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: P635011

Luminaire Tested: GWS-SA3C-830-U-SL3-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:	P635011
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-SL3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10857.7 lumens
Efficiency:	N/A
Efficacy:	116.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	93
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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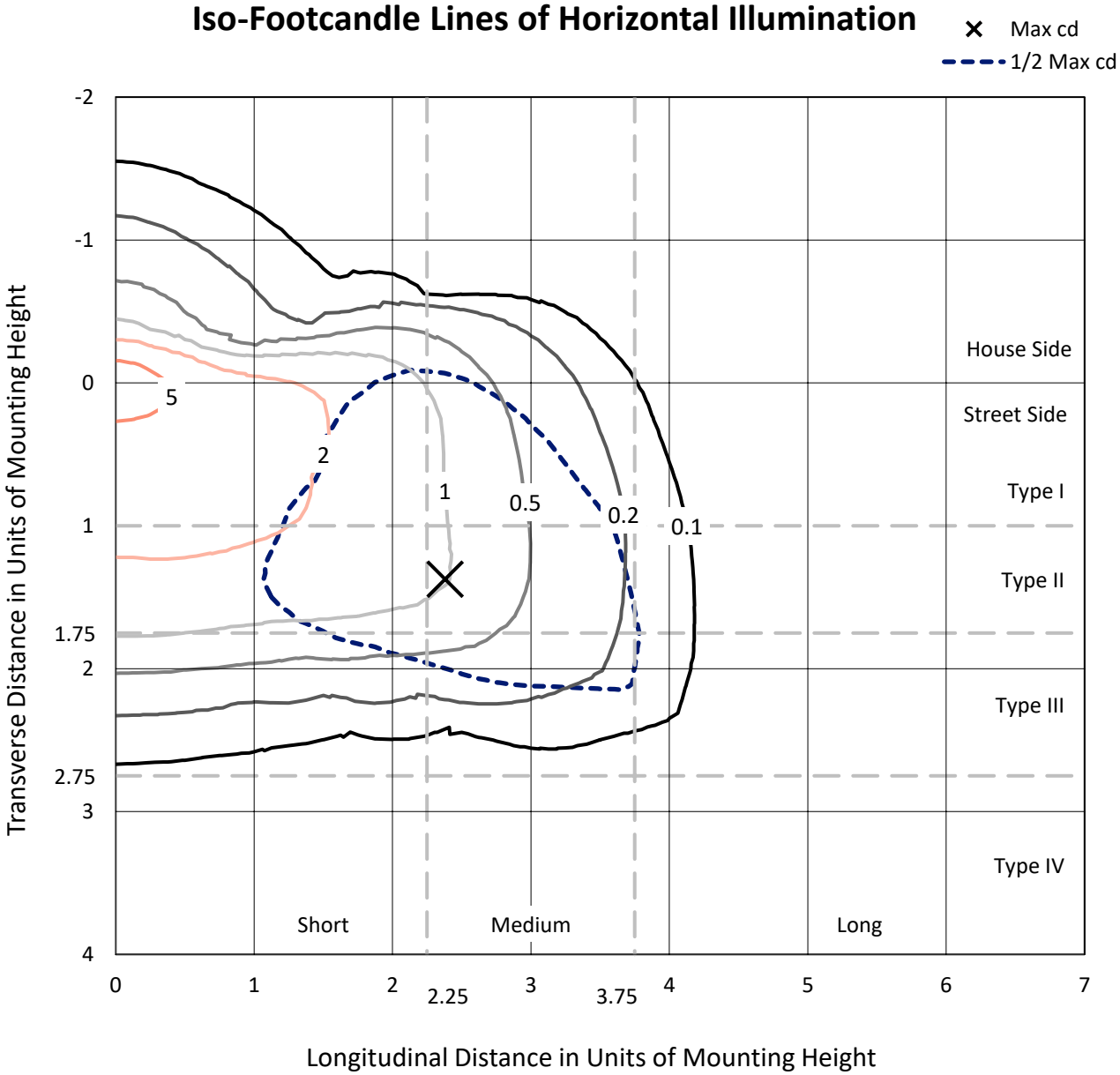
Scaled Data Report

REPORT NUMBER: P635011
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Medium - N/A

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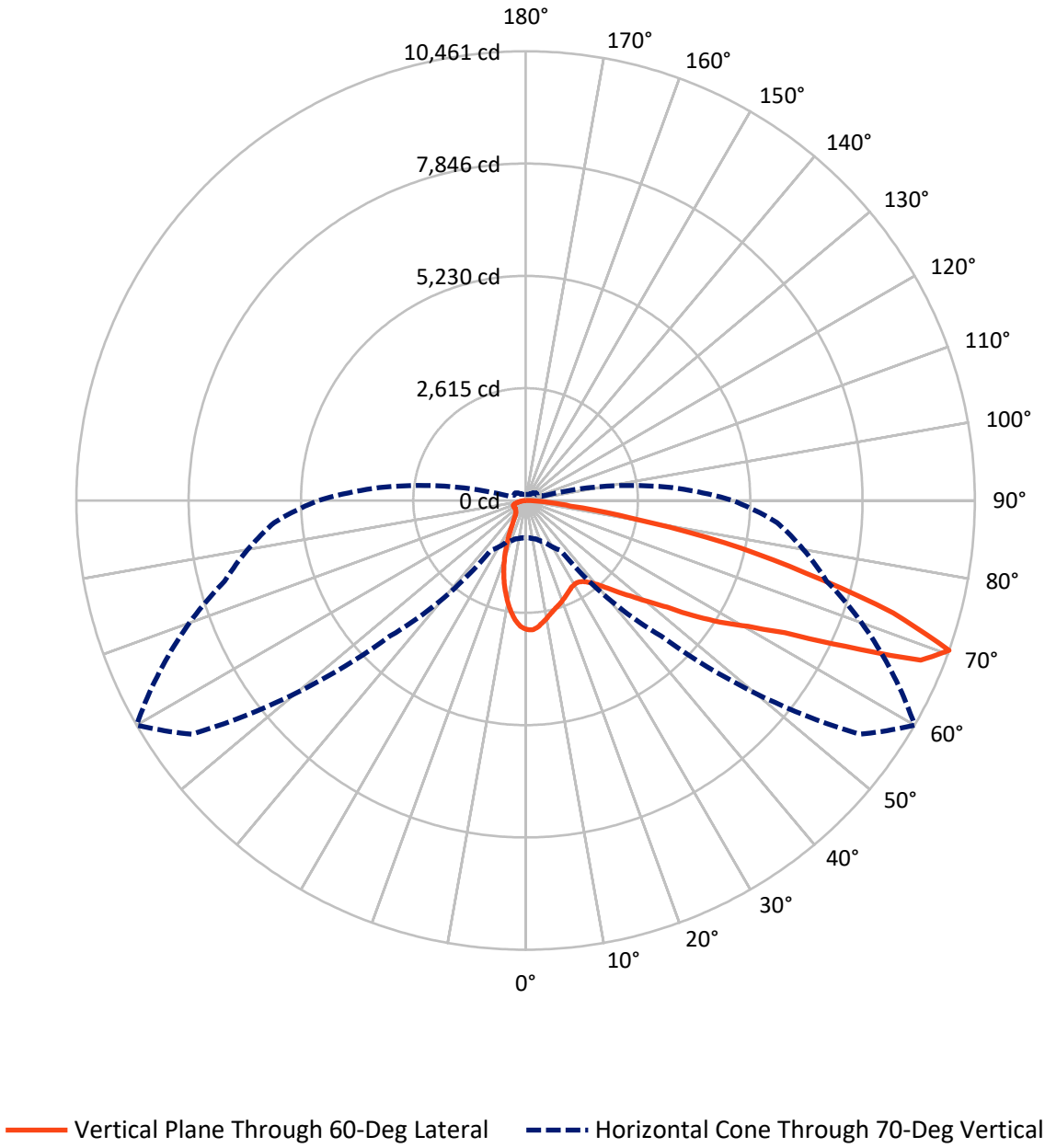
Luminous Intensity Polar Plot



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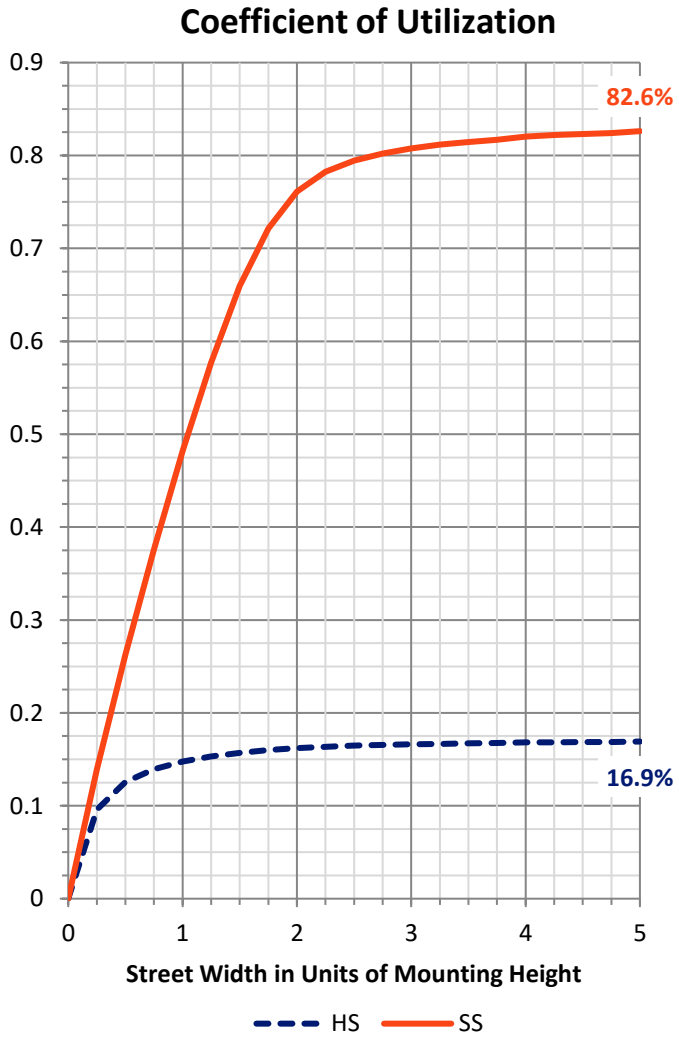
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.9	0.0	1856.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9000.8	0.0	9000.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	10857.7	0.0	10857.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	2.4
10°-20°	580.2	5.3
20°-30°	743.0	6.8
30°-40°	976.5	9.0
40°-50°	1416.8	13.0
50°-60°	2210.5	20.4
60°-70°	2893.9	26.7
70°-80°	1600.2	14.7
80°-90°	177.6	1.6
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°	10857.7	100.0
0°-180°	10857.7	100.0



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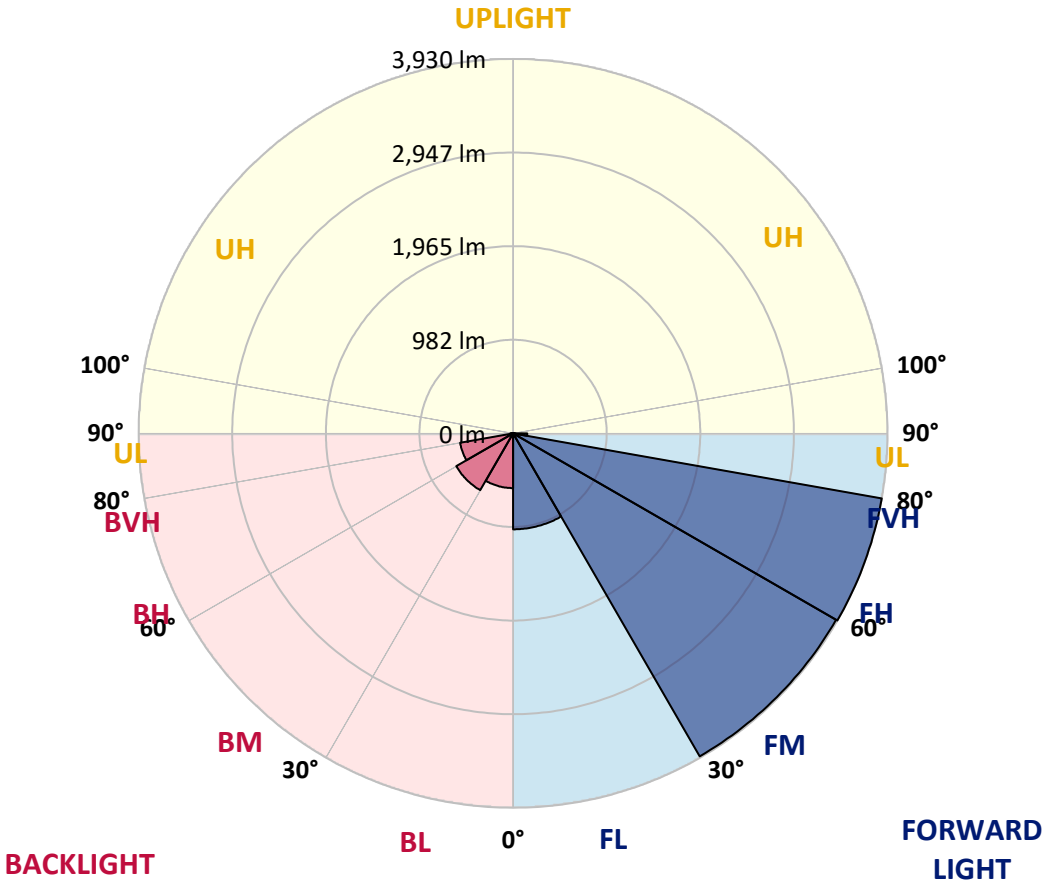
REPORT NUMBER: P635011
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1007.7	9.3			
FM	(30°-60°)	3915.2	36.1			
FH	(60°-80°)	3929.9	36.2			G2/5000
FVH	(80°-90°)	148.0	1.4			G2/225
BL	(0°-30°)	574.5	5.3	B2/1000		
BM	(30°-60°)	688.5	6.3	B1/1000		
BH	(60°-80°)	564.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	29.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Medium



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REPORT NUMBER: P635011
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	*3004.5*	3004.5	3004.5	3004.5
2.5°	2962.4	2965.5	2974.3	2987.0	2999.7	3006.1	3021.9	*3017.2*	3014.0	3007.6	2999.7
5°	2831.3	2837.6	2845.6	2870.2	2898.0	2920.3	2956.0	*2960.0*	2961.6	2964.7	2952.0
7.5°	2664.5	2666.0	2685.1	2717.7	2754.2	2792.4	2851.9	*2868.6*	2882.9	2898.8	2888.5
10°	2480.2	2484.1	2498.4	2545.3	2608.1	2664.5	2744.7	*2772.5*	2802.7	2837.6	2823.3
12.5°	2329.2	2330.0	2353.0	2403.1	2471.4	2547.7	2647.8	*2681.1*	2720.9	2775.7	2763.0
15°	2209.3	2209.3	2230.7	2273.6	2352.3	2442.0	2561.2	*2604.1*	2658.1	2732.0	2709.7
17.5°	2113.9	2114.7	2128.2	2173.5	2243.4	2342.7	2484.1	*2542.1*	2601.7	2699.4	2666.0
20°	2063.9	2059.9	2062.3	2090.1	2149.7	2245.8	2407.1	*2474.6*	2554.8	2677.2	2626.3
22.5°	2061.5	2054.3	2044.0	2046.4	2081.4	2160.8	2324.4	*2406.3*	2507.2	2658.9	2585.8
25°	2102.0	2094.1	2075.8	2055.1	2052.0	2099.6	2246.6	*2339.5*	2457.9	2651.0	2546.9
27.5°	2170.3	2164.8	2140.9	2110.0	2077.4	2075.8	2187.8	*2284.7*	2422.2	2658.9	2519.1
30°	2260.9	2251.4	2236.3	2196.5	2147.3	2096.5	2164.8	*2255.3*	2398.3	2684.3	2507.2
32.5°	2363.4	2357.8	2343.5	2303.8	2251.4	2170.3	2183.0	*2261.7*	2398.3	2728.8	2509.5
35°	2472.2	2471.4	2471.4	2445.2	2387.2	2286.3	2255.3	*2315.7*	2434.9	2800.3	2535.0
37.5°	2577.9	2577.1	2602.5	2612.0	2546.1	2437.3	2378.5	*2423.8*	2515.1	2906.0	2597.7
40°	2663.7	2666.8	2722.4	2770.1	2733.6	2632.7	2550.1	*2573.1*	2645.4	3056.1	2707.4
42.5°	2750.3	2759.0	2842.4	2926.6	2940.9	2853.5	2770.1	*2783.6*	2832.1	3254.7	2871.0
45°	2844.8	2848.8	2965.5	3083.1	3152.2	3100.6	3032.3	*3050.5*	3061.7	3500.2	3114.9
47.5°	2936.1	2946.5	3097.4	3258.7	3389.8	3385.0	3346.9	*3341.3*	3343.7	3798.9	3403.3
50°	3060.9	3076.0	3253.1	3447.7	3640.0	3728.2	3739.3	*3697.2*	3679.7	4130.9	3762.3
52.5°	3297.6	3297.6	3456.5	3647.9	3906.1	4124.6	4199.3	*4130.1*	4074.5	4482.1	4143.7
55°	3593.9	3606.6	3732.9	3887.9	4215.1	4541.7	4794.3	*4718.0*	4560.7	4864.2	4543.2
57.5°	3725.8	3741.7	3941.9	4182.6	4619.5	5015.9	5366.3	*5339.2*	5109.7	5261.4	4957.9
60°	3487.5	3520.8	3796.5	4200.1	4985.7	5780.9	6028.0	*5949.4*	5621.3	5678.5	5407.6
62.5°	2909.1	2945.7	3251.5	3814.8	4934.9	6607.9	7071.1	*6781.1*	6260.0	6205.2	6006.5
65°	1735.8	1734.2	2102.0	2848.8	4308.1	6837.5	8721.8	*8180.9*	7246.6	6928.1	6623.0
67.5°	1103.4	1101.1	1178.1	1509.4	2867.0	6275.1	9783.2	*9923.8*	8586.8	7459.5	6673.9
70°	*870.7*	*869.9*	*925.5*	*1076.4*	*1418.0*	*4465.4*	*9487.7*	*10460.8*	*9396.3*	*7257.0*	*5876.3*
72.5°	634.7	636.3	722.1	901.7	1093.9	2241.8	7682.8	*8950.6*	8642.4	6406.1	4770.4
75°	456.0	458.4	510.0	690.3	1008.9	1225.8	5108.9	*6730.3*	6575.3	5135.1	3281.7
77.5°	290.0	293.1	338.4	483.8	815.1	989.8	3097.4	*4751.4*	4374.8	2893.2	1167.0
80°	177.2	187.5	225.6	360.7	651.4	742.8	1548.3	*2503.2*	2191.0	793.6	392.4
82.5°	91.4	99.3	135.8	223.2	448.8	652.2	876.2	*1051.8*	678.4	332.1	208.9
85°	28.6	33.4	47.7	90.6	213.7	404.4	579.9	*522.7*	311.4	156.5	96.9
87.5°	7.1	7.1	7.9	7.9	8.7	18.3	112.0	*118.4*	82.6	49.3	39.7
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: P635011
CATALOG NUMBER: GWS-SA3C-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5
2.5°	2983.8	2964.7	2956.8	2956.0	2936.1	2907.5	2888.5	2875.0	2867.0	2865.4	2865.4
5°	2930.6	2906.0	2873.4	2848.8	2795.5	2741.5	2696.2	2670.8	2641.4	2637.4	2636.7
7.5°	2859.9	2824.1	2762.2	2693.1	2600.1	2510.3	2434.1	2382.4	2330.8	2321.3	2318.1
10°	2783.6	2735.2	2629.5	2508.0	2368.9	2234.7	2117.9	2026.5	1966.2	1923.3	1915.3
12.5°	2708.2	2643.8	2488.9	2307.8	2117.1	1933.6	1758.0	1608.7	1500.6	1437.9	1426.8
15°	2637.4	2547.7	2335.6	2104.4	1856.5	1605.5	1356.9	1163.0	1011.3	957.3	944.6
17.5°	2573.1	2461.1	2187.0	1893.9	1584.9	1256.8	973.9	801.6	712.6	685.6	679.2
20°	2508.8	2372.1	2036.1	1672.2	1296.5	928.7	711.8	630.8	597.4	587.1	583.9
22.5°	2439.6	2274.4	1871.6	1453.8	1004.9	695.1	582.3	546.6	536.2	537.0	536.2
25°	2370.5	2175.1	1699.2	1216.2	748.3	564.0	508.4	494.9	497.3	504.5	506.0
27.5°	2313.3	2086.9	1530.0	955.7	584.7	485.4	459.2	458.4	467.1	476.6	478.2
30°	2272.0	2008.3	1363.2	734.8	481.4	431.4	421.0	425.8	436.1	443.3	445.7
32.5°	2242.6	1940.7	1185.3	577.5	421.8	393.2	388.5	393.2	399.6	406.7	408.3
35°	2232.3	1891.5	1010.5	471.1	381.3	365.4	362.3	364.6	367.8	371.8	373.4
37.5°	2255.3	1866.9	827.8	409.9	356.7	347.2	342.4	340.8	341.6	343.2	344.0
40°	2323.7	1878.0	678.4	374.2	340.8	332.1	324.1	320.9	320.1	321.7	320.9
42.5°	2441.2	1924.9	570.4	353.5	328.1	315.4	306.6	303.5	303.5	307.4	307.4
45°	2613.6	2017.0	492.5	338.4	317.0	301.1	291.5	290.0	293.1	299.5	300.3
47.5°	2866.2	2152.1	445.7	327.3	306.6	288.4	278.8	278.0	284.4	294.7	295.5
50°	3165.7	2346.7	420.2	319.4	299.5	278.0	268.5	269.3	276.5	287.6	290.0
52.5°	3526.4	2612.0	421.8	316.2	295.5	271.7	262.2	260.6	267.7	278.8	281.2
55°	3899.0	2934.6	452.8	317.0	290.0	268.5	255.8	250.2	256.6	264.5	265.3
57.5°	4308.9	3298.4	529.9	315.4	282.8	265.3	250.2	237.5	241.5	246.3	248.7
60°	4771.2	3726.6	695.9	318.6	279.6	258.2	239.1	222.4	221.6	224.8	225.6
62.5°	5389.3	4308.9	882.6	324.1	286.8	249.4	222.4	205.0	201.8	203.4	204.2
65°	5862.0	4586.9	823.8	319.4	301.9	243.1	206.5	188.3	181.9	180.3	180.3
67.5°	5669.7	4219.1	573.6	306.6	309.0	243.9	193.8	170.8	162.9	158.9	158.1
70°	*4824.5*	*3427.1*	*398.8*	*293.9*	*301.1*	*242.3*	*180.3*	*156.5*	*146.2*	*140.6*	*139.8*
72.5°	3811.6	2616.8	322.5	268.5	273.3	218.5	160.5	140.6	131.9	124.7	124.7
75°	2453.1	1596.8	269.3	239.1	223.2	170.0	139.0	125.5	116.8	109.6	109.6
77.5°	825.4	592.6	208.9	202.6	166.8	127.9	116.8	108.0	100.9	94.5	93.7
80°	335.2	281.2	153.3	153.3	116.8	97.7	91.4	87.4	82.6	74.7	74.7
82.5°	194.6	170.8	107.2	92.9	77.9	67.5	63.6	59.6	59.6	54.0	54.0
85°	93.7	94.5	64.3	57.2	44.5	38.9	37.3	35.0	34.2	31.0	30.2
87.5°	50.8	51.6	32.6	25.4	17.5	15.1	12.7	11.9	11.1	10.3	10.3
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

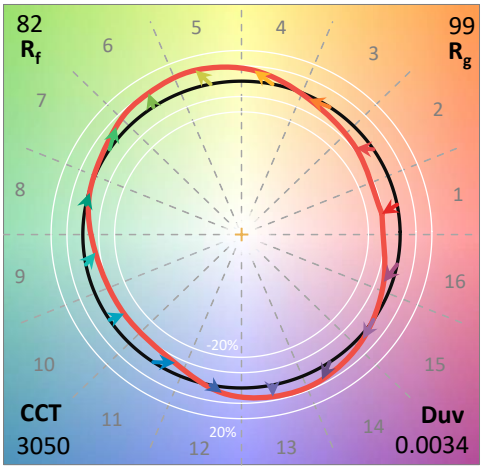
Test Information

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

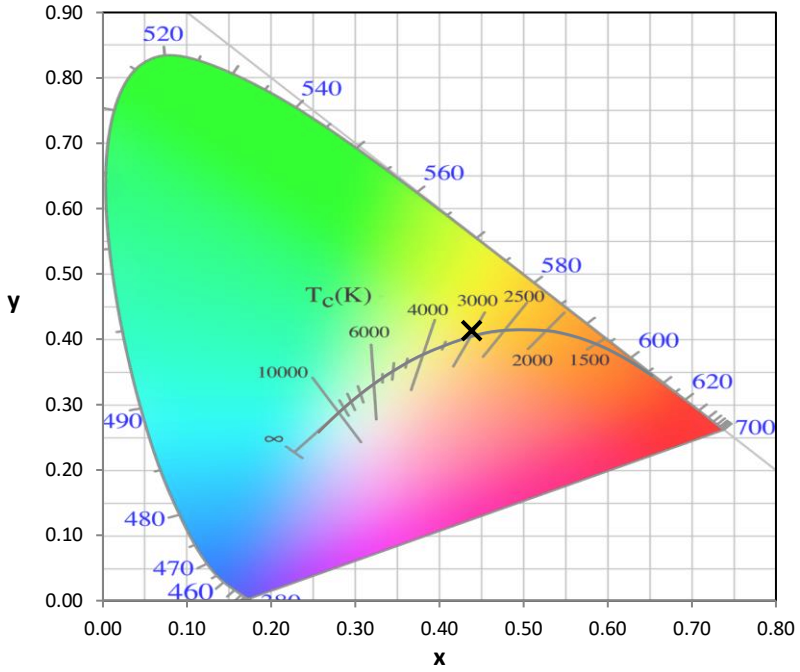
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

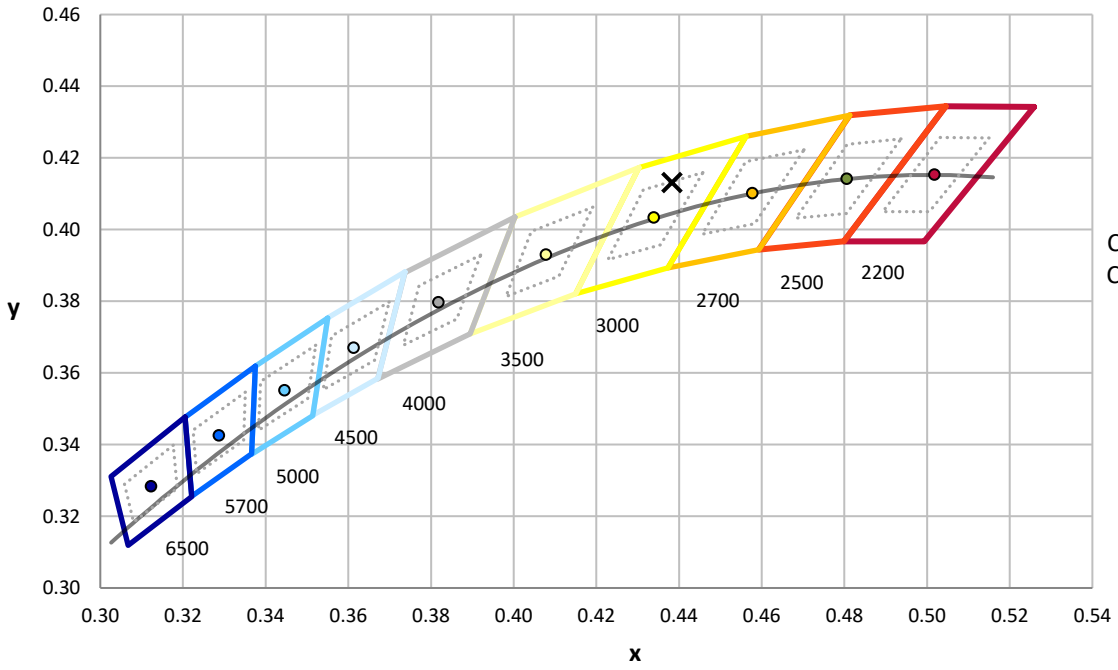
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

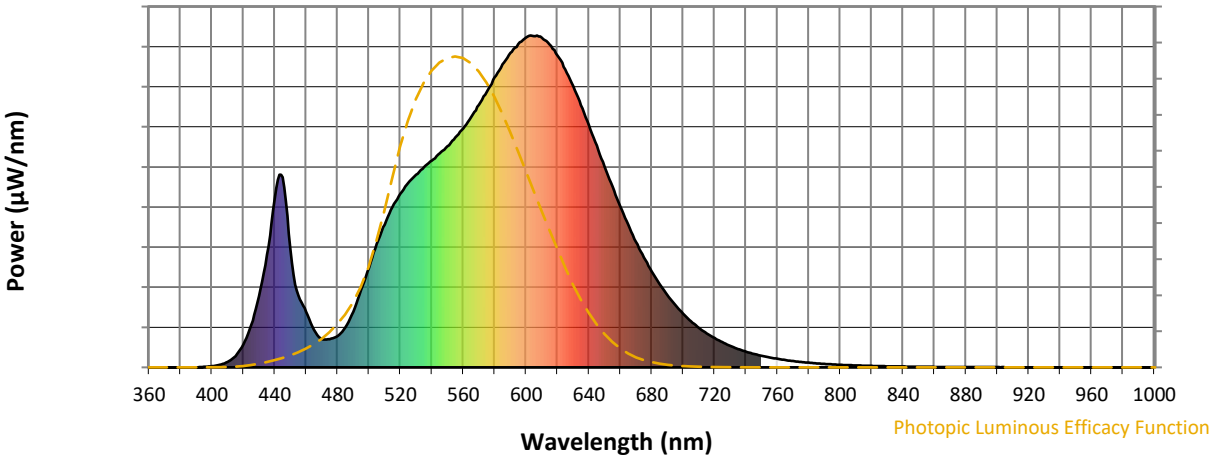


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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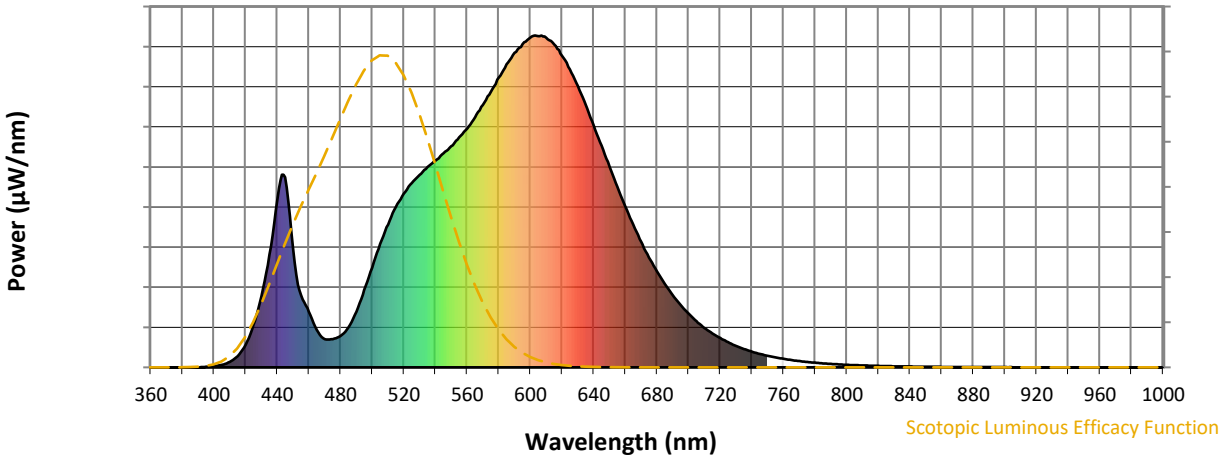
Scotopic Flux vs. Wavelength



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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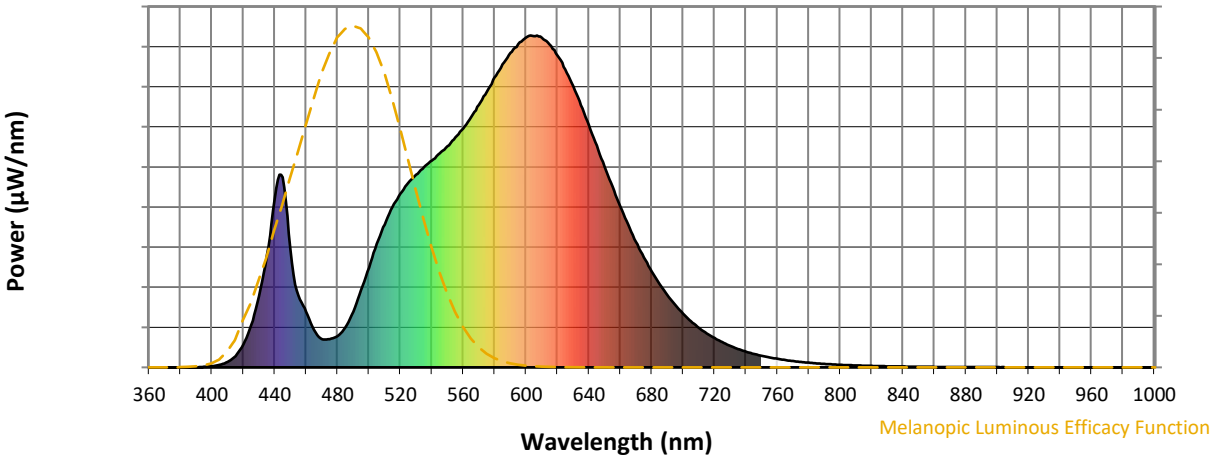
Melanopic Flux vs. Wavelength



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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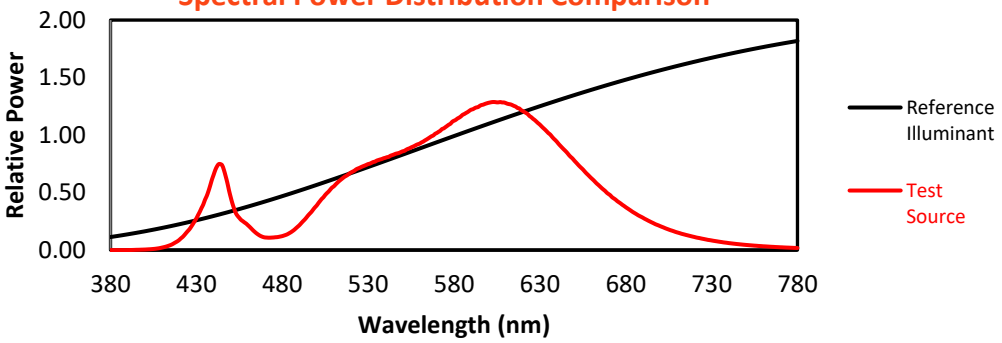
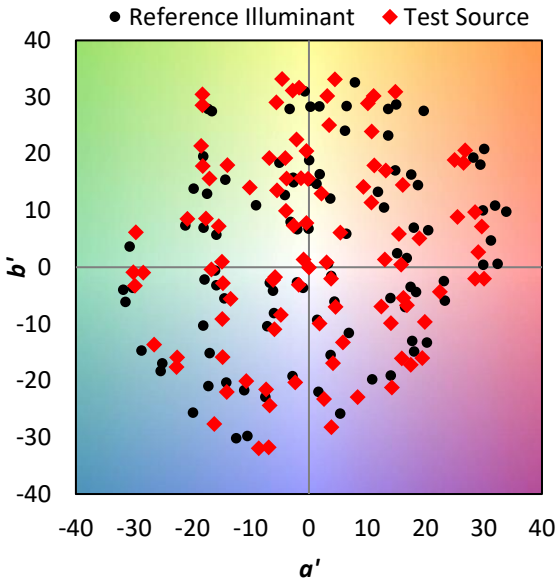
Summary

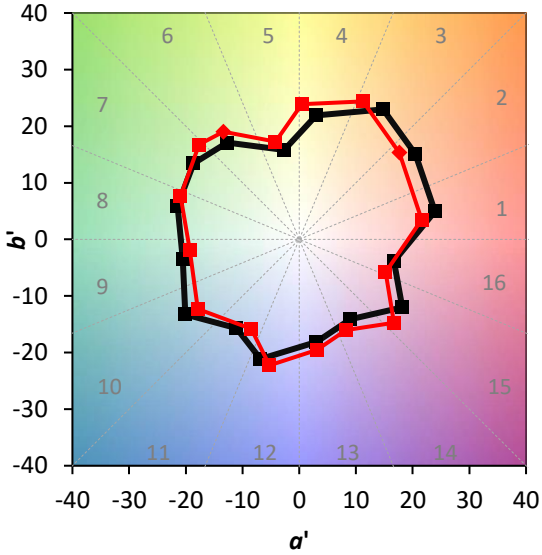
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

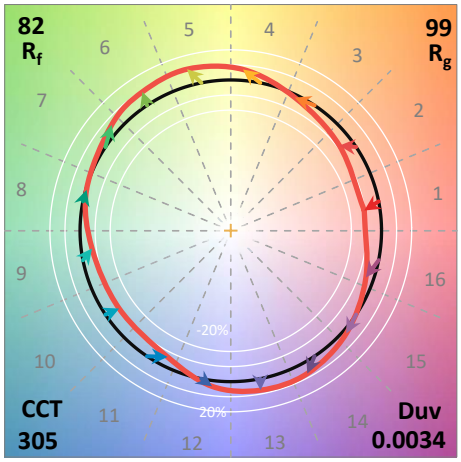
Spectral Power Distribution Comparison

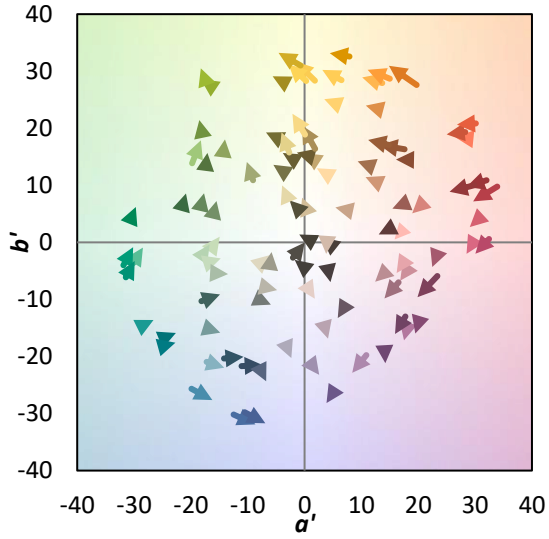


Color Vector Graphics









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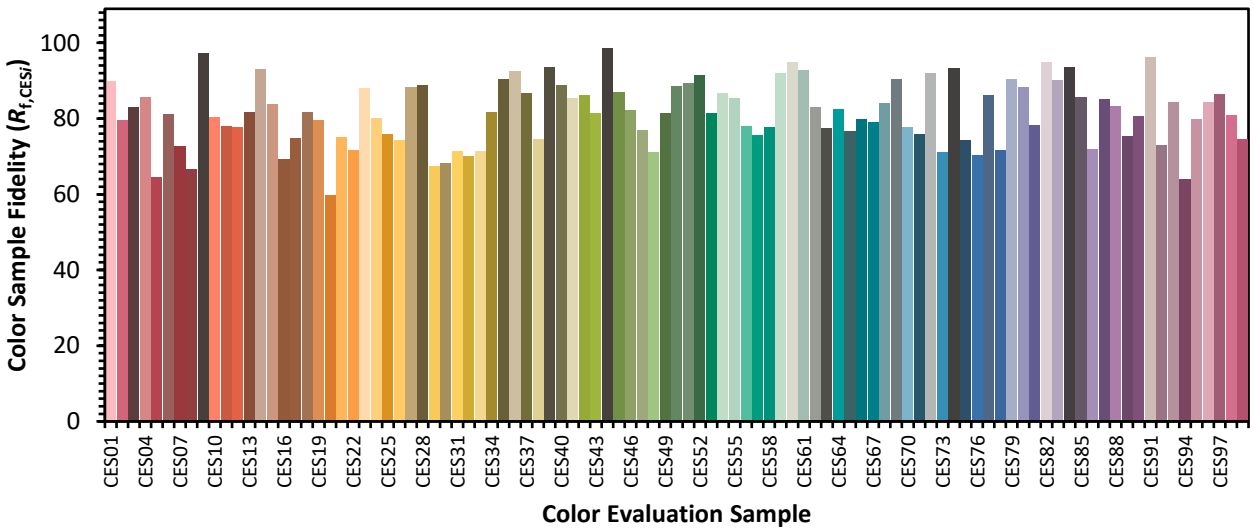
Individual Sample Fidelity Index ($R_{f,i}$)

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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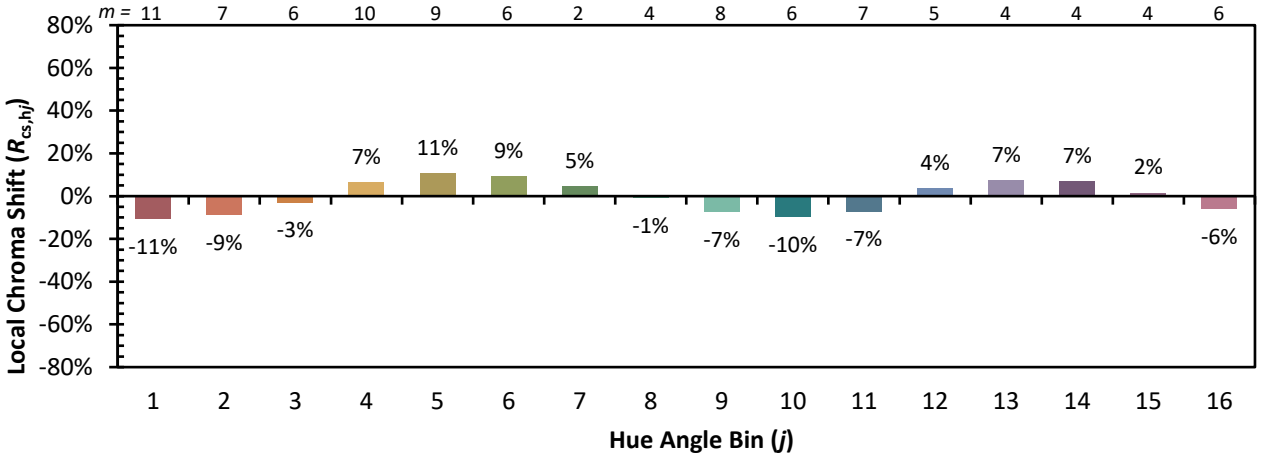
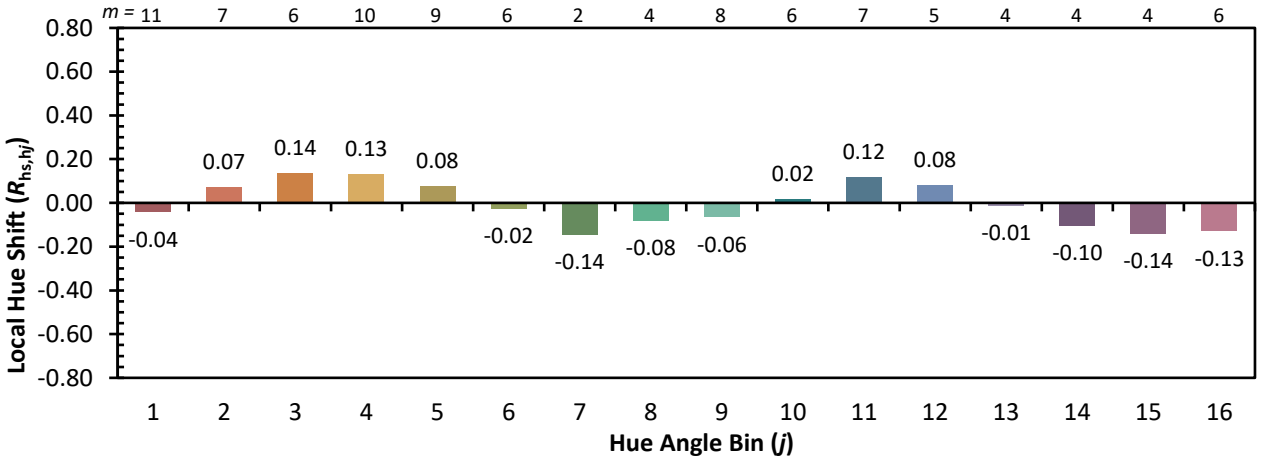
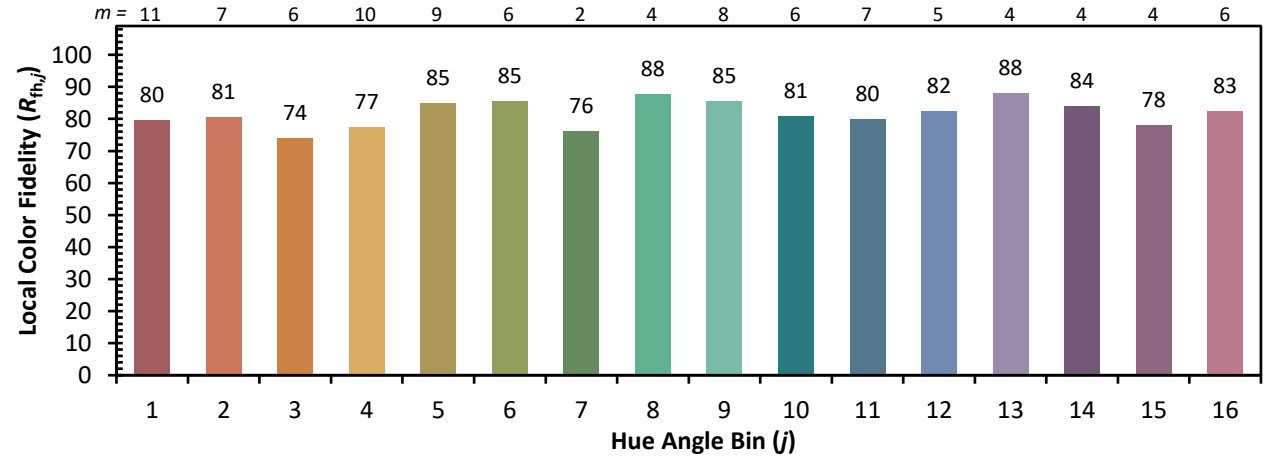
Color Rendition by Hue-Angle Bin







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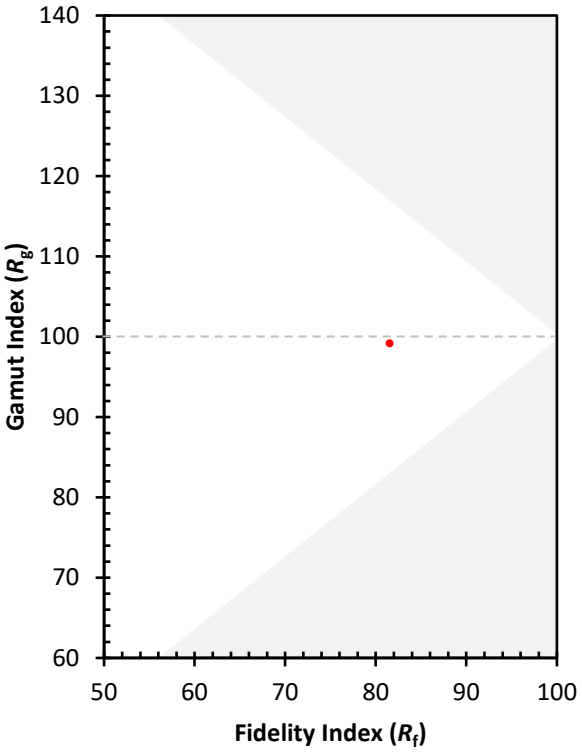
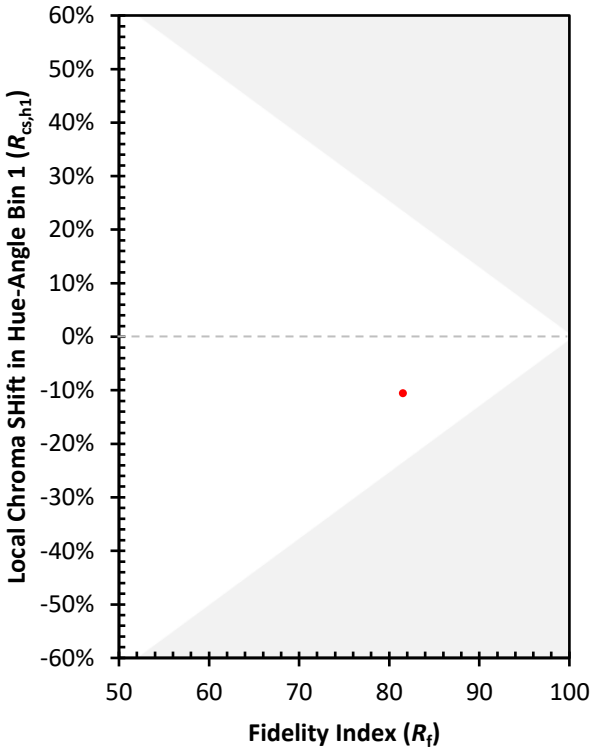
Measure Comparisons





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