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: P633525

Luminaire Tested: GWS-SA2E-830-U-SL3-W-HSS

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:	P633525
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9387.8 lumens
Efficiency:	N/A
Efficacy:	86.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	108.2
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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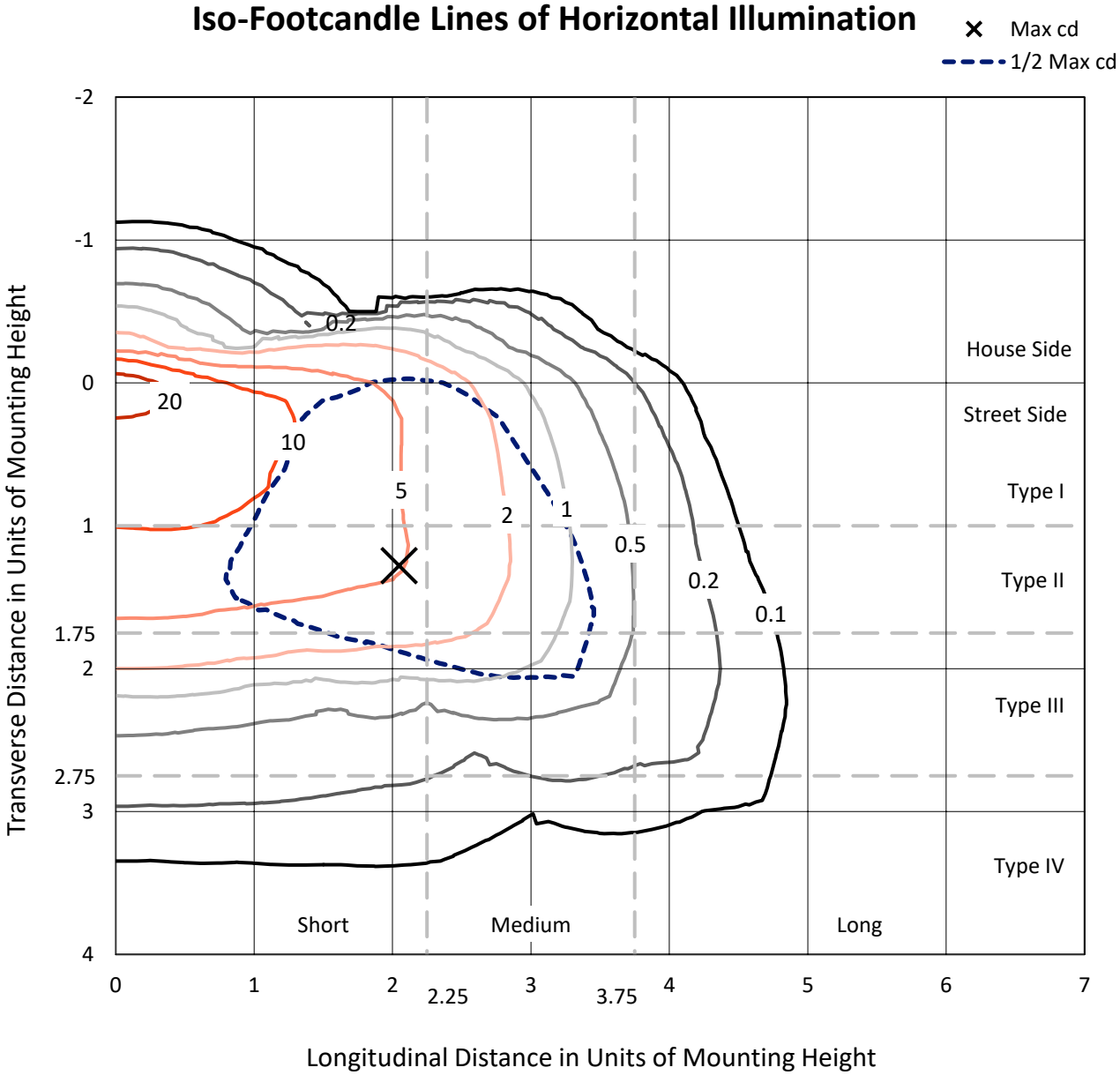
Scaled Data Report

REPORT NUMBER: P633525
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
Type III - Short - N/A

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REPORT NUMBER: P633525
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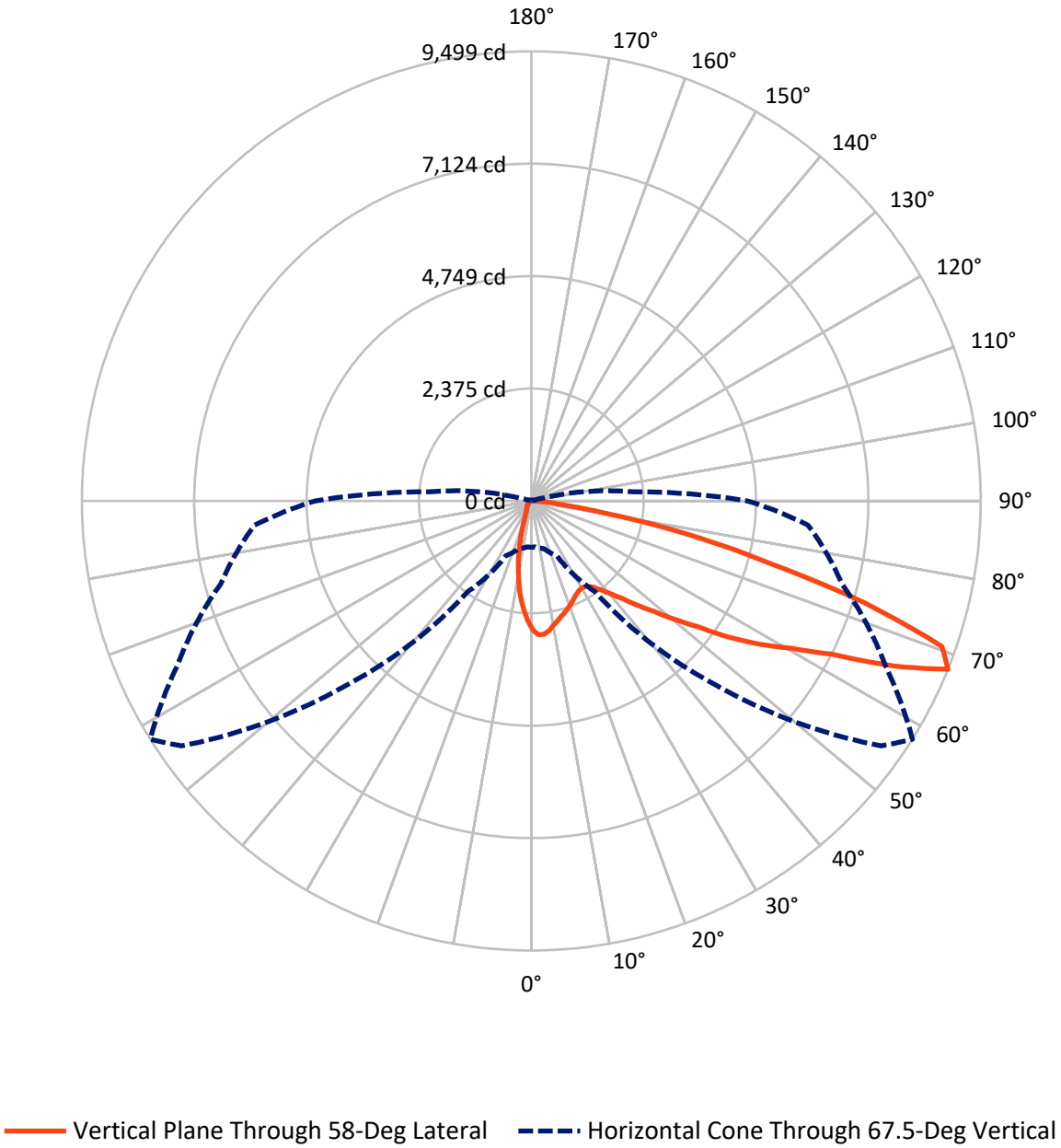
Luminous Intensity Polar Plot



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REPORT NUMBER: P633525
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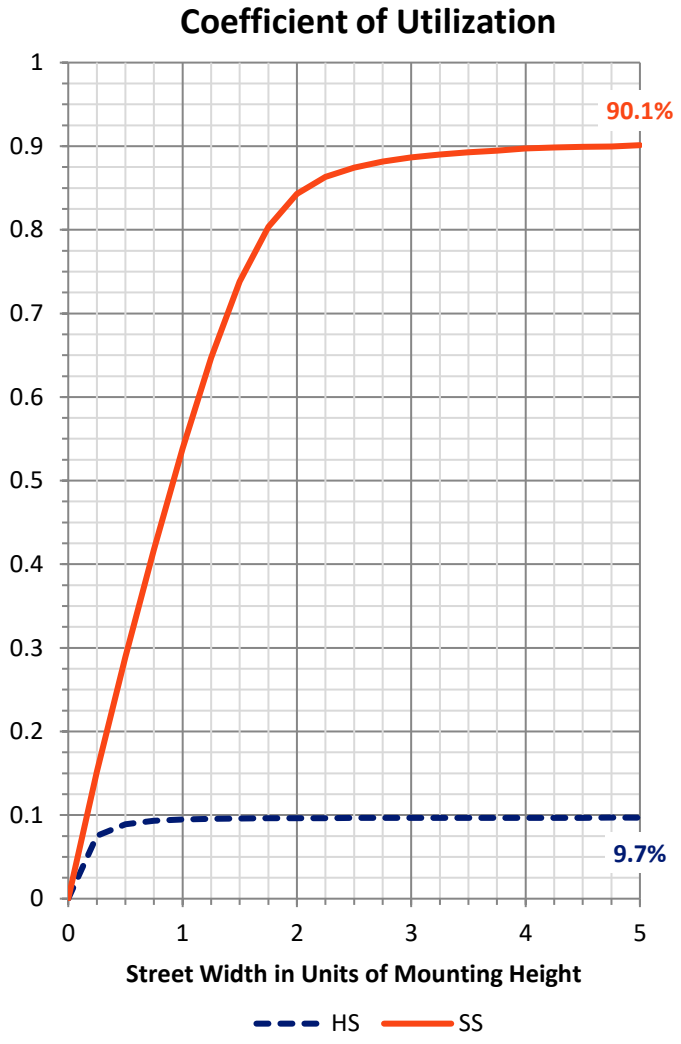
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.1	0.0	917.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8470.7	0.0	8470.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	9387.8	0.0	9387.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	2.3
10°-20°	458.0	4.9
20°-30°	617.7	6.6
30°-40°	868.0	9.2
40°-50°	1340.6	14.3
50°-60°	2143.7	22.8
60°-70°	2538.3	27.0
70°-80°	1122.9	12.0
80°-90°	78.5	0.8
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°	9387.8	100.0
0°-180°	9387.8	100.0



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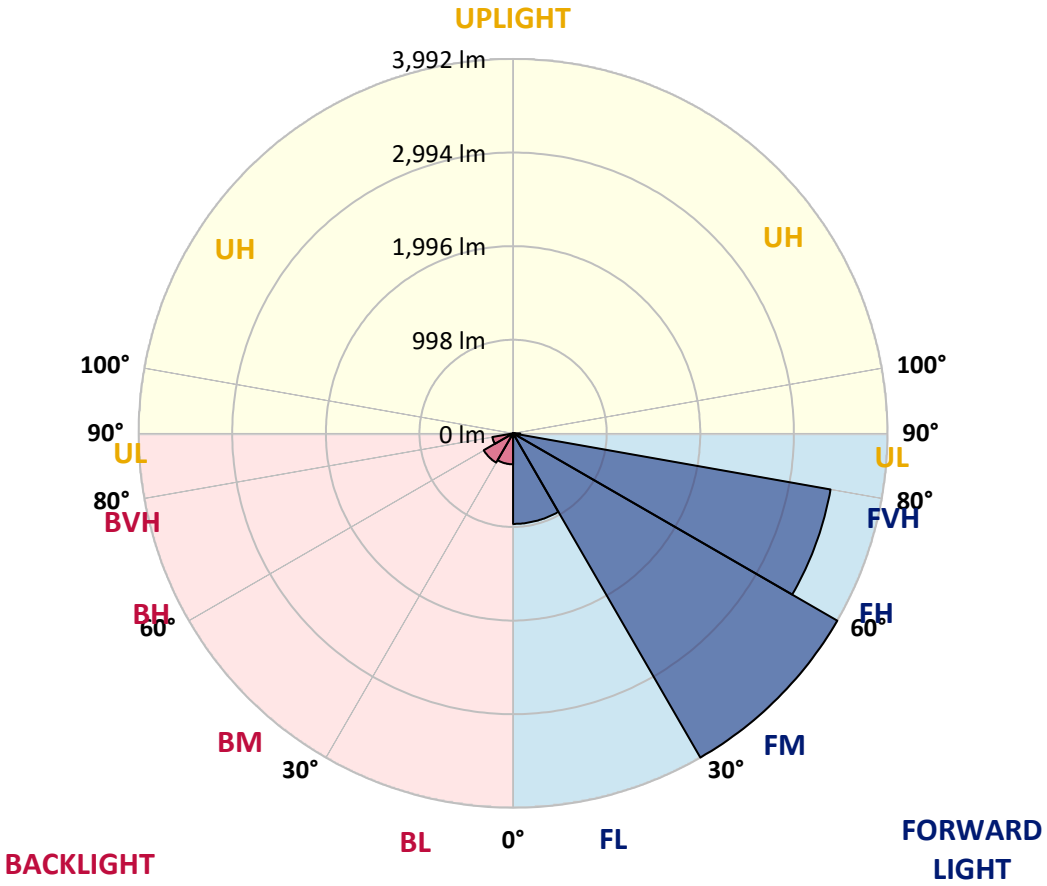
REPORT NUMBER: P633525
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	965.8	10.3			
FM	(30°-60°)	3992.4	42.5			
FH	(60°-80°)	3437.3	36.6			G2/5000
FVH	(80°-90°)	75.2	0.8			G1/100
BL	(0°-30°)	330.0	3.5	B1/500		
BM	(30°-60°)	359.9	3.8	B1/1000		
BH	(60°-80°)	223.9	2.4	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P633525
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9
2.5°	2848.3	2853.3	2859.9	2868.2	2866.6	2859.1	2850.0	2829.2	2815.9	2774.4	2723.7
5°	2756.9	2756.1	2772.7	2788.5	2816.7	2831.7	2852.5	2833.3	2826.7	2776.8	2694.6
7.5°	2578.3	2587.4	2606.5	2631.4	2672.2	2716.2	2766.0	2760.2	2780.2	2746.9	2644.7
10°	2402.9	2398.0	2427.9	2465.3	2527.6	2584.1	2656.4	2655.5	2707.9	2704.6	2588.2
12.5°	2249.2	2248.4	2271.7	2314.0	2387.2	2466.1	2564.1	2566.6	2631.4	2658.0	2540.0
15°	2119.6	2121.3	2143.7	2187.7	2263.4	2359.7	2473.6	2494.3	2567.5	2621.5	2492.7
17.5°	2027.4	2028.2	2041.5	2079.7	2153.7	2256.7	2393.8	2422.1	2515.9	2594.0	2454.5
20°	1985.0	1981.7	1984.2	2003.3	2060.6	2154.5	2312.4	2348.9	2468.6	2574.9	2419.6
22.5°	1990.8	1985.8	1974.2	1971.7	1997.5	2068.9	2226.0	2270.8	2417.1	2563.3	2388.0
25°	2042.3	2031.5	2014.9	1990.0	1980.0	2015.7	2150.4	2196.9	2368.9	2564.1	2363.9
27.5°	2121.3	2109.6	2088.9	2055.6	2016.6	2001.6	2098.8	2142.9	2334.8	2583.2	2352.3
30°	2221.8	2212.7	2192.7	2152.8	2100.5	2039.0	2088.0	2124.6	2318.2	2622.3	2357.2
32.5°	2340.6	2334.0	2317.4	2280.8	2221.0	2127.1	2124.6	2152.8	2331.5	2678.8	2376.4
35°	2455.3	2457.8	2458.6	2438.7	2374.7	2260.9	2225.1	2235.1	2386.3	2763.6	2419.6
37.5°	2579.1	2573.3	2603.2	2617.3	2555.8	2434.5	2380.5	2381.3	2491.0	2889.0	2501.0
40°	2673.0	2674.6	2739.5	2797.6	2771.9	2654.7	2577.4	2576.6	2652.2	3061.0	2632.3
42.5°	2761.1	2771.9	2867.4	2967.1	3002.8	2899.0	2843.3	2822.5	2878.2	3293.7	2829.2
45°	2855.0	2870.7	3004.5	3146.6	3240.5	3179.0	3135.0	3143.3	3149.9	3564.5	3094.2
47.5°	2964.6	2974.6	3139.9	3340.2	3515.5	3499.7	3502.2	3492.2	3488.9	3906.0	3444.9
50°	3097.6	3120.8	3311.1	3550.4	3789.7	3894.4	3929.3	3933.5	3879.4	4278.3	3808.0
52.5°	3380.1	3408.3	3571.2	3780.6	4088.8	4309.0	4451.1	4422.8	4339.8	4638.9	4206.0
55°	3713.3	3734.9	3891.9	4108.8	4454.4	4763.5	5100.9	5089.2	4885.7	5018.6	4533.4
57.5°	3744.8	3768.9	4012.4	4344.7	4923.9	5325.2	5680.0	5717.4	5419.1	5287.8	4825.8
60°	3390.0	3439.1	3771.4	4218.4	5103.3	6080.5	6314.8	6322.3	5810.4	5561.2	5183.1
62.5°	2717.0	2740.3	3075.1	3658.4	4826.7	6520.9	7284.4	7126.6	6313.1	5984.1	5749.0
65°	1424.2	1518.9	1810.5	2456.1	3914.3	6367.1	8451.0	8407.8	7217.1	6589.8	6189.3
67.5°	977.1	976.3	1045.3	1280.4	2334.0	5482.2	9023.5	9498.8	8262.4	6797.5	5870.3
70°	743.6	746.1	807.6	960.5	1209.0	3649.3	8395.3	9208.0	8456.8	6171.9	4747.7
72.5°	493.6	498.5	600.7	776.1	965.5	1788.9	6524.2	7367.5	7115.8	4957.1	3341.9
75°	295.0	299.1	372.2	564.2	858.3	1001.2	4145.3	5093.4	4898.1	3416.6	1791.4
77.5°	121.3	124.6	191.1	351.5	628.2	777.7	2292.4	3332.7	2933.9	1358.5	489.4
80°	50.7	52.3	92.2	245.9	452.8	487.7	1061.9	1566.2	1202.3	292.5	149.6
82.5°	18.3	19.1	34.1	135.4	281.7	367.3	535.9	619.0	339.0	95.6	80.6
85°	0.8	0.8	8.3	45.7	107.2	103.9	306.6	296.6	112.2	39.9	48.2
87.5°	0.0	0.0	0.8	0.8	1.7	4.2	29.1	51.5	24.1	10.0	20.8
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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REPORT NUMBER: P633525
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9
2.5°	2690.4	2646.4	2598.2	2553.3	2481.9	2439.5	2387.2	2363.9	2330.7	2322.3	2327.3
5°	2635.6	2560.0	2444.5	2339.8	2204.4	2095.5	1985.8	1939.3	1879.5	1839.6	1823.0
7.5°	2558.3	2459.4	2279.1	2088.9	1902.7	1704.2	1552.9	1453.2	1362.7	1312.8	1302.8
10°	2480.2	2351.4	2093.0	1820.5	1532.2	1294.5	1090.1	938.9	815.9	760.3	717.1
12.5°	2399.6	2239.3	1903.6	1548.0	1213.1	889.1	636.5	489.4	401.3	366.4	372.2
15°	2325.7	2131.2	1715.8	1275.4	854.2	536.8	351.5	296.6	275.9	269.2	268.4
17.5°	2255.0	2029.0	1528.8	1010.4	563.3	329.0	269.2	255.9	250.1	246.8	246.8
20°	2191.1	1931.0	1346.0	761.1	363.9	260.9	243.5	236.8	231.8	229.3	229.3
22.5°	2131.2	1836.3	1167.4	538.4	268.4	234.3	223.5	216.9	211.0	207.7	207.7
25°	2077.2	1750.7	997.1	370.6	231.0	214.4	202.7	195.3	185.3	179.5	179.5
27.5°	2038.2	1674.3	833.4	270.0	208.6	192.8	179.5	169.5	158.7	152.1	150.4
30°	2014.9	1609.4	668.0	221.8	187.8	172.0	157.0	144.6	132.1	125.5	124.6
32.5°	2001.6	1549.6	516.8	193.6	170.3	152.1	135.4	122.1	109.7	102.2	101.4
35°	2006.6	1503.1	387.2	174.5	153.7	134.6	116.3	103.0	92.2	85.6	83.9
37.5°	2049.8	1482.3	290.8	159.5	139.6	119.6	100.5	88.1	78.1	73.1	72.3
40°	2133.7	1486.5	228.5	147.9	128.0	104.7	86.4	74.8	67.3	63.1	62.3
42.5°	2264.2	1521.4	188.6	137.9	115.5	91.4	74.8	65.6	58.2	54.0	53.2
45°	2458.6	1593.7	164.5	126.3	102.2	78.9	64.8	56.5	49.9	44.9	44.0
47.5°	2740.3	1719.1	148.7	115.5	90.6	68.1	55.7	47.4	41.5	37.4	36.6
50°	3040.2	1869.5	135.4	104.7	80.6	59.0	47.4	39.1	34.1	29.9	29.1
52.5°	3360.1	2031.5	125.5	94.7	71.5	50.7	39.9	32.4	27.4	23.3	22.4
55°	3667.6	2194.4	113.8	88.1	60.7	43.2	33.2	26.6	21.6	18.3	18.3
57.5°	3966.7	2344.0	101.4	77.3	49.9	36.6	27.4	21.6	17.4	15.0	14.1
60°	4324.0	2550.8	87.2	65.6	41.5	30.7	22.4	17.4	14.1	11.6	11.6
62.5°	4854.9	2766.0	74.8	54.8	34.9	25.8	18.3	14.1	11.6	10.0	9.1
65°	5028.6	2649.7	63.1	44.9	28.3	20.8	15.0	12.5	10.0	9.1	8.3
67.5°	*4564.9*	*2172.0*	*52.3*	*36.6*	*23.3*	*17.4*	*13.3*	*10.8*	*9.1*	*8.3*	*7.5*
70°	3562.0	1541.3	40.7	27.4	19.1	14.1	11.6	10.0	8.3	7.5	7.5
72.5°	2422.9	911.5	32.4	20.8	15.8	12.5	10.0	9.1	8.3	7.5	6.6
75°	1193.2	324.0	24.9	15.8	12.5	10.8	9.1	8.3	7.5	6.6	6.6
77.5°	321.6	89.7	19.1	12.5	10.0	8.3	8.3	8.3	7.5	5.8	5.8
80°	108.8	37.4	14.1	9.1	8.3	6.6	5.8	7.5	6.6	5.8	5.0
82.5°	59.8	18.3	10.0	7.5	5.8	5.0	5.0	5.0	5.0	4.2	4.2
85°	38.2	10.0	6.6	5.8	5.8	4.2	3.3	3.3	2.5	2.5	2.5
87.5°	17.4	5.8	5.8	5.0	5.0	4.2	2.5	1.7	0.8	0.8	0.8
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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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

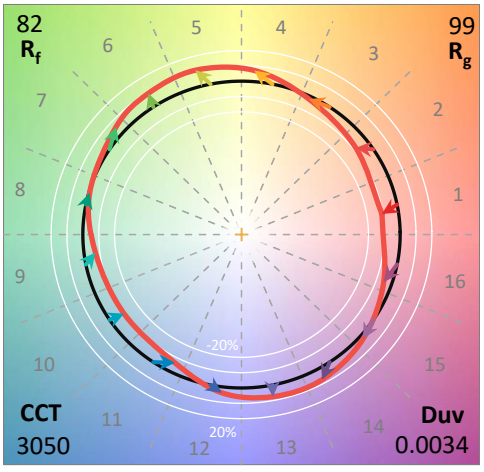
Test Information

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

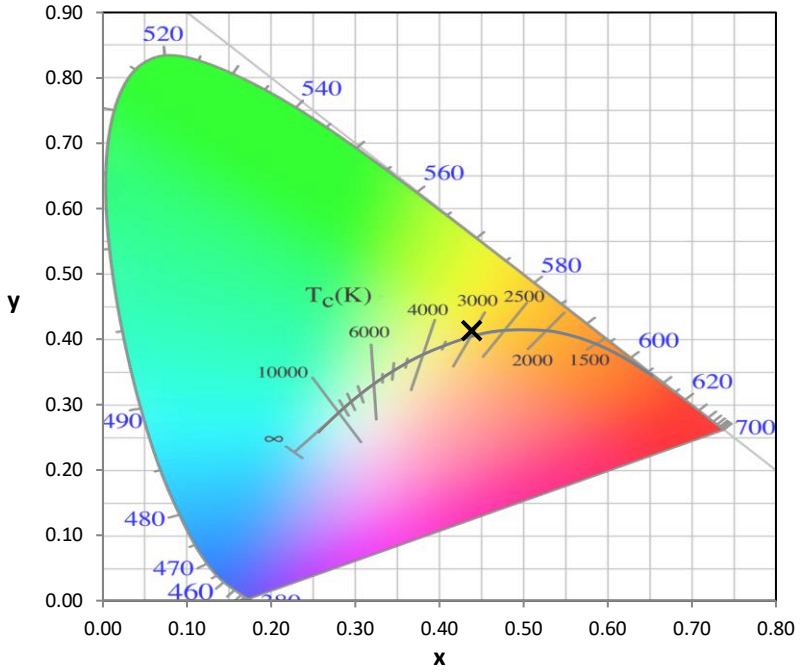
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

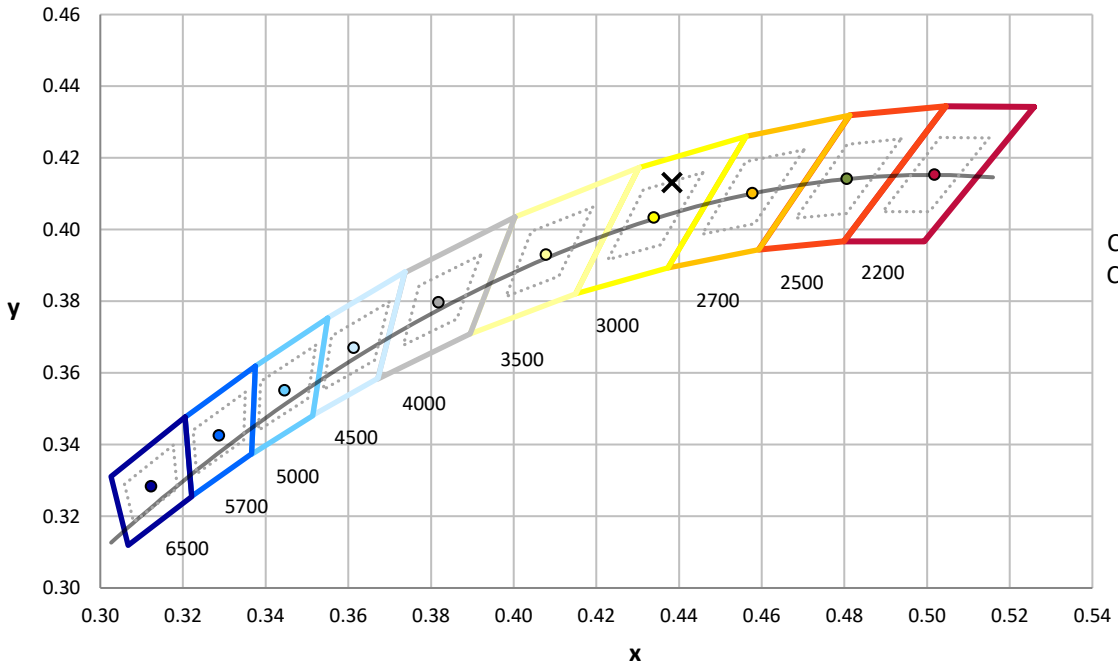
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

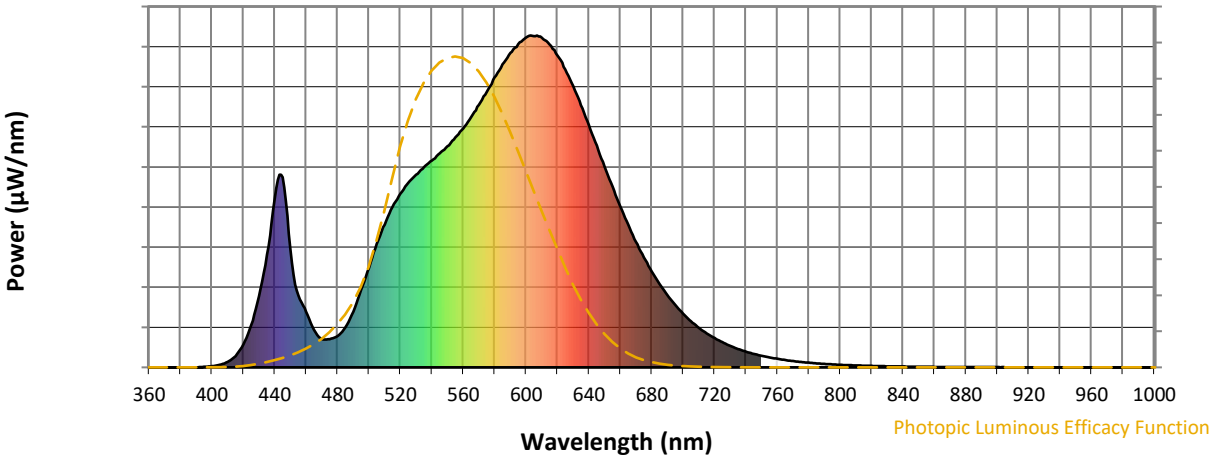


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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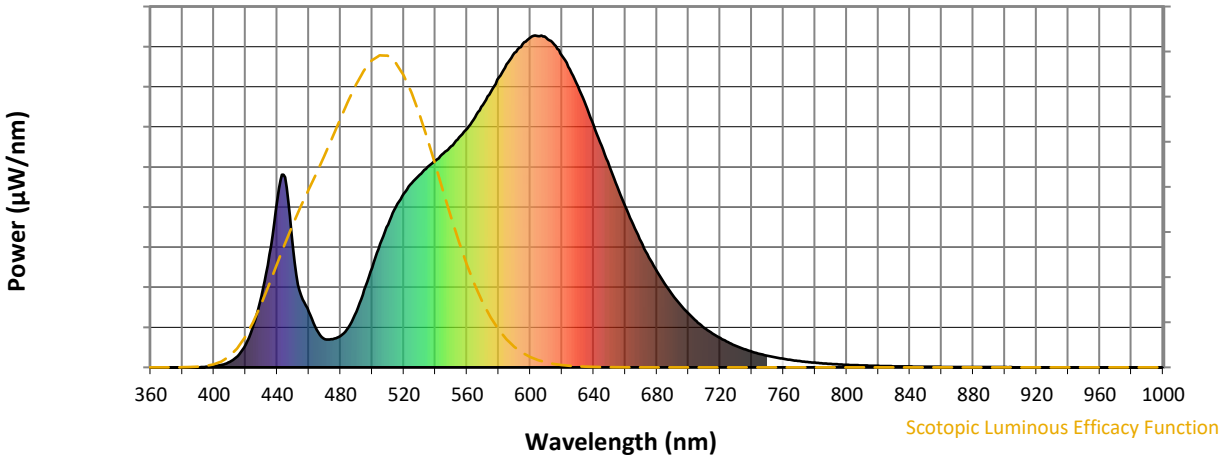
Scotopic Flux vs. Wavelength



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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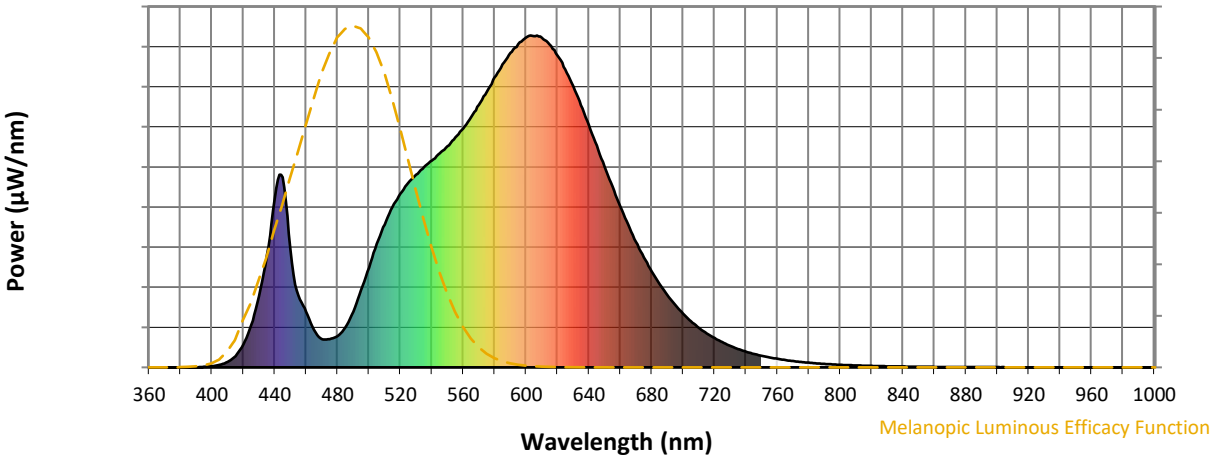
Melanopic Flux vs. Wavelength



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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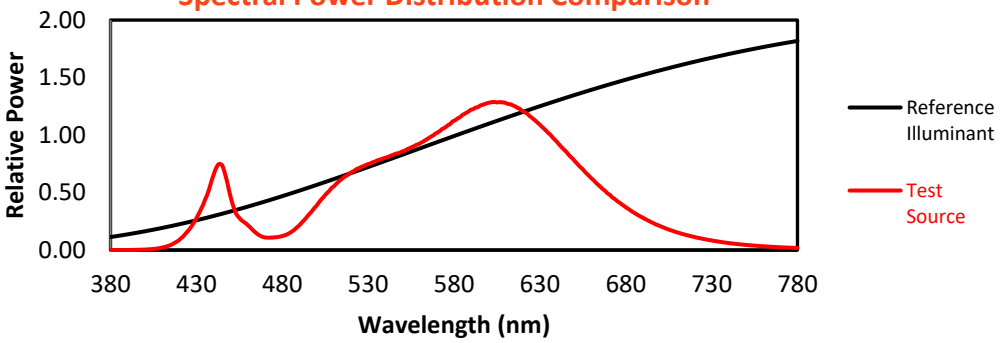
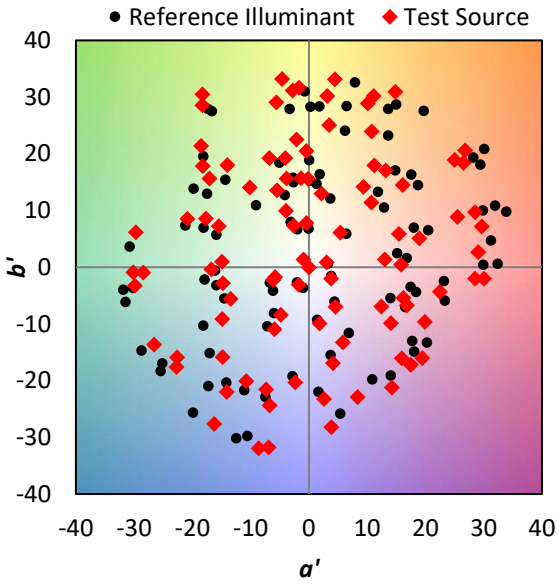
Summary

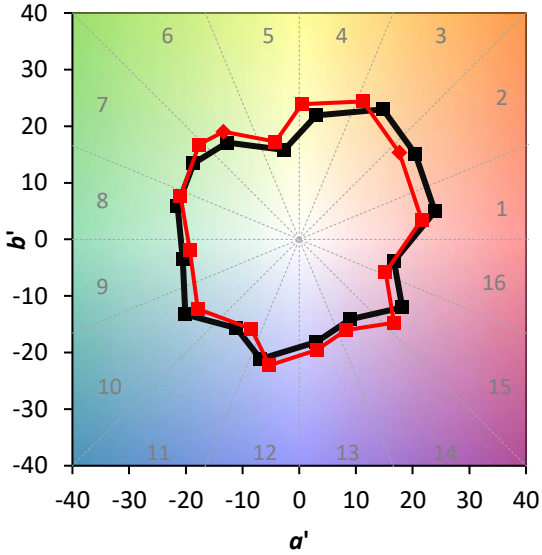
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

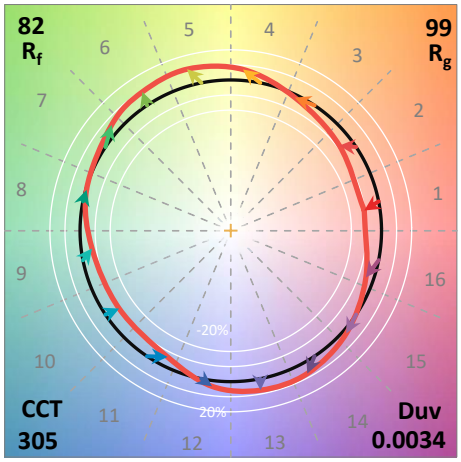
Spectral Power Distribution Comparison

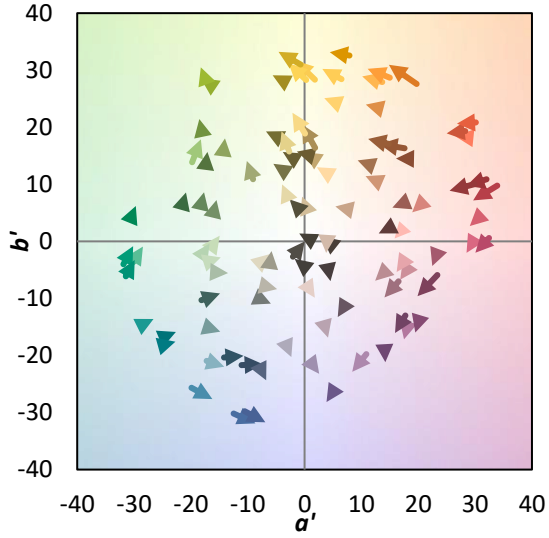


Color Vector Graphics









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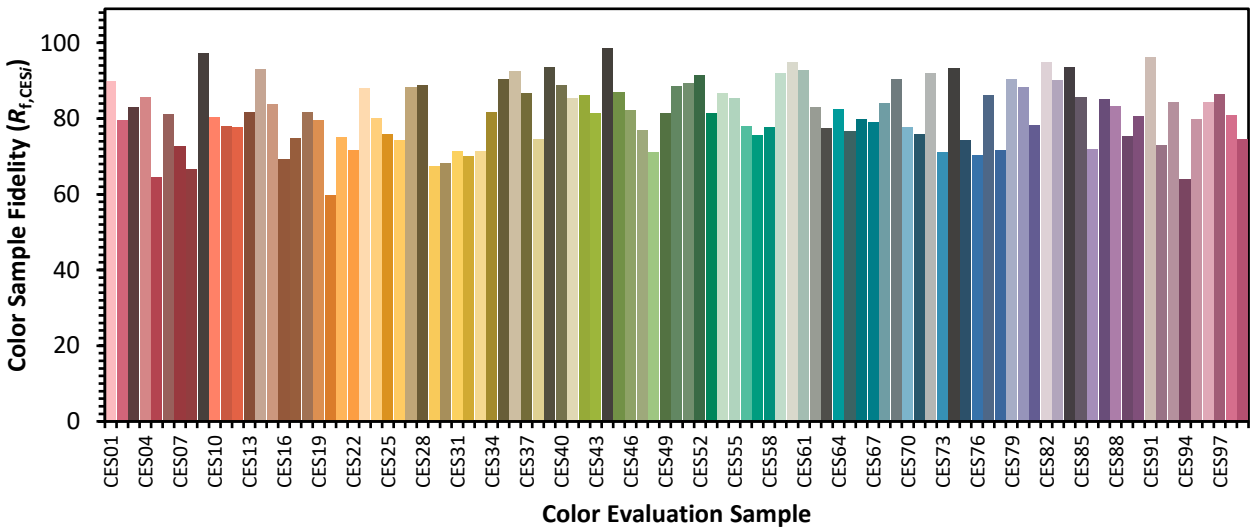
Individual Sample Fidelity Index ($R_{f,i}$)

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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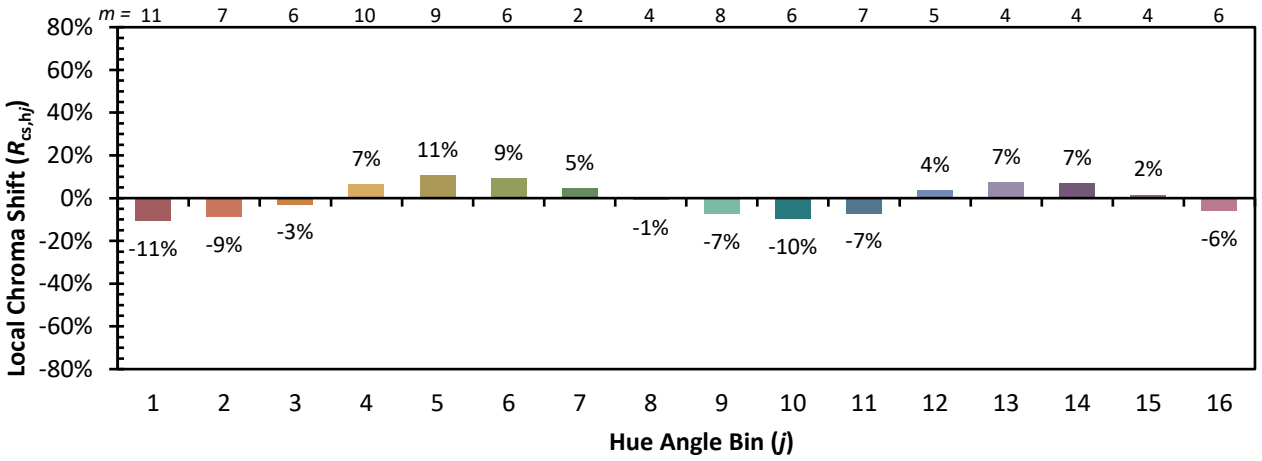
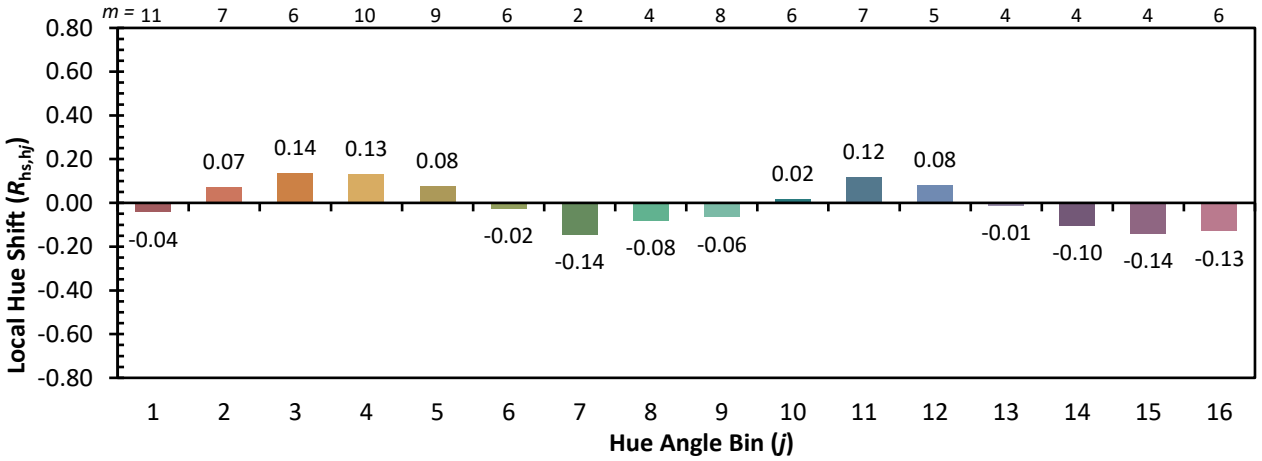
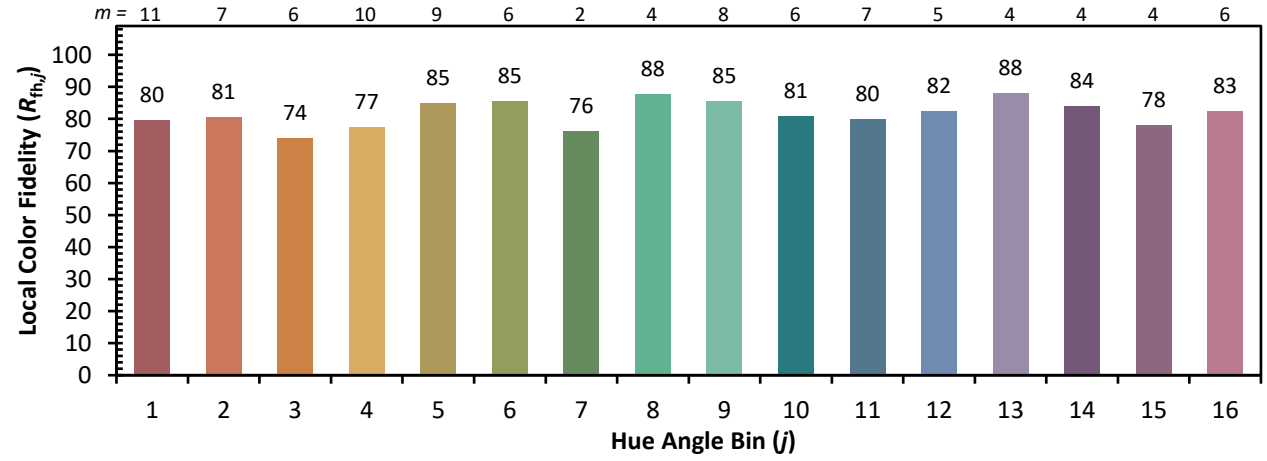
Color Rendition by Hue-Angle Bin







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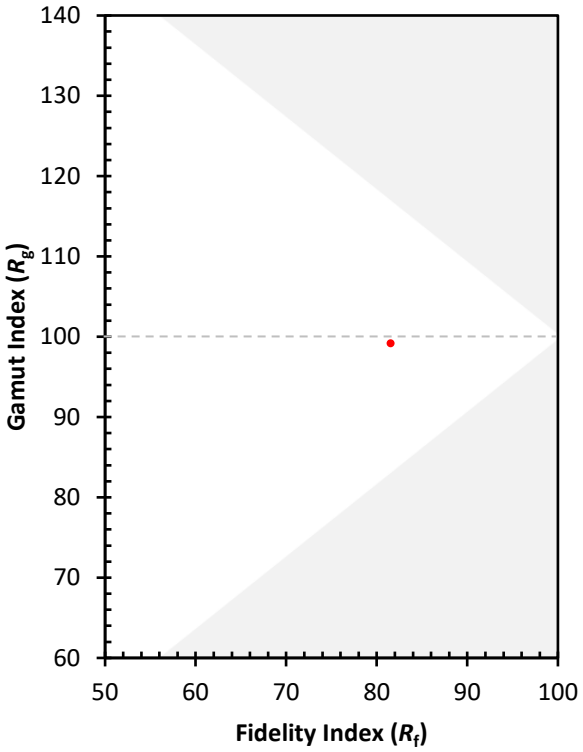
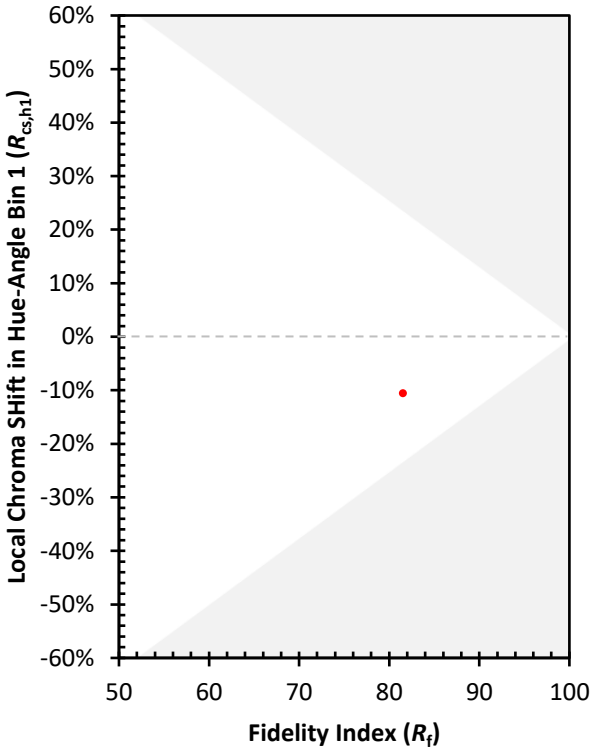
Measure Comparisons





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