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: P639984

Luminaire Tested: GWS-SA5C-830-U-T3-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:	P639984
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18929.2 lumens
Efficiency:	N/A
Efficacy:	120.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	157.5
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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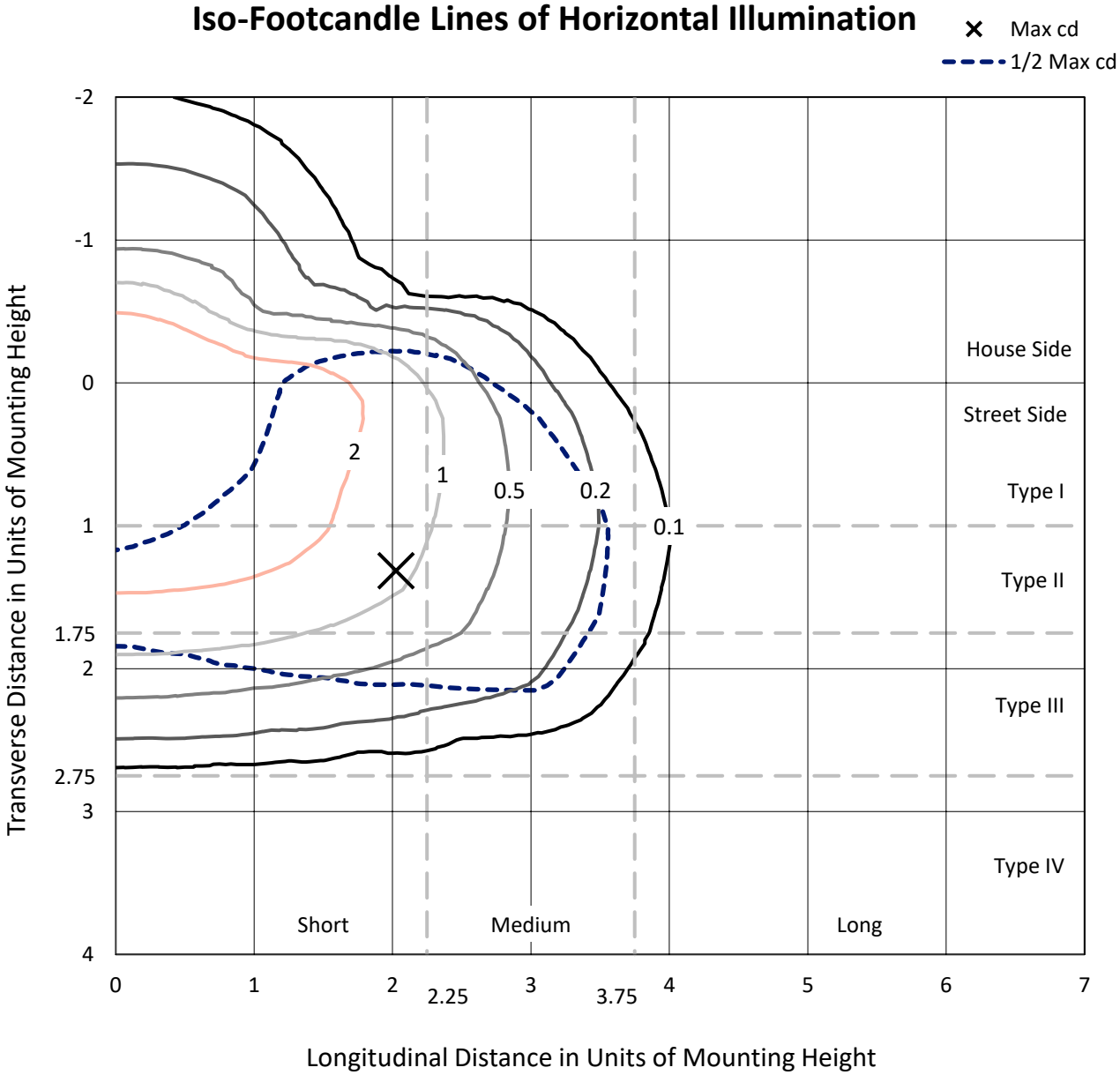
Scaled Data Report

REPORT NUMBER: P639984
CATALOG NUMBER: GWS-SA5C-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Short - N/A

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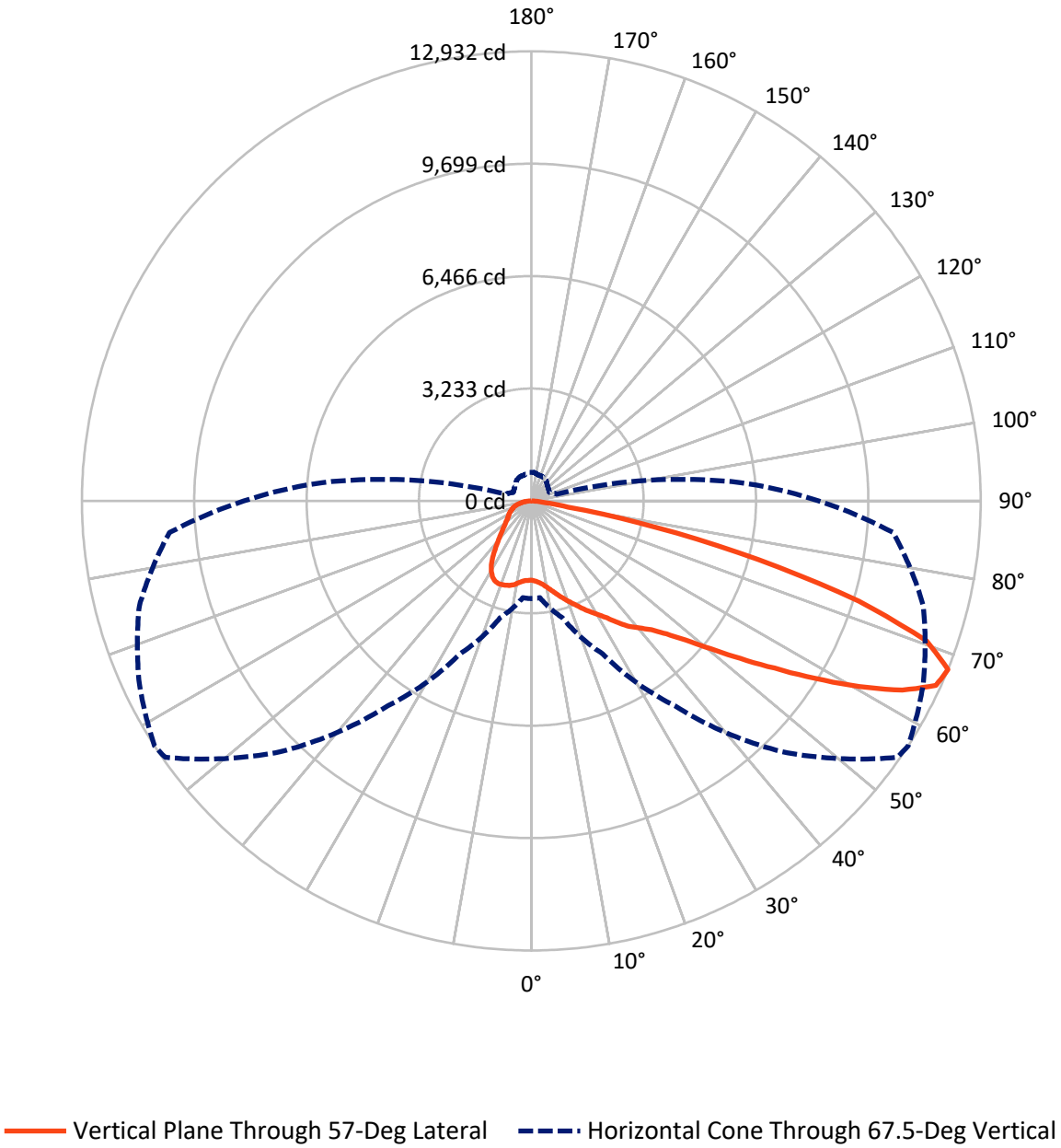
Luminous Intensity Polar Plot



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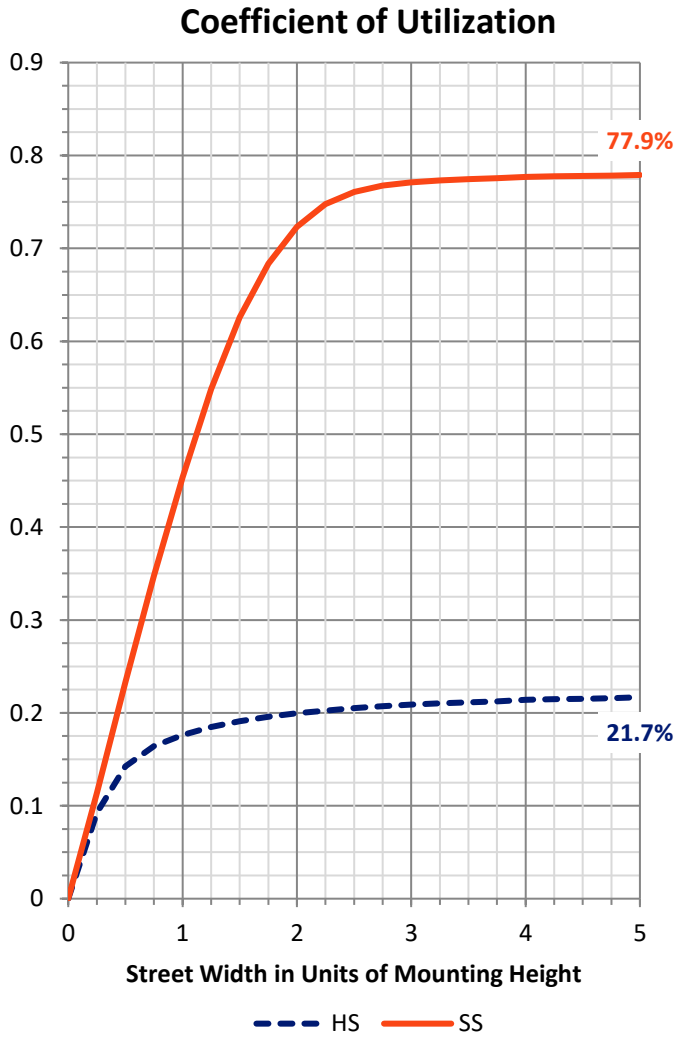
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4161.8	0.0	4161.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14767.4	0.0	14767.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	18929.2	0.0	18929.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.2
10°-20°	748.9	4.0
20°-30°	1335.1	7.1
30°-40°	1941.1	10.3
40°-50°	2809.4	14.8
50°-60°	4396.6	23.2
60°-70°	5128.9	27.1
70°-80°	2141.0	11.3
80°-90°	202.0	1.1
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°	18929.2	100.0
0°-180°	18929.2	100.0



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REPORT NUMBER: P639984
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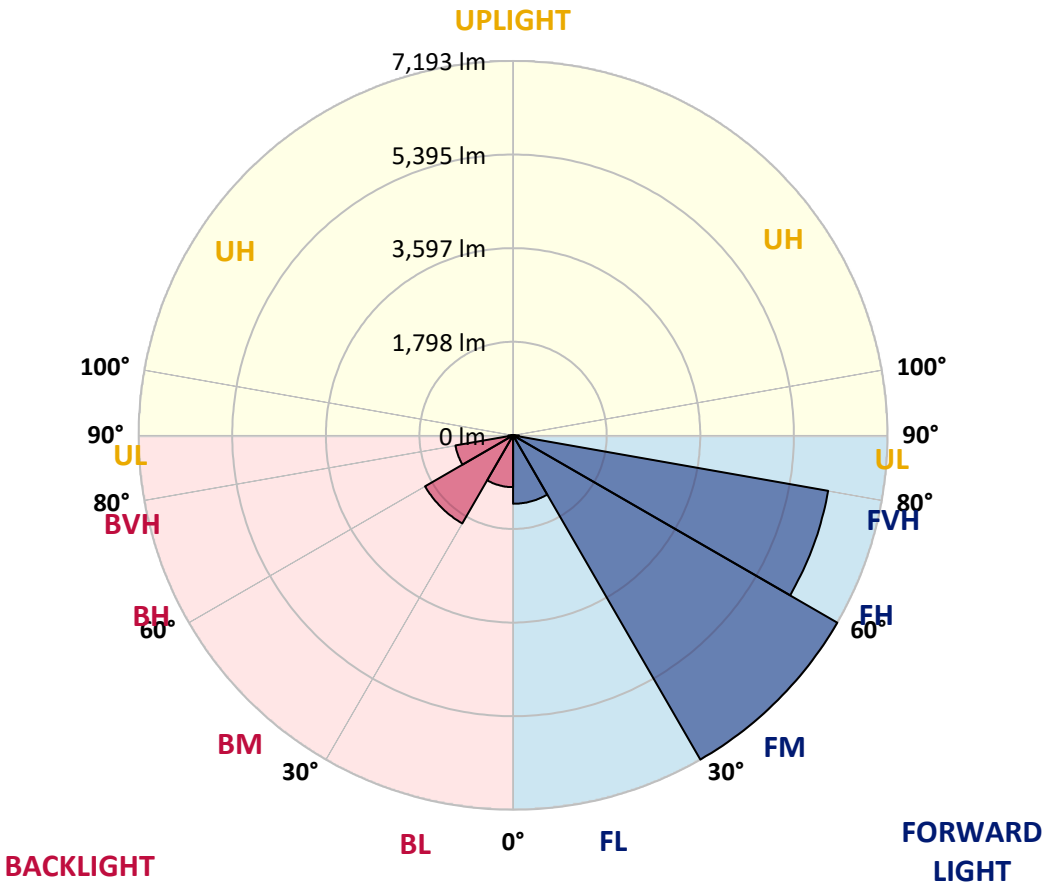
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1314.8	6.9			
FM	(30°-60°)	7193.4	38.0			
FH	(60°-80°)	6146.6	32.5			G3/7500
FVH	(80°-90°)	112.6	0.6			G2/225
BL	(0°-30°)	995.4	5.3	B2/1000		
BM	(30°-60°)	1953.7	10.3	B2/2500		
BH	(60°-80°)	1123.3	5.9	B3/2500		G3/2500
BVH	(80°-90°)	89.5	0.5			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 III Short



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Scaled Data Report

REPORT NUMBER: P639984
CATALOG NUMBER: GWS-SA5C-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2313.4	2310.7	2309.3	2317.5	2314.7	2313.4	2313.4	2312.0	2309.3	2298.5	2283.6
5°	2377.1	2371.7	2366.3	2373.0	2367.6	2362.2	2360.8	2358.1	2348.6	2332.4	2309.3
7.5°	2443.6	2438.1	2439.5	2443.6	2439.5	2436.8	2432.7	2430.0	2415.1	2389.3	2358.1
10°	2537.1	2537.1	2539.8	2543.9	2545.3	2541.2	2533.1	2529.0	2511.4	2478.8	2435.4
12.5°	2672.7	2670.0	2670.0	2667.3	2671.4	2667.3	2659.2	2652.4	2630.7	2588.7	2526.3
15°	2851.7	2840.9	2831.4	2813.8	2808.3	2793.4	2796.1	2792.1	2771.7	2714.8	2636.1
17.5°	3042.9	3041.6	3026.7	2991.4	2956.1	2931.7	2937.2	2935.8	2925.0	2847.7	2747.3
20°	3211.1	3217.9	3204.3	3177.2	3129.7	3083.6	3080.9	3087.7	3074.1	2996.8	2857.2
22.5°	3399.6	3394.1	3380.6	3345.3	3310.1	3261.2	3245.0	3239.6	3234.1	3146.0	2969.7
25°	3578.6	3594.8	3577.2	3544.7	3490.4	3437.5	3424.0	3429.4	3414.5	3297.9	3090.4
27.5°	3805.0	3811.8	3800.9	3756.2	3710.1	3635.5	3609.7	3609.7	3604.3	3440.2	3185.3
30°	4046.4	4065.4	4046.4	4009.8	3962.3	3855.2	3799.6	3794.2	3777.9	3586.7	3296.5
32.5°	4289.1	4302.7	4289.1	4253.9	4199.6	4106.1	4026.0	4013.8	3992.1	3746.7	3410.4
35°	4504.7	4516.9	4514.2	4522.4	4477.6	4359.6	4310.8	4305.4	4248.4	3955.5	3565.0
37.5°	4740.7	4755.6	4735.3	4751.5	4733.9	4622.7	4607.8	4580.7	4499.3	4152.2	3727.7
40°	5009.2	5022.7	4990.2	4997.0	4976.6	4914.2	4838.3	4801.7	4681.0	4365.1	3984.0
42.5°	5296.6	5327.8	5342.8	5330.5	5283.1	5247.8	5114.9	5068.8	4968.5	4748.8	4405.7
45°	5712.9	5759.1	5780.7	5749.6	5729.2	5679.0	5516.3	5460.7	5407.8	5289.9	4994.3
47.5°	6161.8	6203.8	6273.0	6286.5	6302.8	6264.9	6035.7	5981.4	5990.9	5977.4	5718.4
50°	6519.8	6555.0	6711.0	6877.8	7016.1	7026.9	6734.0	6675.7	6727.3	6770.6	6590.3
52.5°	6780.1	6811.3	7017.4	7361.9	7675.1	7907.0	7591.0	7524.6	7566.6	7664.3	7581.6
55°	6991.7	7035.1	7250.7	7779.5	8412.8	8778.9	8576.9	8492.8	8475.2	8595.9	8643.3
57.5°	7102.9	7116.4	7418.8	8106.3	8953.9	9634.6	9722.7	9627.8	9459.7	9526.1	9772.9
60°	6849.3	6872.4	7285.9	8190.4	9381.0	10483.5	10925.5	10846.9	10488.9	10525.5	10798.1
62.5°	6148.2	6180.8	6678.4	7790.4	9416.3	11050.3	12036.1	11985.9	11505.9	11307.9	11389.3
65°	4931.9	4942.7	5458.0	6800.5	8715.2	11120.8	12810.4	12798.2	12216.5	11752.7	11404.2
67.5°	2812.4	2793.4	3482.3	4850.5	7192.4	10204.1	12860.6	12932.4	12447.0	11679.5	10455.0
70°	1219.1	1221.8	1539.1	2393.4	4655.2	8247.4	11945.3	12068.7	11779.8	10460.4	8317.9
72.5°	564.1	572.2	709.2	1036.0	1987.9	5116.3	9740.4	9851.5	9603.4	8372.1	6052.0
75°	398.7	405.5	473.3	593.9	914.0	1993.4	6515.7	6749.0	6869.6	6262.1	3988.1
77.5°	302.4	311.9	345.8	412.2	564.1	706.5	3117.5	3673.5	4375.9	3895.9	2054.4
80°	192.6	192.6	229.2	275.3	344.4	367.5	900.4	1067.2	2141.2	1605.5	806.8
82.5°	130.2	134.2	155.9	174.9	198.0	208.8	386.5	412.2	618.3	546.5	332.2
85°	69.2	71.9	81.4	80.0	94.9	82.7	162.7	161.4	226.5	248.2	126.1
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	17.6	19.0	47.5	75.9	42.0
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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REPORT NUMBER: P639984
CATALOG NUMBER: GWS-SA5C-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2291.7	2275.4	2283.6	2280.8	2289.0	2289.0	2274.1	2270.0	2271.3	2255.1	2249.7
5°	2312.0	2293.0	2297.1	2291.7	2299.8	2306.6	2299.8	2299.8	2308.0	2295.8	2289.0
7.5°	2358.1	2336.4	2336.4	2329.7	2339.1	2344.6	2339.1	2347.3	2362.2	2350.0	2343.2
10°	2431.4	2405.6	2407.0	2398.8	2402.9	2400.2	2378.5	2371.7	2375.8	2364.9	2359.5
12.5°	2526.3	2491.0	2491.0	2474.8	2465.3	2436.8	2392.0	2375.8	2378.5	2369.0	2364.9
15°	2617.1	2584.6	2577.8	2545.3	2501.9	2449.0	2408.3	2397.5	2400.2	2390.7	2383.9
17.5°	2724.3	2682.2	2657.8	2598.2	2518.1	2463.9	2423.2	2397.5	2375.8	2354.1	2348.6
20°	2823.3	2770.4	2725.6	2633.4	2535.8	2461.2	2385.3	2321.5	2268.6	2240.2	2233.4
22.5°	2925.0	2857.2	2778.5	2657.8	2534.4	2412.4	2272.7	2176.4	2097.8	2055.7	2063.9
25°	3021.2	2935.8	2828.7	2680.9	2491.0	2303.9	2114.0	1970.3	1880.8	1848.3	1838.8
27.5°	3101.2	2995.5	2874.8	2670.0	2401.5	2147.9	1897.1	1737.1	1650.3	1613.7	1604.2
30°	3190.7	3071.4	2941.2	2619.8	2260.5	1929.6	1651.6	1521.5	1459.1	1423.8	1425.2
32.5°	3293.8	3169.0	3034.8	2523.6	2080.1	1693.7	1449.6	1360.1	1309.9	1274.7	1269.2
35°	3432.1	3308.7	3097.2	2378.5	1851.0	1476.7	1311.3	1238.1	1175.7	1129.6	1120.1
37.5°	3603.0	3518.9	3103.9	2184.6	1605.5	1327.6	1212.3	1133.6	1057.7	996.7	989.9
40°	3895.9	3799.6	3048.4	1941.8	1396.7	1231.3	1129.6	1038.7	950.6	882.8	873.3
42.5°	4313.5	4115.5	2929.0	1667.9	1239.4	1155.3	1050.9	935.7	846.2	798.7	791.9
45°	4845.1	4468.1	2750.0	1410.3	1122.8	1080.8	968.2	847.5	800.1	766.2	759.4
47.5°	5496.0	4879.0	2543.9	1209.6	1031.9	1013.0	884.1	817.7	775.6	747.2	740.4
50°	6274.3	5402.4	2374.4	1052.3	950.6	934.3	857.0	800.1	766.2	743.1	737.7
52.5°	7162.5	5984.2	2291.7	939.7	880.1	863.8	847.5	796.0	767.5	749.9	743.1
55°	8084.6	6597.1	2214.4	852.9	820.4	829.9	848.9	809.5	787.9	764.8	758.0
57.5°	8975.6	7172.0	2024.6	785.1	777.0	813.6	855.7	823.1	797.3	774.3	766.2
60°	9589.8	7486.6	1703.2	730.9	744.5	793.3	838.0	802.8	770.2	760.7	756.7
62.5°	9755.3	7448.7	1322.1	675.3	705.1	748.5	791.9	768.9	735.0	749.9	751.2
65°	9368.8	7041.9	992.6	621.1	653.6	690.2	744.5	735.0	722.8	763.4	764.8
67.5°	*8274.5*	*6042.5*	*756.7*	*573.6*	*600.7*	*645.5*	*729.5*	*768.9*	*771.6*	*823.1*	*817.7*
70°	6260.8	4514.2	592.6	528.9	560.0	645.5	777.0	794.6	762.1	809.5	798.7
72.5°	4328.4	2979.2	504.4	489.5	509.9	615.6	775.6	775.6	740.4	740.4	720.1
75°	2689.0	1752.0	439.4	439.4	439.4	538.3	754.0	714.6	652.2	623.8	607.5
77.5°	1327.6	851.6	368.8	382.4	367.5	450.2	615.6	584.4	546.5	516.6	505.8
80°	566.8	425.8	298.3	313.2	295.6	339.0	488.2	481.4	444.8	405.5	393.2
82.5°	260.4	219.7	238.7	245.4	215.6	254.9	356.6	356.6	336.3	282.1	261.7
85°	111.2	116.6	165.4	165.4	135.6	143.7	191.2	181.7	162.7	132.9	122.0
87.5°	38.0	57.0	84.1	73.2	28.5	12.2	6.8	2.7	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

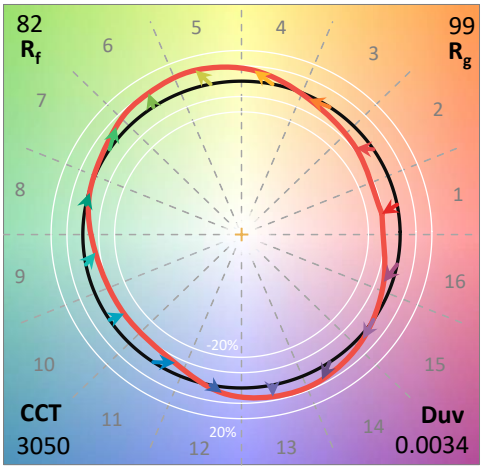
Test Information

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

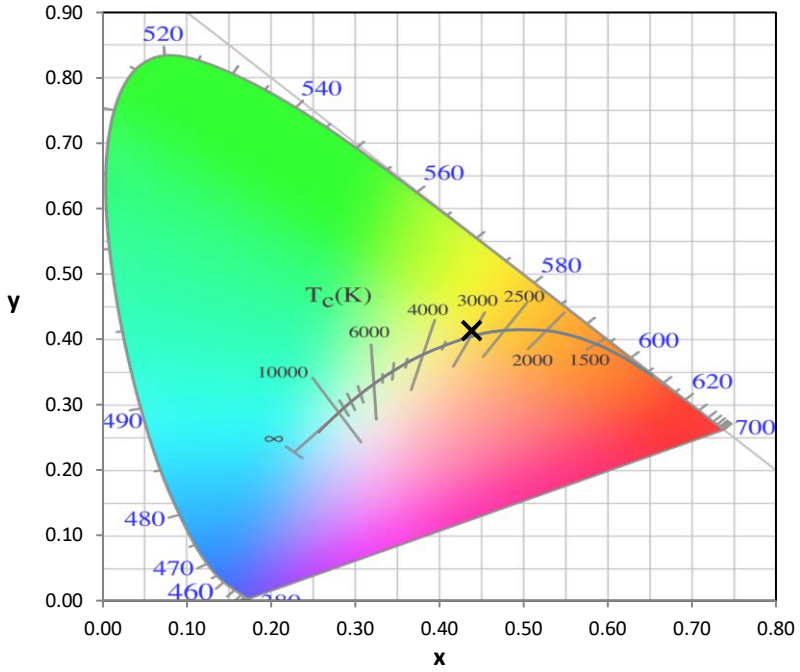
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

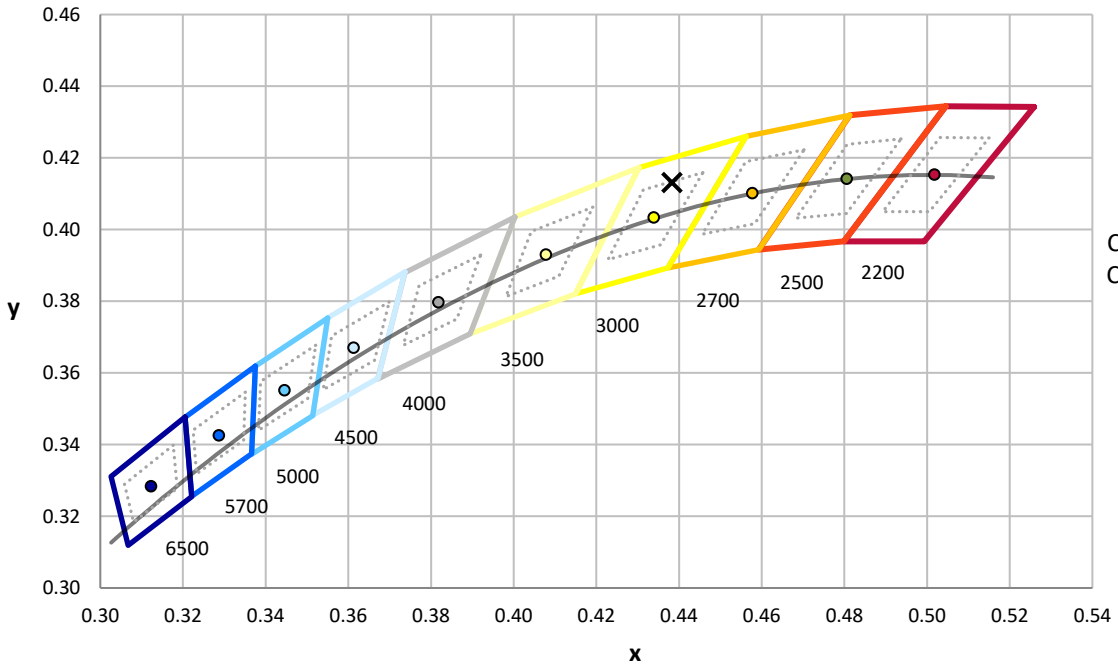
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

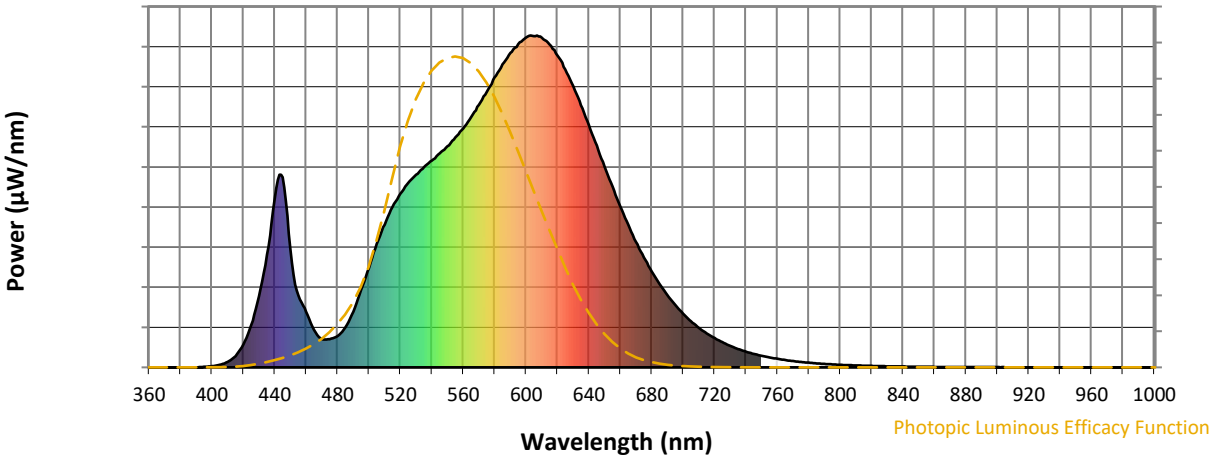


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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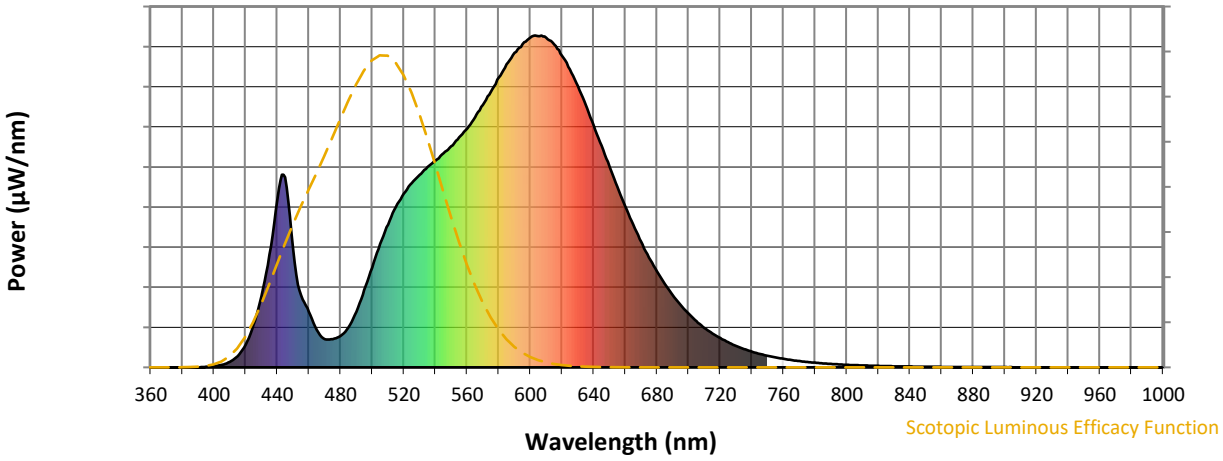
Scotopic Flux vs. Wavelength



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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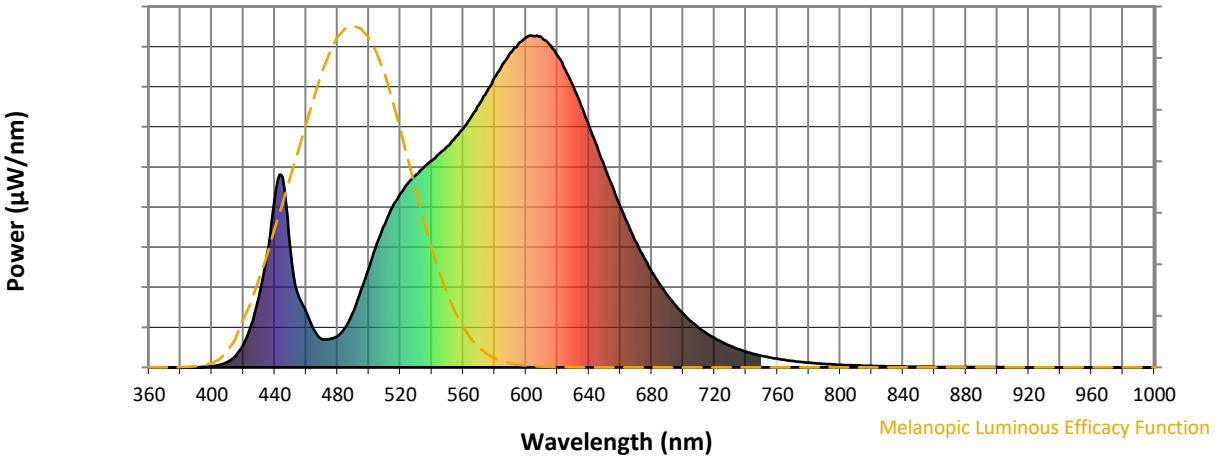
Melanopic Flux vs. Wavelength



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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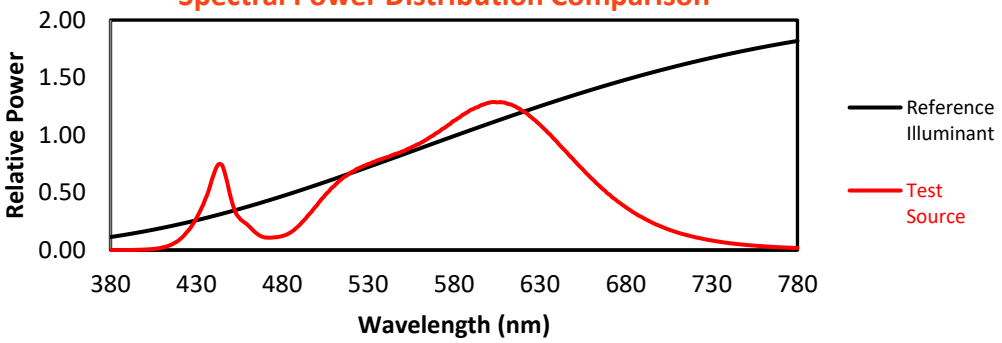
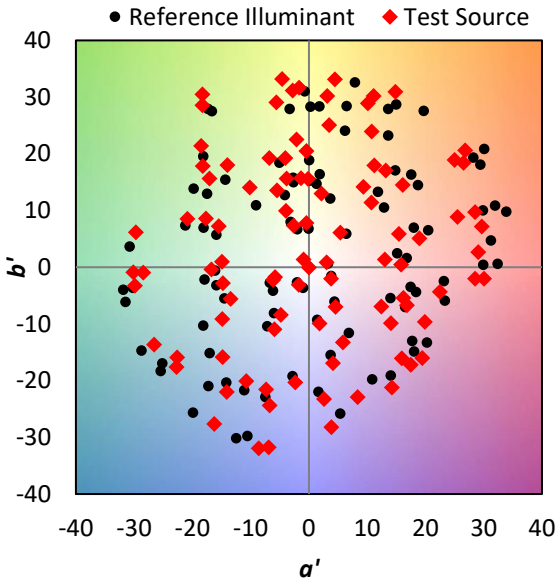
Summary

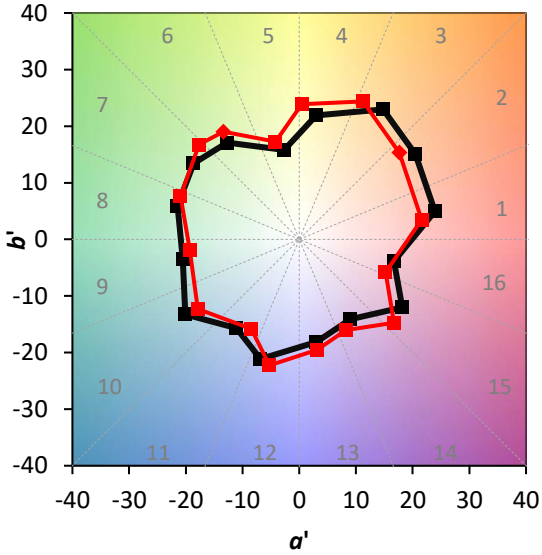
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

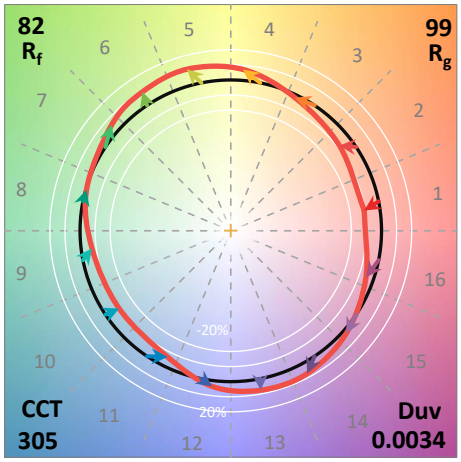
Spectral Power Distribution Comparison

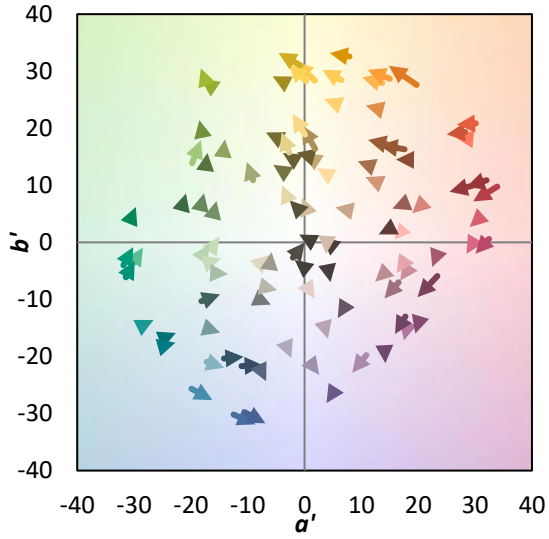


Color Vector Graphics









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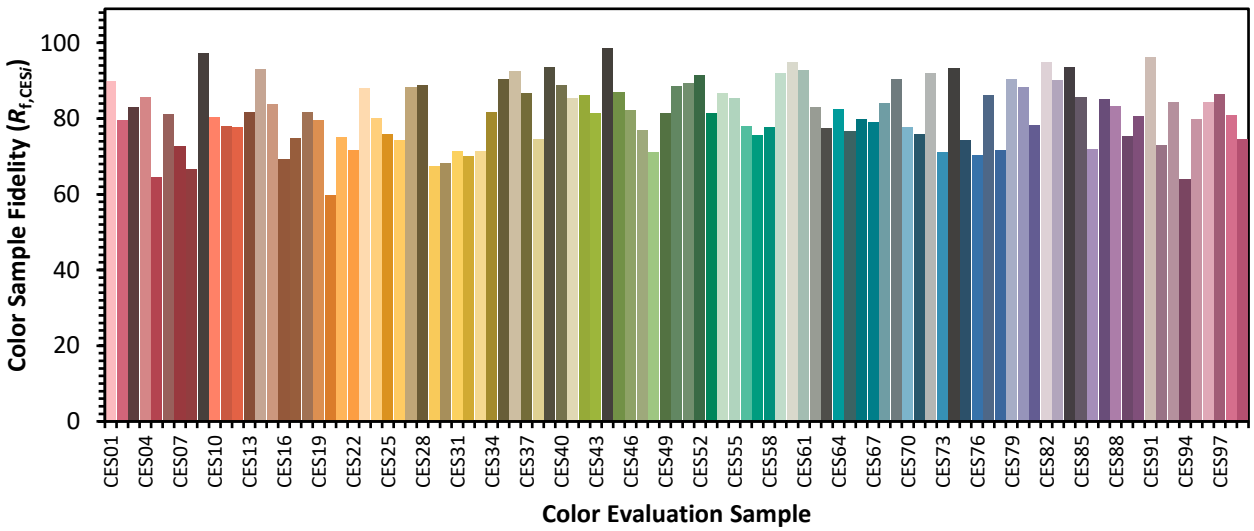
Individual Sample Fidelity Index ($R_{f,i}$)

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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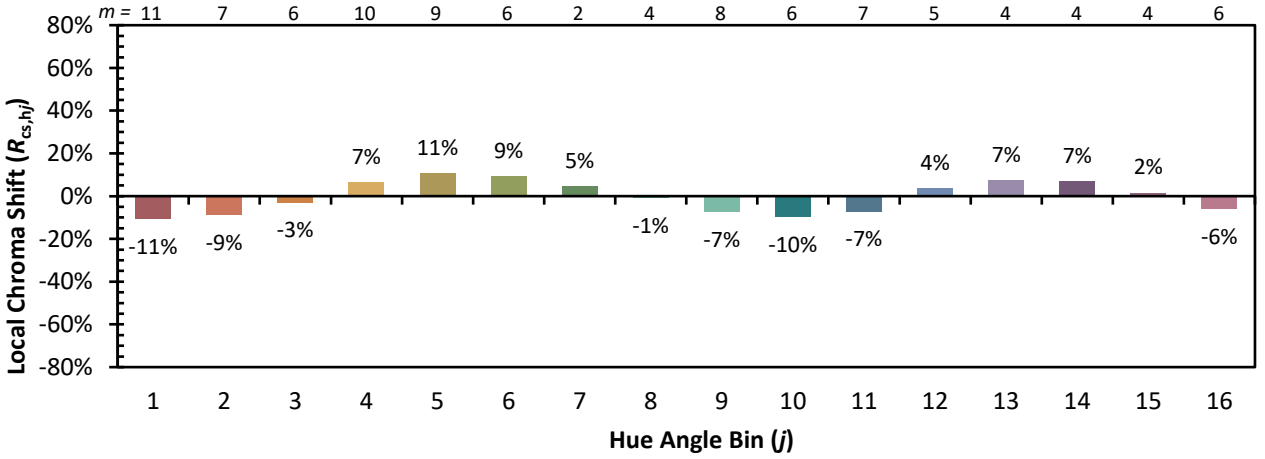
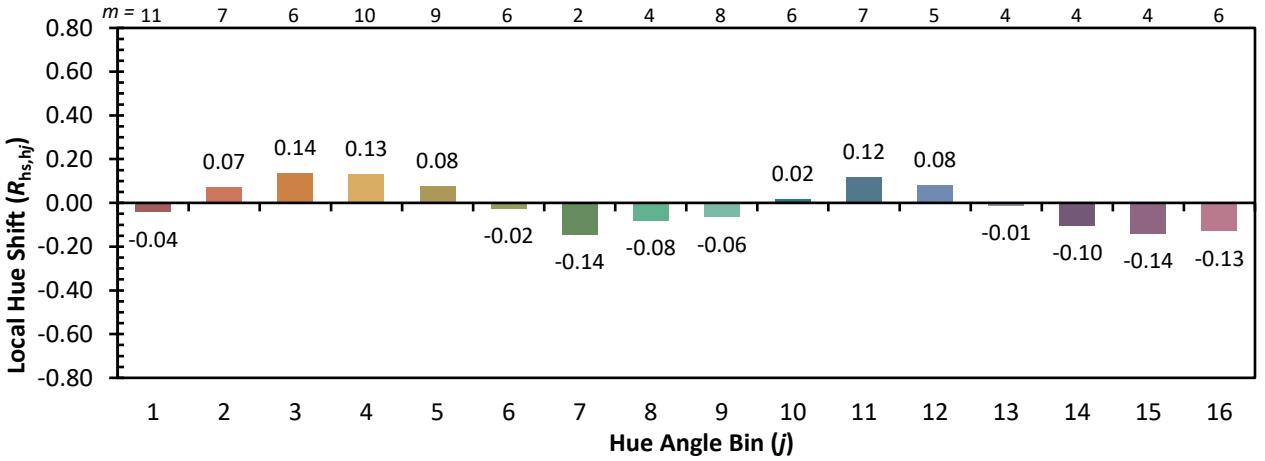
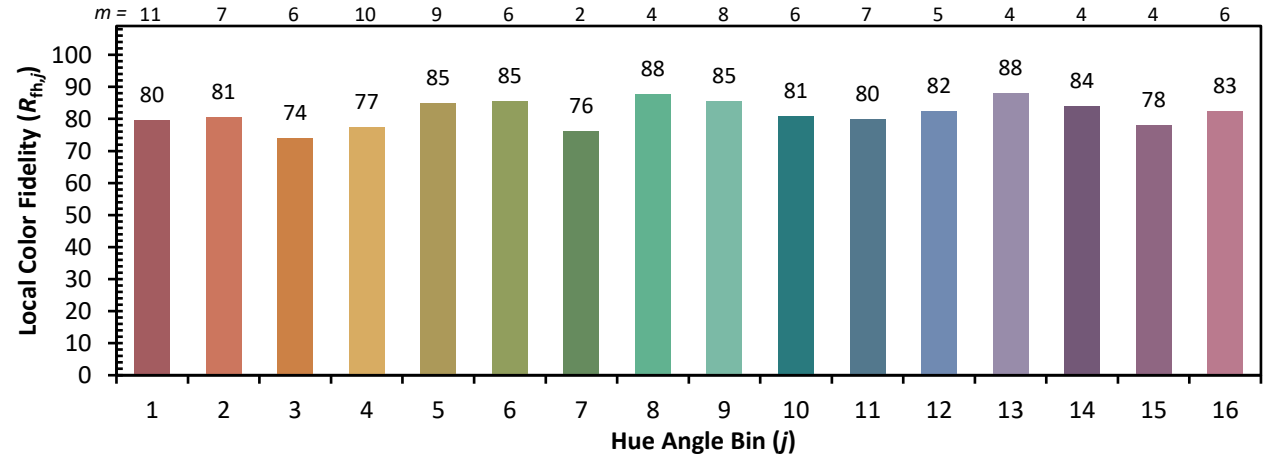
Color Rendition by Hue-Angle Bin







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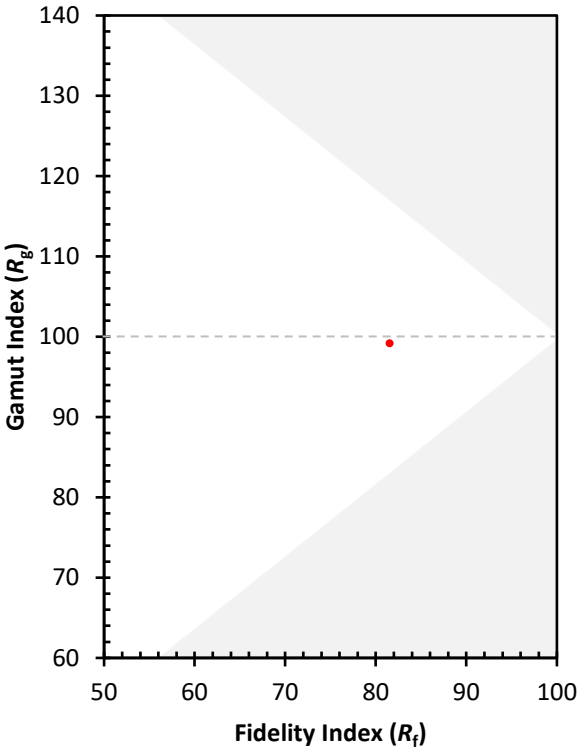
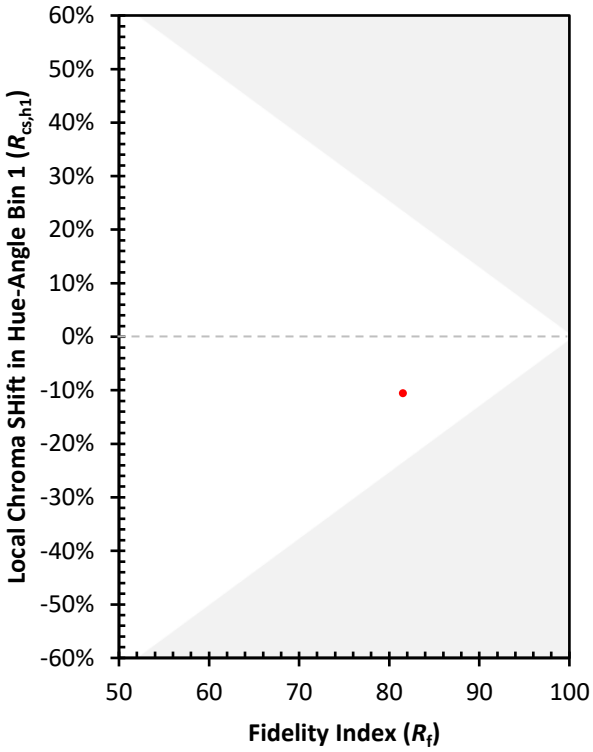
Measure Comparisons





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