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: P639462

Luminaire Tested: GWS-SA5B-830-U-SL2-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:	P639462
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5B-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13860.8 lumens
Efficiency:	N/A
Efficacy:	119.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	115.7
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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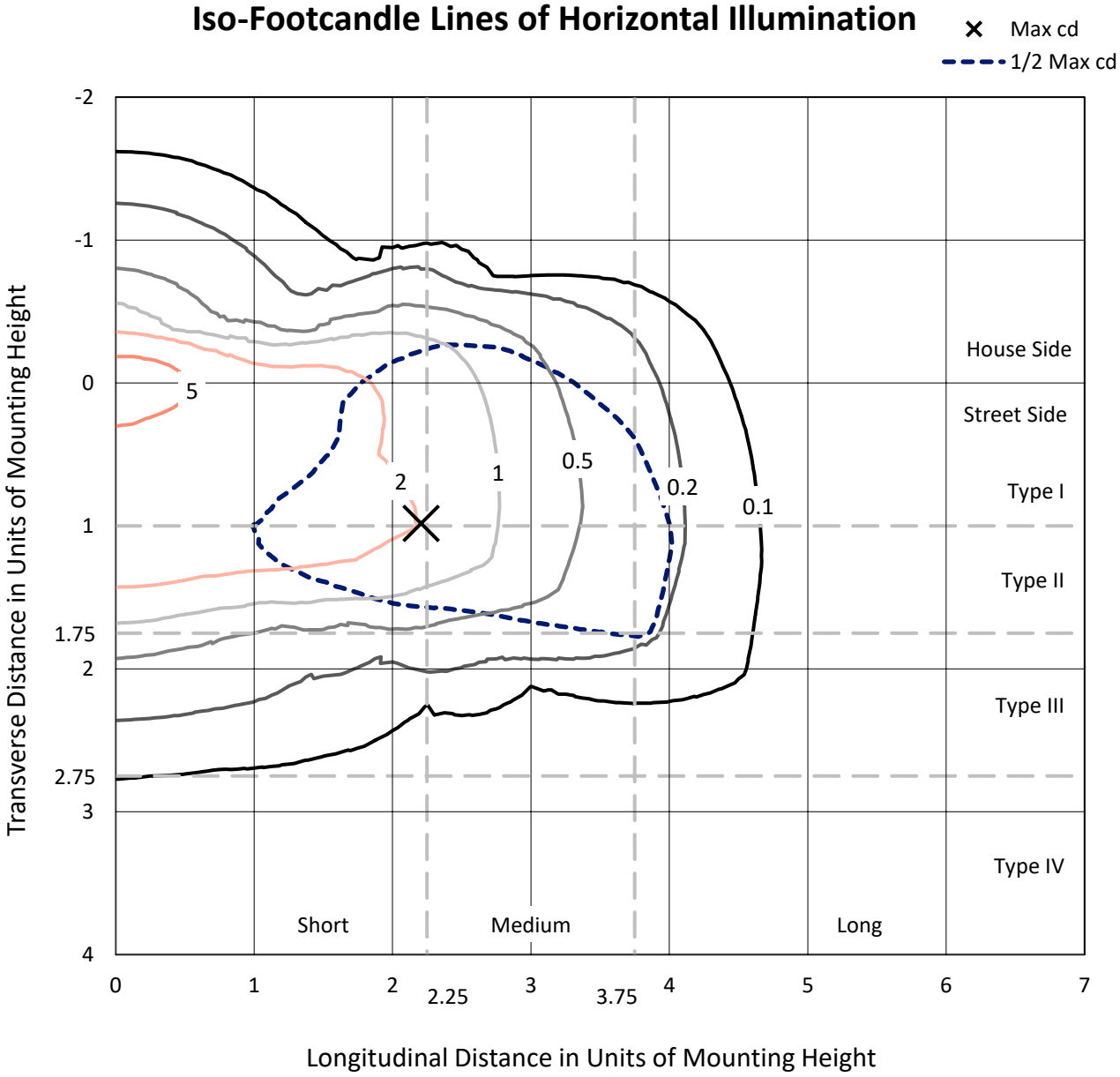
Scaled Data Report

REPORT NUMBER: P639462
CATALOG NUMBER: GWS-SA5B-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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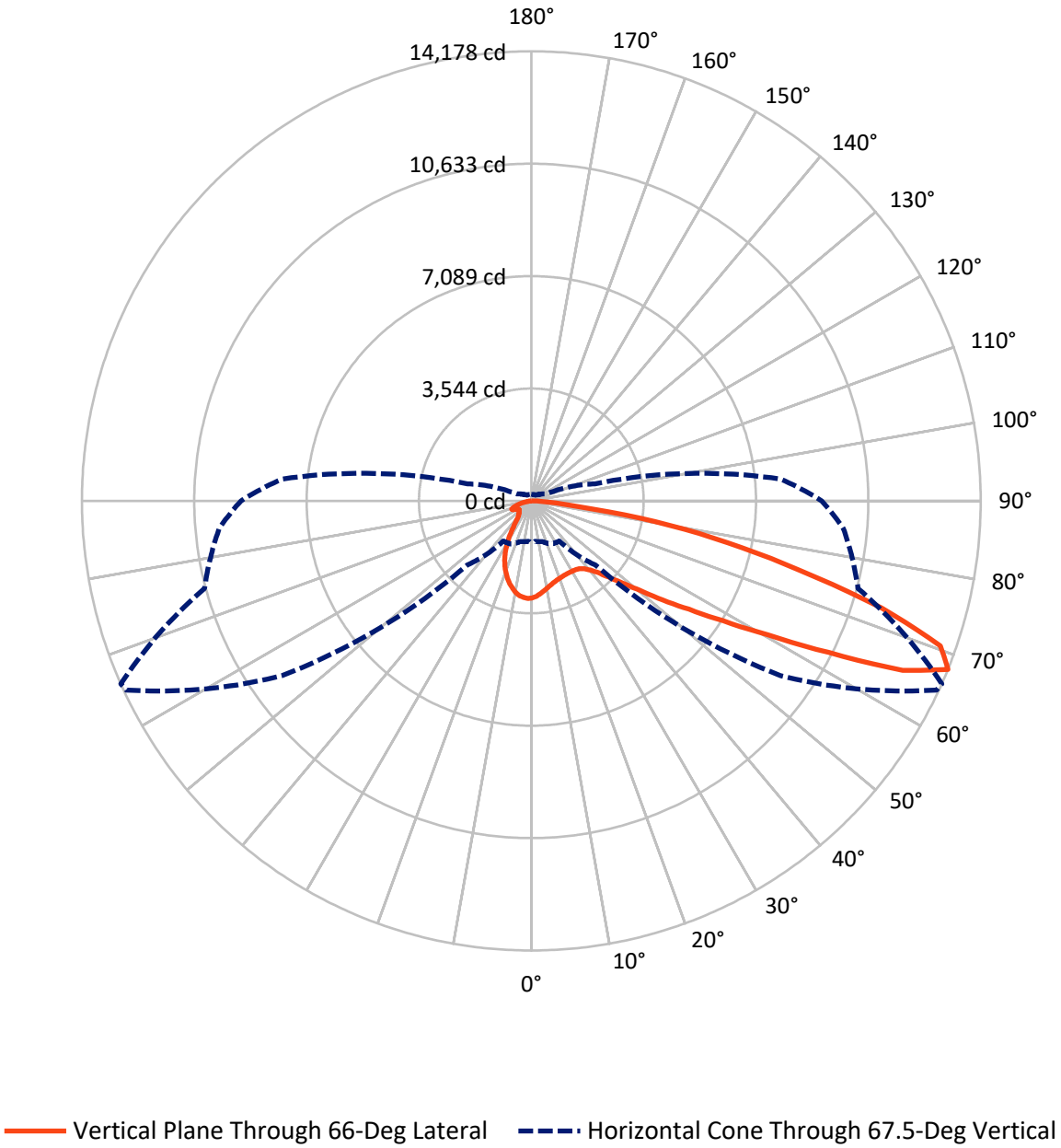
Luminous Intensity Polar Plot



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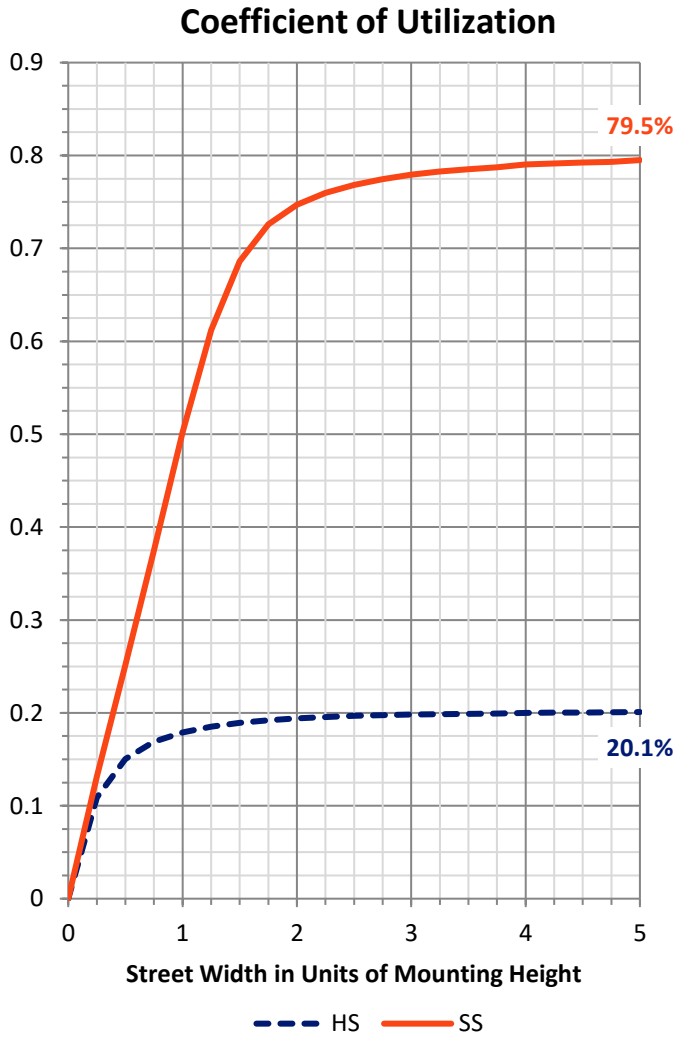
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.7	0.0	2812.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11048.1	0.0	11048.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	13860.8	0.0	13860.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	1.9
10°-20°	660.6	4.8
20°-30°	908.0	6.6
30°-40°	1241.4	9.0
40°-50°	1881.1	13.6
50°-60°	2924.2	21.1
60°-70°	3560.2	25.7
70°-80°	2168.7	15.6
80°-90°	247.7	1.8
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°	13860.8	100.0
0°-180°	13860.8	100.0



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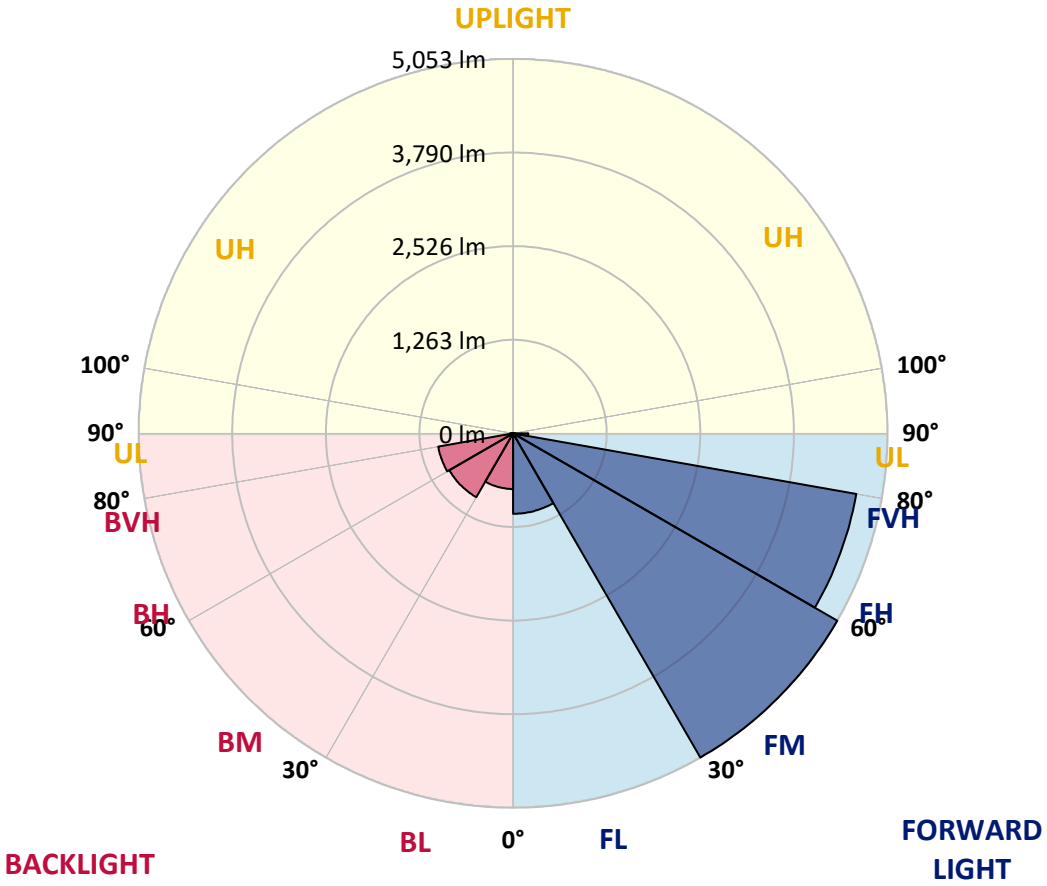
REPORT NUMBER: P639462
CATALOG NUMBER: GWS-SA5B-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1086.1	7.8			
FM	(30°-60°)	5052.8	36.5			
FH	(60°-80°)	4703.3	33.9			G2/5000
FVH	(80°-90°)	206.0	1.5			G2/225
BL	(0°-30°)	751.4	5.4	B2/1000		
BM	(30°-60°)	994.0	7.2	B1/1000		
BH	(60°-80°)	1025.6	7.4	B3/2500		G3/2500
BVH	(80°-90°)	41.8	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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Scaled Data Report

REPORT NUMBER: P639462
CATALOG NUMBER: GWS-SA5B-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	*3062.8*	3062.8	3062.8
2.5°	2868.7	2878.8	2872.7	2911.2	2913.2	2961.7	2989.0	3012.3	*3014.3*	3044.6	3064.9
5°	2672.5	2678.6	2678.6	2715.0	2739.3	2804.0	2866.7	2933.4	*2938.5*	3011.3	3066.9
7.5°	2513.8	2519.8	2515.8	2564.3	2595.7	2667.5	2747.4	2849.5	*2859.6*	2976.9	3074.0
10°	2389.4	2387.4	2397.5	2442.0	2482.4	2568.4	2657.4	2773.6	*2788.8*	2937.5	3082.1
12.5°	2304.5	2306.5	2312.6	2359.1	2402.5	2487.5	2579.5	2705.9	*2722.1*	2892.0	3078.0
15°	2264.0	2260.0	2265.0	2307.5	2349.0	2423.8	2518.8	2649.3	*2665.5*	2851.5	3079.0
17.5°	2254.9	2251.9	2250.9	2281.2	2312.6	2382.3	2473.3	2605.8	*2623.0*	2825.2	3085.1
20°	2283.2	2279.2	2268.1	2281.2	2294.4	2353.0	2441.0	2574.4	*2593.7*	2808.0	3097.2
22.5°	2361.1	2354.0	2336.8	2320.6	2303.5	2338.8	2420.7	2551.2	*2570.4*	2796.9	3109.4
25°	2479.4	2473.3	2455.1	2418.7	2356.0	2350.0	2416.7	2541.1	*2560.3*	2788.8	3114.4
27.5°	2642.2	2633.1	2614.9	2562.3	2460.2	2391.4	2431.9	2540.1	*2558.3*	2779.7	3109.4
30°	2835.3	2829.3	2819.2	2755.4	2618.9	2479.4	2466.3	2548.2	*2562.3*	2774.7	3099.2
32.5°	3031.5	3025.4	3033.5	3003.2	2835.3	2625.0	2541.1	2570.4	*2580.5*	2773.6	3090.1
35°	3204.4	3211.5	3270.1	3275.2	3110.4	2822.2	2659.4	2622.0	*2624.0*	2793.9	3094.2
37.5°	3385.4	3412.7	3489.6	3555.3	3417.8	3083.1	2835.3	2719.0	*2717.0*	2845.4	3119.5
40°	3625.1	3637.2	3735.3	3858.6	3772.7	3441.0	3085.1	2877.8	*2863.6*	2950.6	3187.2
42.5°	3858.6	3888.0	4044.7	4186.3	4157.9	3844.5	3399.6	3115.4	*3090.1*	3136.7	3326.8
45°	4155.9	4184.2	4360.2	4542.2	4593.8	4300.5	3802.0	3453.2	*3427.9*	3416.8	3582.6
47.5°	4453.2	4482.5	4640.3	4903.2	5084.2	4870.8	4325.8	3899.1	*3857.6*	3814.1	3968.9
50°	4653.4	4687.8	4838.5	5153.9	5578.6	5582.7	4946.7	4483.5	*4431.0*	4362.2	4512.9
52.5°	4646.3	4668.6	4812.2	5176.2	5934.6	6400.7	5777.8	5227.8	*5185.3*	5035.6	5167.1
55°	4281.3	4314.7	4459.3	4914.3	5973.0	7176.3	6999.3	6105.5	*6029.6*	5761.7	5906.3
57.5°	3548.2	3576.5	3722.1	4283.3	5632.2	7573.7	8550.5	7223.8	*7119.7*	6552.4	6719.2
60°	2678.6	2644.2	2713.0	3204.4	4817.2	7583.8	9919.6	8740.6	*8566.7*	7397.7	7537.3
62.5°	2010.2	1975.8	1991.0	2129.5	3266.1	6971.0	10700.2	10815.5	*10528.3*	8352.3	8325.0
65°	1588.6	1569.3	1612.8	1707.9	1904.0	5308.7	10706.3	13059.3	*12878.3*	9458.5	9132.9
67.5°	*1294.3*	*1282.2*	*1326.7*	*1502.6*	*1544.1*	*2852.5*	*9600.1*	*14106.9*	*14177.7*	*10669.9*	*9882.2*
70°	1042.5	1024.3	1094.1	1325.6	1435.9	1726.1	6877.0	13573.0	*13687.2*	11391.9	9670.9
72.5°	720.0	721.0	756.4	1073.9	1386.3	1490.5	3890.0	11301.9	*11549.6*	10737.6	8501.9
75°	485.4	489.4	499.5	708.8	1277.1	1446.0	2072.9	8556.5	*8731.5*	8875.1	7027.7
77.5°	293.2	295.3	318.5	428.7	880.7	1349.9	1404.5	6202.5	*6340.1*	5850.6	4356.1
80°	169.9	177.0	198.2	287.2	594.6	1014.2	1087.0	3803.0	*3958.7*	2600.7	1384.3
82.5°	74.8	79.9	108.2	166.8	346.8	862.5	848.4	1502.6	*1480.4*	725.0	480.3
85°	13.1	16.2	23.3	52.6	127.4	455.0	658.3	663.3	*623.9*	275.0	199.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	99.1	178.0	*177.0*	77.9	68.8
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: P639462
CATALOG NUMBER: GWS-SA5B-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8
2.5°	3078.0	3050.7	3075.0	3078.0	3073.0	3068.9	3038.6	3012.3	3009.3	2980.9	2980.9
5°	3089.1	3063.9	3076.0	3052.7	3016.3	2978.9	2914.2	2869.7	2849.5	2813.1	2813.1
7.5°	3104.3	3078.0	3063.9	3006.2	2921.3	2839.4	2735.2	2648.3	2612.9	2561.3	2559.3
10°	3118.5	3085.1	3036.6	2924.3	2788.8	2658.4	2506.7	2383.3	2299.4	2237.7	2237.7
12.5°	3117.4	3074.0	2977.9	2812.1	2625.0	2435.9	2233.7	2047.6	1936.4	1840.3	1834.3
15°	3115.4	3055.8	2903.1	2681.6	2433.9	2172.0	1897.0	1654.3	1489.5	1395.4	1387.3
17.5°	3113.4	3032.5	2819.2	2533.0	2201.3	1844.4	1481.4	1218.5	1080.9	1023.3	1025.3
20°	3113.4	3006.2	2729.2	2362.1	1933.4	1452.0	1087.0	895.9	861.5	864.6	867.6
22.5°	3104.3	2973.9	2629.1	2176.0	1635.1	1067.8	801.9	737.1	755.3	783.7	787.7
25°	3083.1	2920.3	2512.8	1969.8	1280.1	777.6	654.2	642.1	675.5	710.9	721.0
27.5°	3049.7	2858.6	2382.3	1728.1	942.4	624.9	575.4	574.3	600.6	626.9	636.0
30°	3014.3	2789.8	2244.8	1459.1	682.5	544.0	524.8	524.8	537.9	554.1	552.1
32.5°	2972.8	2720.1	2097.2	1179.0	556.1	498.5	492.4	489.4	491.4	497.5	497.5
35°	2937.5	2658.4	1945.5	882.8	498.5	473.2	467.2	460.1	457.1	453.0	455.0
37.5°	2924.3	2609.8	1788.8	665.4	470.2	455.0	444.9	434.8	427.7	425.7	424.7
40°	2945.5	2589.6	1632.0	548.1	450.0	435.8	424.7	411.5	405.5	405.5	405.5
42.5°	3028.5	2604.8	1472.3	495.5	435.8	419.6	403.5	391.3	389.3	391.3	392.3
45°	3180.1	2663.4	1306.4	469.2	423.7	403.5	384.2	375.1	375.1	377.2	377.2
47.5°	3451.1	2817.1	1142.6	453.0	411.5	390.3	370.1	361.0	360.0	362.0	362.0
50°	3920.3	3094.2	995.0	441.9	402.4	380.2	360.0	347.8	344.8	343.8	343.8
52.5°	4511.9	3574.5	901.0	433.8	391.3	369.1	348.9	332.7	326.6	323.6	323.6
55°	5226.8	4214.6	901.0	427.7	377.2	355.9	332.7	316.5	307.4	303.4	303.4
57.5°	6036.7	4959.8	1056.7	422.7	366.0	340.8	315.5	299.3	289.2	283.1	283.1
60°	6860.8	5747.5	1441.9	415.6	355.9	321.6	296.3	281.1	268.0	260.9	259.9
62.5°	7715.3	6615.1	1949.5	419.6	348.9	303.4	276.1	258.9	247.7	240.7	239.6
65°	8497.9	7441.2	2393.4	451.0	349.9	287.2	252.8	237.6	228.5	219.4	218.4
67.5°	*9162.2*	*7897.3*	*2082.0*	*514.7*	*371.1*	*268.0*	*229.5*	*214.4*	*206.3*	*200.2*	*199.2*
70°	8697.1	7201.6	1181.1	554.1	400.4	247.7	203.2	193.1	185.0	181.0	180.0
72.5°	7437.2	6097.4	789.7	489.4	365.0	221.4	179.0	170.9	164.8	159.8	158.8
75°	6024.6	4835.4	603.7	401.4	284.1	180.0	153.7	147.6	141.6	136.5	135.5
77.5°	3564.4	2793.9	444.9	317.5	200.2	140.6	127.4	122.4	116.3	112.2	111.2
80°	1137.6	970.7	282.1	218.4	132.5	108.2	98.1	94.0	88.0	82.9	81.9
82.5°	433.8	375.1	149.7	111.2	88.0	73.8	65.7	61.7	57.6	52.6	51.6
85°	192.1	180.0	82.9	59.7	47.5	36.4	32.4	30.3	25.3	21.2	20.2
87.5°	67.7	67.7	35.4	17.2	10.1	5.1	3.0	1.0	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

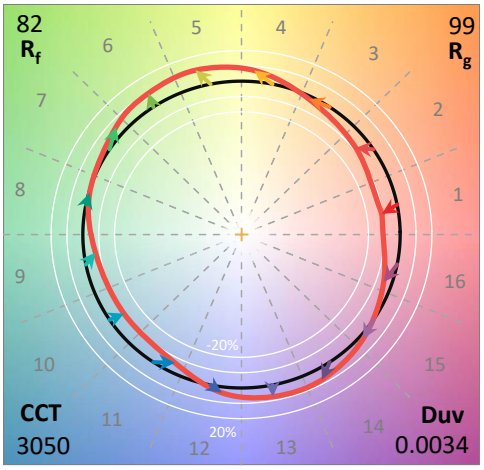
Test Information

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

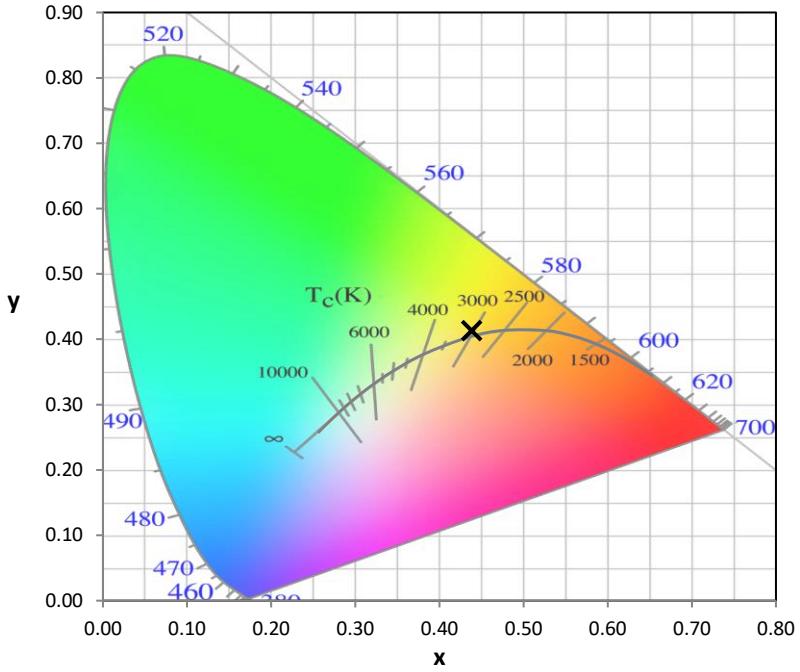
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

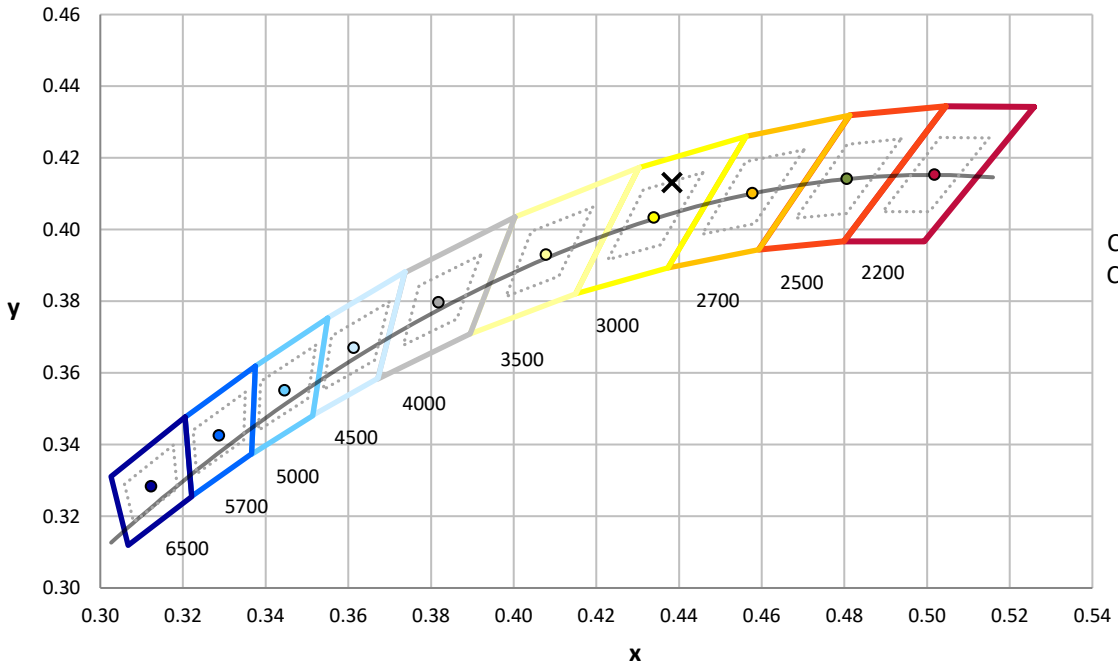
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

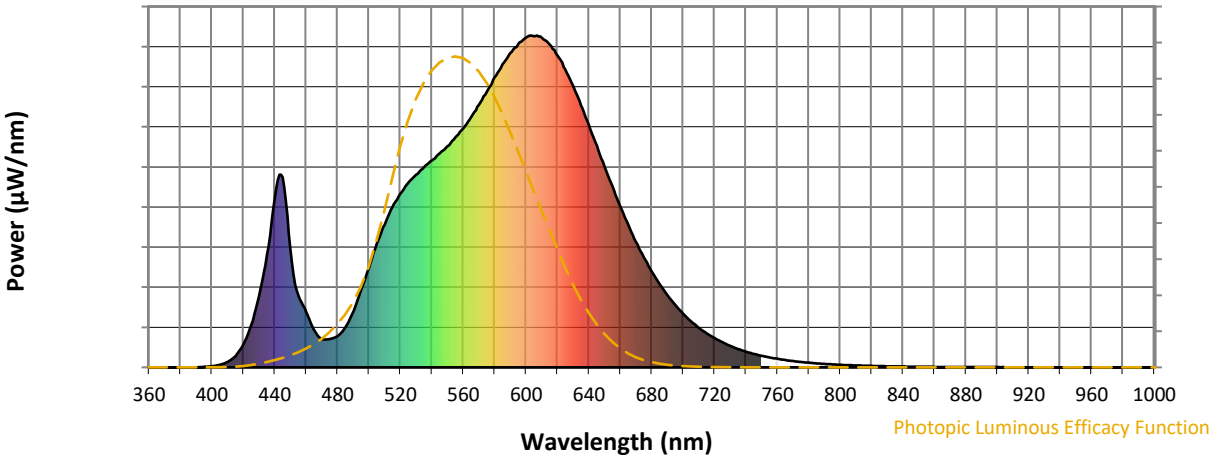


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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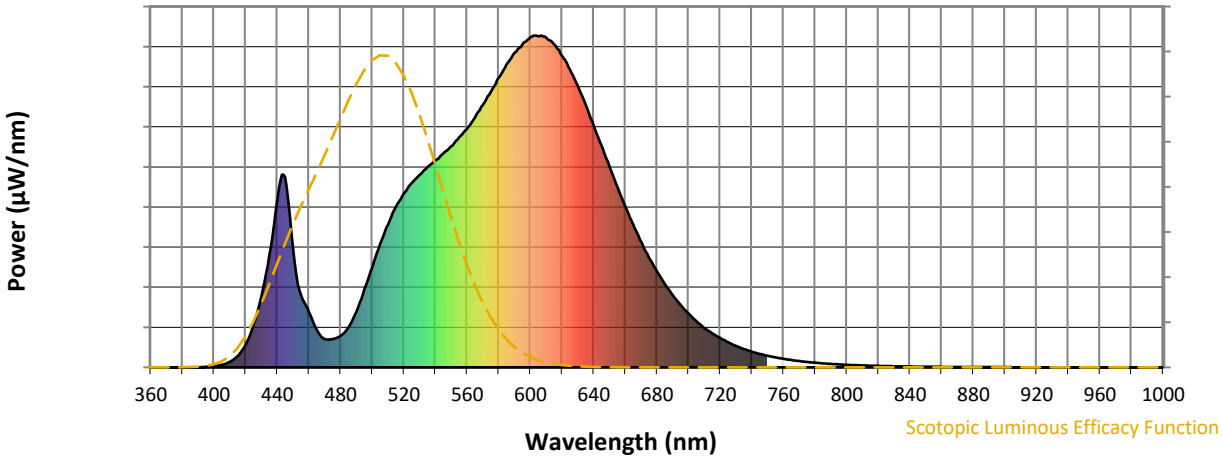
Scotopic Flux vs. Wavelength



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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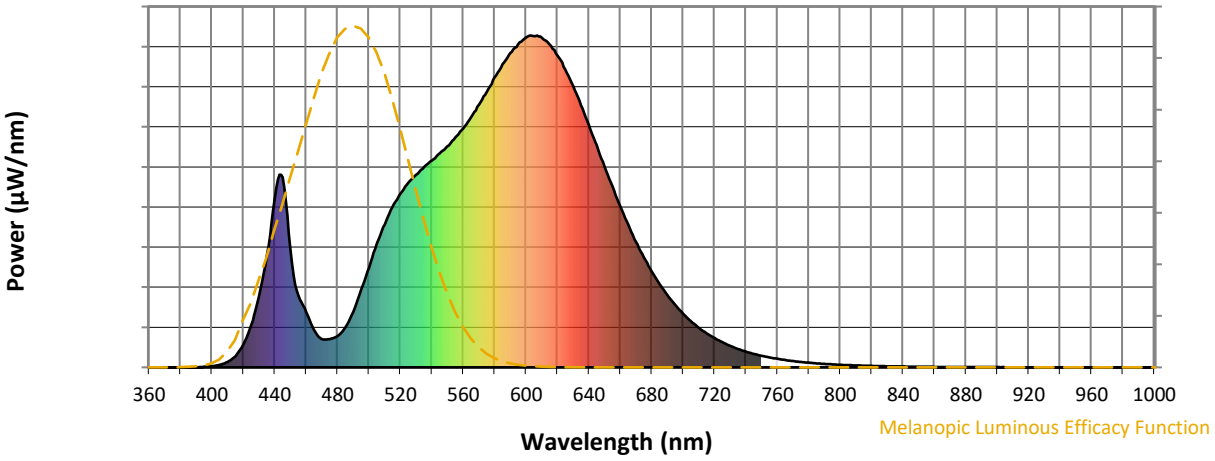
Melanopic Flux vs. Wavelength



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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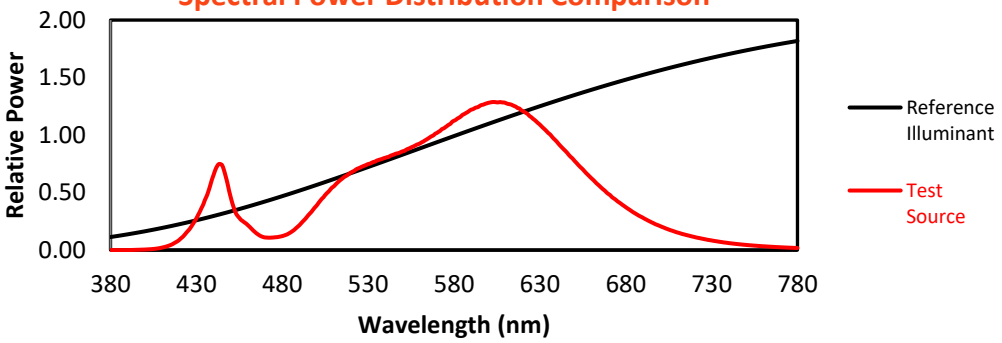
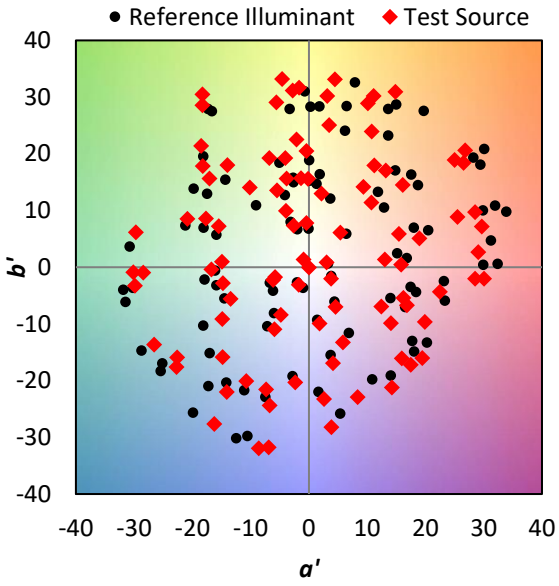
Summary

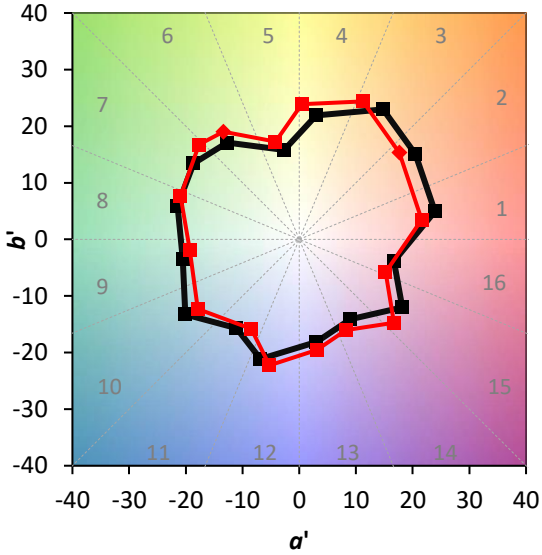
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

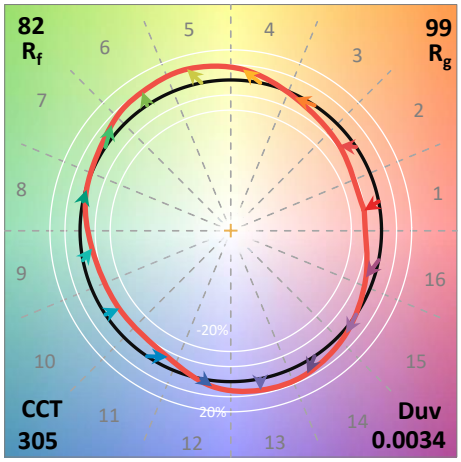
Spectral Power Distribution Comparison

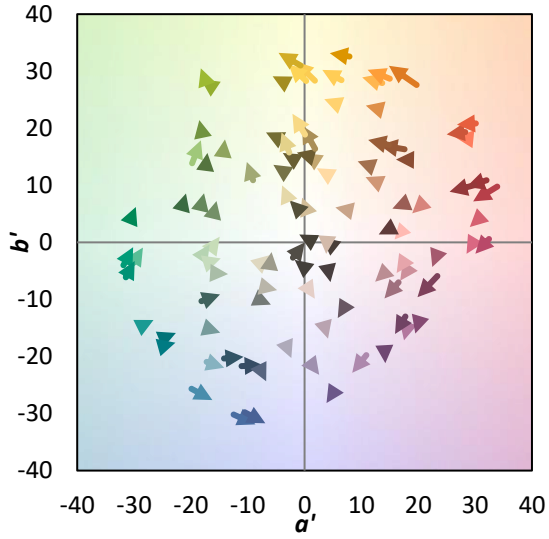


Color Vector Graphics









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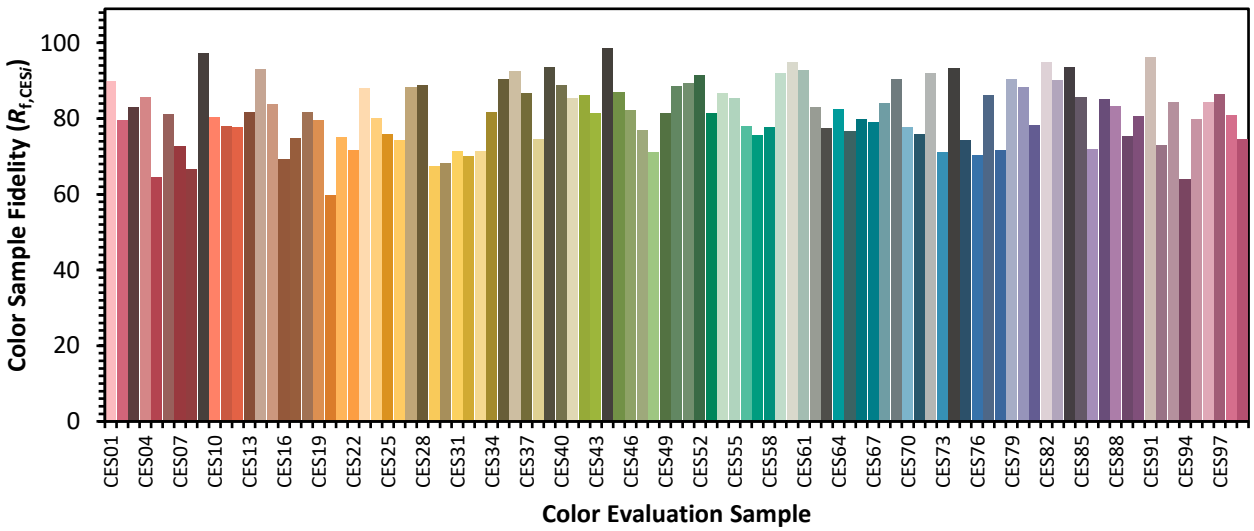
Individual Sample Fidelity Index ($R_{f,i}$)

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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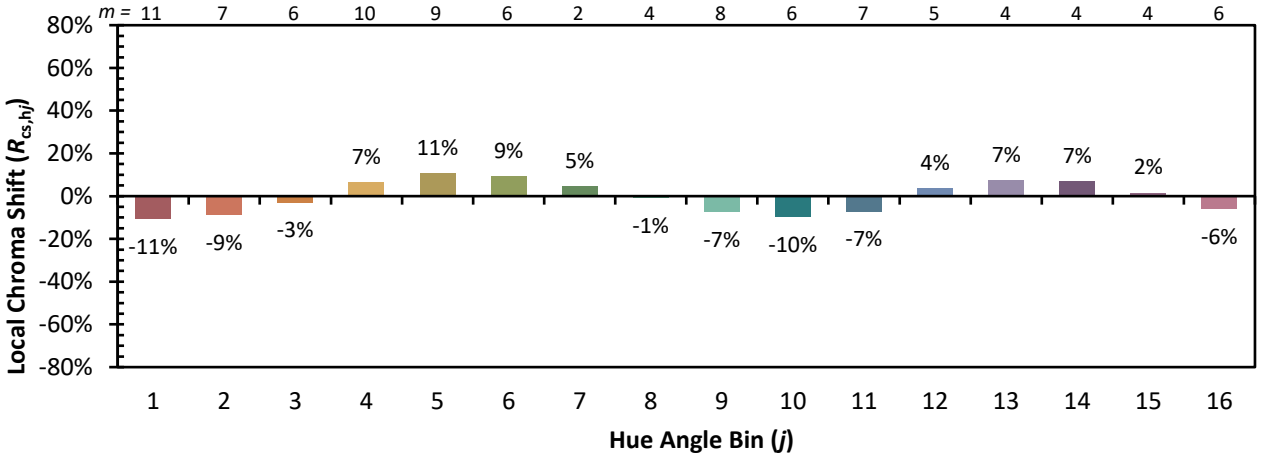
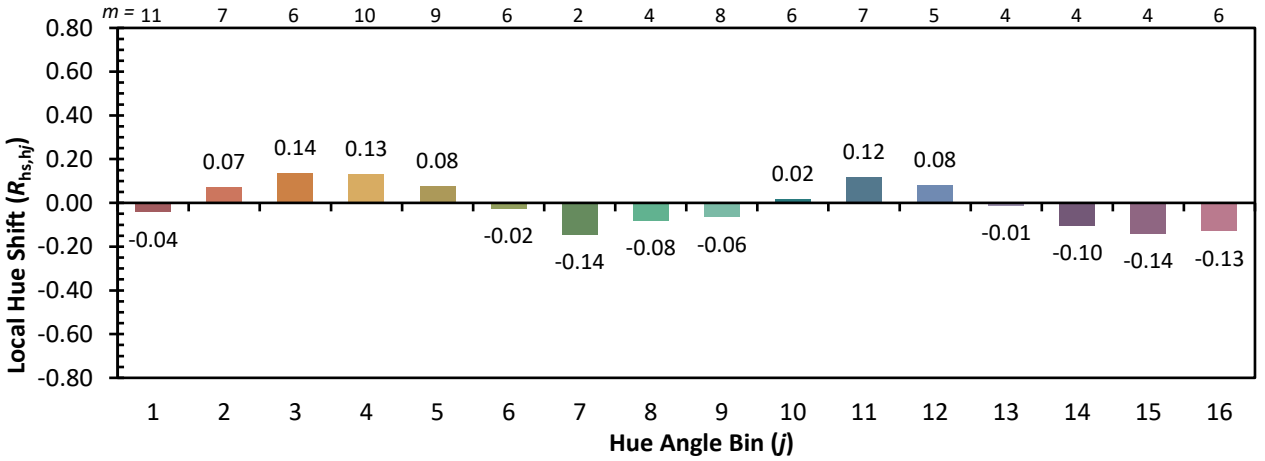
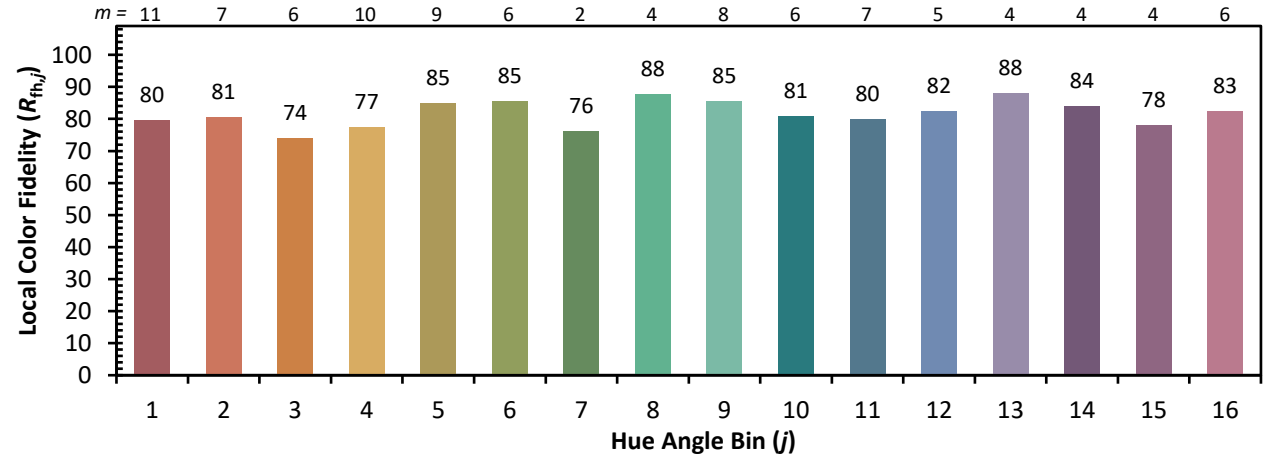
Color Rendition by Hue-Angle Bin







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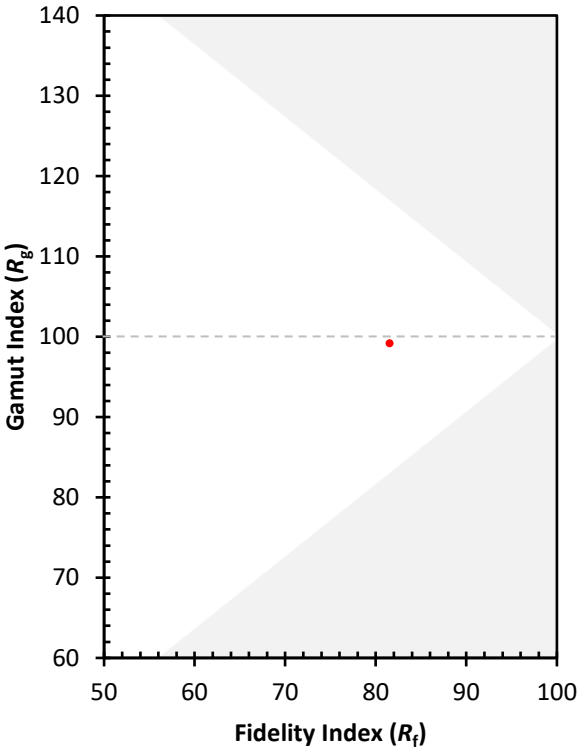
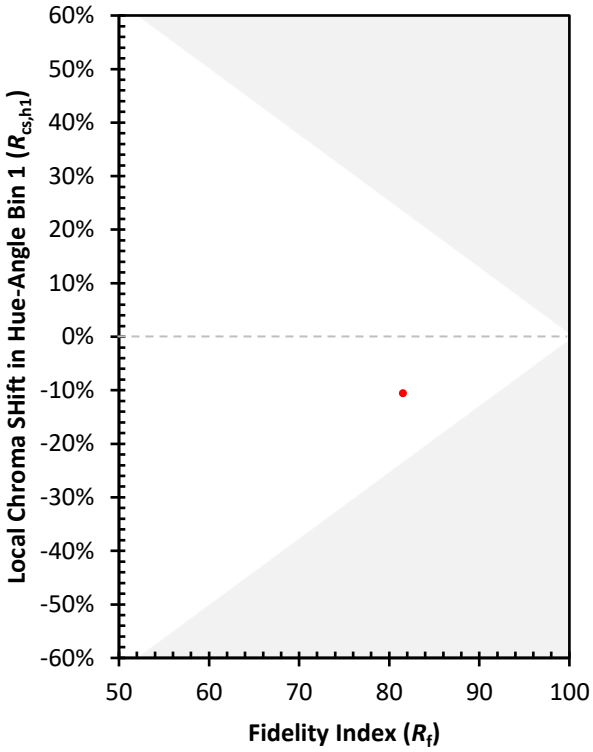
Measure Comparisons





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