10944.0	10357.0	10247.0	10399.0	10551.0	11175.2	11695.9	8838.6
40°	12483.4	12515.7	12381.5	12151.9	11595.6	11327.2	11461.4	11566.5	12158.3	12763.1	9477.3
42.5°	12944.2	12992.7	13021.8	13159.3	12866.6	12580.4	12531.9	12586.9	13036.4	13754.3	10077.2
45°	13042.8	13107.5	13319.4	13828.7	13941.9	13861.1	13702.6	13570.0	13691.3	14457.7	10470.2
47.5°	12607.9	12721.1	13173.8	14064.8	14726.2	14980.0	14803.8	14601.7	14069.7	14638.8	10429.8
50°	10884.1	11016.7	12037.1	13582.9	14837.7	15762.7	15778.8	15479.7	14024.4	14116.5	9922.0
52.5°	8617.1	8707.6	9291.4	11514.8	13743.0	15730.3	16377.1	16057.0	13806.1	13463.3	9286.5
55°	5150.2	5295.7	5840.7	7596.7	10706.3	13941.9	15319.6	15474.8	13699.4	12915.1	8853.2
57.5°	1738.3	1809.4	2330.1	3355.3	6309.6	10208.2	11836.6	12467.2	12436.5	12077.5	8007.5
60°	827.9	844.1	949.2	1272.6	2525.8	5334.5	7006.5	7734.2	8397.2	8463.5	4982.0
62.5°	630.6	640.3	693.7	763.2	1015.5	2247.7	3211.4	3767.6	4024.8	3453.9	1814.3
65°	527.1	535.2	575.7	619.3	690.5	973.4	1232.2	1421.4	1280.7	997.7	865.1
67.5°	439.8	446.3	477.0	523.9	572.4	651.7	684.0	703.4	737.4	827.9	795.6
70°	344.4	350.9	383.2	423.7	470.6	490.0	520.7	540.1	608.0	724.4	721.2
72.5°	265.2	273.3	291.1	316.9	355.7	375.1	409.1	431.7	470.6	564.3	603.1
75°	194.0	198.9	215.1	223.1	228.0	223.1	257.1	283.0	334.7	370.3	380.0
77.5°	79.2	88.9	85.7	85.7	101.9	122.9	140.7	156.9	192.4	213.4	215.1
80°	32.3	35.6	42.0	46.9	56.6	72.8	84.1	90.6	106.7	119.7	129.4
82.5°	19.4	21.0	24.3	25.9	32.3	42.0	48.5	53.4	66.3	79.2	84.1
85°	9.7	9.7	11.3	12.9	16.2	19.4	22.6	25.9	34.0	42.0	46.9
87.5°	1.6	1.6	1.6	3.2	4.9	6.5	8.1	9.7	11.3	12.9	16.2
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: P642423
CATALOG NUMBER: GWS-SA6C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9
2.5°	6096.1	6008.8	5907.0	5826.1	5732.3	5662.8	5564.2	5502.7	5444.5	5396.0	5360.4
5°	6102.6	5955.5	5743.6	5556.1	5362.0	5177.7	4988.5	4834.9	4697.4	4582.6	4572.9
7.5°	6139.8	5928.0	5596.5	5268.2	4889.9	4524.4	4159.0	3861.4	3635.1	3517.0	3492.8
10°	6202.9	5924.7	5446.1	4922.2	4277.0	3688.4	3255.1	3028.7	2897.7	2850.8	2834.6
12.5°	6269.2	5916.7	5253.7	4433.9	3538.0	3022.2	2784.5	2757.0	2781.3	2784.5	2782.9
15°	6350.0	5911.8	5011.1	3861.4	2997.9	2713.4	2729.5	2787.7	2844.3	2857.3	2857.3
17.5°	6448.7	5900.5	4681.3	3301.9	2660.0	2653.5	2739.2	2816.8	2870.2	2879.9	2879.9
20°	6552.1	5871.4	4275.4	2845.9	2522.5	2616.3	2708.5	2768.3	2805.5	2818.5	2820.1
22.5°	6623.3	5793.8	3808.1	2508.0	2436.8	2545.2	2611.5	2672.9	2672.9	2640.6	2630.9
25°	6637.8	5627.2	3301.9	2276.8	2335.0	2435.2	2503.1	2467.6	2401.3	2375.4	2373.8
27.5°	6584.5	5384.7	2802.3	2111.8	2212.1	2312.3	2301.0	2249.3	2220.2	2194.3	2204.0
30°	6519.8	5093.6	2368.9	1976.0	2069.8	2168.4	2129.6	2111.8	2090.8	2061.7	2068.2
32.5°	6476.1	4768.6	2035.8	1870.9	1974.4	1990.5	2018.0	2016.4	1997.0	1942.0	1938.8
35°	6489.1	4440.3	1812.7	1785.2	1895.1	1888.7	1940.4	1930.7	1796.5	1720.5	1715.7
37.5°	6592.6	4125.0	1681.7	1717.3	1769.0	1809.4	1854.7	1738.3	1691.4	1642.9	1646.1
40°	6789.8	3832.3	1610.5	1680.1	1693.0	1752.8	1647.7	1646.1	1625.1	1581.4	1579.8
42.5°	7013.0	3584.9	1562.0	1662.3	1644.5	1655.8	1544.3	1557.2	1555.6	1528.1	1520.0
45°	7148.8	3356.9	1523.2	1596.0	1600.8	1487.7	1453.7	1468.3	1476.3	1461.8	1460.2
47.5°	7008.1	3095.0	1482.8	1494.1	1536.2	1411.7	1369.6	1371.2	1385.8	1387.4	1380.9
50°	6613.6	2802.3	1434.3	1406.8	1379.3	1332.4	1293.6	1285.5	1300.1	1314.6	1319.5
52.5°	*6104.2*	*2522.5*	*1353.4*	*1311.4*	*1246.7*	*1246.7*	*1228.9*	*1203.1*	*1222.5*	*1241.9*	*1248.3*
55°	5730.7	2315.6	1238.6	1191.7	1120.6	1144.8	1141.6	1119.0	1144.8	1159.4	1164.3
57.5°	4965.9	1861.2	1089.9	1075.3	1015.5	1044.6	1051.1	1022.0	1009.0	1012.3	1017.1
60°	2947.8	1201.4	983.1	981.5	928.2	962.1	981.5	952.4	913.6	918.5	924.9
62.5°	1322.7	918.5	848.9	842.5	840.8	884.5	905.5	878.0	823.1	827.9	834.4
65°	832.8	794.0	737.4	737.4	763.2	800.4	816.6	794.0	730.9	722.8	729.3
67.5°	772.9	739.0	680.8	669.4	682.4	713.1	714.7	671.1	633.9	627.4	627.4
70°	693.7	667.8	611.2	588.6	583.7	582.1	577.3	566.0	541.7	535.2	538.5
72.5°	574.0	556.3	520.7	496.4	483.5	481.9	462.5	452.8	431.7	428.5	426.9
75°	380.0	384.8	384.8	381.6	370.3	365.4	344.4	334.7	310.5	300.8	299.1
77.5°	224.8	229.6	236.1	237.7	236.1	236.1	216.7	205.4	181.1	168.2	164.9
80°	137.4	140.7	143.9	148.8	142.3	137.4	119.7	108.3	97.0	88.9	87.3
82.5°	88.9	92.2	93.8	97.0	93.8	87.3	72.8	66.3	58.2	51.7	50.1
85°	50.1	51.7	55.0	55.0	50.1	45.3	37.2	32.3	27.5	24.3	24.3
87.5°	17.8	17.8	17.8	19.4	16.2	14.6	9.7	6.5	4.9	4.9	4.9
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

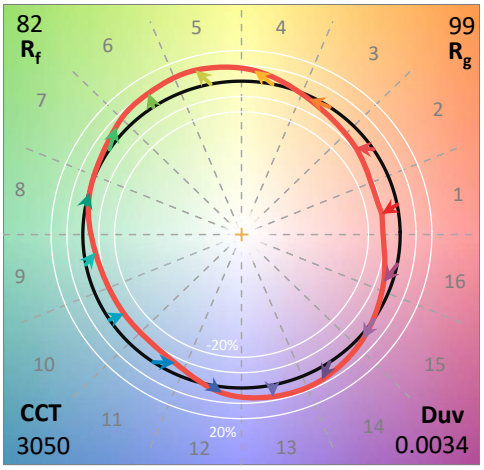
Test Information

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

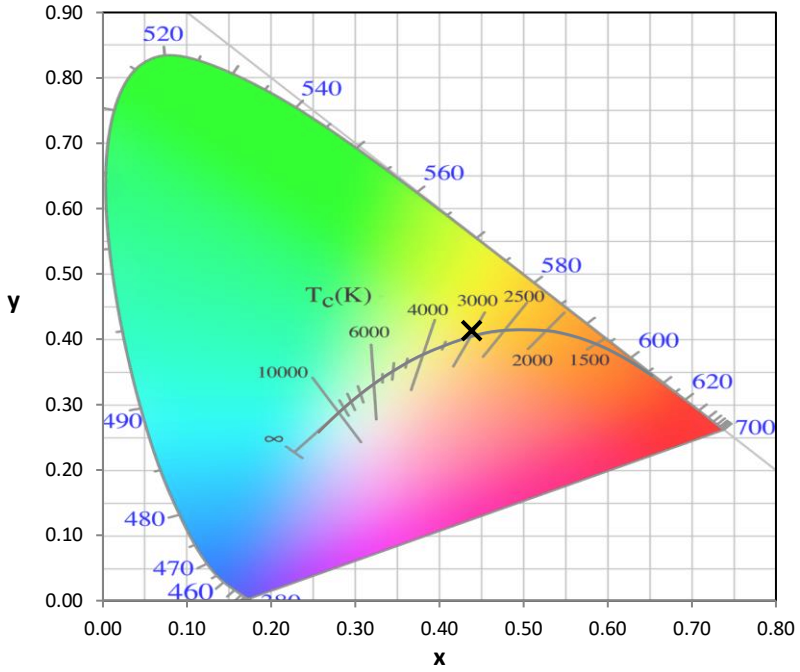
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

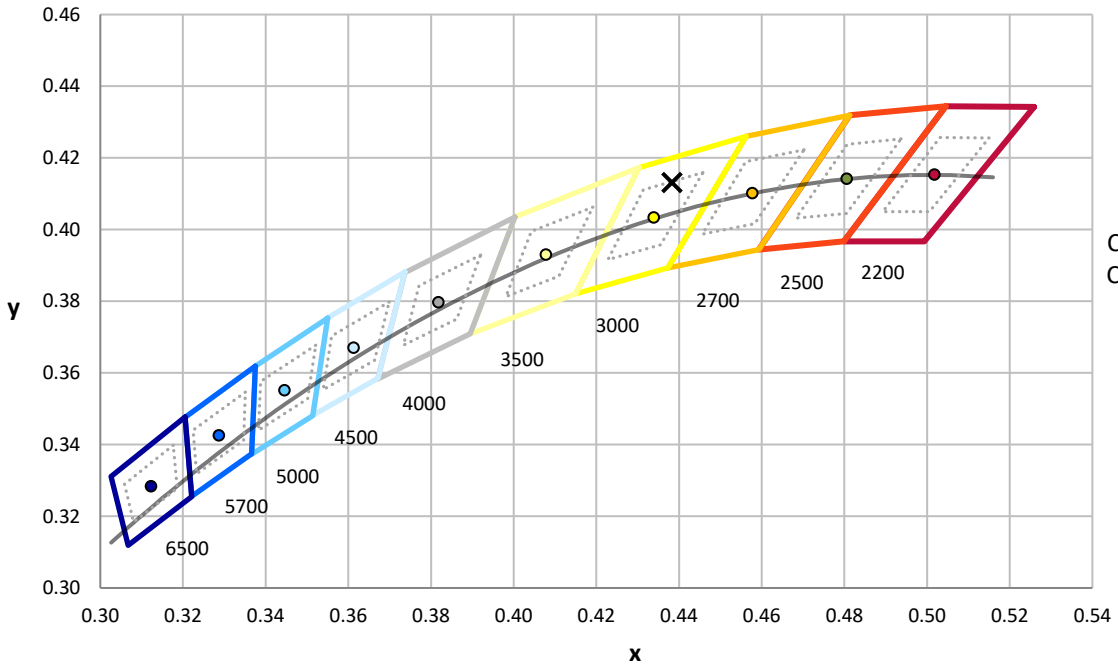
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

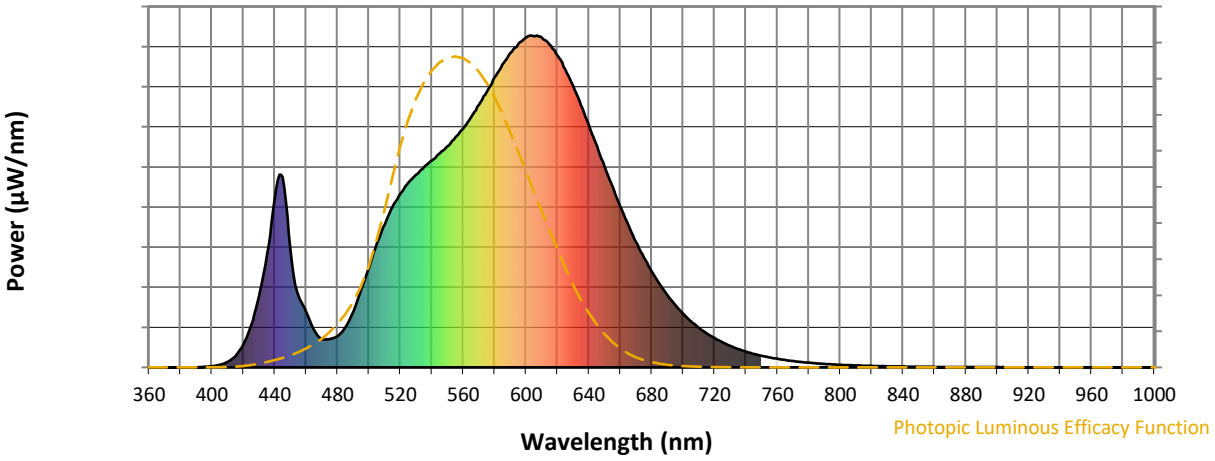


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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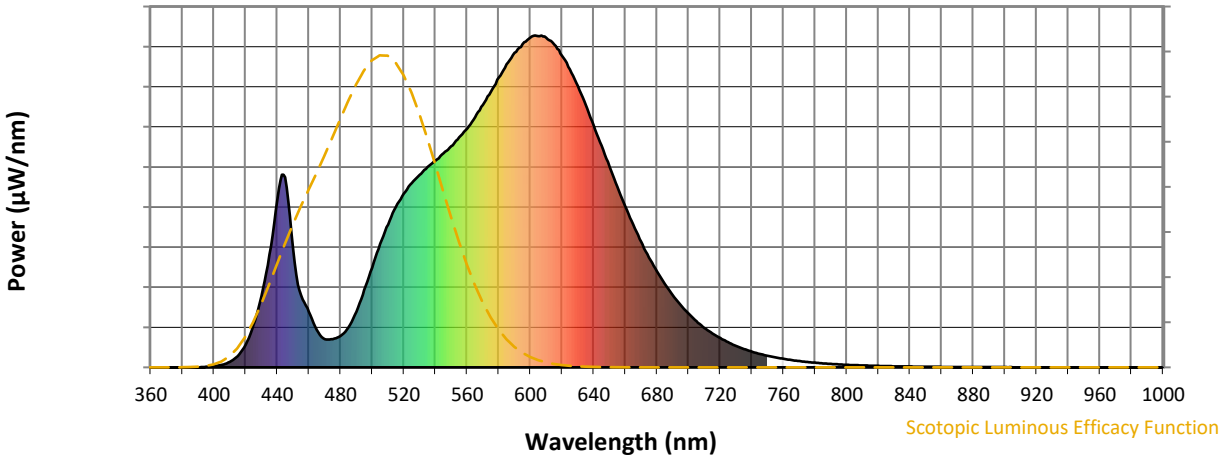
Scotopic Flux vs. Wavelength



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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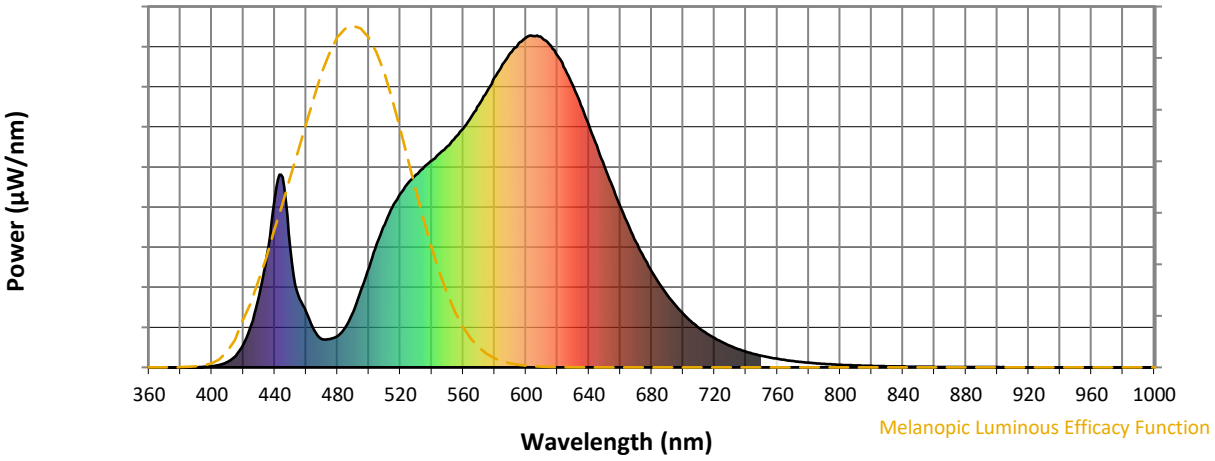
Melanopic Flux vs. Wavelength



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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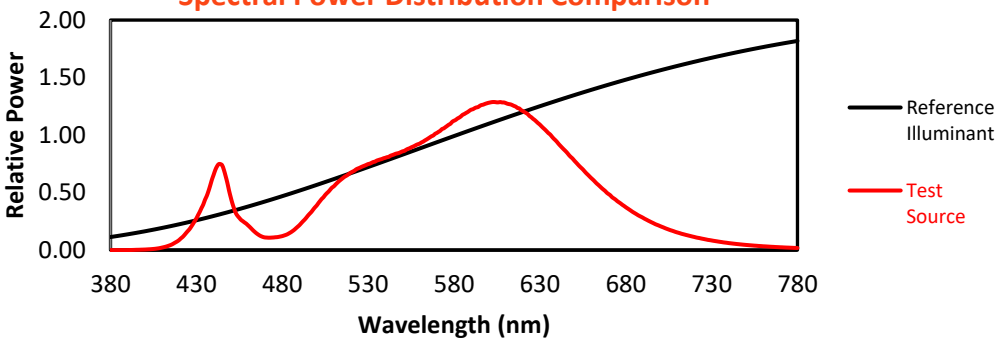
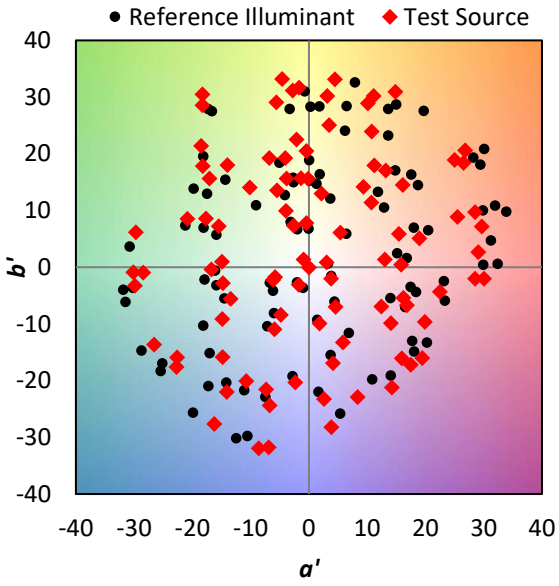
Summary

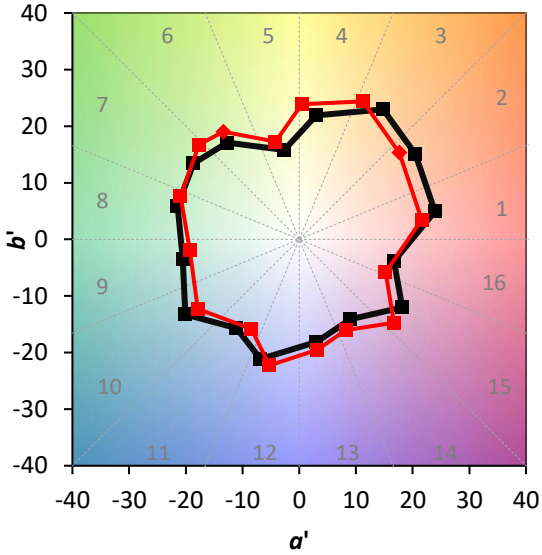
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

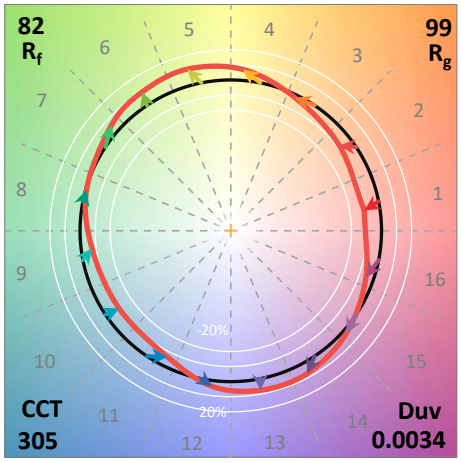
Spectral Power Distribution Comparison

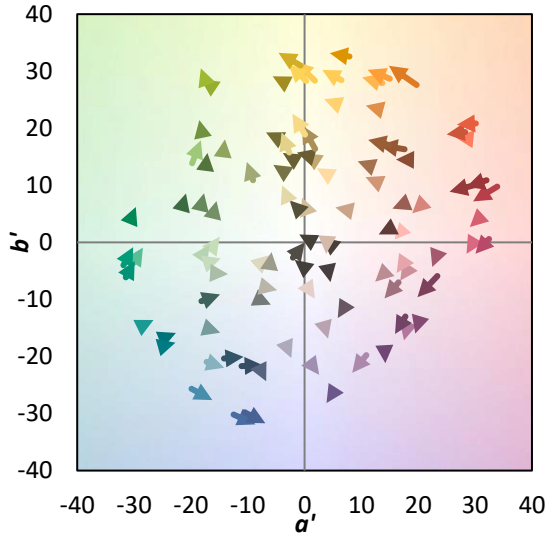


Color Vector Graphics









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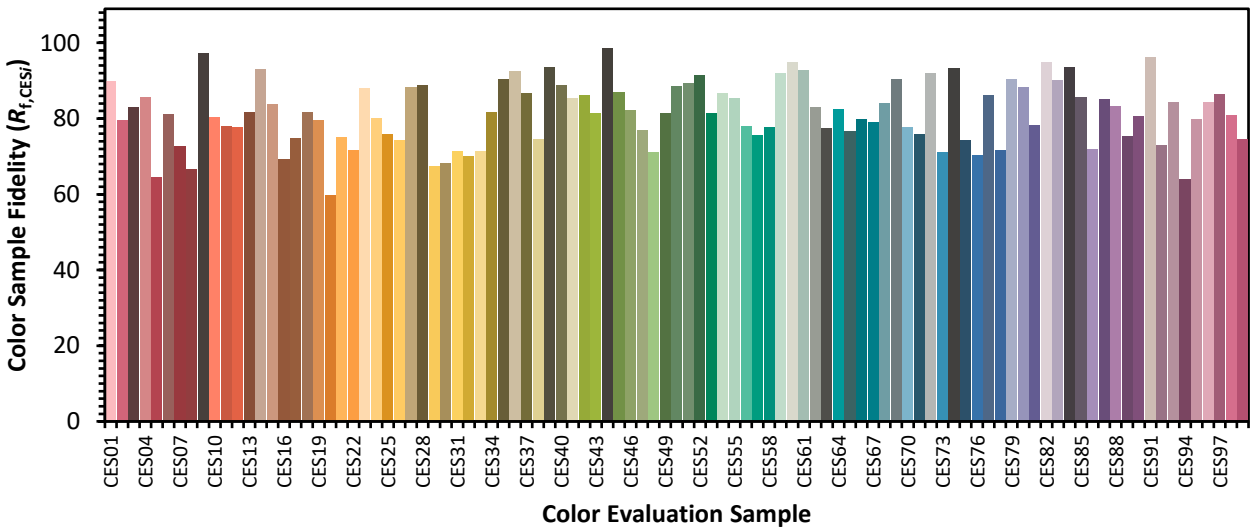
Individual Sample Fidelity Index ($R_{f,i}$)

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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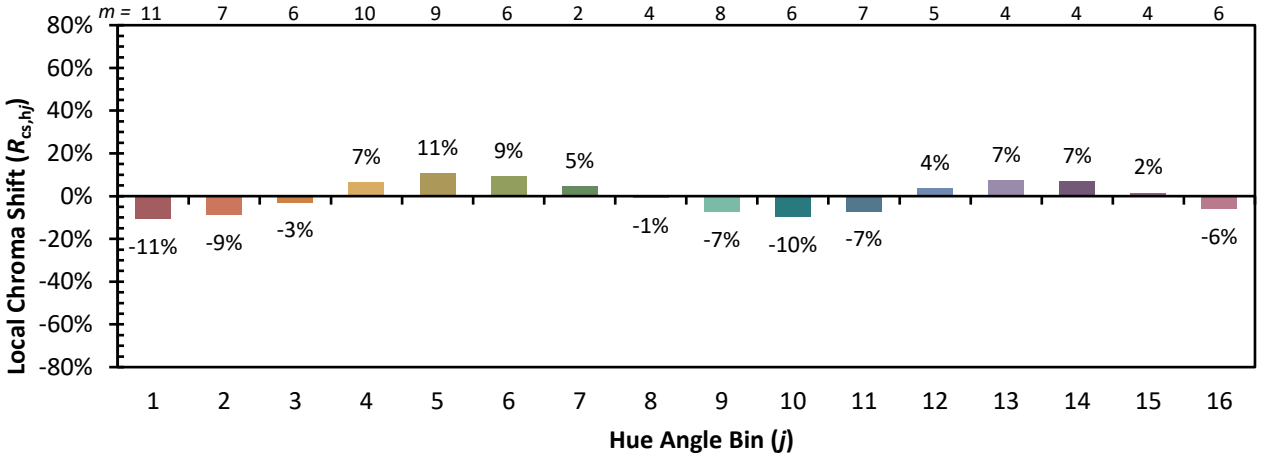
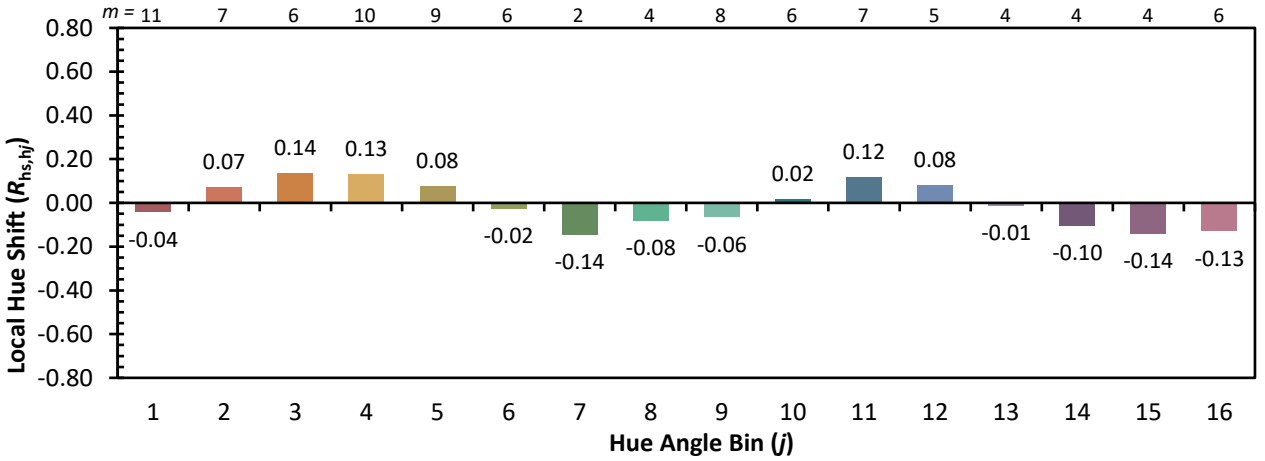
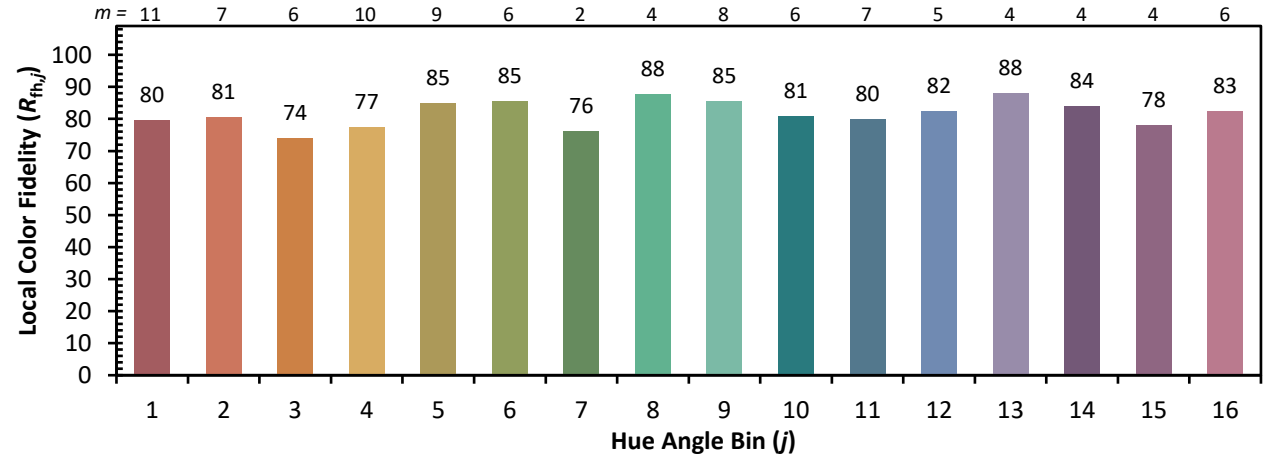
Color Rendition by Hue-Angle Bin







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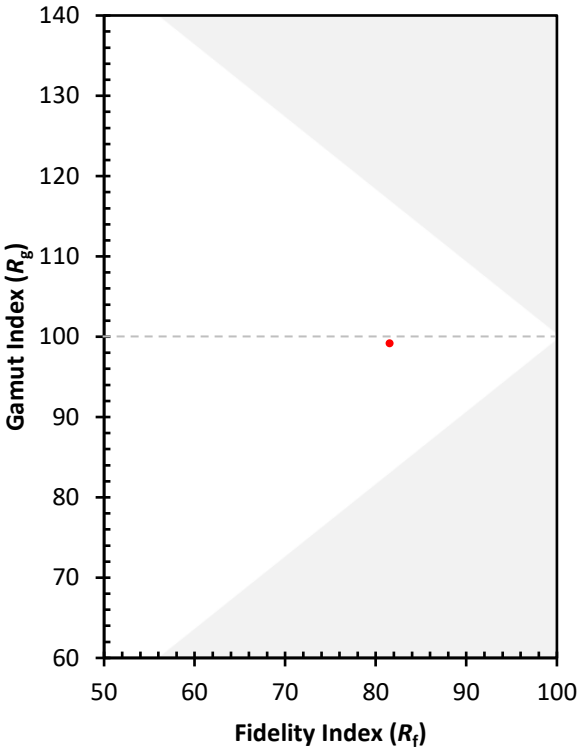
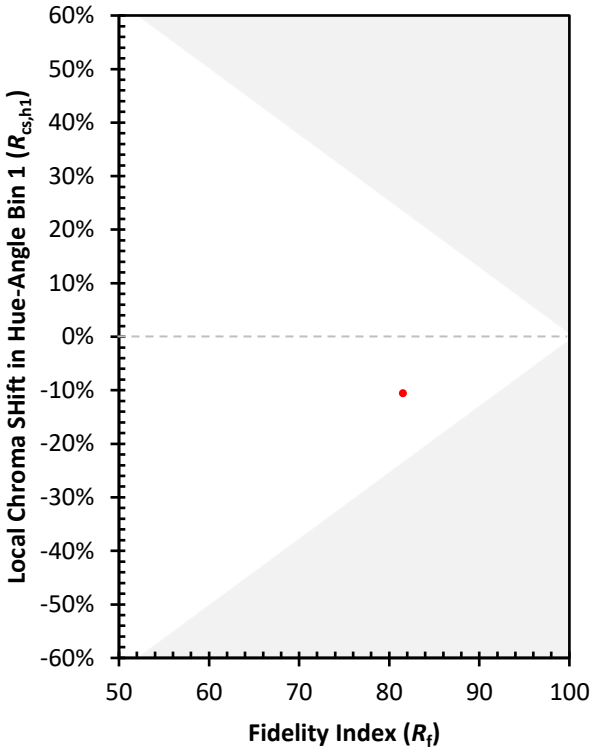
Measure Comparisons





(END OF REPORT)