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: P643442

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

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:	P643442
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
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-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23837.8 lumens
Efficiency:	N/A
Efficacy:	73.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G1

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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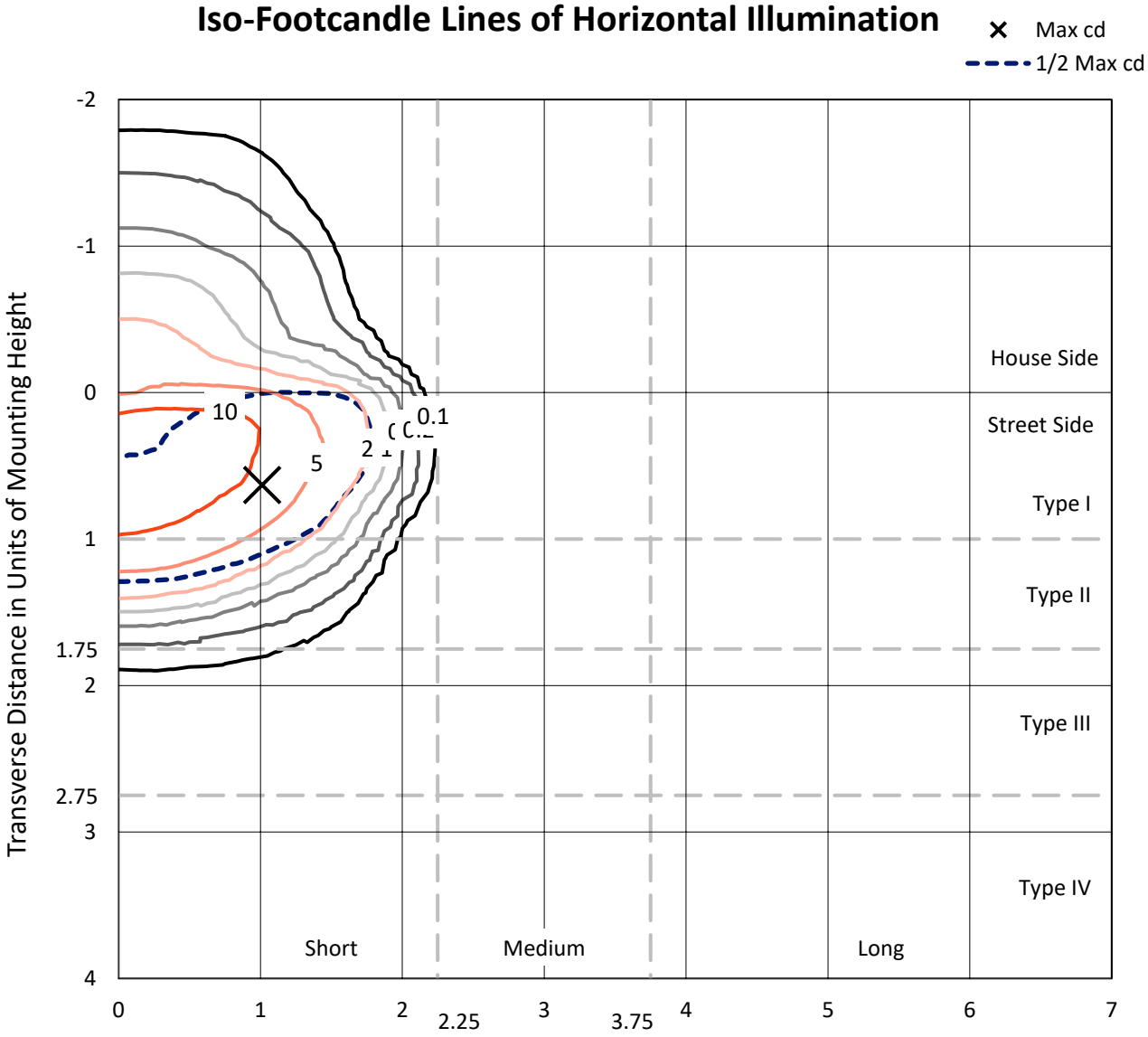
Scaled Data Report

REPORT NUMBER: P643442
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

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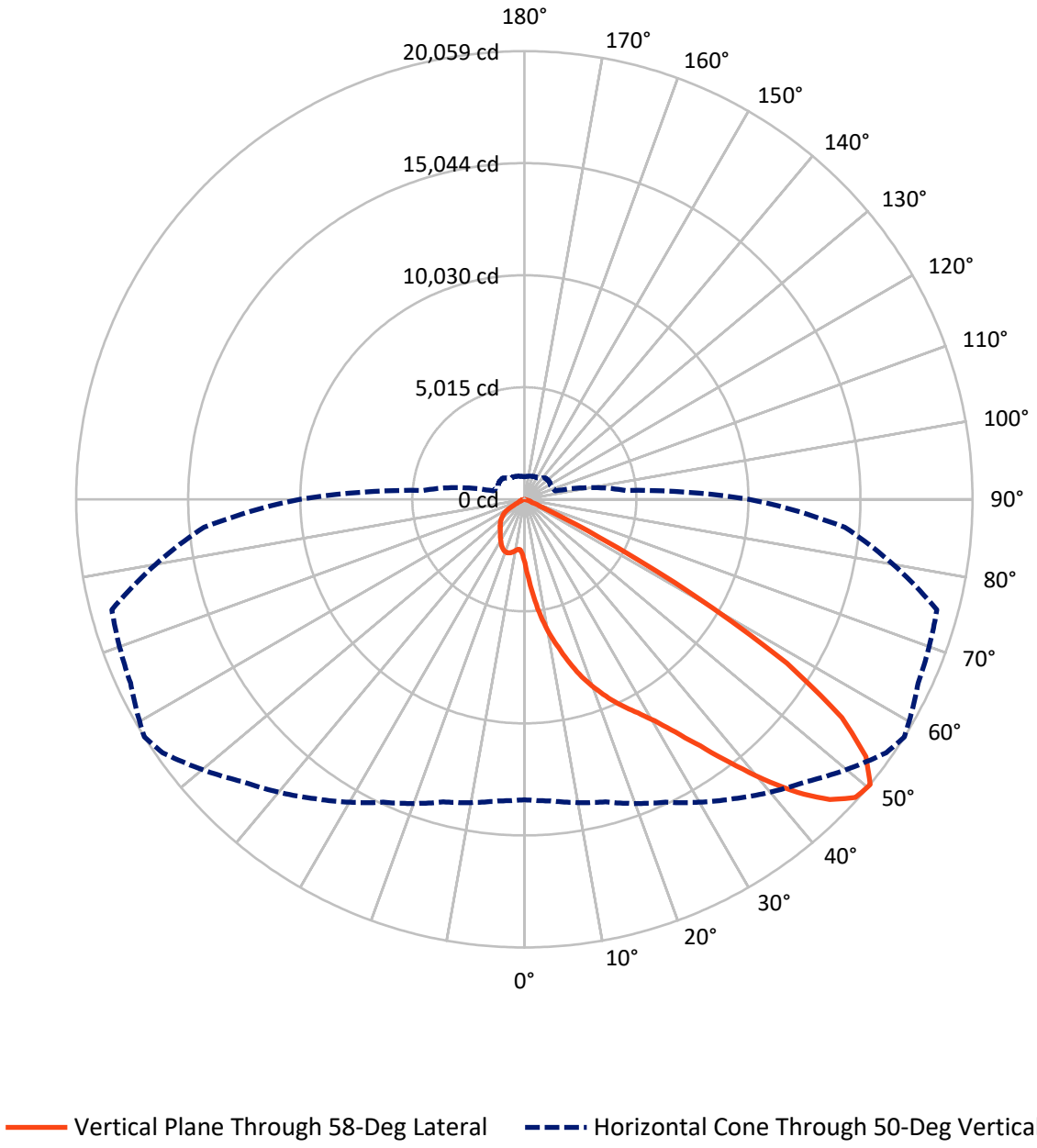
Luminous Intensity Polar Plot



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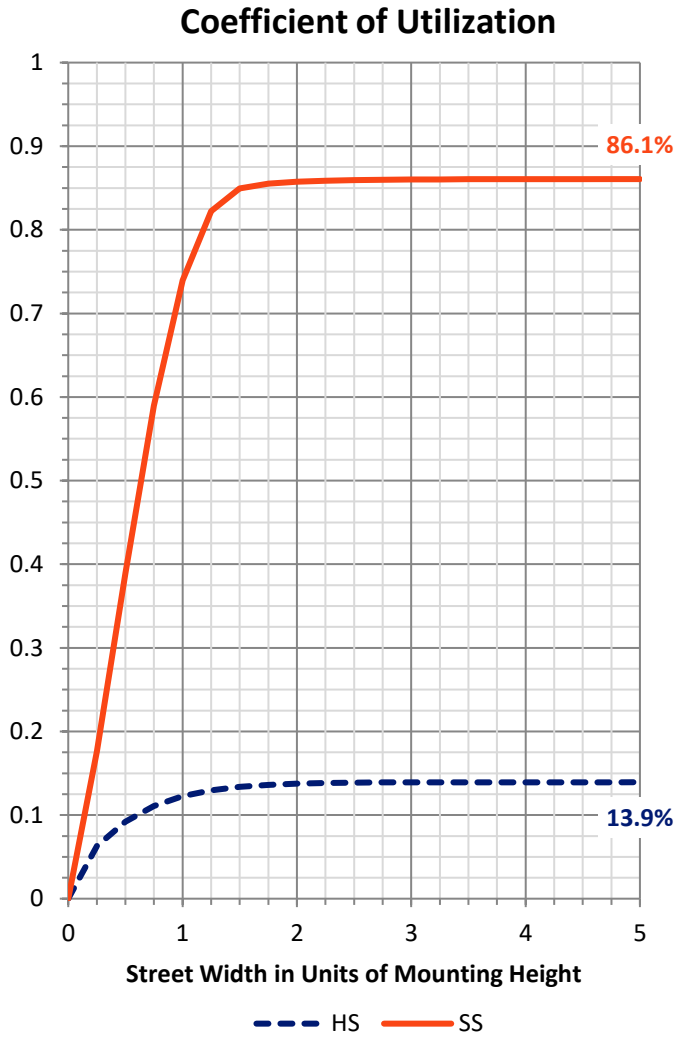
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3338.8	0.0	3338.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20499.0	0.0	20499.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	23837.8	0.0	23837.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	1.5
10°-20°	1396.4	5.9
20°-30°	2825.7	11.9
30°-40°	4999.0	21.0
40°-50°	7287.5	30.6
50°-60°	5841.1	24.5
60°-70°	1052.3	4.4
70°-80°	82.9	0.3
80°-90°	0.1	0.0
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°	23837.8	100.0
0°-180°	23837.8	100.0



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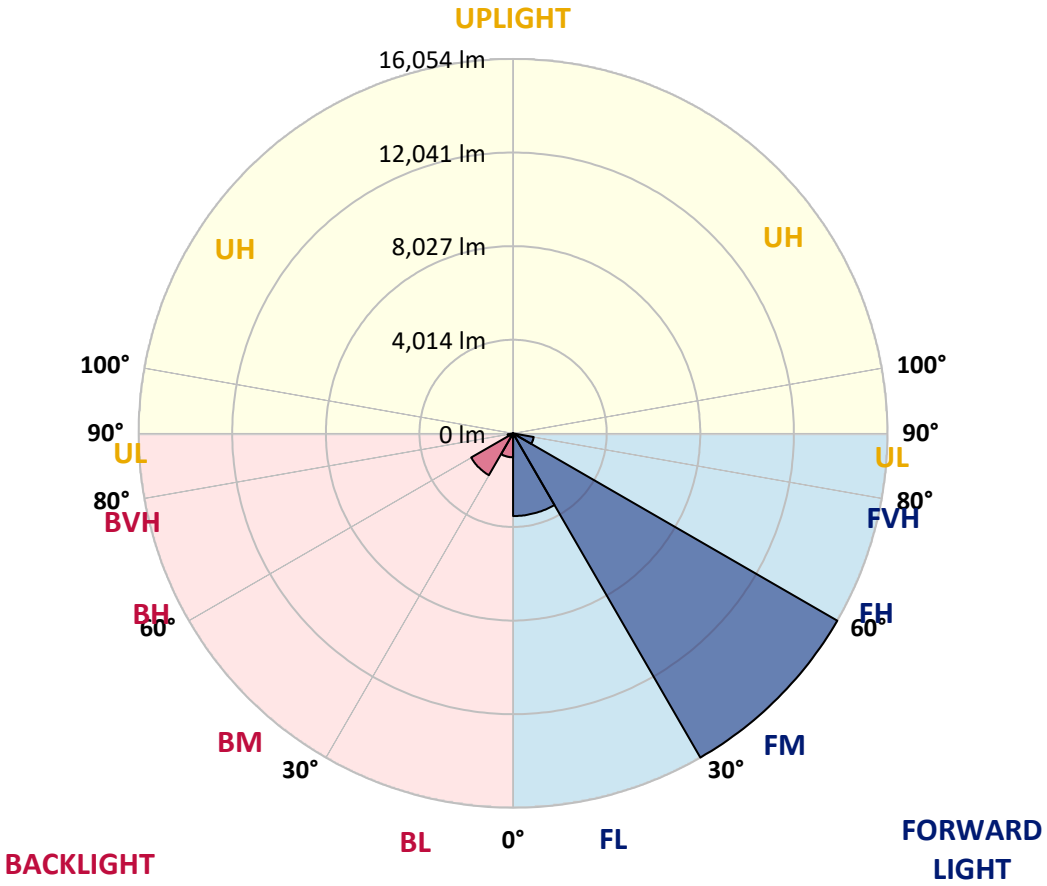
REPORT NUMBER: P643442
CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3547.0	14.9			
FM	(30°-60°)	16054.0	67.3			
FH	(60°-80°)	898.0	3.8			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	1027.9	4.3	B3/2500		
BM	(30°-60°)	2073.6	8.7	B2/2500		
BH	(60°-80°)	237.3	1.0	B1/500		G1/500
BVH	(80°-90°)	0.1	0.0			G0/10
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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Scaled Data Report

REPORT NUMBER: P643442
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	*2847.4*	2847.4	2847.4	2847.4
2.5°	4213.7	4147.4	4109.2	4078.6	3943.5	3729.4	3589.2	*3515.3*	3392.9	3186.4	3008.0
5°	5498.5	5450.1	5360.8	5299.7	5126.3	4823.0	4509.4	*4384.5*	4106.7	3640.2	3222.1
7.5°	6349.9	6314.2	6281.1	6199.5	6036.4	5761.0	5414.4	*5284.4*	4856.1	4193.3	3507.6
10°	7005.0	6977.0	6938.7	6936.2	6808.7	6561.5	6222.4	*6087.3*	5623.4	4794.9	3844.1
12.5°	7581.1	7558.2	7550.5	7621.9	7540.3	7356.8	6989.7	*6821.5*	6329.5	5409.3	4216.3
15°	7976.2	7971.1	8004.3	8144.5	8190.4	8106.3	7797.8	*7616.8*	7050.9	6026.2	4626.7
17.5°	8157.2	8172.5	8236.3	8478.4	8682.4	8753.7	8516.7	*8363.7*	7767.2	6650.7	5065.1
20°	8465.7	8460.6	8498.8	8728.2	8978.1	9233.0	9161.6	*9031.6*	8491.2	7310.9	5552.0
22.5°	9334.9	9261.0	9179.4	9215.1	9304.3	9602.6	9735.1	*9668.9*	9238.1	7989.0	6054.2
25°	10670.7	10594.2	10331.6	10076.7	9908.5	10043.6	10224.6	*10257.7*	9979.9	8684.9	6579.3
27.5°	12088.0	12019.2	11723.5	11341.1	10859.3	10624.8	10759.9	*10826.2*	10708.9	9513.4	7137.6
30°	13416.1	13324.3	13000.6	12526.5	11968.2	11608.8	11455.8	*11501.7*	11570.5	10494.8	7792.7
32.5°	14568.3	14499.5	14112.0	13612.4	13074.5	12699.8	12342.9	*12419.4*	12587.6	11695.4	8631.4
35°	15544.6	15508.9	15098.5	14601.4	14033.0	13841.8	13535.9	*13551.2*	13719.4	13145.9	9653.6
37.5°	16393.5	16332.3	15960.1	15498.7	15047.5	15017.0	14932.8	*14940.5*	15027.2	14836.0	10828.7
40°	16928.8	16872.7	16607.6	16322.1	16000.9	16006.0	16441.9	*16475.1*	16375.6	16495.5	12070.2
42.5°	17130.2	17089.4	16946.7	16949.2	16916.1	17066.5	17884.7	*17945.9*	17589.0	17798.1	13130.6
45°	16781.0	16763.1	16773.3	17140.4	17538.1	18002.0	19065.0	*19172.0*	18667.3	18662.2	13959.1
47.5°	15654.2	15618.6	15916.8	16541.3	17461.6	18364.0	19778.7	*19944.4*	19421.9	19156.8	14479.1
50°	*13446.7*	*13548.7*	*14020.2*	*14958.3*	*16357.8*	*17866.9*	*19771.1*	*20059.1*	*19449.9*	*19113.4*	*14392.4*
52.5°	9740.2	9719.9	10752.3	12042.1	13744.9	16276.2	18720.9	*19141.5*	18769.3	18687.7	14198.7
55°	5299.7	5485.7	6181.7	7889.6	10015.6	13265.7	16322.1	*17239.8*	17670.6	18532.2	14547.9
57.5°	1947.5	2029.1	2465.0	3673.3	5302.2	8249.0	12467.8	*13852.0*	15182.7	18098.9	14489.3
60°	785.1	800.4	973.8	1351.0	2227.9	4198.4	7479.2	*8707.8*	9962.0	13854.6	11119.3
62.5°	571.0	591.4	660.2	790.2	1126.7	1835.4	3224.7	*3749.8*	4099.0	6862.3	5478.1
65°	461.4	476.7	532.8	591.4	744.3	986.5	1040.0	*1001.8*	996.7	1774.2	1256.7
67.5°	382.4	397.7	438.5	479.2	535.3	492.0	356.9	*374.7*	305.9	303.3	247.3
70°	280.4	298.2	339.0	382.4	321.2	132.6	206.5	*305.9*	232.0	193.7	188.6
72.5°	211.6	224.3	262.6	249.8	94.3	51.0	137.7	*221.8*	178.4	142.8	140.2
75°	158.0	165.7	132.6	40.8	10.2	12.7	51.0	*91.8*	99.4	81.6	81.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	*7.6*	10.2	12.7	15.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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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Scaled Data Report

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CATALOG NUMBER: GWS-SA6E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4
2.5°	2906.0	2799.0	2646.0	2518.5	2421.7	2327.4	2256.0	2184.6	2182.1	2146.4	2138.7
5°	3028.4	2834.6	2554.2	2352.9	2230.5	2156.6	2105.6	2080.1	2067.3	2054.6	2049.5
7.5°	3204.3	2926.4	2538.9	2324.8	2222.8	2174.4	2138.7	2123.4	2115.8	2105.6	2103.0
10°	3420.9	3059.0	2595.0	2378.3	2289.1	2243.2	2205.0	2182.1	2169.3	2151.5	2146.4
12.5°	3681.0	3222.1	2684.2	2467.6	2373.2	2312.1	2261.1	2227.9	2210.1	2187.2	2182.1
15°	3961.4	3398.0	2783.7	2549.1	2437.0	2358.0	2294.2	2243.2	2210.1	2182.1	2174.4
17.5°	4252.0	3576.4	2872.9	2605.2	2467.6	2373.2	2281.5	2212.6	2171.9	2136.2	2126.0
20°	4578.2	3760.0	2931.5	2615.4	2457.4	2332.5	2225.4	2138.7	2097.9	2049.5	2039.3
22.5°	4919.8	3930.8	2957.0	2592.5	2401.3	2256.0	2141.3	2052.1	1993.4	1942.4	1927.1
25°	5251.2	4083.7	2944.3	2528.7	2317.2	2148.9	2031.7	1939.9	1876.2	1825.2	1812.4
27.5°	5603.0	4211.2	2898.4	2434.4	2202.5	2031.7	1919.5	1840.5	1781.8	1725.8	1713.0
30°	5998.1	4328.4	2824.4	2319.7	2067.3	1911.9	1825.2	1771.6	1707.9	1649.3	1631.4
32.5°	6474.8	4432.9	2717.4	2182.1	1947.5	1807.3	1758.9	1718.1	1644.2	1583.0	1570.3
35°	7020.3	4519.6	2582.3	2039.3	1830.3	1741.1	1730.9	1677.3	1580.5	1509.1	1493.8
37.5°	7652.5	4603.7	2421.7	1899.1	1743.6	1710.5	1713.0	1621.3	1504.0	1417.3	1407.1
40°	8333.1	4687.9	2243.2	1776.7	1664.6	1692.6	1669.7	1539.7	1348.5	1264.4	1254.2
42.5°	9041.8	4779.6	2062.3	1662.0	1598.3	1623.8	1590.7	1376.5	1238.9	1195.5	1190.4
45°	9681.6	4889.2	1866.0	1547.3	1532.0	1524.4	1468.3	1246.5	1187.9	1157.3	1154.8
47.5°	10143.0	4871.4	1656.9	1437.7	1460.7	1435.2	1264.4	1185.3	1136.9	1096.1	1085.9
50°	*10058.9*	*4560.4*	*1440.3*	*1315.4*	*1368.9*	*1345.9*	*1136.9*	*1114.0*	*1070.6*	*1027.3*	*1012.0*
52.5°	9844.8	4137.2	1251.6	1185.3	1269.5	1215.9	1050.2	1027.3	989.1	933.0	915.1
55°	9959.5	3739.6	1103.8	1080.8	1167.5	1006.9	953.4	917.7	876.9	815.7	808.1
57.5°	9589.8	3051.3	887.1	902.4	1032.4	859.1	836.1	780.0	711.2	670.4	665.3
60°	6637.9	1639.1	555.7	573.6	746.9	721.4	749.4	698.5	614.3	576.1	568.5
62.5°	3048.8	657.7	303.3	290.6	392.6	489.4	642.4	637.3	532.8	471.6	466.5
65°	739.2	300.8	216.7	203.9	221.8	293.2	418.1	502.2	430.8	359.4	351.8
67.5°	239.6	244.7	198.8	186.1	196.3	219.2	249.8	277.9	275.3	252.4	247.3
70°	191.2	221.8	183.5	168.2	168.2	175.9	168.2	135.1	117.3	127.5	132.6
72.5°	142.8	168.2	145.3	130.0	124.9	122.4	104.5	76.5	53.5	48.4	45.9
75°	84.1	94.3	89.2	76.5	71.4	63.7	51.0	33.1	17.8	12.7	7.6
77.5°	15.3	17.8	20.4	15.3	12.7	10.2	7.6	2.5	0.0	0.0	0.0
80°	0.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

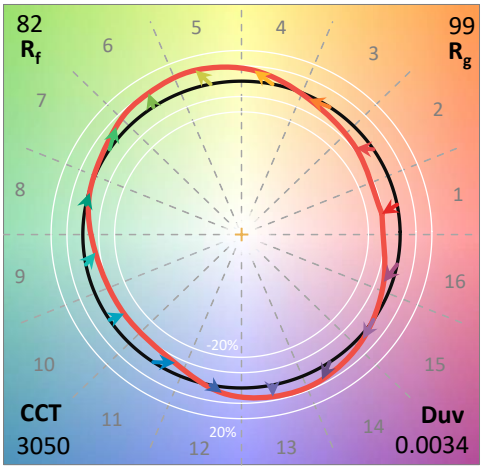
Test Information

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

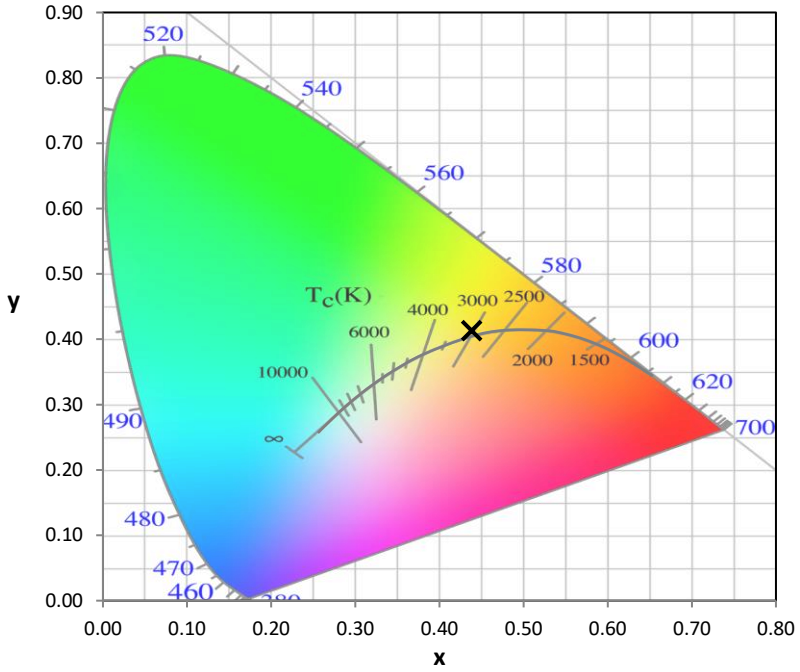
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

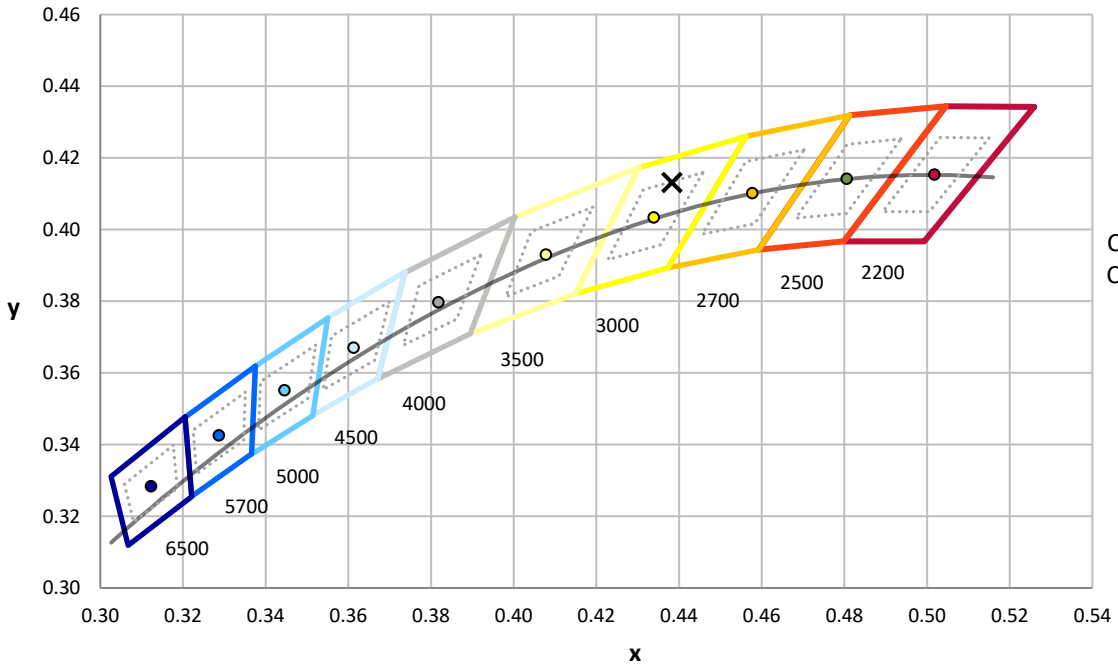
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

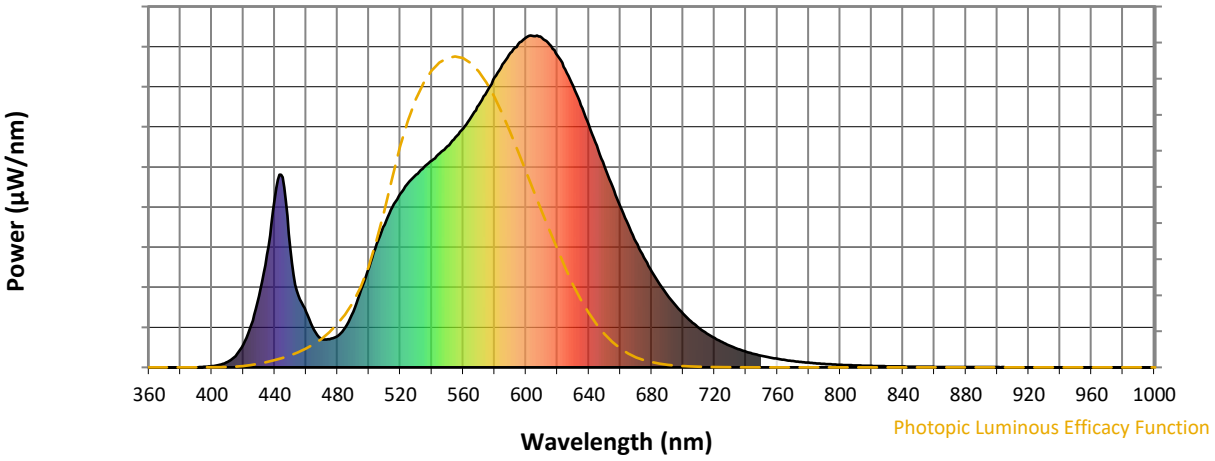


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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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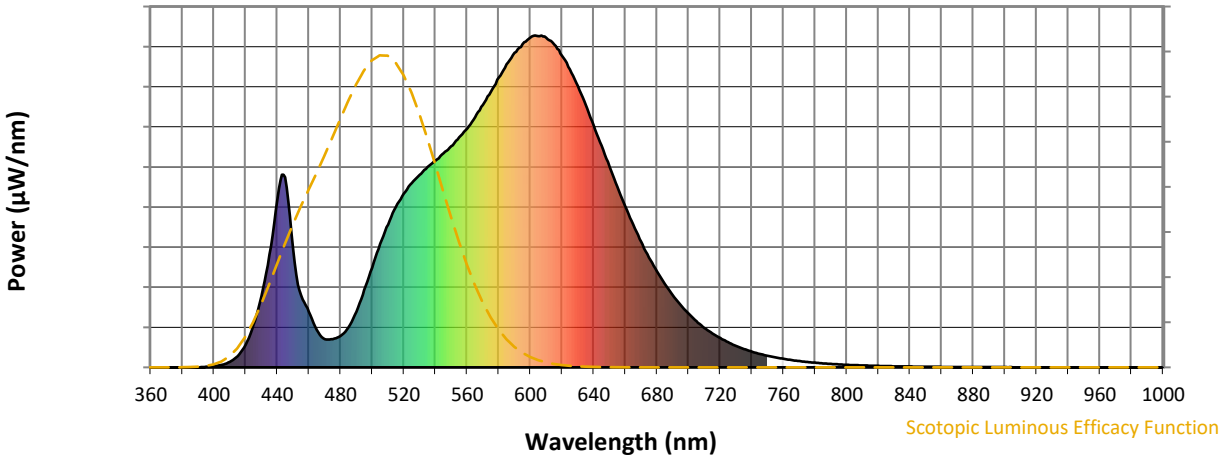
Scotopic Flux vs. Wavelength



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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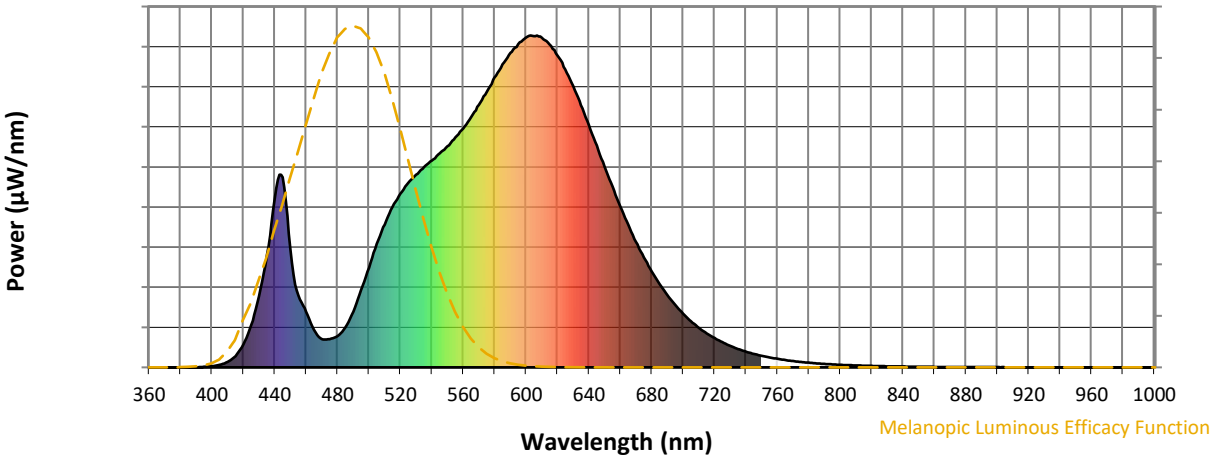
Melanopic Flux vs. Wavelength



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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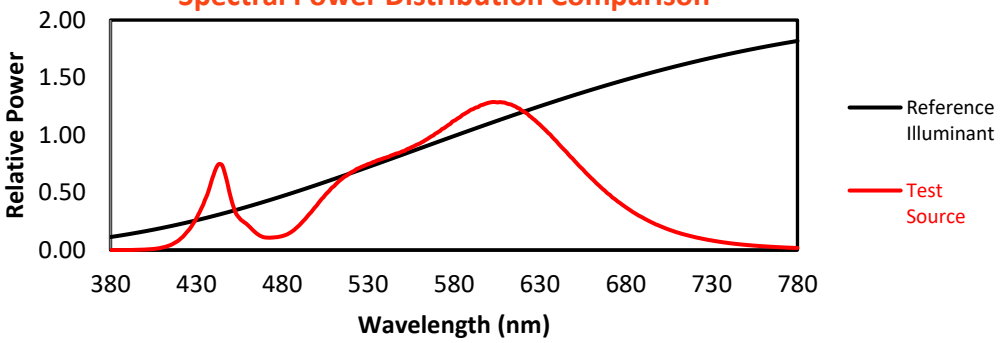
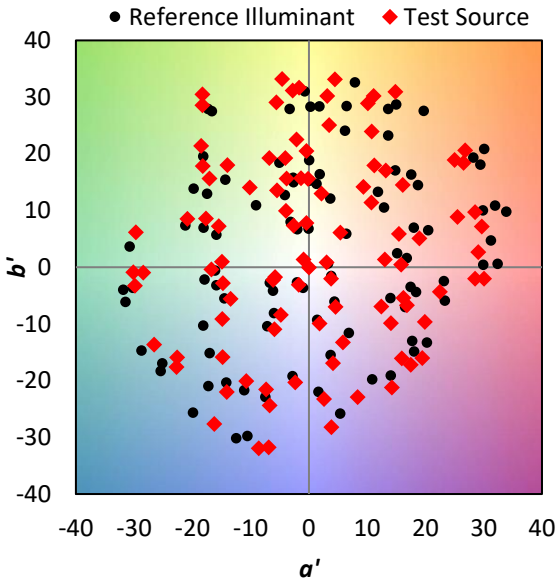
Summary

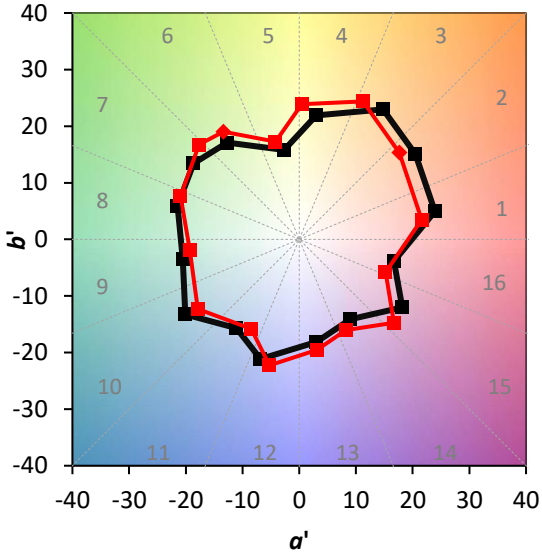
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

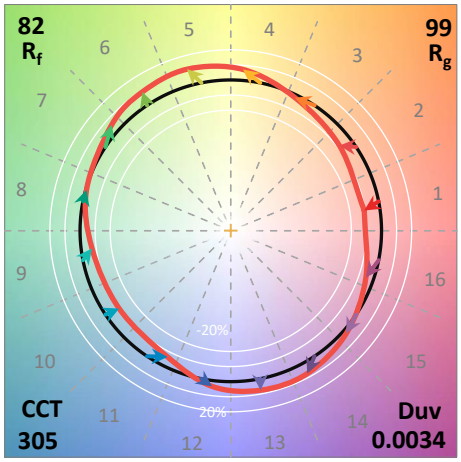
Spectral Power Distribution Comparison

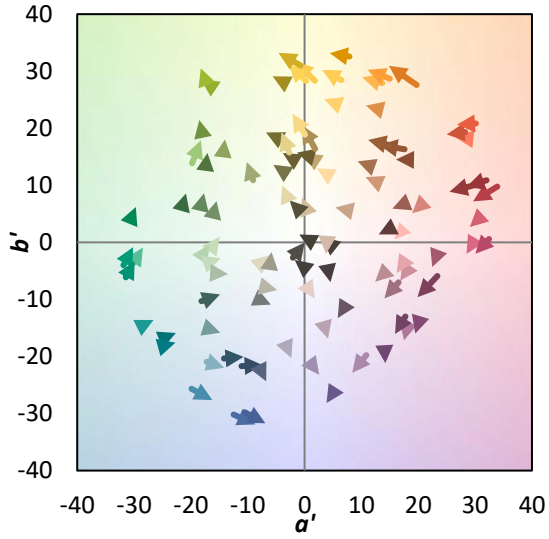


Color Vector Graphics









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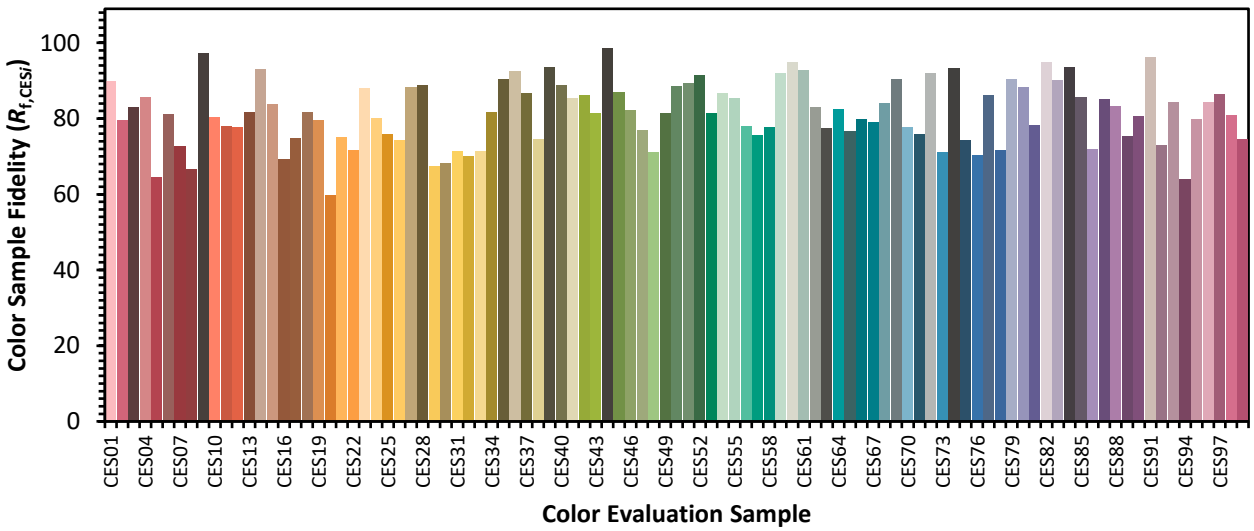
Individual Sample Fidelity Index ($R_{f,i}$)

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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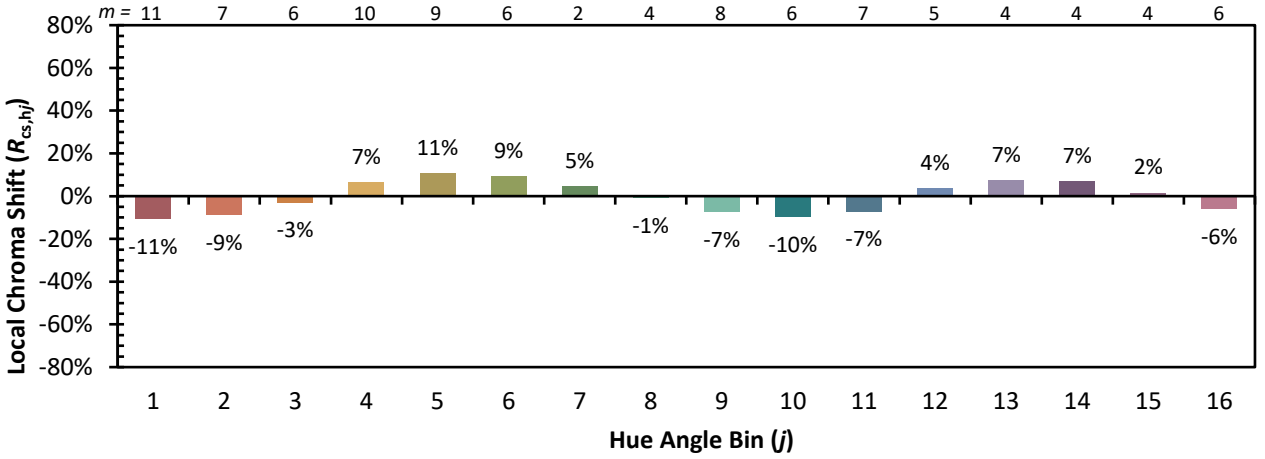
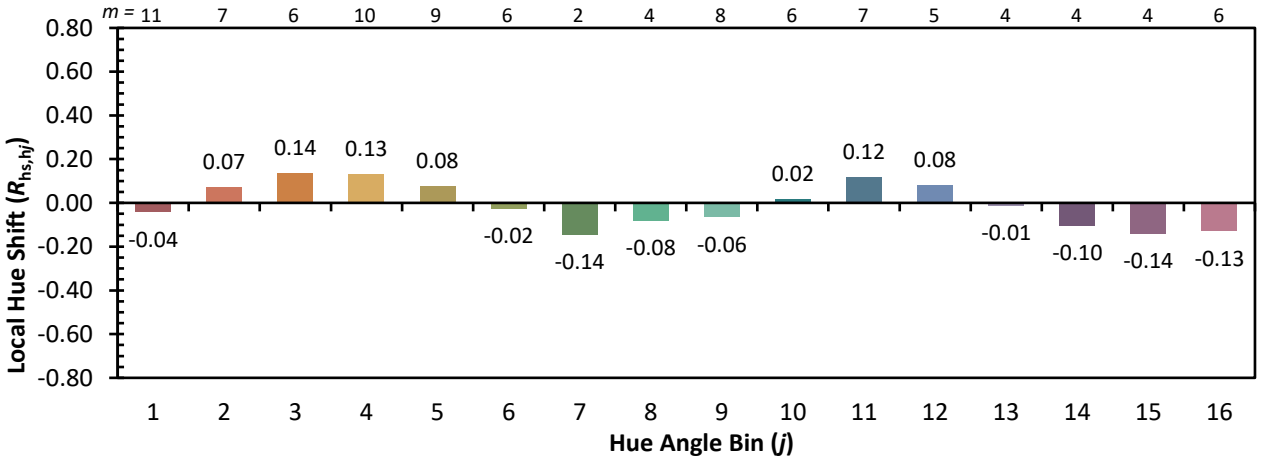
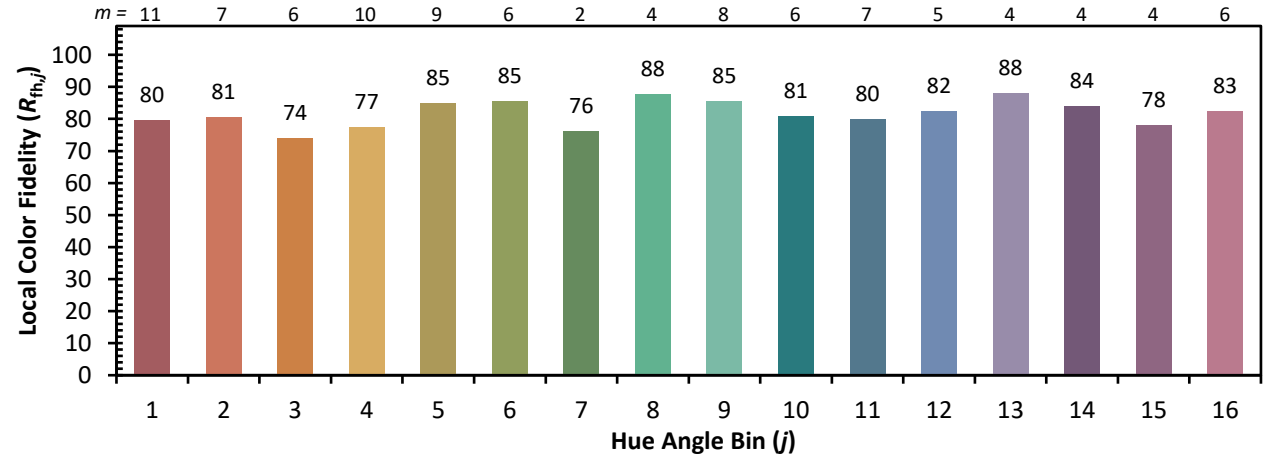
Color Rendition by Hue-Angle Bin







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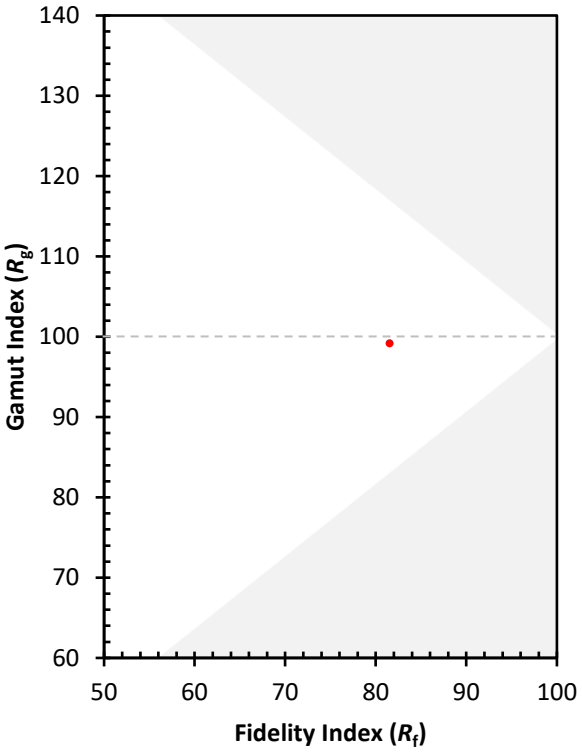
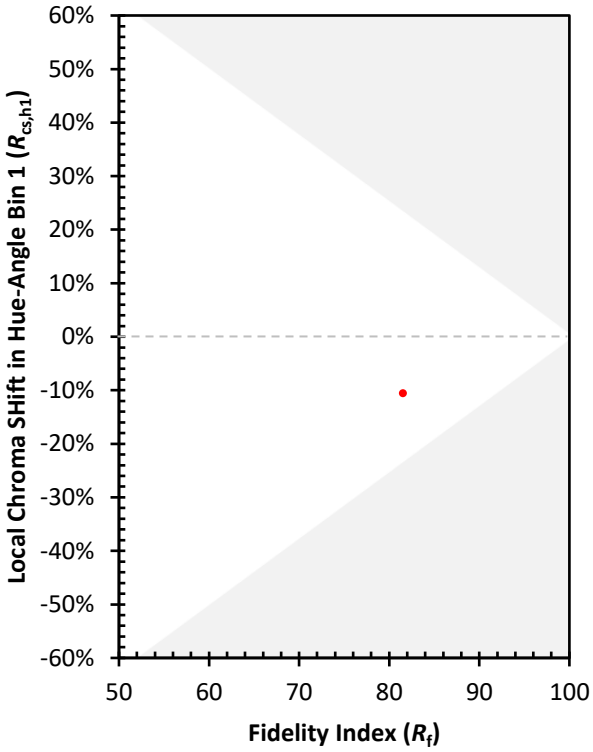
Measure Comparisons





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