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: P634014

Luminaire Tested: GWS-SA2F-830-U-SL2-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:	P634014
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7567.1 lumens
Efficiency:	N/A
Efficacy:	60.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	124.5
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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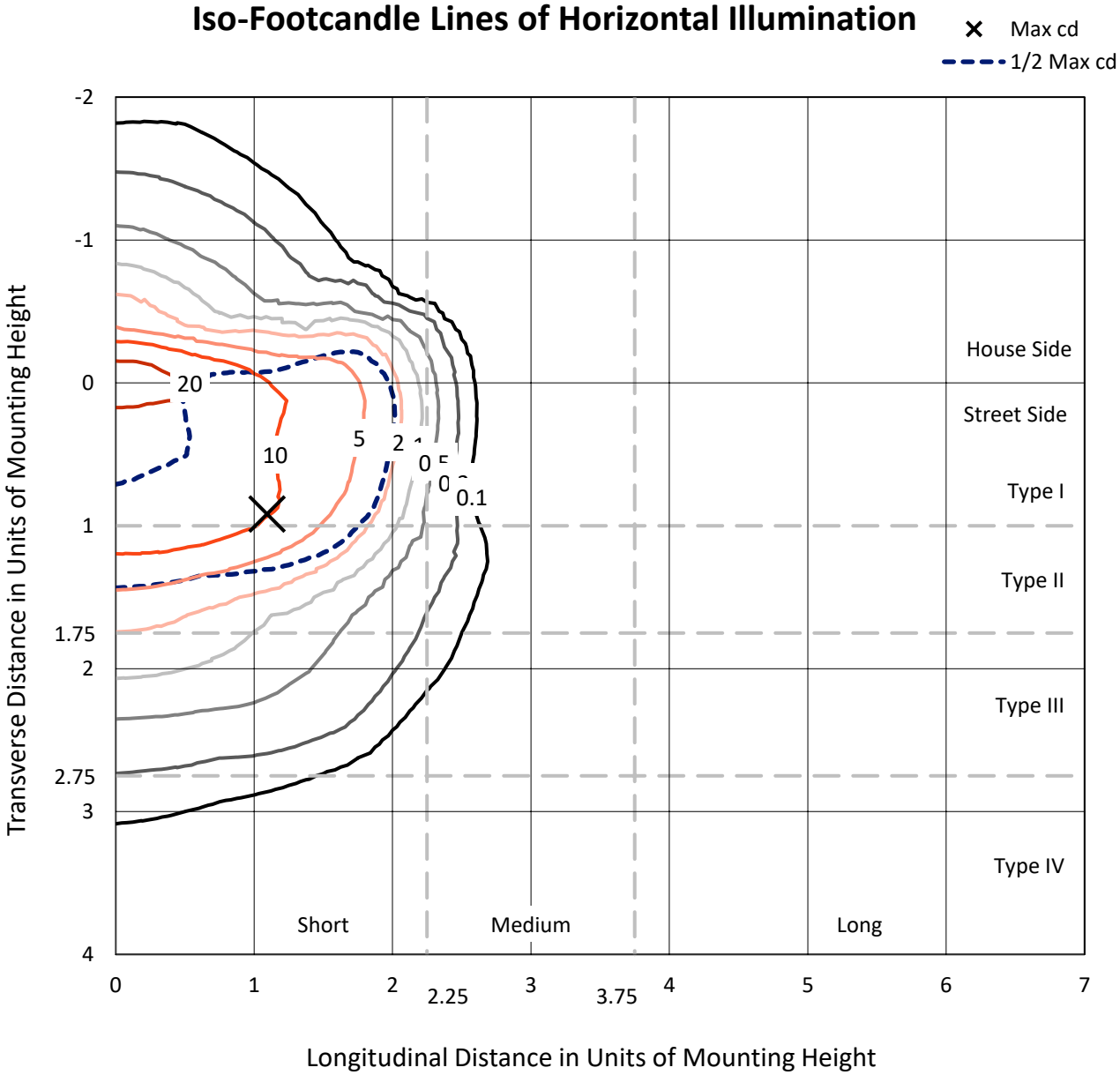
REPORT NUMBER: P634014
CATALOG NUMBER: GWS-SA2F-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 26.6 fc
Type II - Short - N/A

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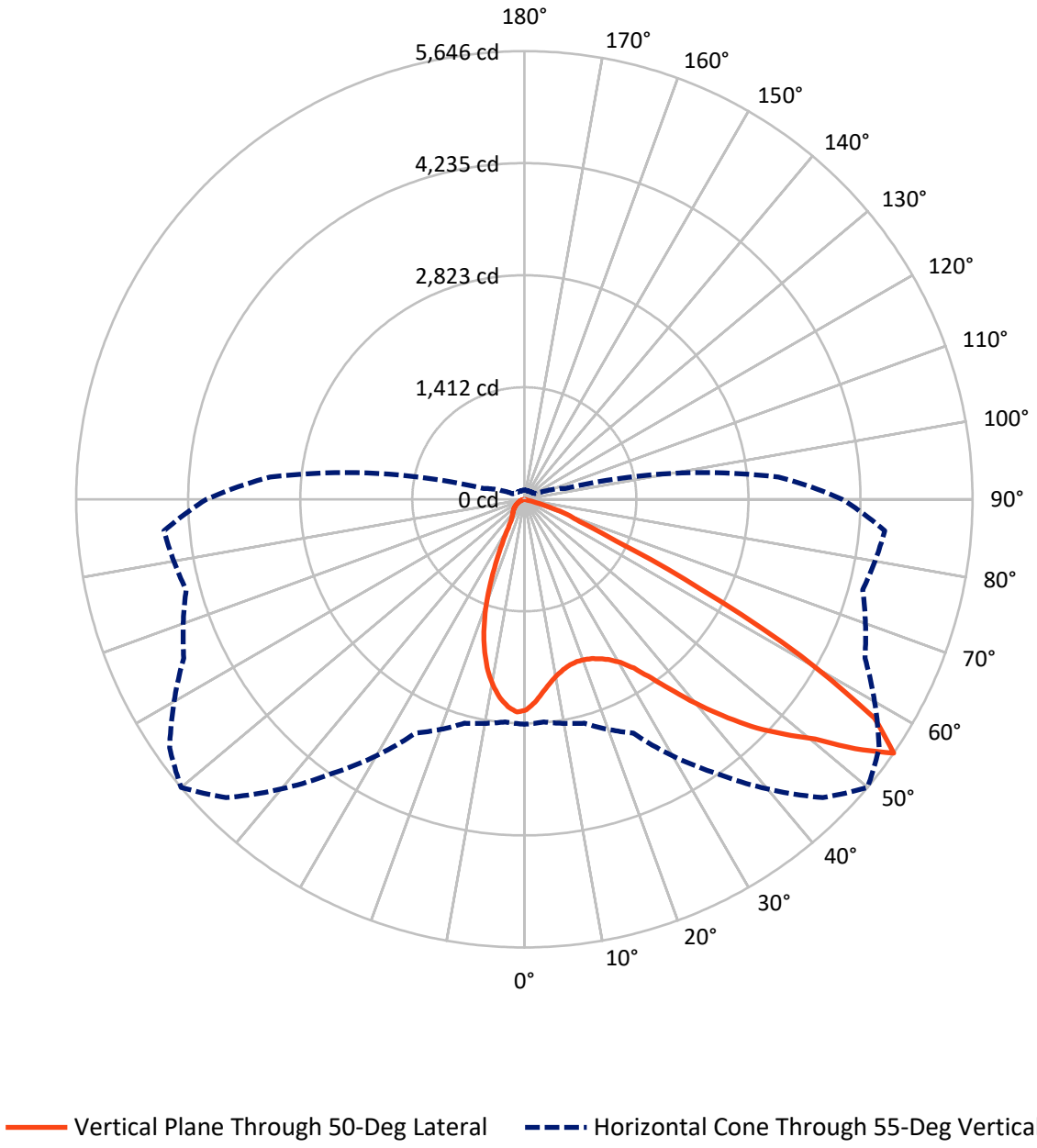
Luminous Intensity Polar Plot



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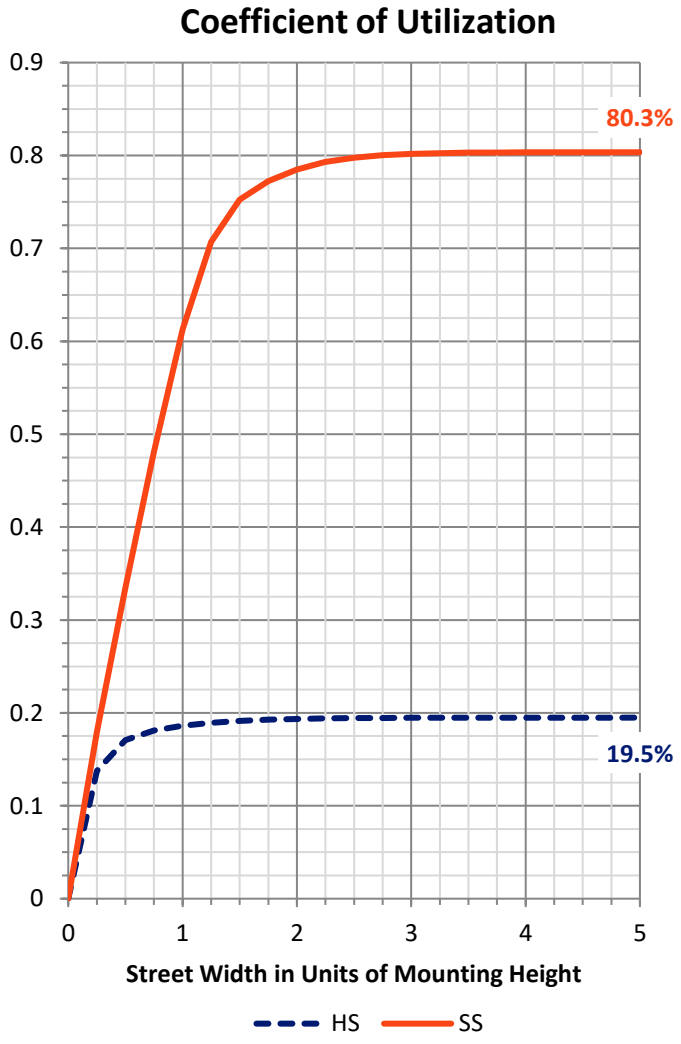
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.1	0.0	1491.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	6076.0	0.0	6076.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	7567.1	0.0	7567.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	3.1
10°-20°	573.8	7.6
20°-30°	809.3	10.7
30°-40°	1197.6	15.8
40°-50°	1727.8	22.8
50°-60°	2038.1	26.9
60°-70°	909.1	12.0
70°-80°	78.2	1.0
80°-90°	0.0	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°	7567.1	100.0
0°-180°	7567.1	100.0



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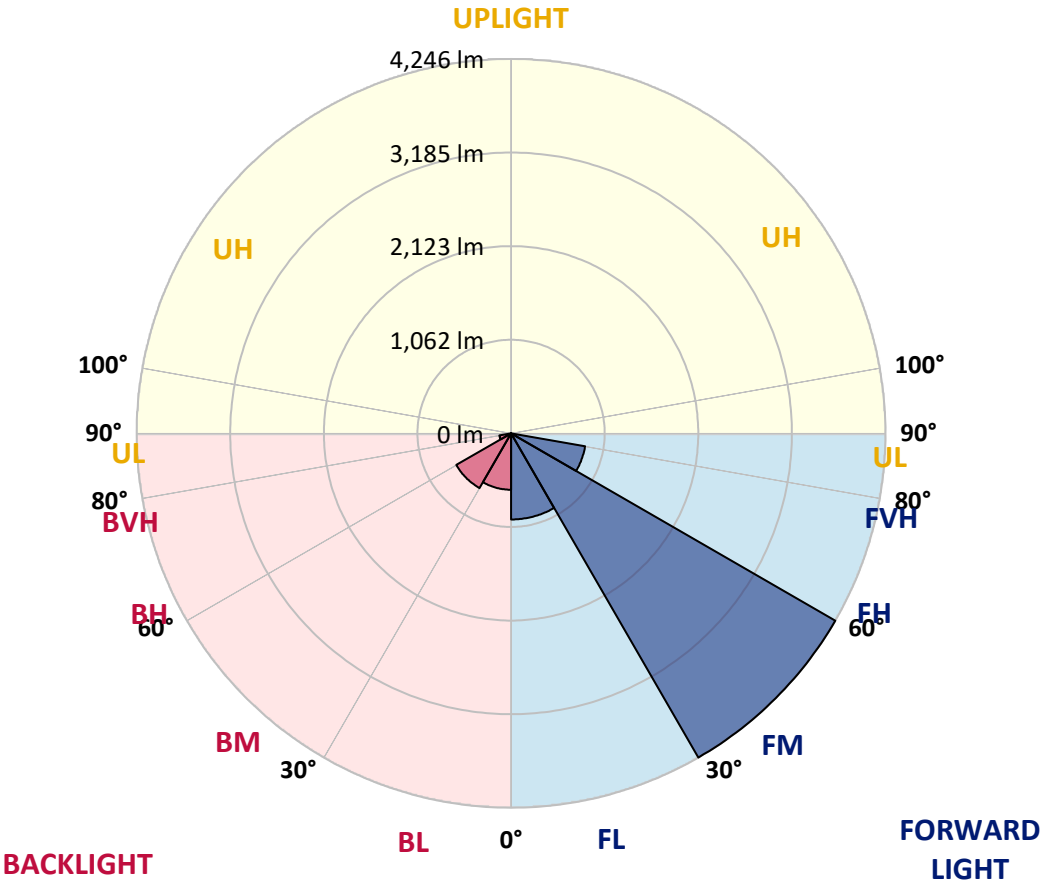
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	976.9	12.9			
FM	(30°-60°)	4246.4	56.1			
FH	(60°-80°)	852.7	11.3			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	639.3	8.4	B2/1000		
BM	(30°-60°)	717.1	9.5	B1/1000		
BH	(60°-80°)	134.6	1.8	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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REPORT NUMBER: P634014
CATALOG NUMBER: GWS-SA2F-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0
2.5°	2466.5	2468.4	2469.3	2494.2	2503.5	2540.4	2559.8	2570.0	2596.8	2628.2	2654.0
5°	2301.1	2298.4	2303.0	2334.4	2354.7	2409.2	2438.8	2459.1	2518.2	2592.1	2654.0
7.5°	2157.0	2162.6	2168.1	2202.3	2232.8	2291.9	2334.4	2364.9	2447.1	2557.0	2661.4
10°	2055.4	2055.4	2063.7	2102.5	2138.6	2211.5	2254.0	2292.8	2390.8	2525.6	2669.7
12.5°	1980.6	1981.5	1991.7	2036.0	2077.6	2153.3	2197.7	2235.6	2343.6	2494.2	2671.6
15°	1945.5	1942.7	1951.0	1998.1	2044.3	2115.5	2161.7	2198.6	2310.4	2476.7	2680.8
17.5°	1936.3	1934.4	1940.9	1987.1	2034.2	2103.5	2148.7	2185.7	2305.8	2482.2	2708.5
20°	1963.0	1959.3	1956.6	1996.3	2040.6	2109.0	2156.1	2197.7	2327.9	2512.7	2751.0
22.5°	2026.8	2026.8	2020.3	2039.7	2069.3	2131.2	2180.1	2234.6	2386.1	2573.7	2813.9
25°	2144.1	2134.9	2122.9	2131.2	2127.5	2166.3	2224.5	2300.2	2496.1	2674.4	2890.5
27.5°	2278.1	2286.4	2266.0	2267.0	2234.6	2220.8	2288.2	2402.8	2659.6	2816.6	3004.2
30°	2460.0	2453.6	2454.5	2451.7	2376.9	2311.3	2384.3	2536.7	2865.6	3033.7	3152.0
32.5°	2602.3	2611.5	2642.0	2659.6	2561.7	2456.3	2533.9	2718.7	3100.2	3281.3	3333.0
35°	2752.9	2769.5	2831.4	2888.7	2806.5	2685.4	2768.6	2959.8	3321.0	3526.1	3540.9
37.5°	2911.8	2945.0	3018.9	3119.6	3106.7	2999.5	3075.3	3243.4	3494.7	3673.9	3712.7
40°	3093.8	3126.1	3247.1	3392.1	3422.6	3398.6	3423.5	3521.5	3609.2	3680.4	3786.6
42.5°	3293.3	3337.6	3491.0	3685.0	3799.5	3820.8	3762.6	3752.4	3659.1	3606.5	3770.9
45°	3528.9	3580.6	3754.3	4005.5	4187.5	4216.2	4115.5	3985.2	3690.5	3552.0	3723.8
47.5°	3793.1	3842.0	4014.8	4316.8	4587.5	4598.6	4423.1	4213.4	3783.8	3614.8	3759.8
50°	3881.7	3912.2	4061.9	4416.6	4915.5	5000.5	4746.4	4470.2	3971.4	3799.5	3935.3
52.5°	3576.9	3588.9	3719.2	4077.6	4848.9	5394.9	5218.5	4853.6	4304.8	4081.3	4206.0
55°	2834.2	2814.8	2920.1	3249.0	4214.3	5314.5	5646.2	5455.9	4734.4	4412.0	4558.0
57.5°	1982.4	1959.3	1935.3	2158.0	3144.6	4505.3	5202.8	5539.9	5143.6	4739.9	4937.6
60°	1629.6	1607.4	1491.0	1388.4	1901.2	3235.1	3996.3	4630.9	5110.4	4723.3	4925.6
62.5°	1407.8	1394.9	1347.8	1208.3	1118.7	1846.6	2502.5	3110.4	3921.5	3709.0	3720.1
65°	1105.8	1102.1	1134.4	1149.2	989.4	1021.7	1276.7	1616.6	2120.1	1999.1	1895.6
67.5°	755.7	747.3	808.3	994.0	951.5	806.5	747.3	753.8	917.3	560.7	445.3
70°	480.4	461.0	461.9	616.2	774.1	636.5	576.4	507.2	456.4	83.1	94.2
72.5°	307.6	295.6	254.0	278.1	358.4	310.4	313.2	269.7	180.1	44.3	51.7
75°	129.3	119.2	91.5	73.0	72.1	45.3	39.7	37.0	24.9	24.9	26.8
77.5°	0.9	0.0	0.0	0.9	1.8	0.9	0.9	1.8	3.7	5.5	6.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0
2.5°	2669.7	2647.6	2672.5	2681.7	2680.8	2681.7	2655.0	2636.5	2635.6	2612.5	2601.4
5°	2679.9	2662.3	2680.8	2668.8	2640.2	2604.2	2556.1	2514.5	2496.1	2469.3	2456.3
7.5°	2699.3	2680.8	2678.1	2630.0	2558.9	2483.1	2398.1	2322.4	2281.8	2232.8	2235.6
10°	2713.2	2691.9	2655.9	2558.0	2439.7	2318.7	2192.1	2079.4	2008.3	1942.7	1931.6
12.5°	2718.7	2687.3	2603.2	2455.4	2289.1	2131.2	1945.5	1784.8	1673.9	1588.0	1576.0
15°	2728.9	2678.1	2535.8	2331.6	2103.5	1879.9	1643.4	1423.6	1276.7	1177.8	1186.1
17.5°	2744.6	2667.9	2460.0	2193.1	1903.9	1588.0	1268.4	1016.2	881.3	824.0	824.9
20°	2766.7	2655.9	2376.9	2040.6	1664.7	1258.2	886.8	696.5	658.7	656.8	654.0
22.5°	2796.3	2643.9	2288.2	1873.4	1381.1	881.3	590.3	531.2	546.9	577.4	582.9
25°	2831.4	2629.1	2189.4	1685.0	1071.6	578.3	442.5	433.3	471.1	511.8	521.0
27.5°	2885.9	2621.7	2076.7	1470.7	752.0	414.8	362.1	367.7	401.8	436.0	444.3
30°	2978.3	2635.6	1953.8	1230.5	483.1	330.7	314.1	322.4	340.9	358.4	365.8
32.5°	3103.9	2676.2	1834.6	968.1	344.6	287.3	283.6	288.2	295.6	305.8	308.5
35°	3250.8	2746.4	1711.8	692.8	284.5	262.4	258.7	258.7	262.4	264.2	265.1
37.5°	3371.8	2820.3	1596.3	461.0	255.0	243.0	237.4	234.6	233.7	235.6	236.5
40°	3424.5	2850.8	1470.7	335.3	233.7	225.4	217.1	208.8	208.8	215.2	216.2
42.5°	3387.5	2816.6	1325.6	277.1	218.9	206.9	194.0	186.6	190.3	196.8	198.6
45°	3309.0	2732.6	1165.8	244.8	204.2	188.5	173.7	169.1	172.7	181.1	182.9
47.5°	3296.1	2677.1	974.6	223.6	188.5	172.7	157.0	152.4	157.0	163.5	165.4
50°	3424.5	2725.2	762.1	205.1	173.7	156.1	143.2	138.6	141.3	145.0	146.9
52.5°	3659.1	2903.5	615.2	187.5	156.1	139.5	131.2	125.6	125.6	129.3	130.3
55°	*4005.5*	*3214.8*	*531.2*	*167.2*	*135.8*	*126.6*	*119.2*	*113.6*	*113.6*	*115.5*	*116.4*
57.5°	4404.6	3591.7	550.6	140.4	119.2	114.5	108.1	103.5	105.3	105.3	105.3
60°	4349.2	3564.0	589.4	118.2	105.3	103.5	97.9	96.1	100.7	97.0	95.1
62.5°	3203.7	2461.9	308.5	97.0	90.5	88.7	85.0	88.7	95.1	85.0	81.3
65°	1555.7	1191.7	123.8	79.4	76.7	74.8	73.0	78.5	82.2	66.5	62.8
67.5°	365.8	297.5	80.4	67.4	63.7	60.0	61.9	62.8	60.0	45.3	43.4
70°	95.1	93.3	62.8	56.4	50.8	47.1	47.1	46.2	39.7	28.6	26.8
72.5°	51.7	50.8	45.3	42.5	35.1	31.4	32.3	28.6	22.2	16.6	15.7
75°	25.9	27.7	25.9	24.0	19.4	17.6	17.6	15.7	11.1	6.5	6.5
77.5°	5.5	6.5	6.5	5.5	4.6	3.7	3.7	4.6	1.8	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	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

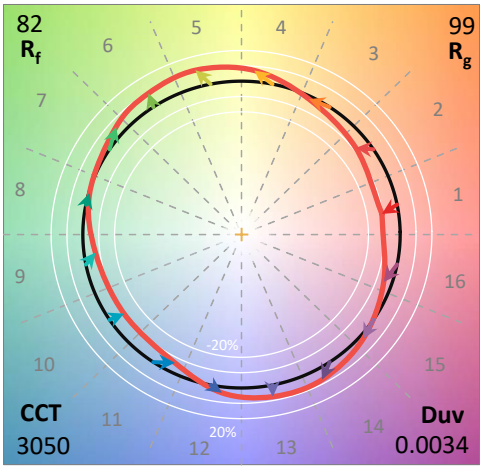
Test Information

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

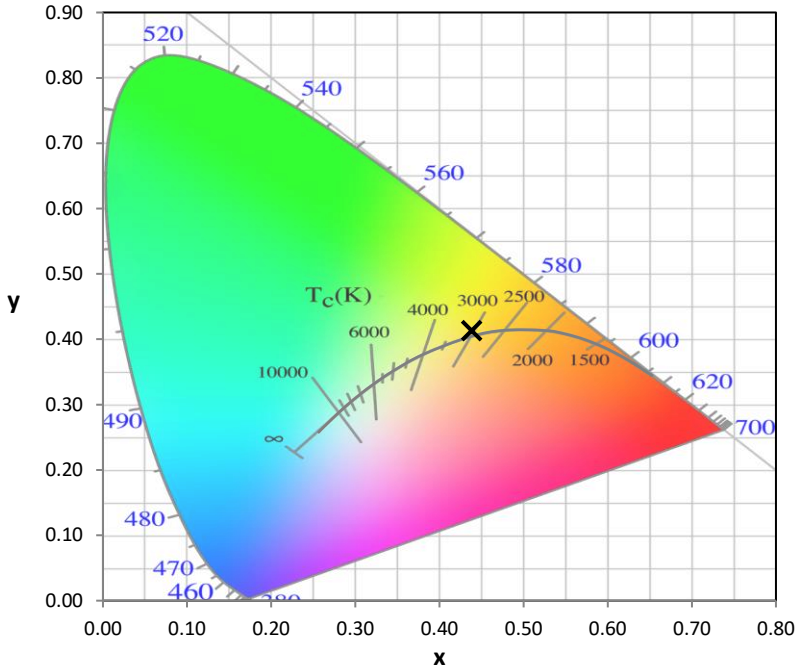
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

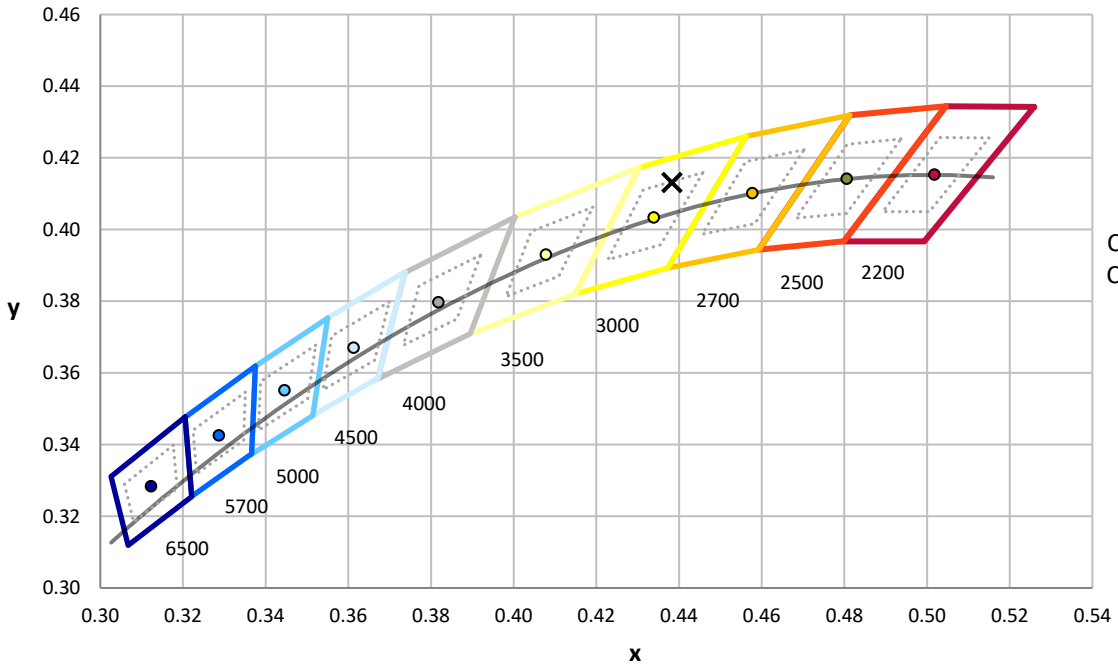
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

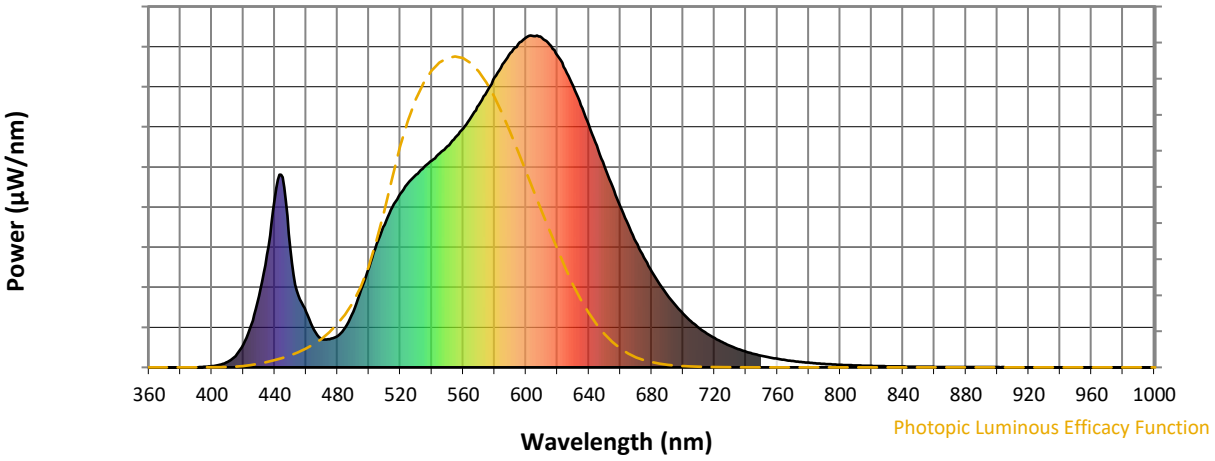


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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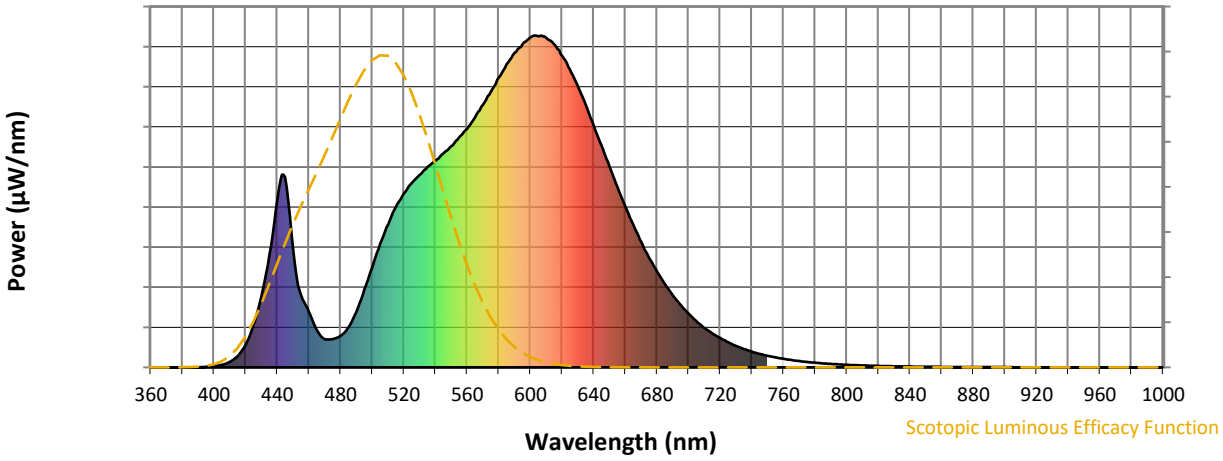
Scotopic Flux vs. Wavelength



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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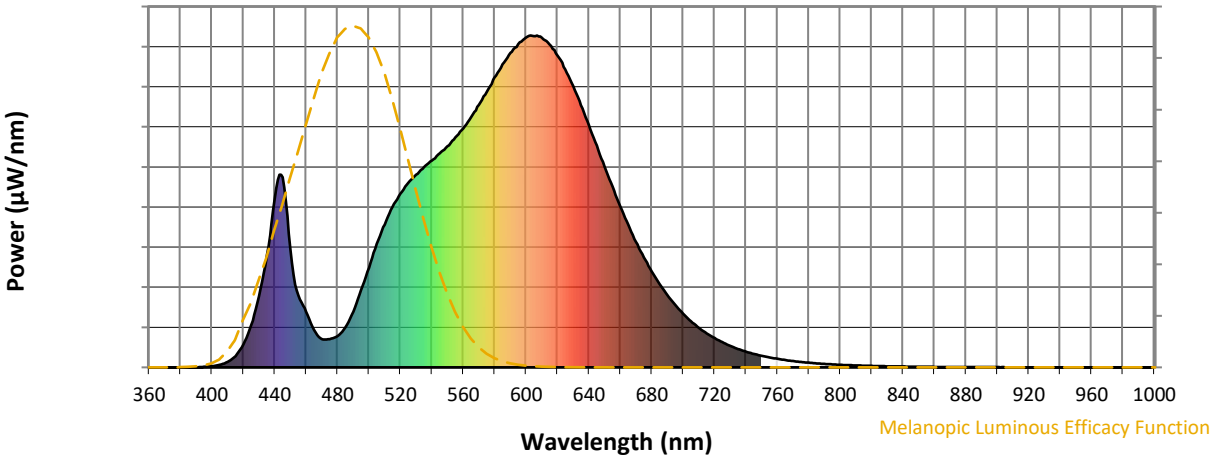
Melanopic Flux vs. Wavelength



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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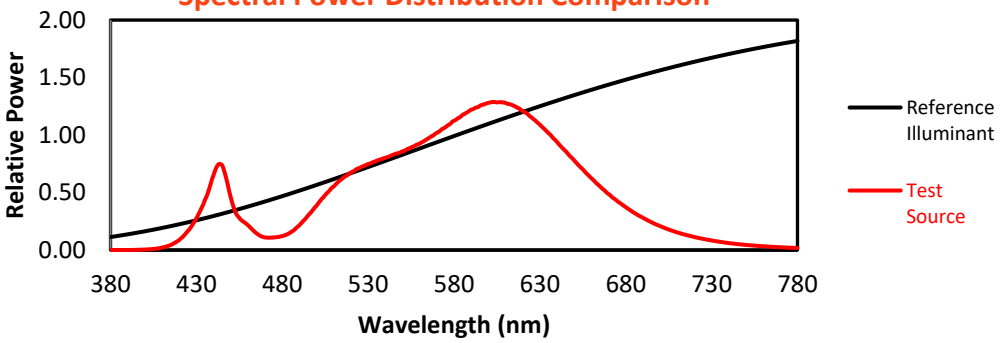
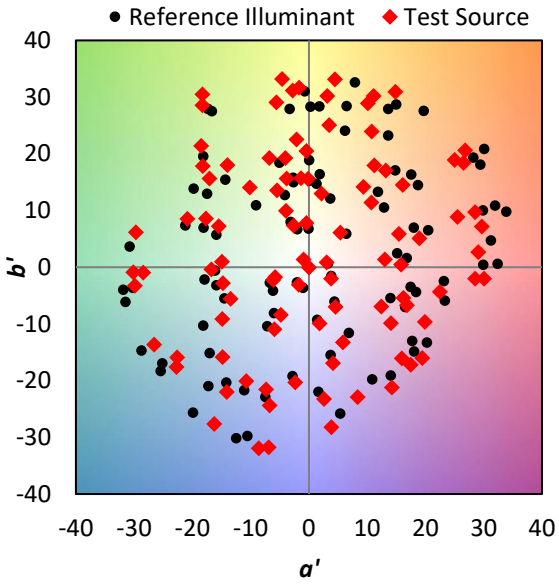
Summary

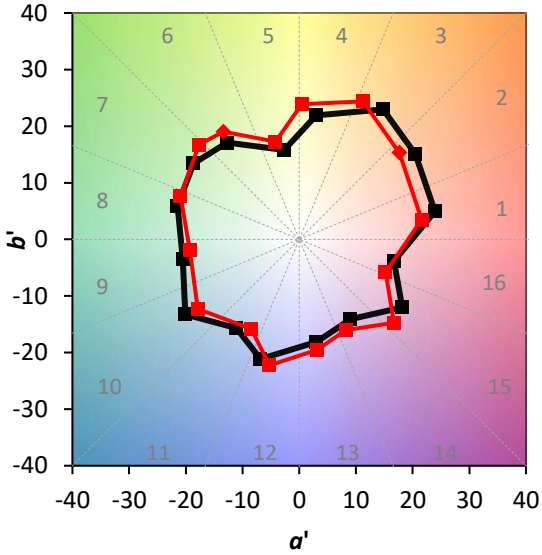
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

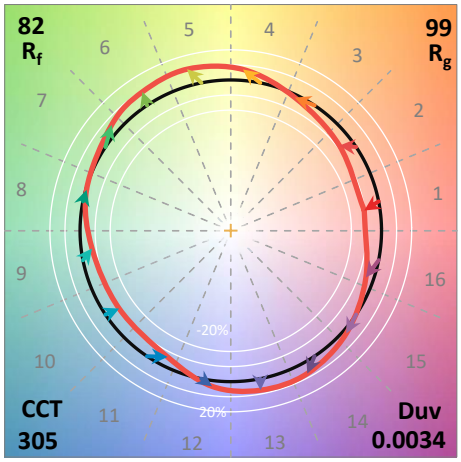
Spectral Power Distribution Comparison

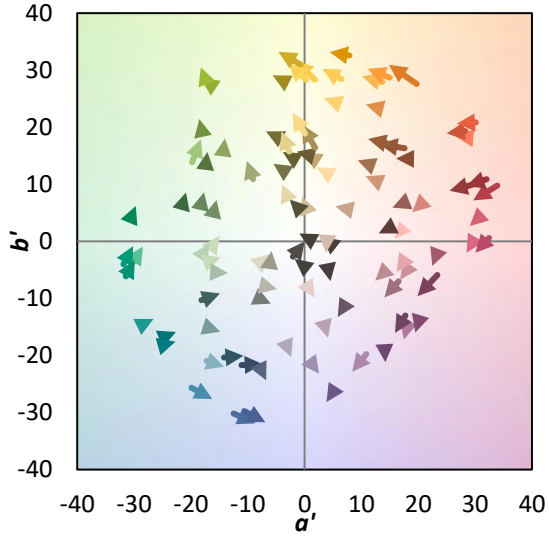


Color Vector Graphics









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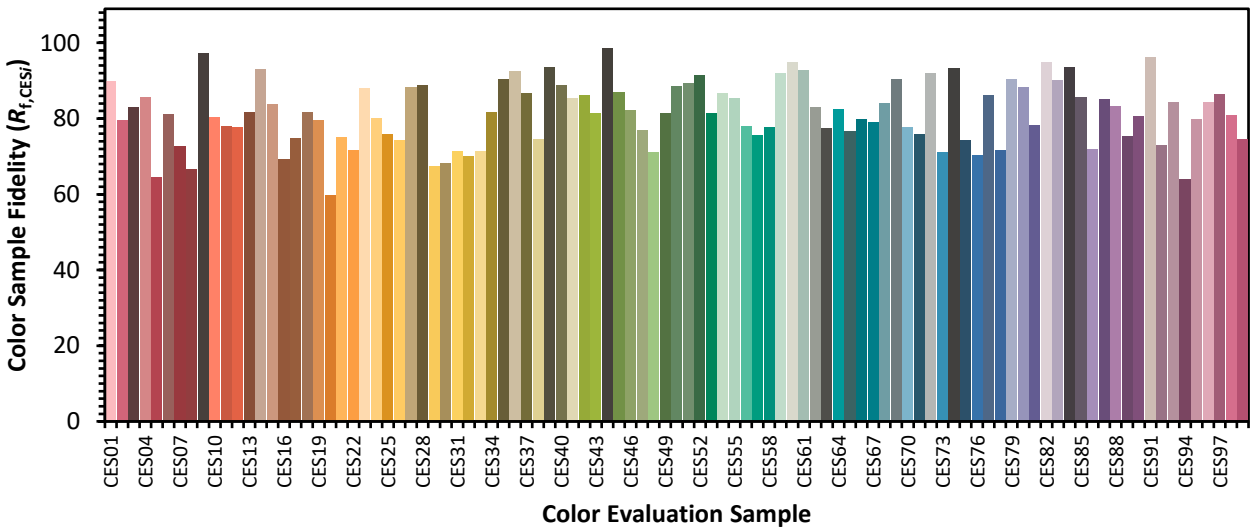
Individual Sample Fidelity Index ($R_{f,i}$)

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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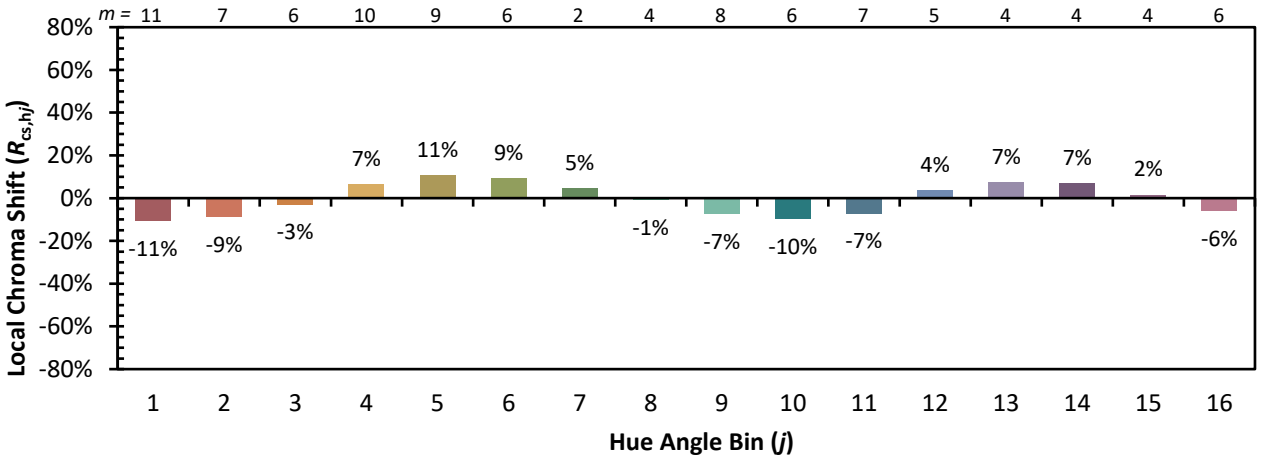
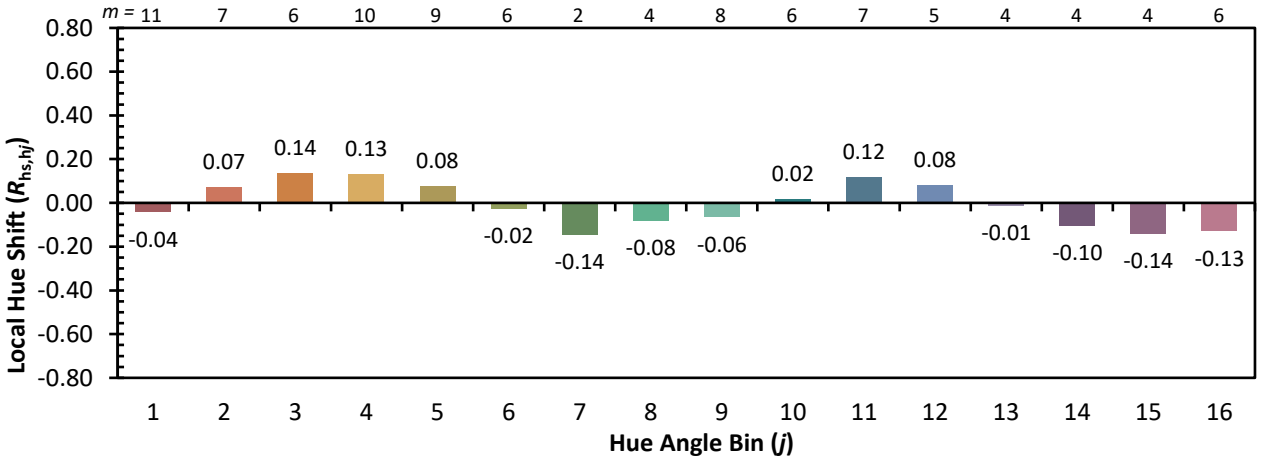
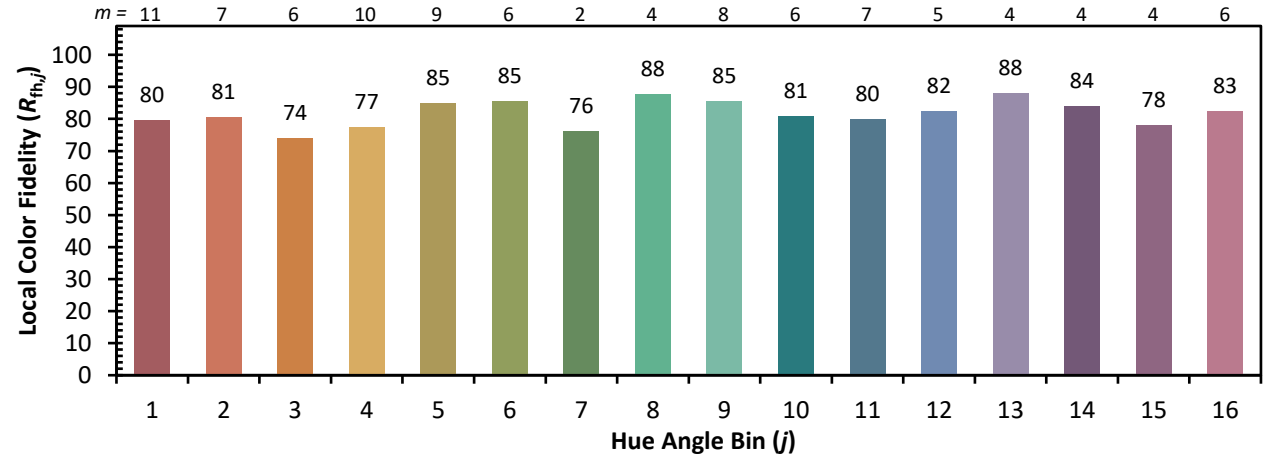
Color Rendition by Hue-Angle Bin







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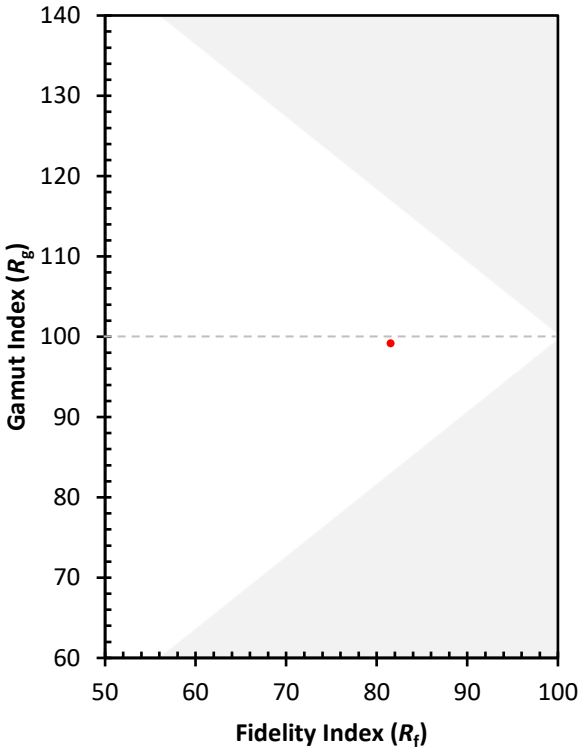
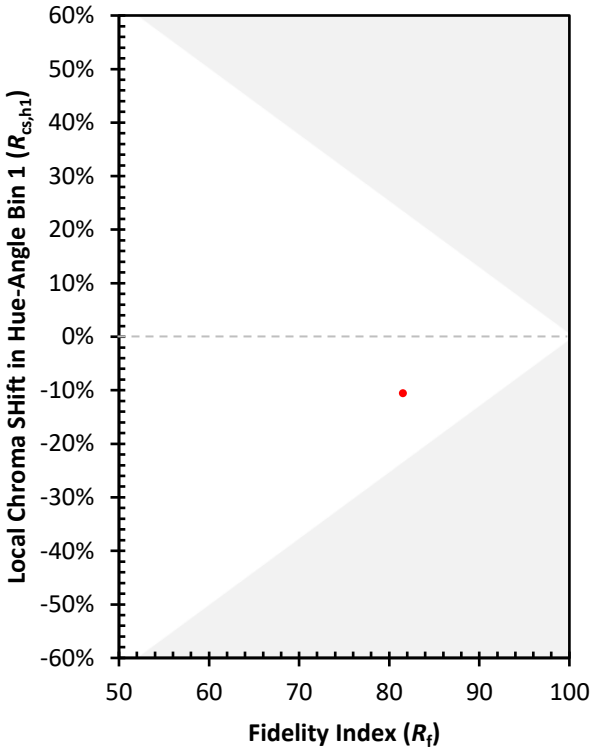
Measure Comparisons





(END OF REPORT)