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: P642434

Luminaire Tested: GWS-SA6C-830-U-SL3-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:	P642434
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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:	18889.9 lumens
Efficiency:	N/A
Efficacy:	99.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

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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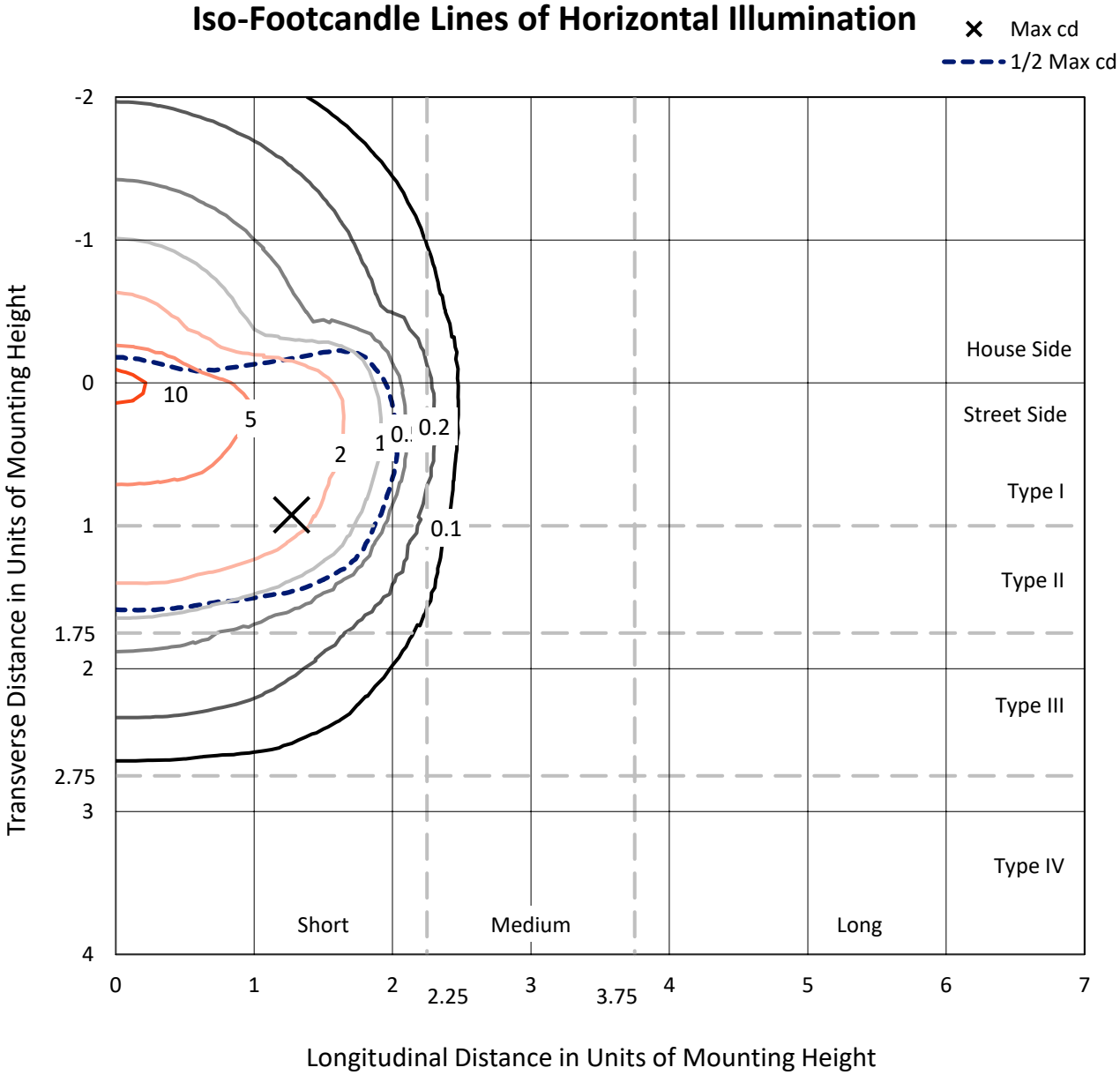
Scaled Data Report

REPORT NUMBER: P642434
CATALOG NUMBER: GWS-SA6C-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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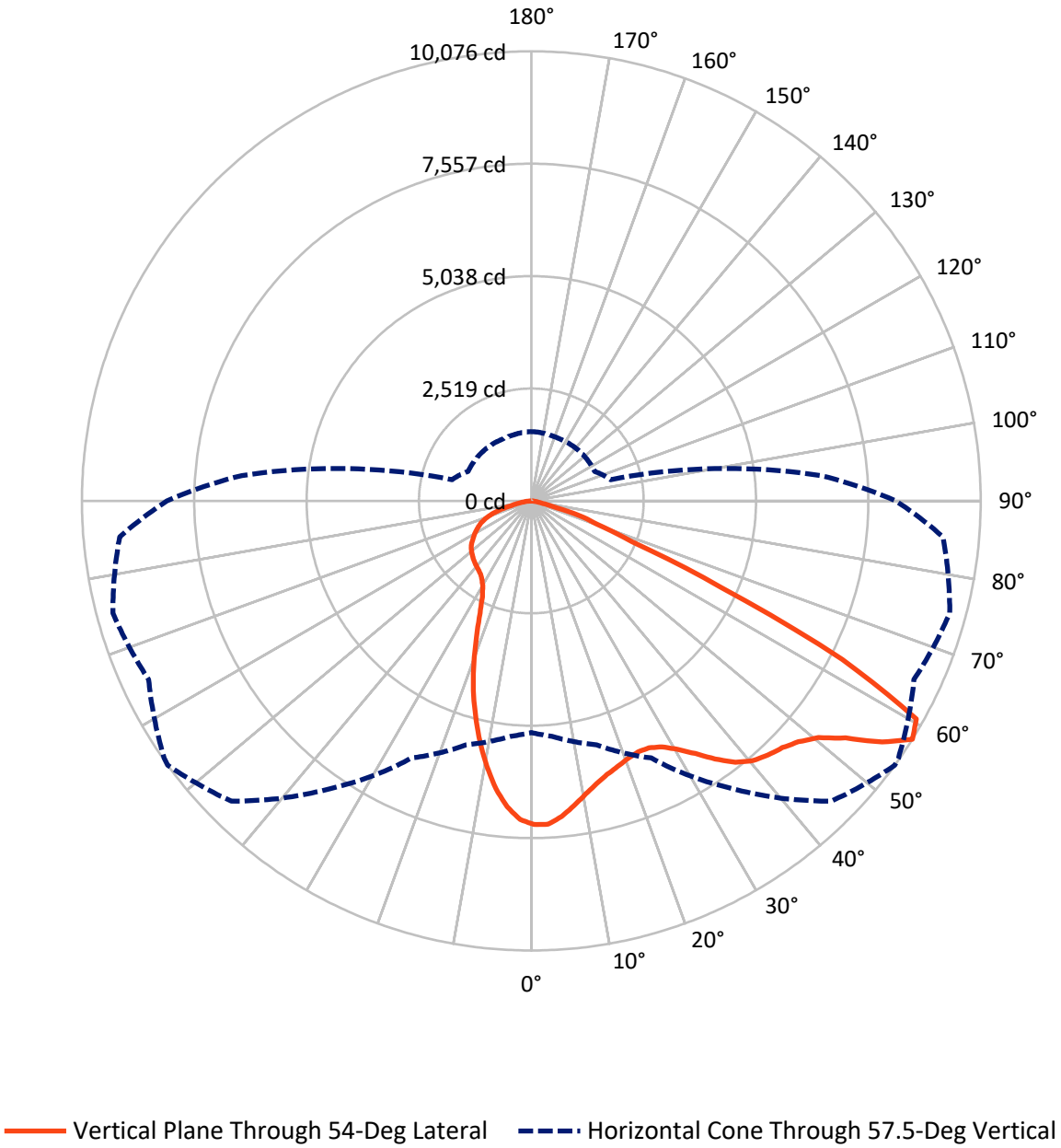
Luminous Intensity Polar Plot



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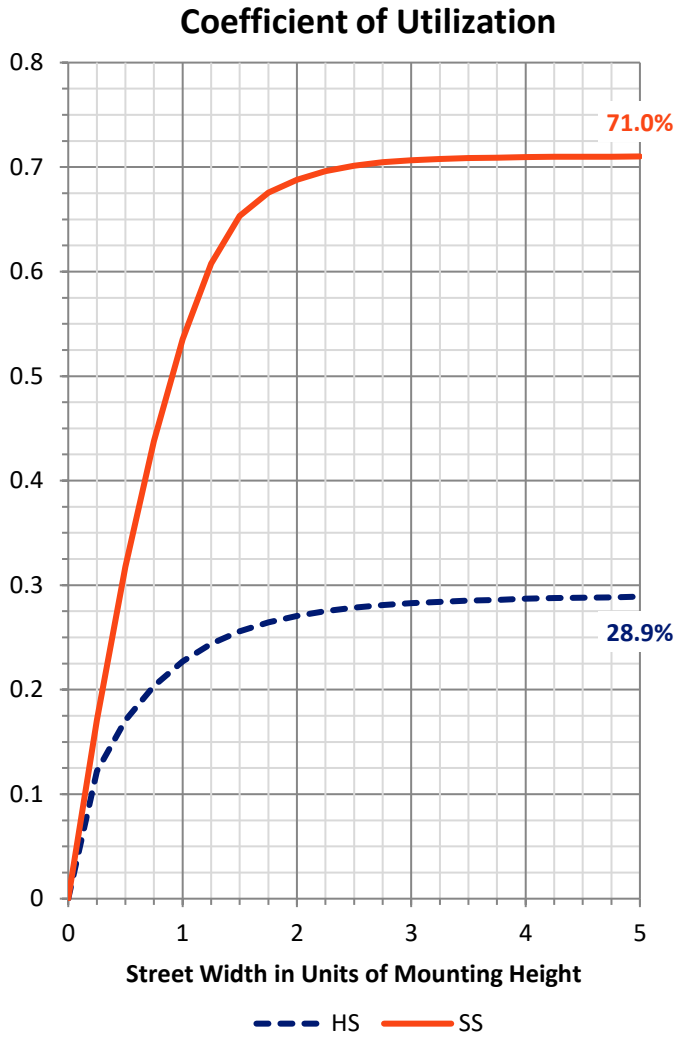
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5491.5	0.0	5491.5
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	13398.4	0.0	13398.4
	% Fixture	70.9	0.0	70.9
Total	Lumens	18889.9	0.0	18889.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.5	3.4
10°-20°	1521.1	8.1
20°-30°	2104.9	11.1
30°-40°	2924.8	15.5
40°-50°	3862.8	20.4
50°-60°	4590.4	24.3
60°-70°	2543.1	13.5
70°-80°	633.3	3.4
80°-90°	72.0	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°	18889.9	100.0
0°-180°	18889.9	100.0



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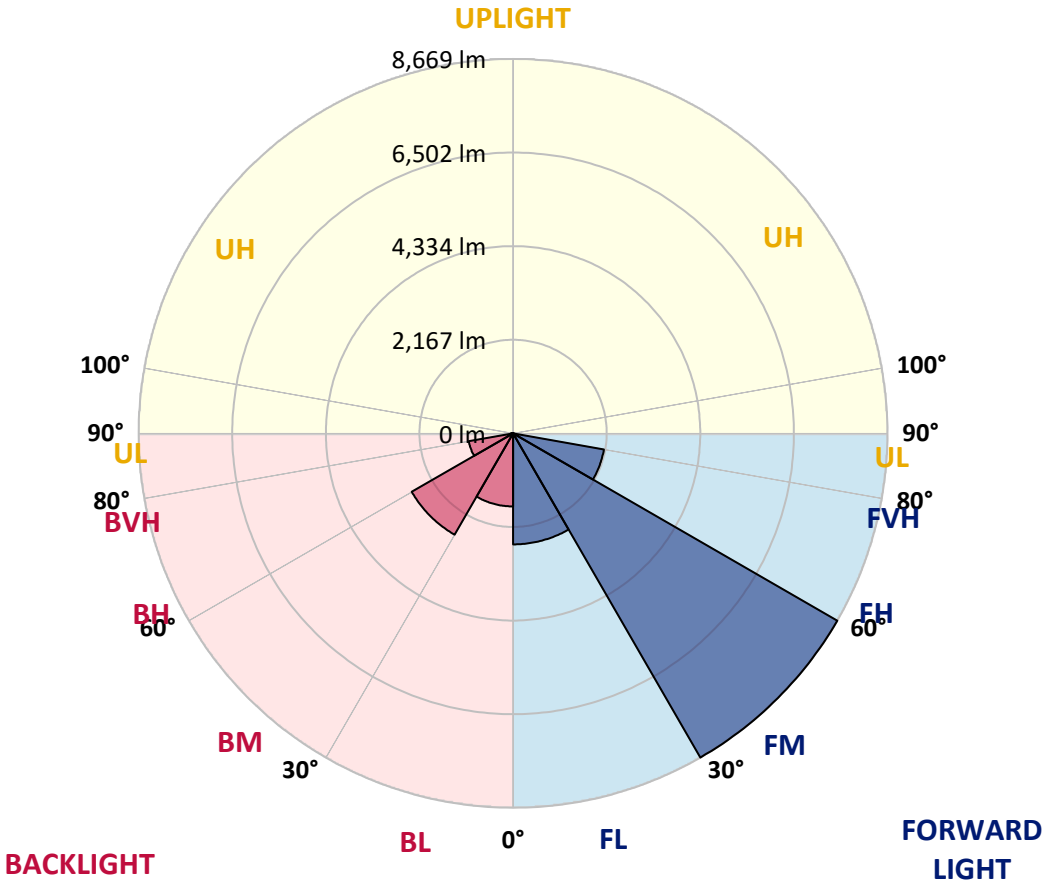
REPORT NUMBER: P642434
CATALOG NUMBER: GWS-SA6C-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2571.2	13.6			
FM	(30°-60°)	8668.9	45.9			
FH	(60°-80°)	2135.8	11.3			G2/5000
FVH	(80°-90°)	22.5	0.1			G1/100
BL	(0°-30°)	1692.3	9.0	B3/2500		
BM	(30°-60°)	2709.1	14.3	B3/5000		
BH	(60°-80°)	1040.7	5.5	B3/2500		G3/2500
BVH	(80°-90°)	49.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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REPORT NUMBER: P642434
CATALOG NUMBER: GWS-SA6C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3
2.5°	7116.4	7131.0	7140.7	7174.6	7203.8	7229.6	7257.1	7257.1	7255.5	7250.6	7240.9
5°	6835.1	6851.2	6873.9	6920.8	6983.8	7029.1	7103.5	7110.0	7142.3	7155.2	7148.8
7.5°	6508.4	6513.3	6542.4	6603.8	6704.1	6784.9	6891.7	6904.6	6982.2	7027.5	7019.4
10°	6151.1	6134.9	6186.7	6277.2	6408.2	6544.0	6681.5	6692.8	6817.3	6903.0	6896.5
12.5°	5824.4	5826.1	5877.8	5987.8	6151.1	6319.3	6503.6	6529.5	6683.1	6793.0	6781.7
15°	5551.2	5557.6	5620.7	5745.2	5931.2	6131.7	6361.3	6385.5	6579.6	6725.1	6692.8
17.5°	5332.9	5339.3	5394.3	5536.6	5735.5	5978.1	6257.8	6282.1	6523.0	6696.0	6629.7
20°	5182.5	5179.3	5232.6	5368.5	5573.8	5837.4	6167.3	6202.8	6505.2	6707.3	6587.7
22.5°	5121.1	5119.4	5158.2	5269.8	5462.2	5729.0	6112.3	6160.8	6524.6	6757.5	6561.8
25°	5151.8	5145.3	5179.3	5261.7	5415.3	5687.0	6128.4	6180.2	6607.1	6860.9	6566.7
27.5°	5247.2	5239.1	5268.2	5342.6	5459.0	5730.7	6241.6	6301.5	6781.7	7050.1	6631.3
30°	5392.7	5387.9	5417.0	5488.1	5590.0	5876.2	6458.3	6526.2	7051.8	7344.4	6772.0
32.5°	5562.5	5554.4	5606.2	5688.6	5806.7	6141.4	6749.4	6838.3	7371.9	7722.8	7008.1
35°	5753.3	5746.8	5818.0	5937.6	6107.4	6510.1	7101.9	7198.9	7698.6	8151.3	7321.8
37.5°	5939.3	5939.3	6076.7	6254.6	6468.0	6911.1	7433.4	7494.8	7924.9	8531.3	7658.1
40°	6104.2	6113.9	6320.9	6587.7	6859.3	7273.3	7651.7	7703.4	8025.2	8793.3	7950.8
42.5°	6286.9	6295.0	6535.9	6885.2	7208.6	7566.0	7784.3	7810.1	8044.6	8924.2	8157.8
45°	6432.4	6443.8	6742.9	7116.4	7512.6	7785.9	7889.4	7912.0	8072.1	8995.4	8308.2
47.5°	6508.4	6524.6	6867.4	7302.4	7718.0	7983.1	8062.4	8072.1	8185.3	9119.9	8489.3
50°	6495.5	6527.8	6914.3	7394.6	7870.0	8182.0	8340.5	8356.7	8416.5	9302.6	8701.1
52.5°	6610.3	6624.9	7014.6	7504.5	8086.6	8549.1	8824.0	8846.6	8819.1	9440.1	8827.2
55°	6419.5	6489.0	6890.1	7488.3	8416.5	9116.7	9540.3	9529.0	9184.6	9593.7	9037.4
57.5°	5192.2	5294.1	5661.1	6356.4	7873.2	9514.4	10075.6	10048.1	9467.6	9711.7	9265.4
60°	3594.6	3610.8	3942.3	4435.4	6076.7	8405.2	9918.7	9978.5	9519.3	9563.0	8843.4
62.5°	2875.0	2870.2	2900.9	2913.8	3864.6	5908.5	7829.5	8047.8	7908.8	7451.2	6267.5
65°	2454.6	2472.4	2563.0	2516.1	2522.5	3327.8	4678.0	4708.7	4611.7	4446.8	3314.9
67.5°	1921.0	1951.7	2111.8	2294.5	2236.3	2142.5	2427.1	2412.6	1901.6	1471.5	1216.0
70°	1203.1	1222.5	1393.9	1801.3	1946.9	1759.3	1560.4	1553.9	1018.7	837.6	918.5
72.5°	701.8	705.0	753.5	1004.2	1292.0	1203.1	1148.1	1106.0	654.9	667.8	732.5
75°	386.5	386.5	384.8	433.4	509.4	451.1	436.6	425.3	438.2	496.4	544.9
77.5°	80.9	82.5	87.3	114.8	148.8	181.1	228.0	229.6	286.2	331.5	370.3
80°	37.2	38.8	48.5	61.4	79.2	105.1	139.1	140.7	173.0	208.6	234.5
82.5°	19.4	21.0	25.9	32.3	42.0	55.0	77.6	77.6	103.5	122.9	139.1
85°	6.5	6.5	9.7	12.9	17.8	22.6	30.7	30.7	45.3	59.8	69.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	6.5	8.1	9.7	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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Scaled Data Report

REPORT NUMBER: P642434
CATALOG NUMBER: GWS-SA6C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3	7252.3
2.5°	7219.9	7169.8	7171.4	7181.1	7150.4	7103.5	7072.8	7034.0	7009.7	7004.9	7022.6
5°	7116.4	7058.2	7017.8	6975.8	6888.4	6784.9	6704.1	6637.8	6594.1	6578.0	6558.6
7.5°	6974.1	6898.1	6796.3	6678.2	6519.8	6335.4	6206.1	6084.8	6000.7	5976.4	5965.1
10°	6831.8	6721.9	6540.8	6320.9	6057.3	5808.3	5573.8	5394.3	5252.0	5171.2	5197.0
12.5°	6684.7	6548.9	6265.9	5927.9	5560.9	5185.7	4878.5	4581.0	4351.4	4236.5	4202.6
15°	6555.3	6371.0	5976.4	5518.8	5030.5	4558.3	4113.7	3667.4	3376.3	3217.8	3174.2
17.5°	6445.4	6206.1	5670.8	5101.6	4517.9	3845.2	3298.7	2884.7	2685.8	2598.5	2592.1
20°	6337.0	6044.4	5368.5	4652.1	3926.1	3172.6	2684.2	2490.2	2419.0	2388.3	2386.7
22.5°	6240.0	5874.6	5049.9	4202.6	3337.5	2666.4	2398.0	2313.9	2294.5	2294.5	2291.3
25°	6157.6	5704.8	4723.3	3725.6	2805.5	2373.8	2249.3	2213.7	2221.8	2236.3	2237.9
27.5°	6123.6	5572.2	4408.0	3235.6	2438.4	2204.0	2147.4	2142.5	2165.2	2187.8	2191.0
30°	6159.2	5481.6	4084.6	2766.7	2218.5	2100.5	2074.6	2084.3	2111.8	2134.4	2134.4
32.5°	6269.1	5436.4	3754.7	2423.9	2090.8	2027.7	2019.6	2029.3	2050.4	2063.3	2064.9
35°	6455.1	5454.2	3413.5	2192.7	2008.3	1974.4	1972.7	1979.2	1987.3	1995.4	1997.0
37.5°	6689.5	5533.4	3048.1	2058.4	1955.0	1935.6	1932.3	1930.7	1932.3	1932.3	1933.9
40°	6919.2	5653.0	2721.4	1979.2	1917.8	1901.6	1893.5	1882.2	1880.6	1877.3	1875.7
42.5°	7088.9	5745.2	2461.1	1922.6	1883.8	1864.4	1854.7	1836.9	1835.3	1833.7	1832.1
45°	7216.7	5822.8	2244.4	1867.6	1848.2	1830.4	1809.4	1793.3	1796.5	1799.7	1799.7
47.5°	7360.6	5890.7	2085.9	1815.9	1804.6	1786.8	1760.9	1749.6	1760.9	1772.2	1772.2
50°	7535.2	5986.1	1956.6	1764.2	1759.3	1738.3	1715.6	1710.8	1723.7	1739.9	1739.9
52.5°	7663.0	6068.6	1864.4	1712.4	1712.4	1684.9	1665.5	1663.9	1678.4	1694.6	1696.2
55°	7902.3	6261.0	1832.1	1652.6	1646.1	1625.1	1610.5	1599.2	1617.0	1631.6	1631.6
57.5°	*8172.3*	*6516.5*	*1840.2*	*1566.9*	*1558.8*	*1552.3*	*1541.0*	*1528.1*	*1532.9*	*1549.1*	*1550.7*
60°	7599.9	6021.7	1751.2	1481.2	1476.3	1473.1	1458.5	1435.9	1442.4	1455.3	1456.9
62.5°	5308.6	4002.1	1416.5	1374.5	1390.6	1389.0	1369.6	1343.7	1345.3	1363.1	1363.1
65°	2755.4	2165.2	1243.5	1277.4	1301.7	1292.0	1259.6	1237.0	1233.8	1256.4	1251.6
67.5°	1188.5	1182.0	1131.9	1175.6	1201.4	1180.4	1146.5	1109.3	1112.5	1120.6	1114.1
70°	957.3	986.4	1007.4	1054.3	1075.3	1036.5	999.3	978.3	960.5	958.9	947.6
72.5°	764.8	805.3	852.2	900.7	907.1	868.3	821.4	802.0	774.5	772.9	761.6
75°	575.7	609.6	646.8	685.6	685.6	648.4	617.7	608.0	575.7	566.0	556.2
77.5°	392.9	414.0	443.1	452.8	462.5	447.9	417.2	401.0	363.8	354.1	341.2
80°	247.4	262.0	279.7	286.2	295.9	278.1	253.9	236.1	210.2	202.1	195.7
82.5°	148.8	158.5	169.8	173.0	181.1	168.2	145.5	132.6	118.0	111.6	106.7
85°	76.0	80.9	87.3	88.9	87.3	74.4	66.3	59.8	50.1	48.5	45.3
87.5°	19.4	22.6	24.3	22.6	21.0	16.2	11.3	8.1	3.2	3.2	1.6
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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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

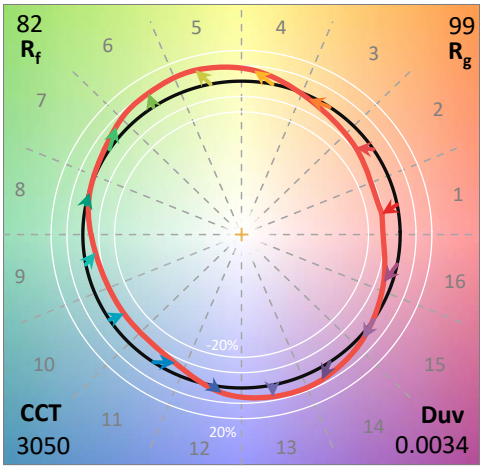
Test Information

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

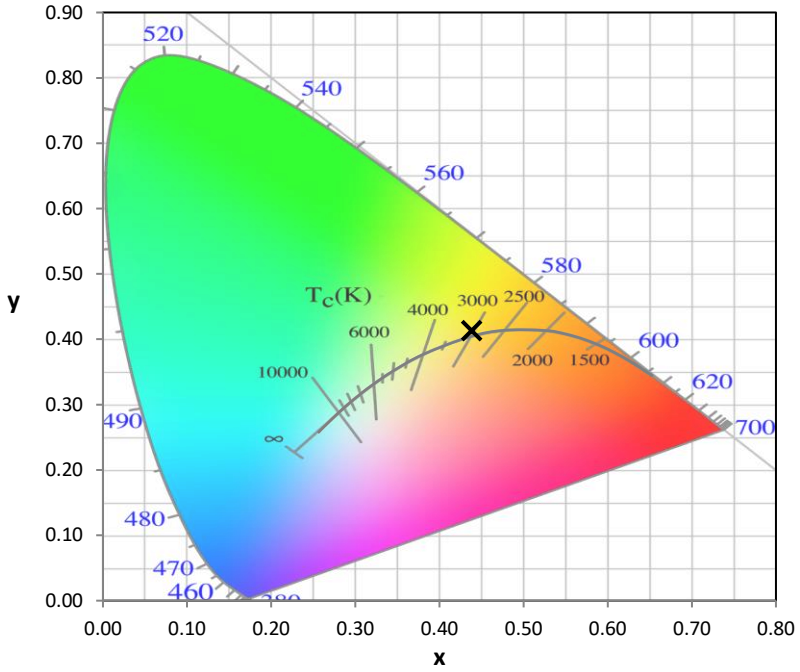
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

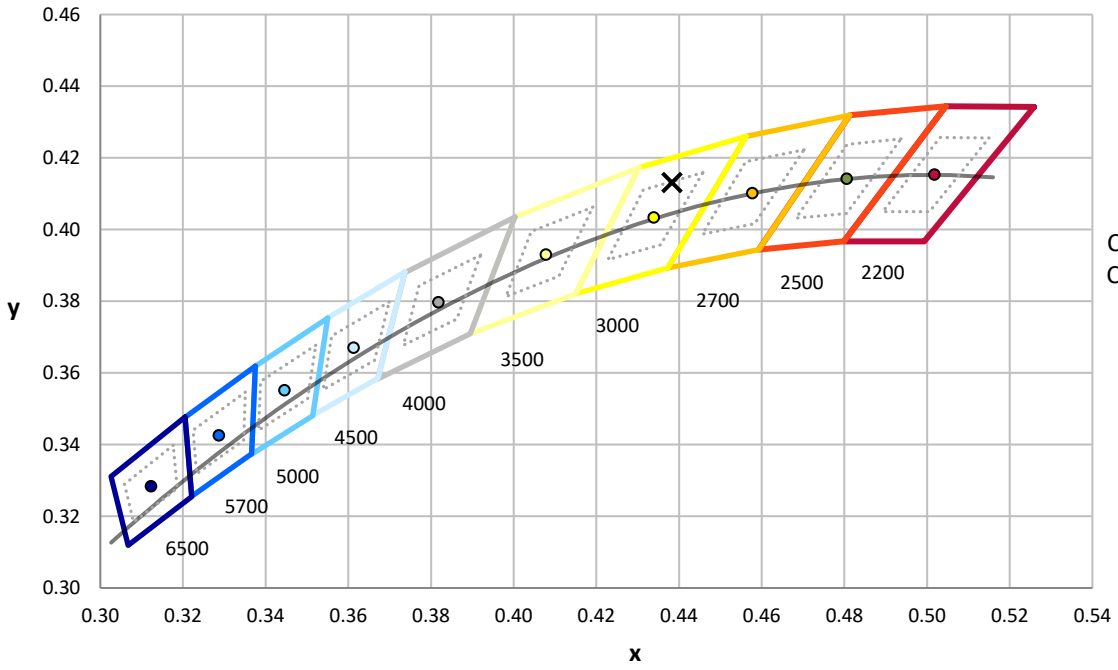
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

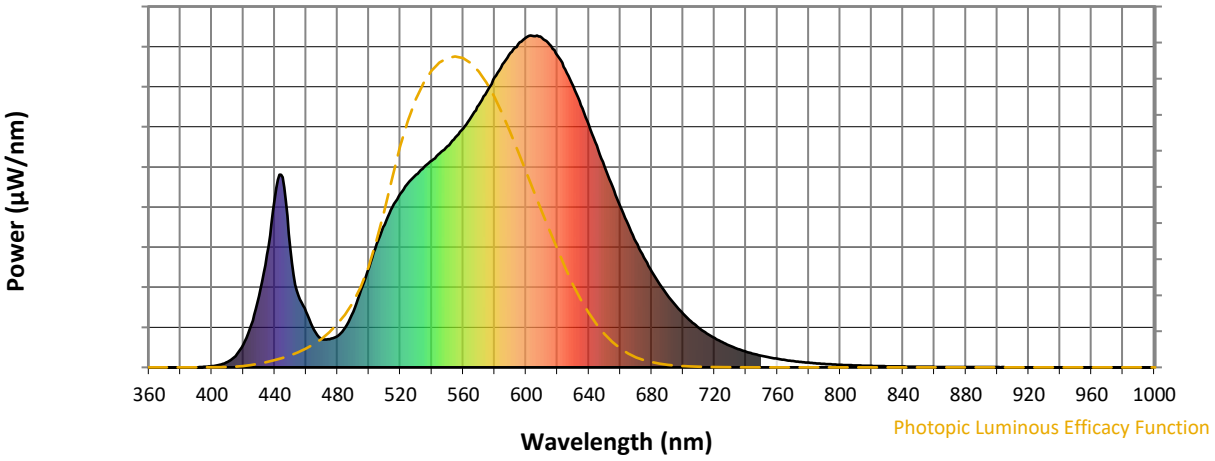


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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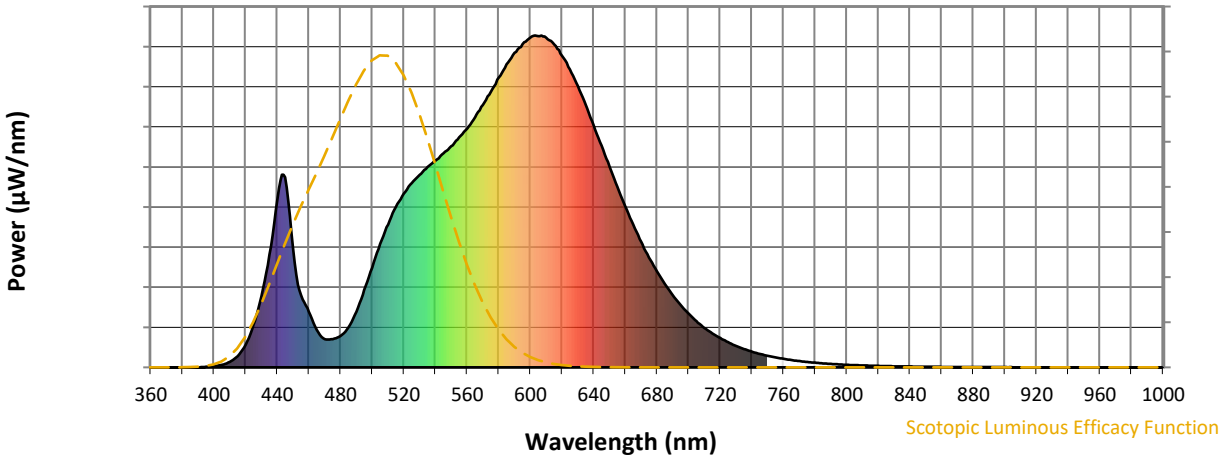
Scotopic Flux vs. Wavelength



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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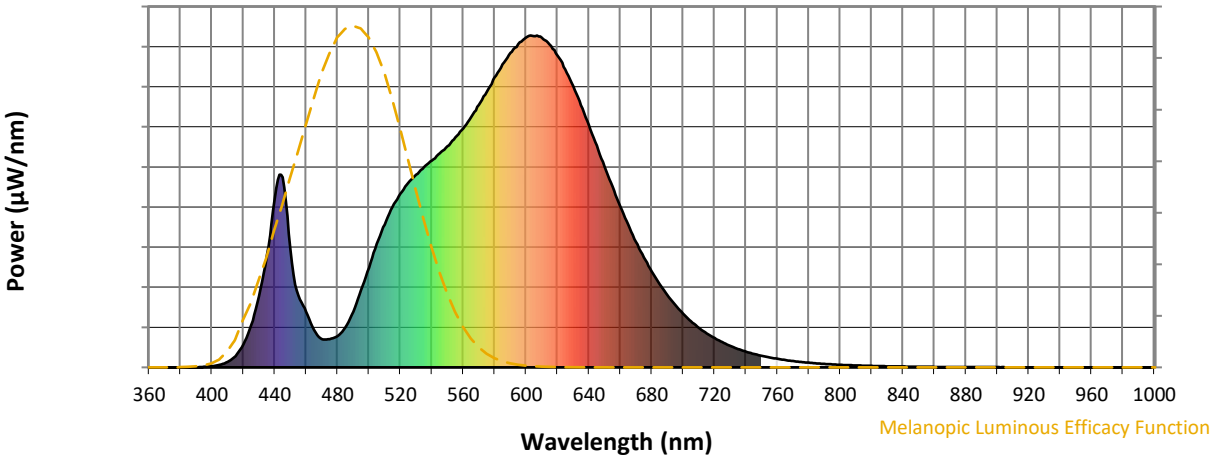
Melanopic Flux vs. Wavelength



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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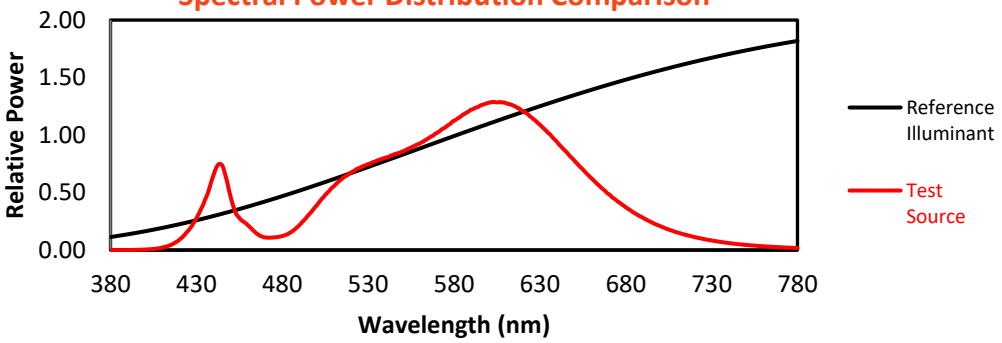
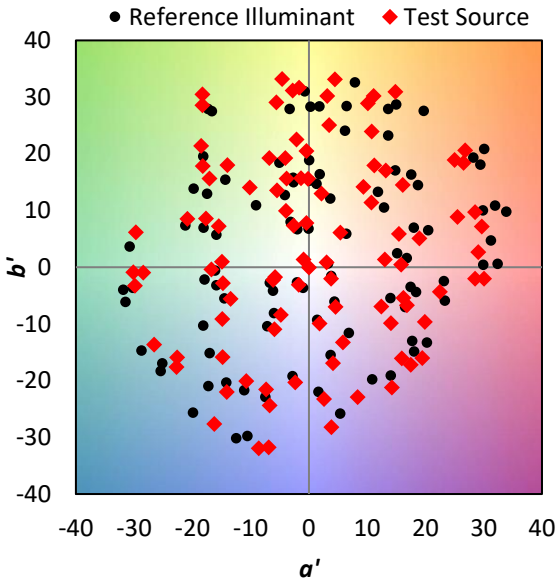
Summary

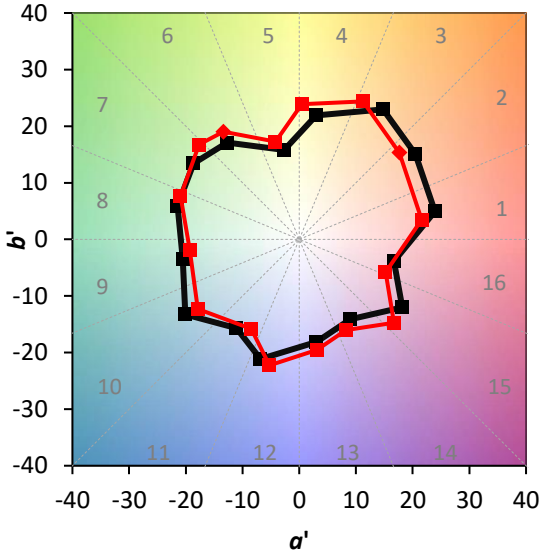
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

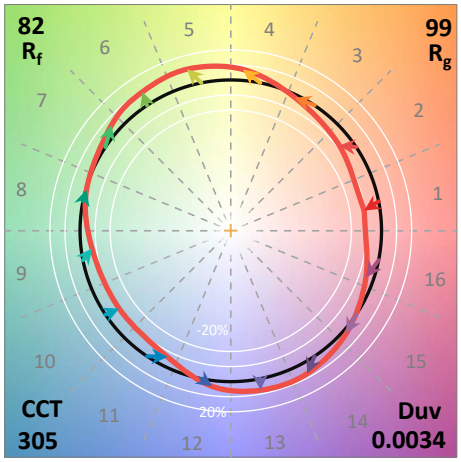
Spectral Power Distribution Comparison

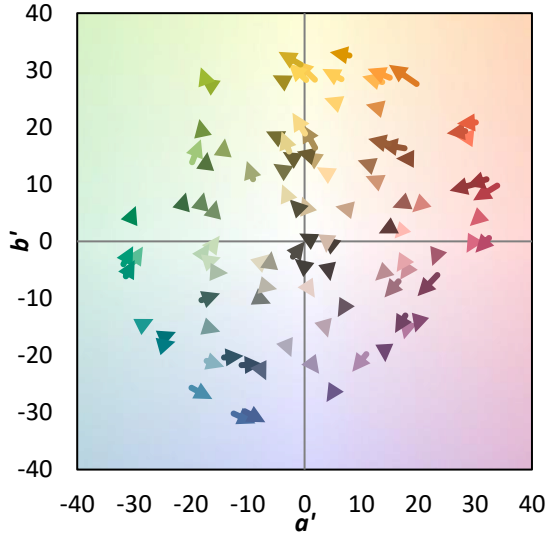


Color Vector Graphics









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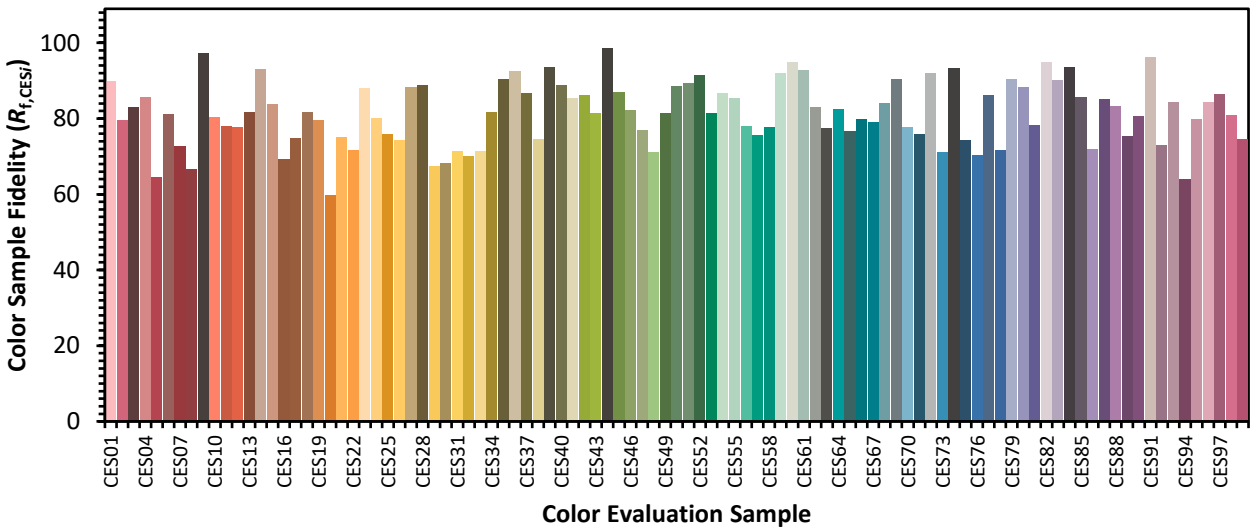
Individual Sample Fidelity Index ($R_{f,i}$)

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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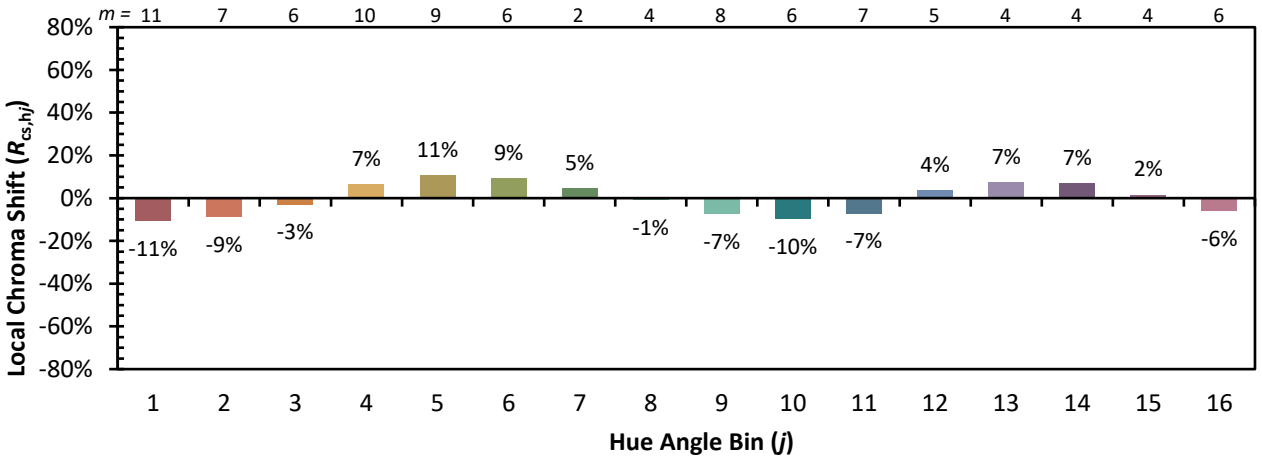
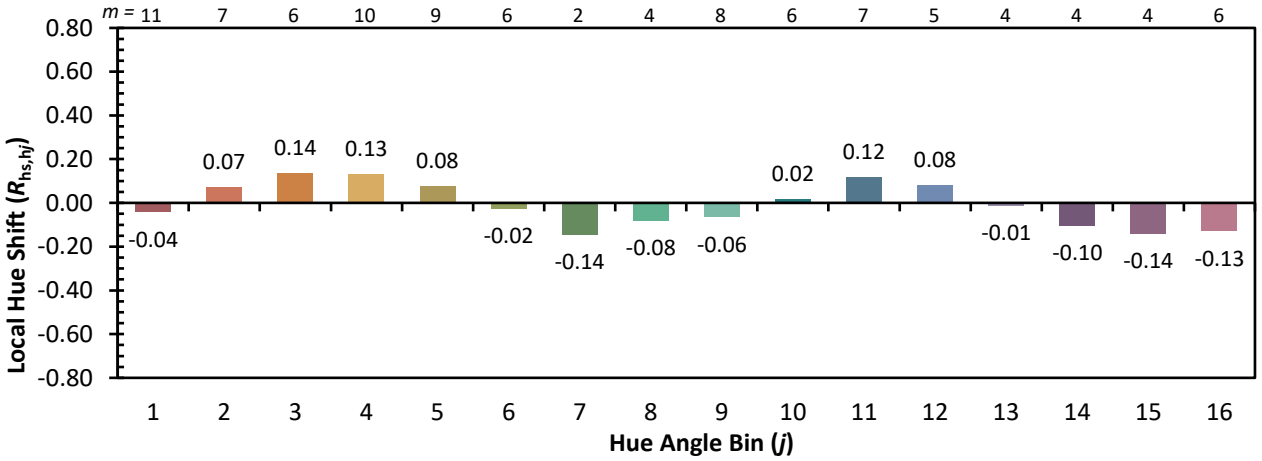
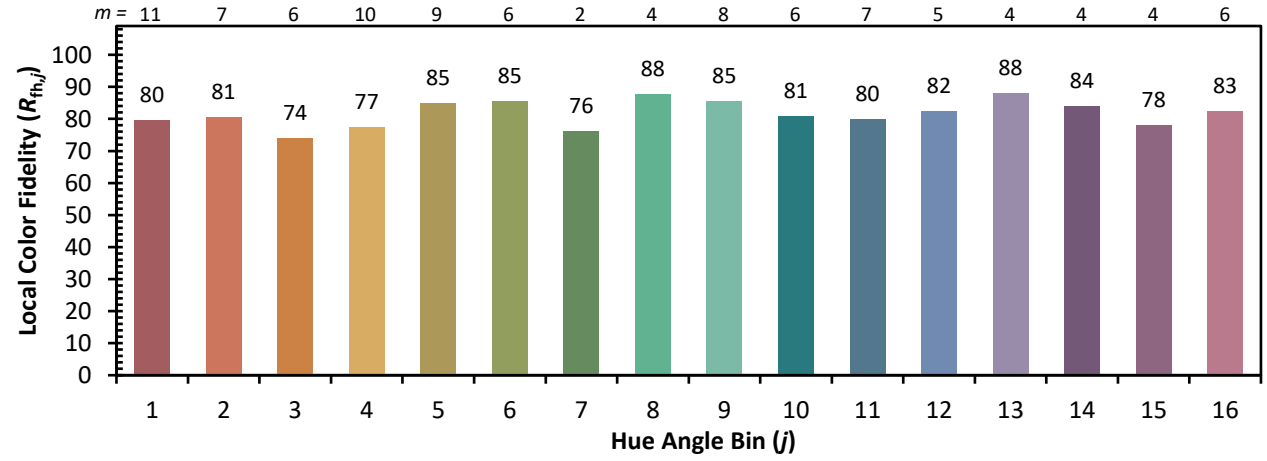
Color Rendition by Hue-Angle Bin







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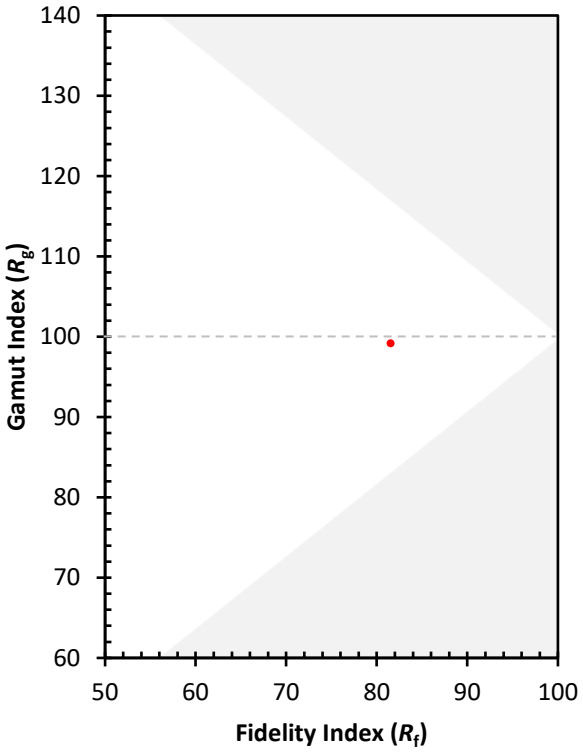
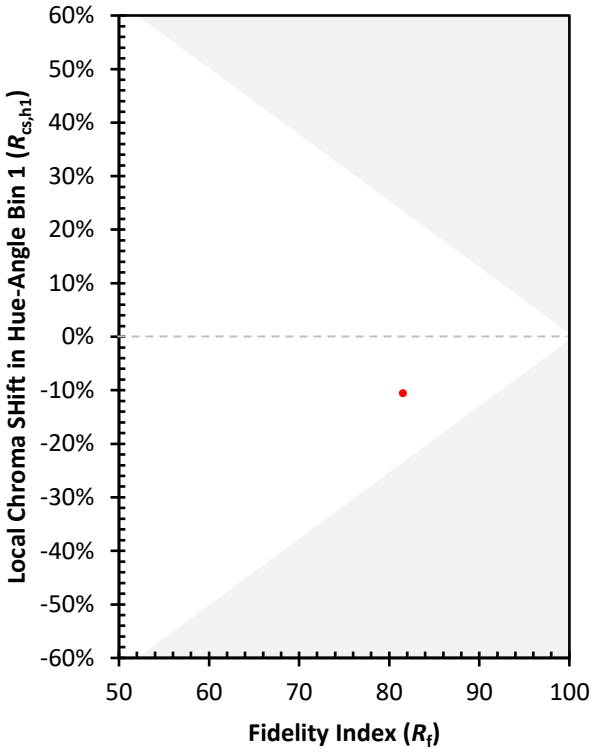
Measure Comparisons





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