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: P643445

Luminaire Tested: GWS-SA6E-830-U-T2R-W

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:	P643445
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6E-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36260.2 lumens
Efficiency:	N/A
Efficacy:	112.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	323.8
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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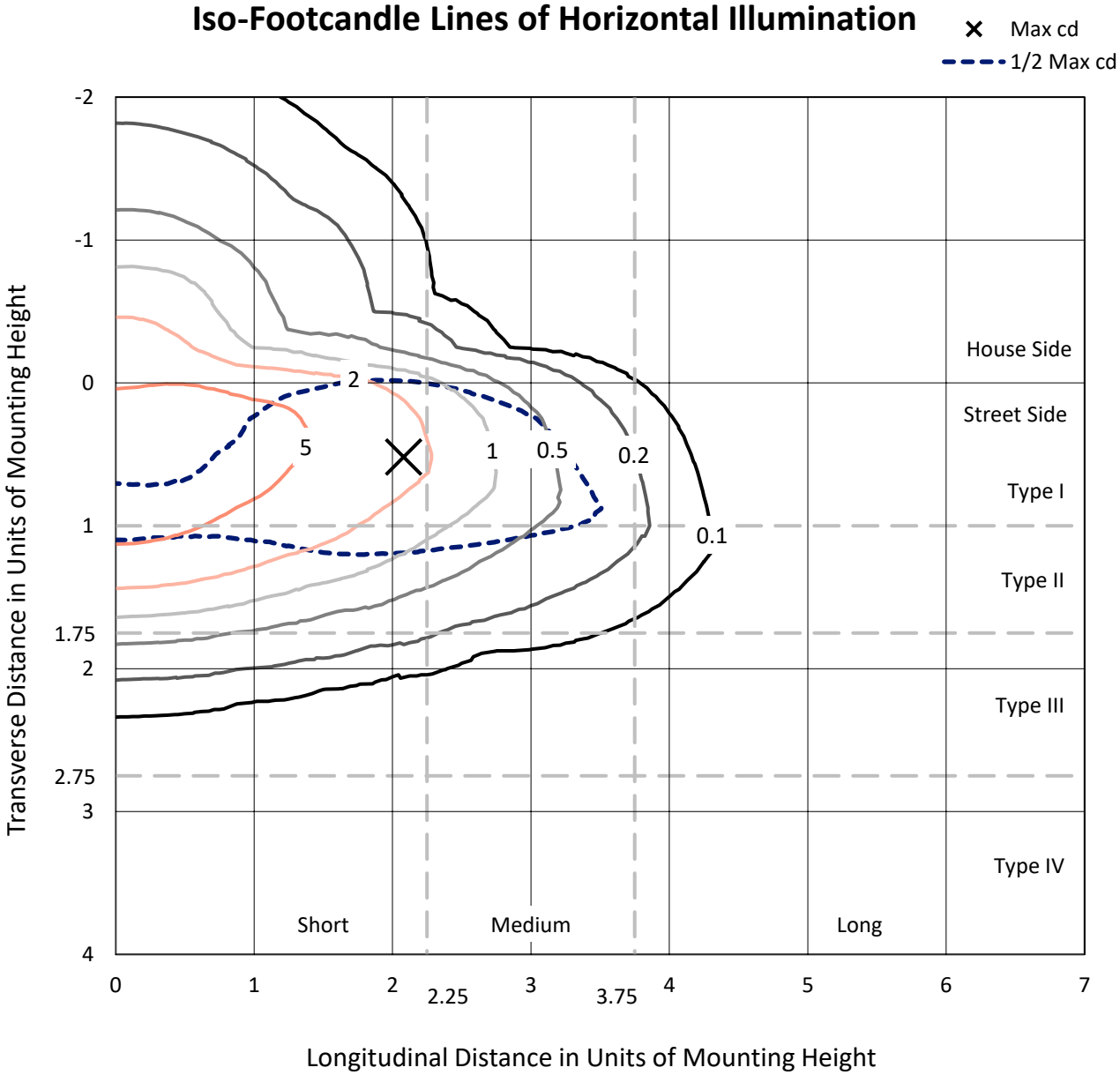
REPORT NUMBER: P643445
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

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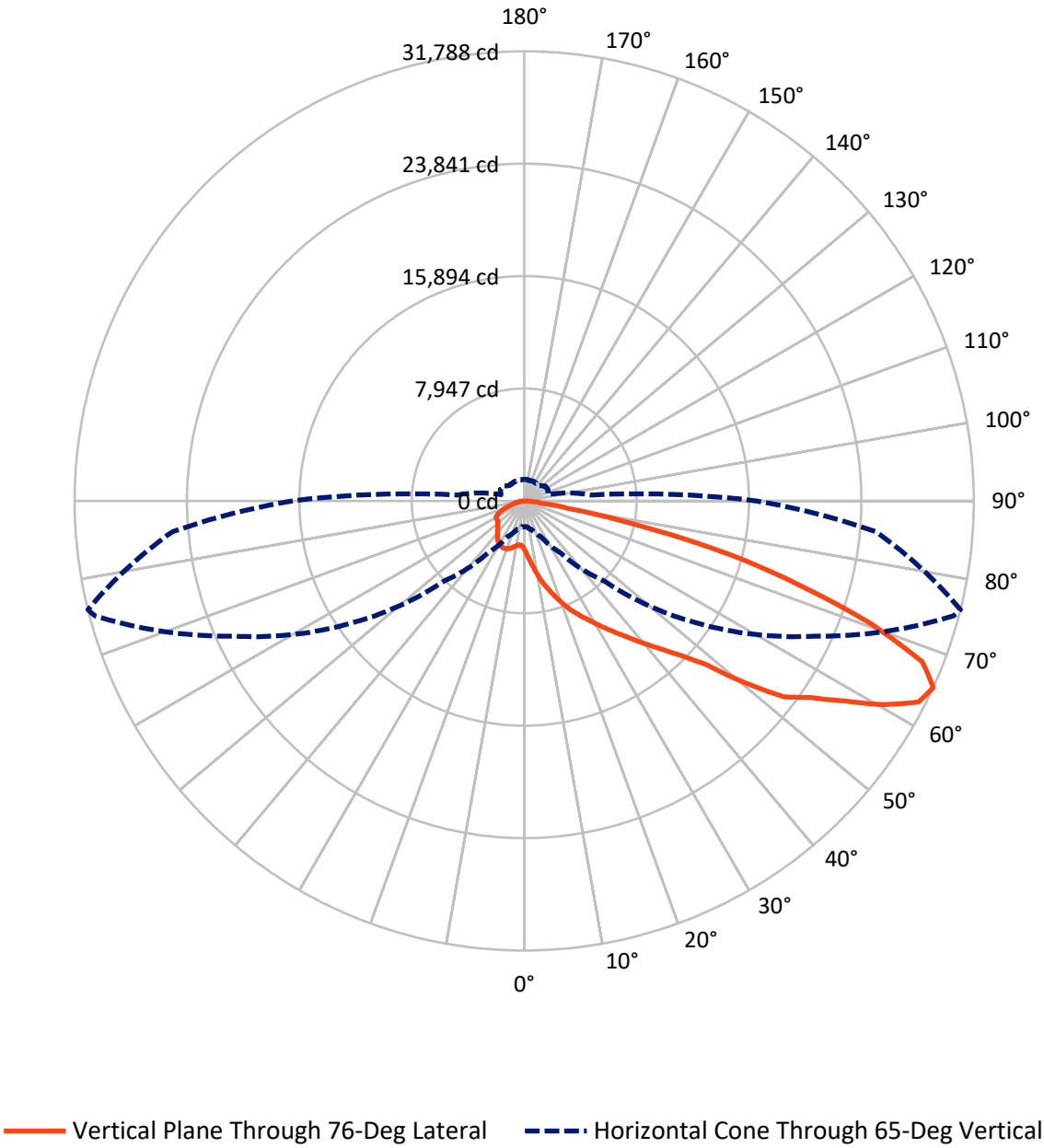
Luminous Intensity Polar Plot



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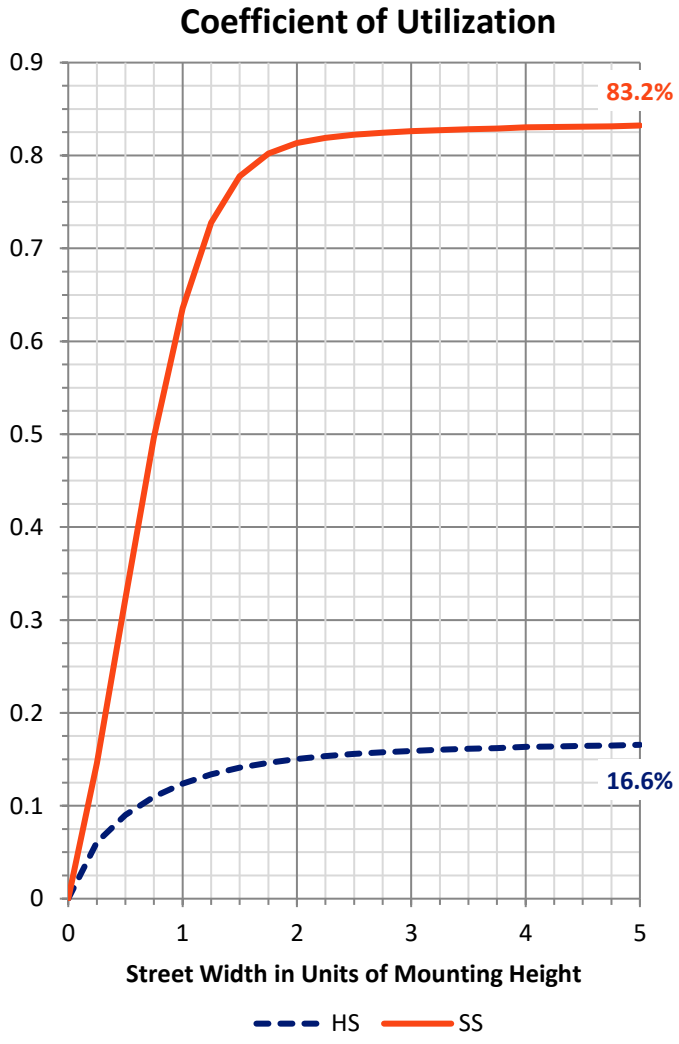
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6060.9	0.0	6060.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	30199.3	0.0	30199.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	36260.2	0.0	36260.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.9	1.1
10°-20°	1553.8	4.3
20°-30°	3028.2	8.4
30°-40°	5064.4	14.0
40°-50°	7251.3	20.0
50°-60°	8584.5	23.7
60°-70°	7138.0	19.7
70°-80°	2921.1	8.1
80°-90°	311.0	0.9
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°	36260.2	100.0
0°-180°	36260.2	100.0



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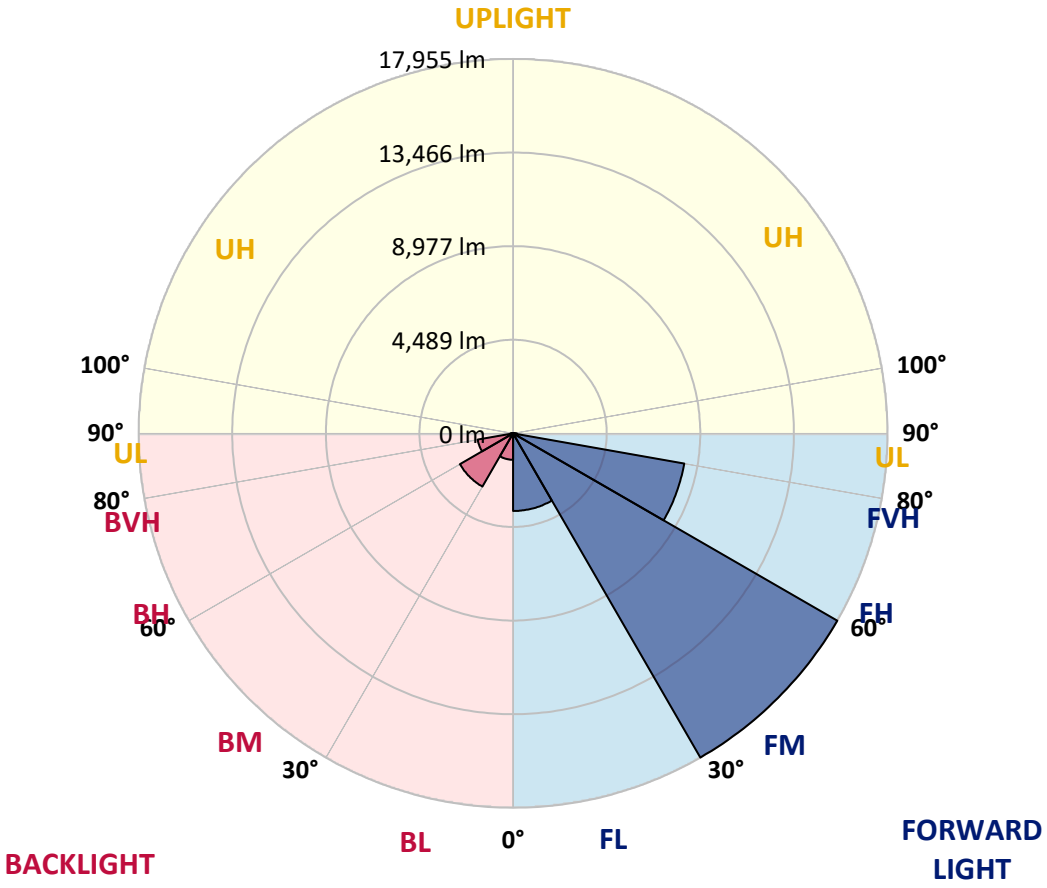
REPORT NUMBER: P643445
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3722.0	10.3			
FM	(30°-60°)	17954.7	49.5			
FH	(60°-80°)	8337.1	23.0			G4/12000
FVH	(80°-90°)	185.5	0.5			G2/225
BL	(0°-30°)	1267.9	3.5	B3/2500		
BM	(30°-60°)	2945.5	8.1	B3/5000		
BH	(60°-80°)	1722.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	125.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type II Short



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REPORT NUMBER: P643445
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	*3433.7*	3433.7
2.5°	4812.8	4830.6	4772.0	4751.6	4614.0	4427.9	4272.4	4037.9	3821.2	*3788.0*	3594.3
5°	6112.9	6036.4	5970.1	5926.8	5735.6	5524.0	5195.2	4754.2	4292.8	*4236.7*	3818.6
7.5°	6885.3	6872.5	6790.9	6765.4	6617.6	6406.0	6067.0	5518.9	4848.5	*4756.7*	4122.0
10°	7504.7	7497.1	7456.3	7479.2	7344.1	7137.6	6808.8	6242.9	5457.7	*5366.0*	4461.0
12.5°	8045.1	8057.9	8050.2	8134.3	8065.5	7904.9	7563.3	6941.3	6067.0	*5967.6*	4874.0
15°	8440.2	8450.4	8488.7	8672.2	8710.5	8677.3	8330.6	7627.1	6668.6	*6525.8*	5299.7
17.5°	8552.4	8572.8	8664.6	8960.3	9166.7	9304.4	9046.9	8325.5	7260.0	*7104.5*	5733.0
20°	8702.8	8725.7	8817.5	9126.0	9429.3	9742.9	9697.0	9034.2	7856.5	*7729.0*	6171.5
22.5°	9398.7	9380.9	9340.1	9487.9	9704.6	10094.6	10209.4	9714.8	8473.4	*8351.0*	6655.8
25°	10739.6	10706.4	10446.4	10311.3	10239.9	10477.0	10680.9	10334.3	9075.0	*8891.4*	7107.0
27.5°	12218.1	12200.2	11868.8	11547.7	11109.2	11007.2	11127.0	10874.7	9658.7	*9472.6*	7499.6
30°	13617.6	13564.0	13217.3	12814.6	12228.3	11789.8	11613.9	11404.9	10298.6	*10104.8*	7958.5
32.5°	14869.2	14800.4	14392.5	13946.4	13332.1	12814.6	12289.5	11968.3	11022.5	*10798.2*	8427.5
35°	15896.5	15827.7	15409.6	14935.5	14260.0	13877.6	13158.7	12580.1	11759.2	*11532.4*	8980.7
37.5°	16691.8	16628.1	16192.2	15725.7	15136.9	14833.5	14209.0	13268.3	12608.1	*12371.0*	9567.0
40°	17137.9	17092.1	16742.8	16373.2	15878.7	15616.1	15335.7	14137.6	13558.9	*13321.9*	10257.8
42.5°	17273.0	17242.5	16997.7	16806.6	16472.6	16273.8	16434.4	15159.8	14573.5	*14367.0*	11035.3
45°	16934.0	16934.0	16862.6	16959.5	16974.8	16972.2	17535.6	16314.6	15820.0	*15593.2*	12131.4
47.5°	16067.3	16123.4	16227.9	16704.6	17206.8	17627.4	18822.9	17854.3	17423.4	*17237.4*	13683.8
50°	14481.7	14634.7	14991.6	15922.0	16990.1	18060.7	20041.4	20130.6	20541.1	*20212.2*	15967.9
52.5°	12159.5	12136.5	13046.6	14372.1	16001.0	18078.6	20711.9	22139.4	23243.2	*23016.3*	17665.6
55°	9663.8	9625.6	10474.5	12302.2	14484.3	17395.4	21114.6	23059.6	24742.1	*24538.1*	19192.6
57.5°	7400.2	7351.8	8106.3	9755.6	12343.0	15944.9	21038.1	24155.8	26804.3	*26699.8*	21267.6
60°	5093.2	5034.6	5740.7	7183.5	9809.1	13727.2	20191.8	24719.1	29218.4	*29254.1*	23487.9
62.5°	3059.0	3025.8	3538.2	4657.3	7056.1	10979.2	18211.1	24377.5	31140.4	*31301.0*	24915.4
65°	*1845.6*	*1822.6*	*2123.4*	*2778.6*	*4476.3*	*8012.0*	*15157.3*	*22631.4*	*31418.3*	*31787.9*	*24948.5*
67.5°	1343.4	1346.0	1432.6	1692.6	2610.3	5174.8	11374.3	19501.0	29970.4	*30352.7*	23375.7
70°	1167.5	1172.6	1218.5	1277.1	1577.9	2962.1	7395.1	15394.3	25690.3	*25986.0*	19605.5
72.5°	1037.5	1037.5	1068.1	1098.7	1233.8	1804.8	3961.4	10760.0	20276.0	*20355.0*	14963.5
75°	912.6	904.9	920.2	935.5	1070.6	1261.8	1927.2	7497.1	14976.3	*14792.7*	9671.5
77.5°	726.5	718.9	721.4	736.7	859.1	902.4	976.3	4682.8	8440.2	*7966.1*	4272.4
80°	517.5	512.4	540.4	578.7	634.7	553.2	611.8	2266.2	3347.0	*3115.1*	1656.9
82.5°	308.4	318.6	362.0	392.6	438.5	346.7	395.1	757.1	1185.4	*1154.8*	673.0
85°	43.3	45.9	130.0	150.4	188.6	135.1	209.0	341.6	474.1	*507.3*	237.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.8	61.2	135.1	*137.7*	58.6
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: P643445
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7
2.5°	3494.9	3375.1	3204.3	3061.5	2941.7	2844.9	2763.3	2702.1	2684.3	2658.8	2658.8
5°	3622.3	3405.7	3099.8	2883.1	2758.2	2684.3	2633.3	2607.8	2595.0	2579.7	2572.1
7.5°	3798.2	3494.9	3081.9	2862.7	2765.8	2719.9	2686.8	2671.5	2661.3	2646.0	2646.0
10°	4040.4	3627.4	3138.0	2934.1	2857.6	2811.7	2773.5	2748.0	2725.0	2702.1	2697.0
12.5°	4303.0	3800.8	3240.0	3030.9	2949.4	2893.3	2839.8	2801.5	2773.5	2745.4	2737.8
15°	4593.6	3979.2	3349.6	3125.3	3023.3	2946.8	2883.1	2824.5	2786.2	2745.4	2740.3
17.5°	4879.1	4160.2	3441.4	3189.0	3059.0	2964.7	2872.9	2796.4	2748.0	2702.1	2689.4
20°	5220.7	4341.2	3505.1	3206.8	3051.3	2926.4	2816.8	2719.9	2666.4	2612.9	2605.2
22.5°	5534.2	4509.4	3535.7	3181.3	2992.7	2844.9	2717.4	2612.9	2554.2	2500.7	2490.5
25°	5837.6	4657.3	3522.9	3120.2	2903.5	2732.7	2600.1	2495.6	2439.5	2383.5	2368.2
27.5°	6130.7	4756.7	3471.9	3025.8	2791.3	2607.8	2480.3	2386.0	2337.6	2289.1	2268.7
30°	6418.8	4848.5	3392.9	2903.5	2648.6	2477.8	2373.3	2307.0	2258.5	2207.6	2192.3
32.5°	6709.4	4914.8	3273.1	2760.7	2503.3	2363.1	2299.3	2250.9	2199.9	2148.9	2133.6
35°	7002.5	4942.8	3127.8	2597.6	2380.9	2289.1	2266.2	2210.1	2141.3	2080.1	2059.7
37.5°	7351.8	4968.3	2946.8	2437.0	2273.8	2253.4	2248.4	2164.2	2082.7	1998.5	1975.6
40°	7772.4	5001.4	2760.7	2291.7	2187.2	2240.7	2220.3	2105.6	1942.5	1860.9	1835.4
42.5°	8287.3	5062.6	2567.0	2159.1	2123.4	2192.3	2169.3	1962.8	1853.2	1807.3	1794.6
45°	9044.4	5286.9	2373.3	2054.6	2075.0	2123.4	2087.8	1878.7	1835.4	1804.8	1789.5
47.5°	10392.9	5631.1	2205.0	1975.6	2036.8	2062.3	1924.6	1855.8	1822.6	1781.9	1764.0
50°	11794.9	5781.5	2069.9	1927.2	1993.4	2006.2	1835.4	1825.2	1802.3	1758.9	1741.1
52.5°	12743.2	5761.1	1988.3	1909.3	1957.7	1909.3	1794.6	1792.1	1776.8	1725.8	1705.4
55°	13813.9	5796.8	1952.6	1914.4	1942.5	1746.2	1743.6	1751.3	1743.6	1687.5	1677.3
57.5°	15259.2	5906.4	1934.8	1932.3	1932.3	1667.1	1695.2	1705.4	1690.1	1664.6	1656.9
60°	16648.5	5914.0	1901.7	1952.6	1924.6	1618.7	1639.1	1649.3	1631.5	1626.4	1623.8
62.5°	17171.1	5547.0	1827.7	1937.4	1894.0	1565.2	1580.5	1585.6	1567.7	1580.5	1577.9
65°	*16393.6*	*4766.9*	*1705.4*	*1863.4*	*1799.7*	*1516.7*	*1506.5*	*1519.3*	*1488.7*	*1521.8*	*1524.4*
67.5°	14555.7	3788.0	1519.3	1723.2	1667.1	1463.2	1442.8	1442.8	1391.8	1442.8	1440.3
70°	11736.3	2676.6	1246.5	1498.9	1521.8	1399.5	1389.3	1330.7	1249.1	1325.6	1317.9
72.5°	8896.5	1922.1	981.4	1185.4	1310.3	1310.3	1312.8	1213.4	1119.1	1154.8	1124.2
75°	5636.2	1353.6	785.1	907.5	1027.3	1149.7	1208.3	1024.8	940.6	925.3	910.0
77.5°	2539.0	889.7	611.8	695.9	729.1	907.5	1103.8	882.0	767.3	734.2	724.0
80°	1063.0	553.2	435.9	492.0	448.7	762.2	973.8	685.7	563.4	517.5	484.3
82.5°	466.5	328.8	277.9	265.1	280.4	565.9	726.5	456.3	351.8	476.7	481.8
85°	196.3	173.3	142.8	130.0	114.7	216.7	341.6	178.4	219.2	124.9	102.0
87.5°	45.9	51.0	38.2	25.5	15.3	2.5	0.0	0.0	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

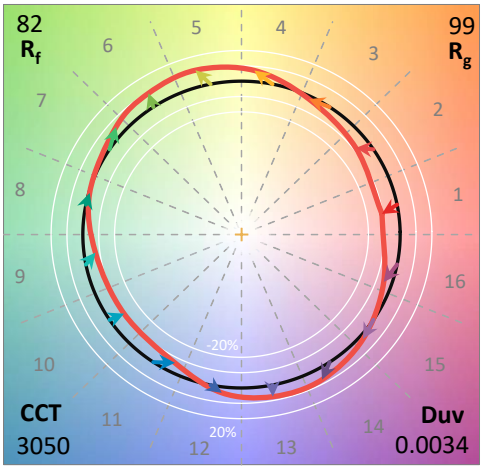
Test Information

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

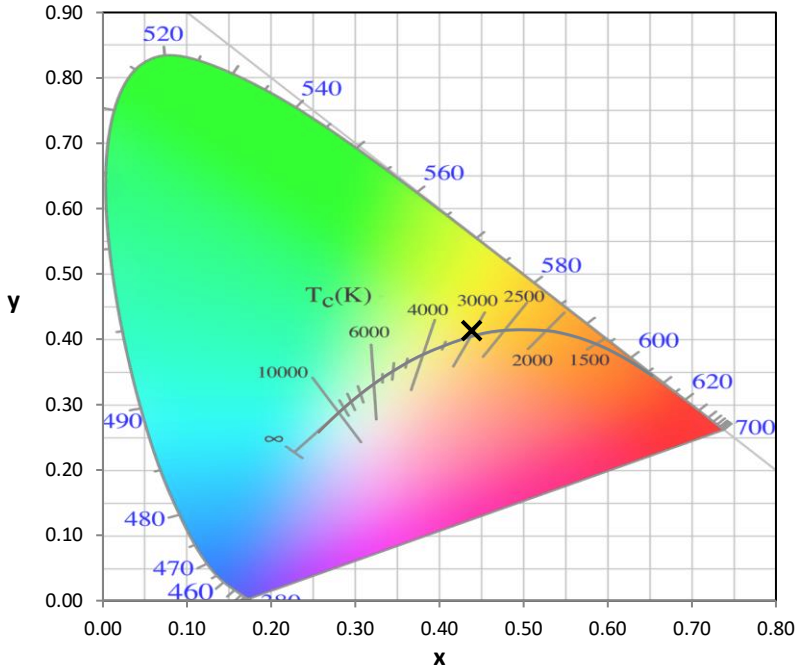
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

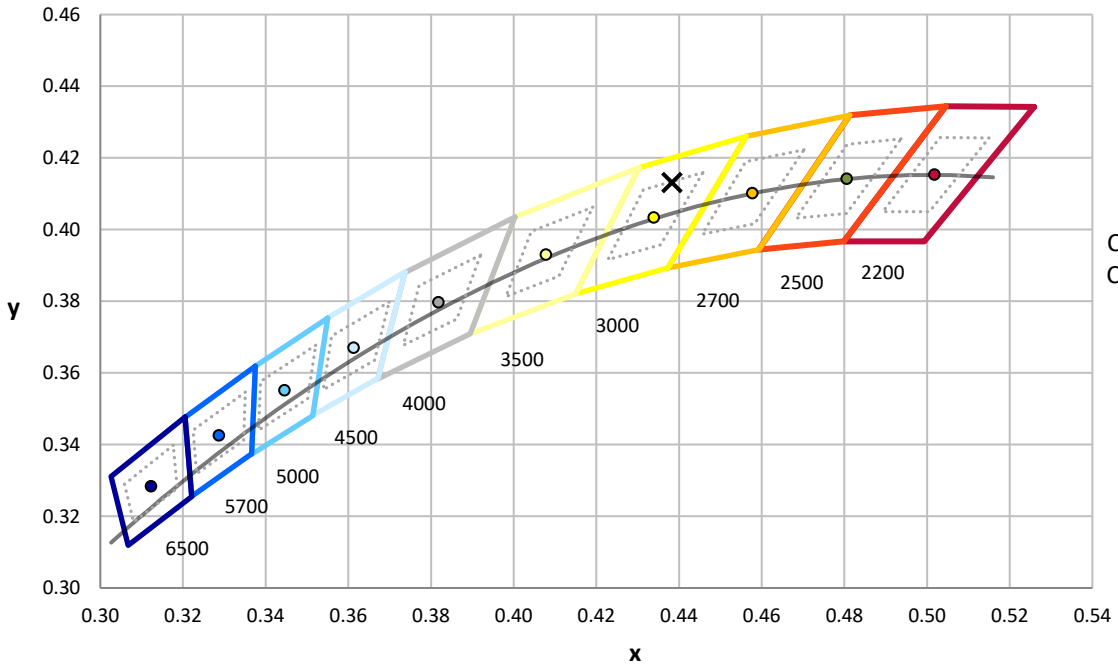
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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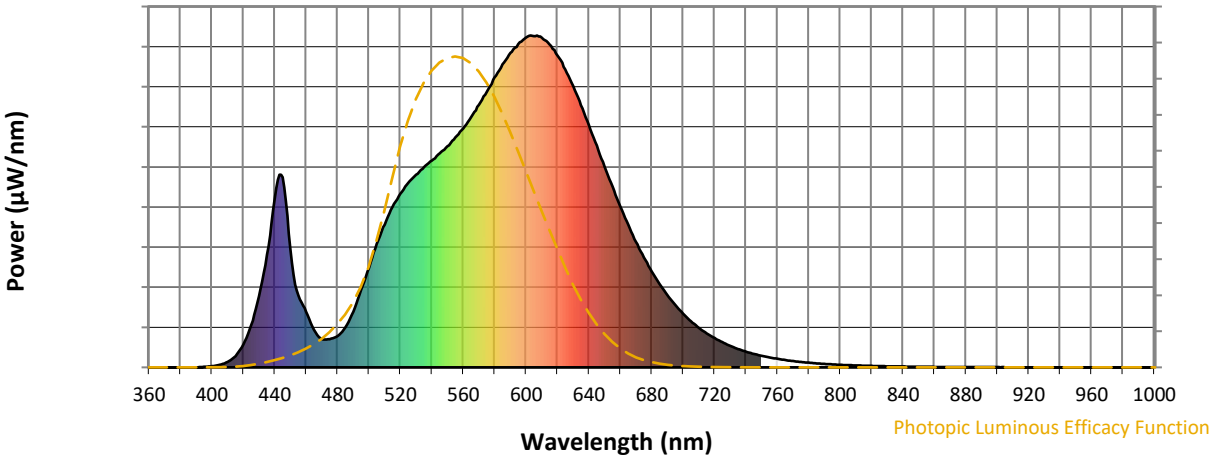
Photopic Flux vs. Wavelength



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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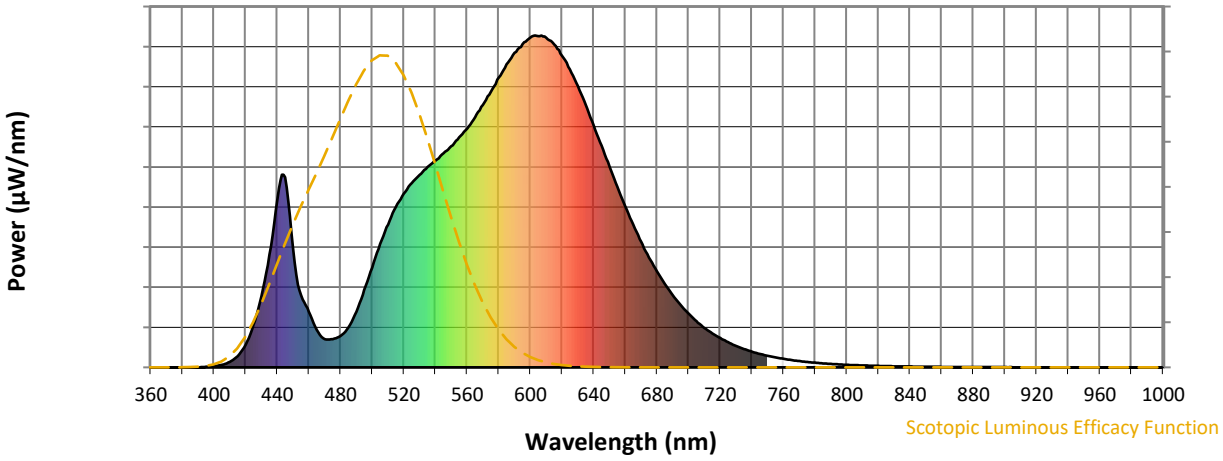
Scotopic Flux vs. Wavelength



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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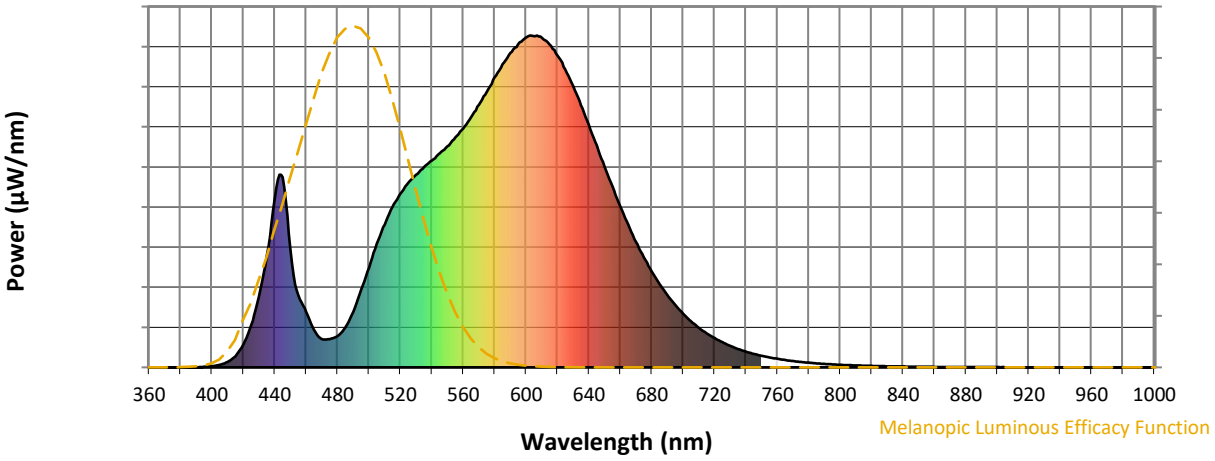
Melanopic Flux vs. Wavelength



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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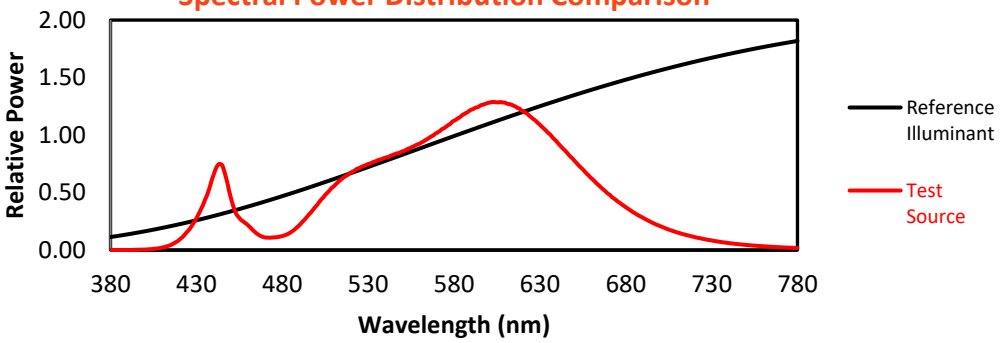
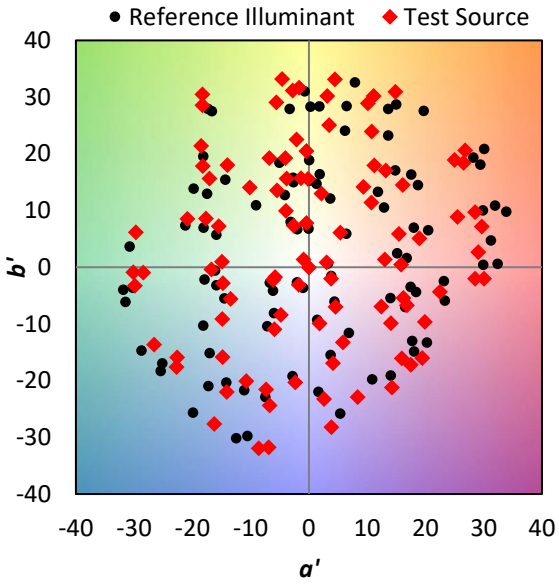
Summary

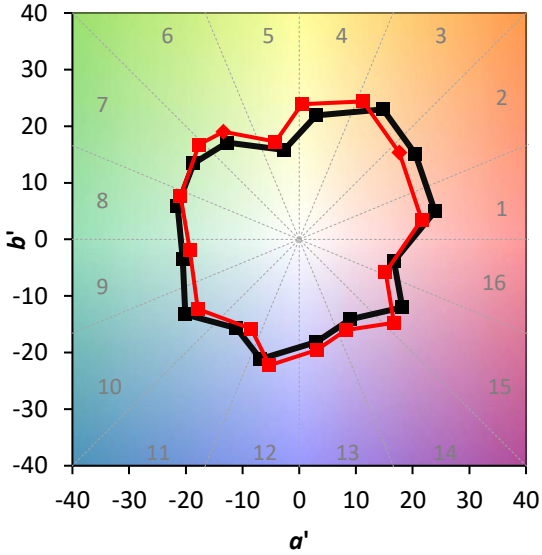
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

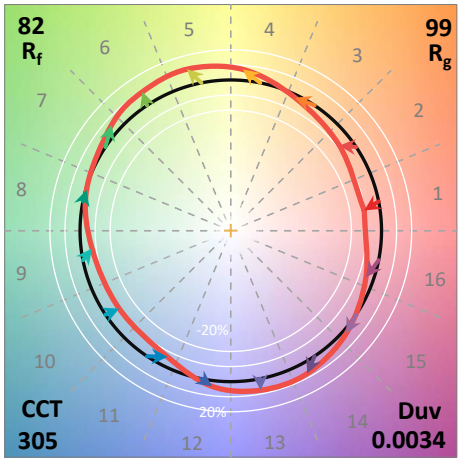
Spectral Power Distribution Comparison

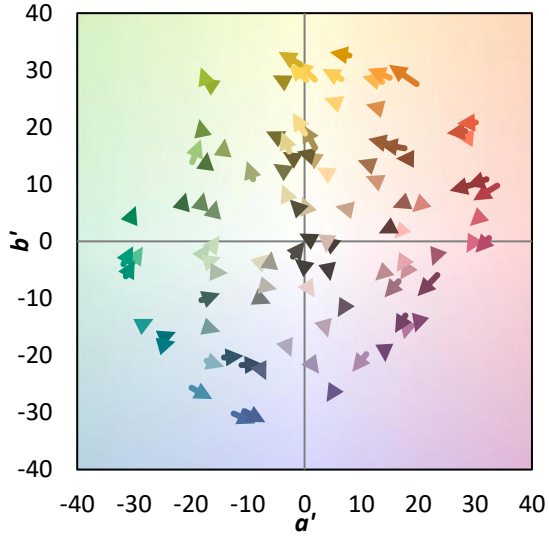


Color Vector Graphics









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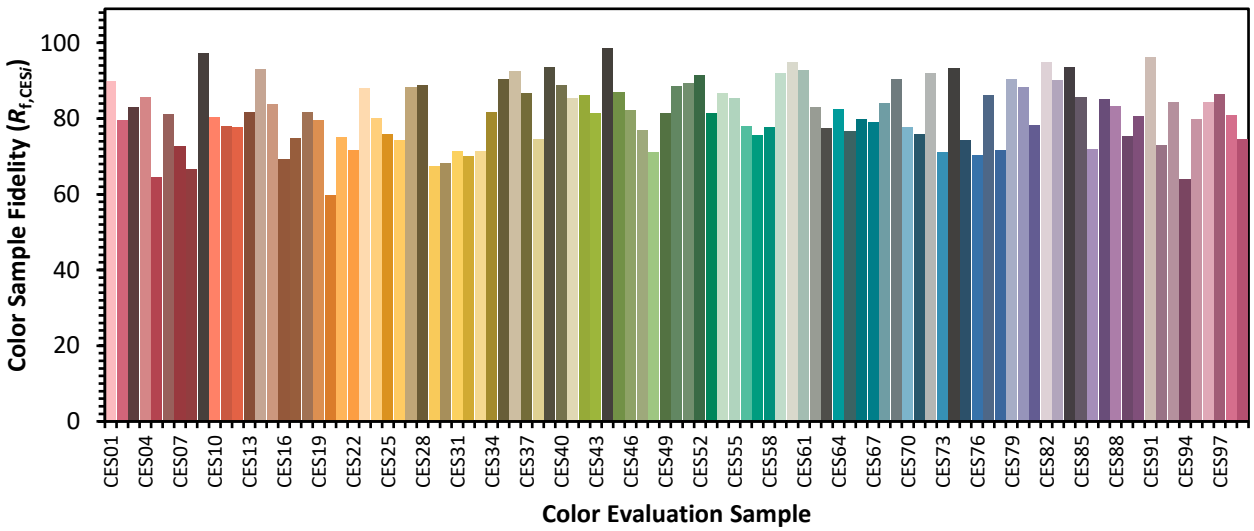
Individual Sample Fidelity Index ($R_{f,i}$)

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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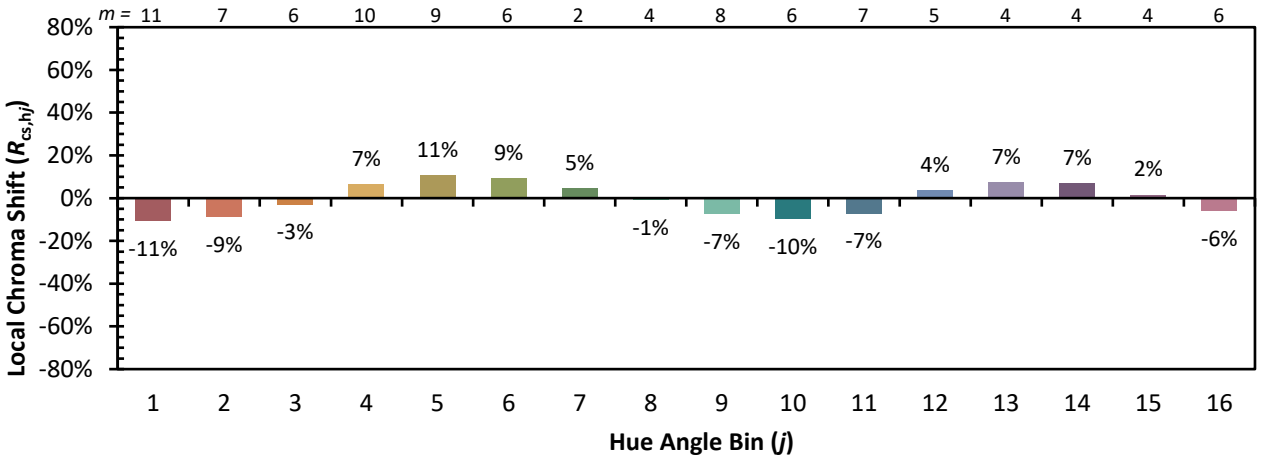
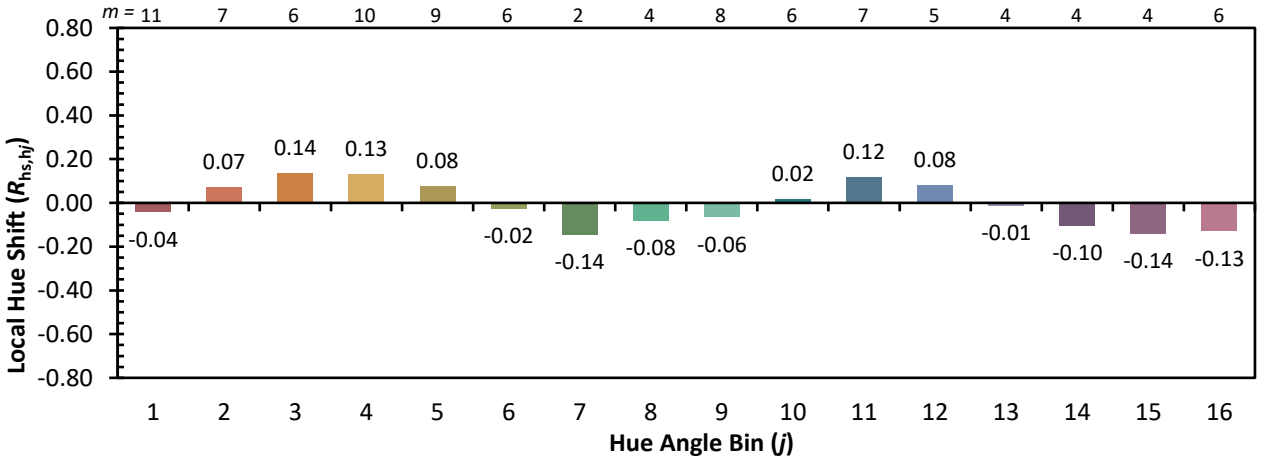
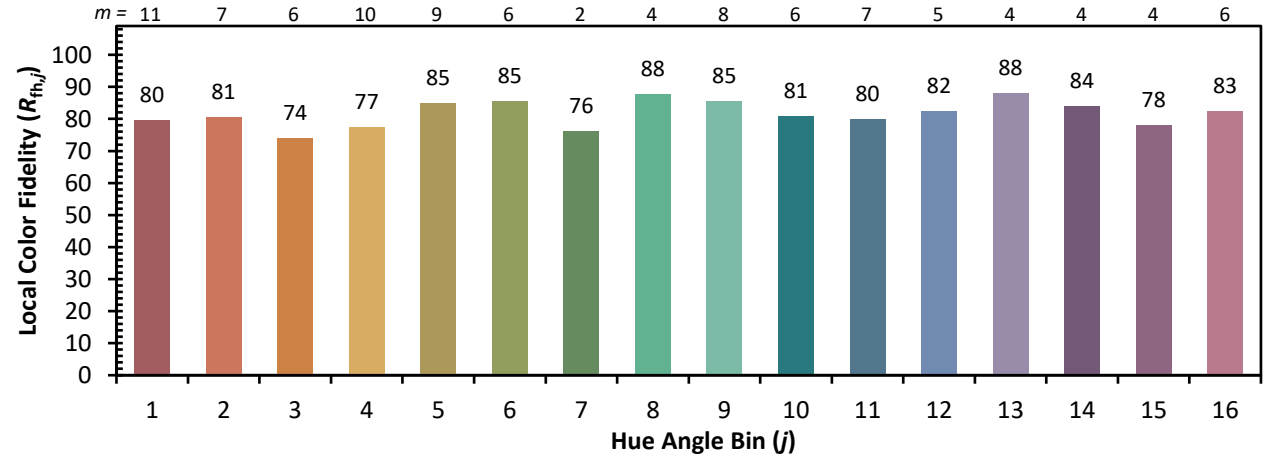
Color Rendition by Hue-Angle Bin







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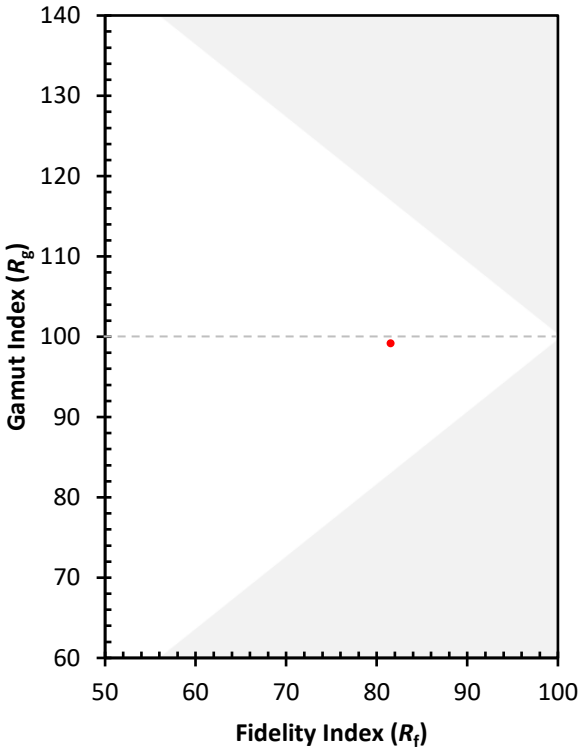
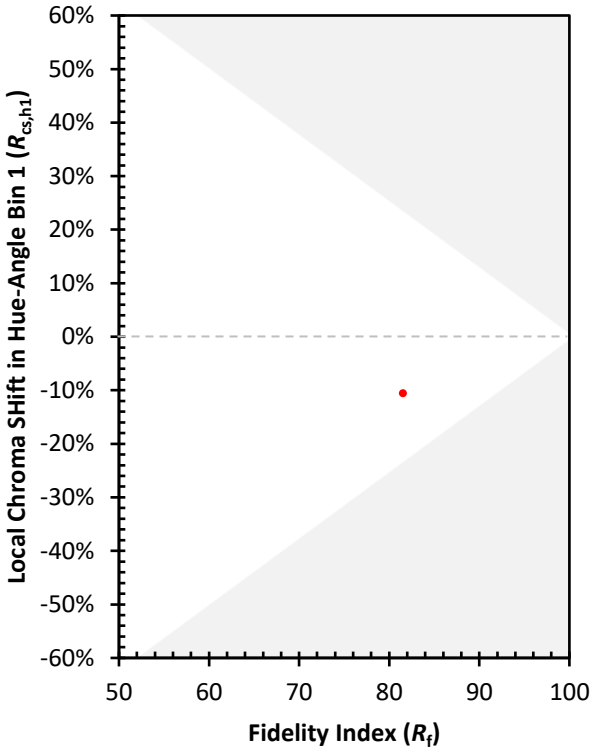
Measure Comparisons





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