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: P633519

Luminaire Tested: GWS-SA2E-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:	P633519
	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-SA2E-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:	6806.1 lumens
Efficiency:	N/A
Efficacy:	62.9 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):	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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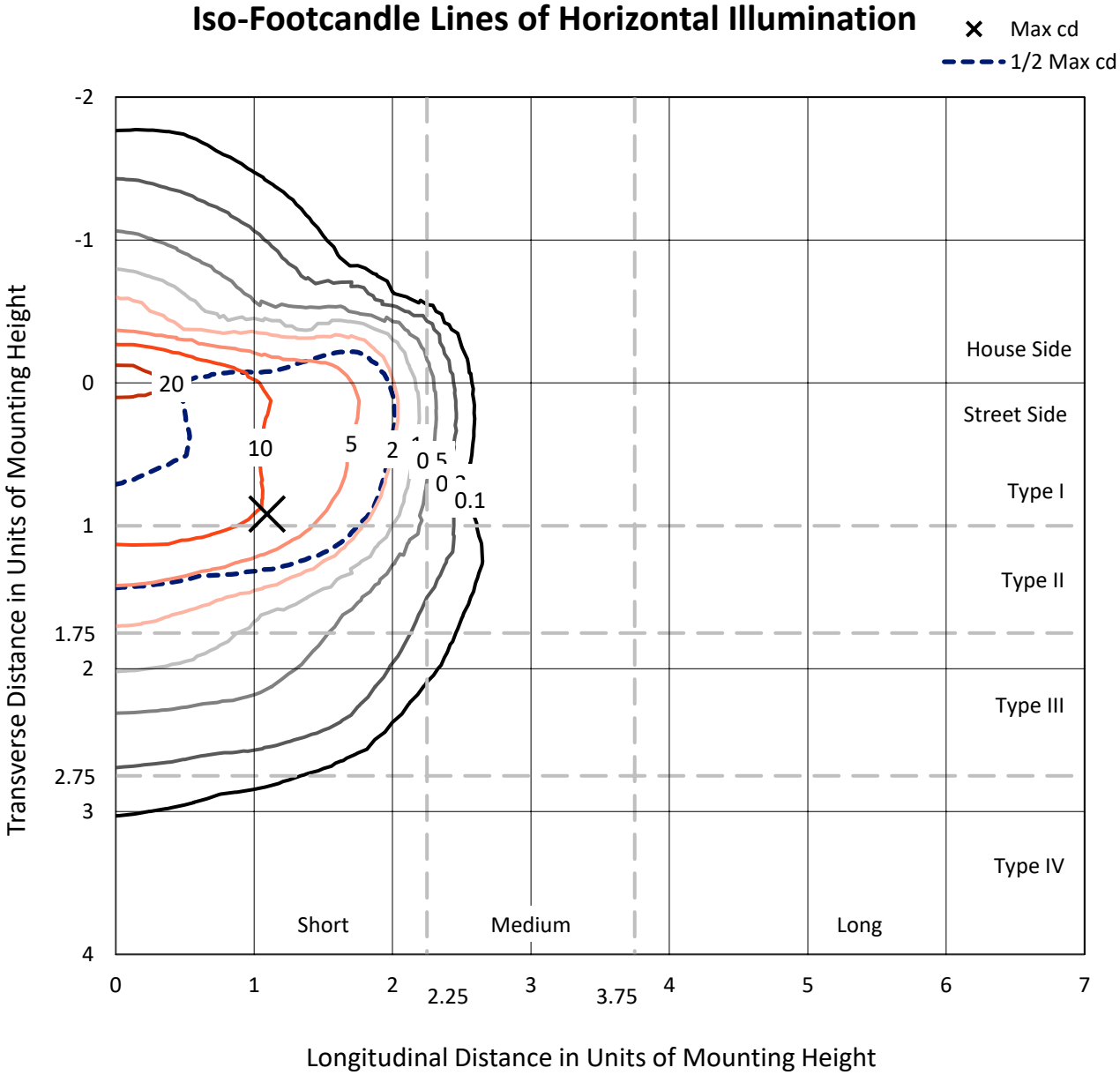
REPORT NUMBER: P633519
CATALOG NUMBER: GWS-SA2E-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
Type II - Short - N/A

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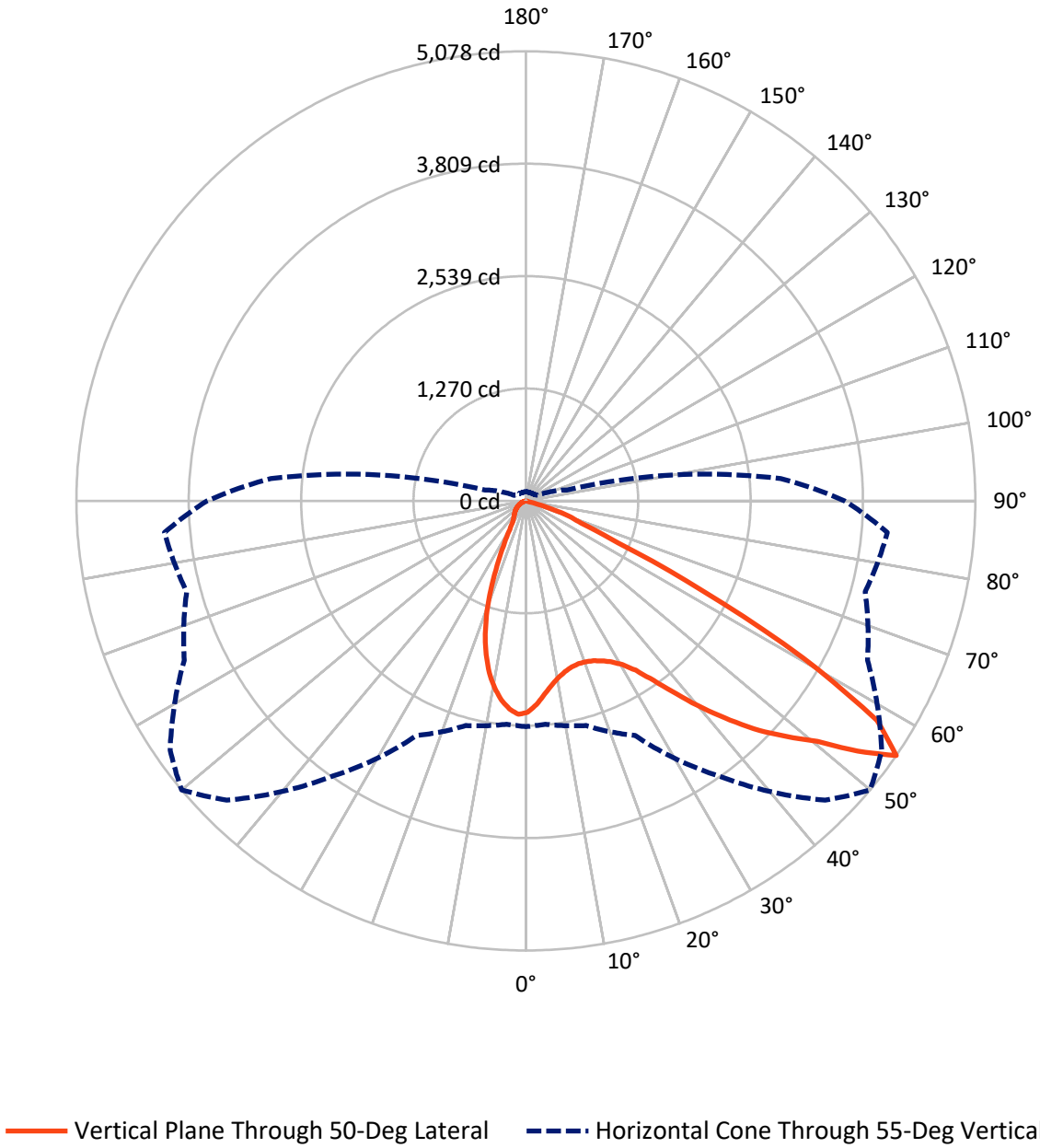
Luminous Intensity Polar Plot



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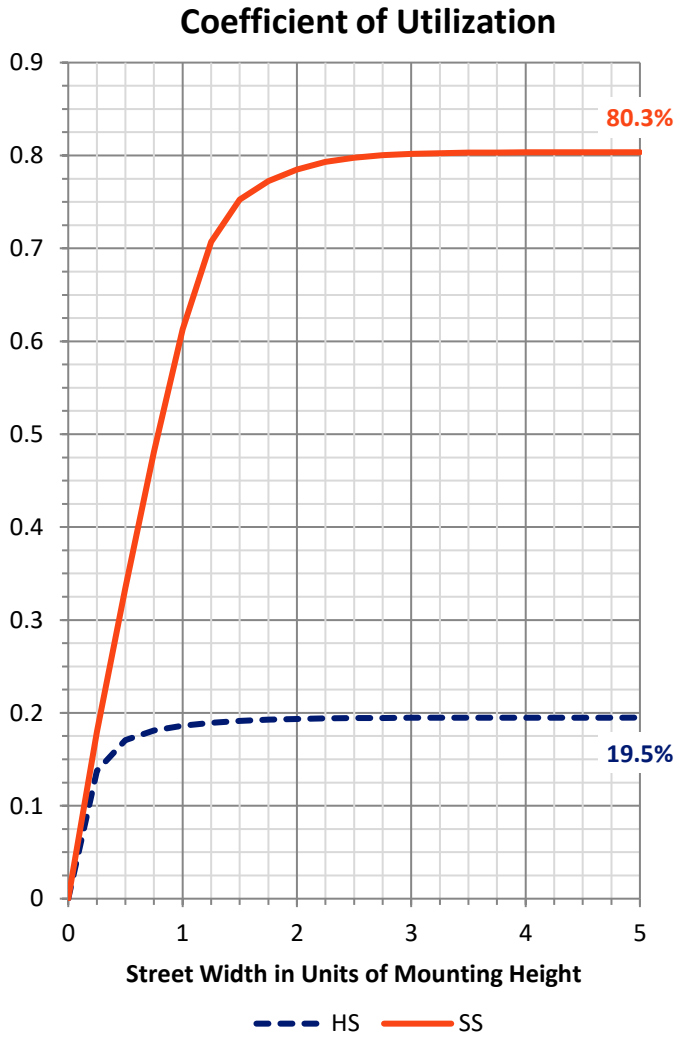
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.1	0.0	1341.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	5465.0	0.0	5465.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	6806.1	0.0	6806.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	3.1
10°-20°	516.1	7.6
20°-30°	727.9	10.7
30°-40°	1077.2	15.8
40°-50°	1554.0	22.8
50°-60°	1833.1	26.9
60°-70°	817.7	12.0
70°-80°	70.3	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°	6806.1	100.0
0°-180°	6806.1	100.0



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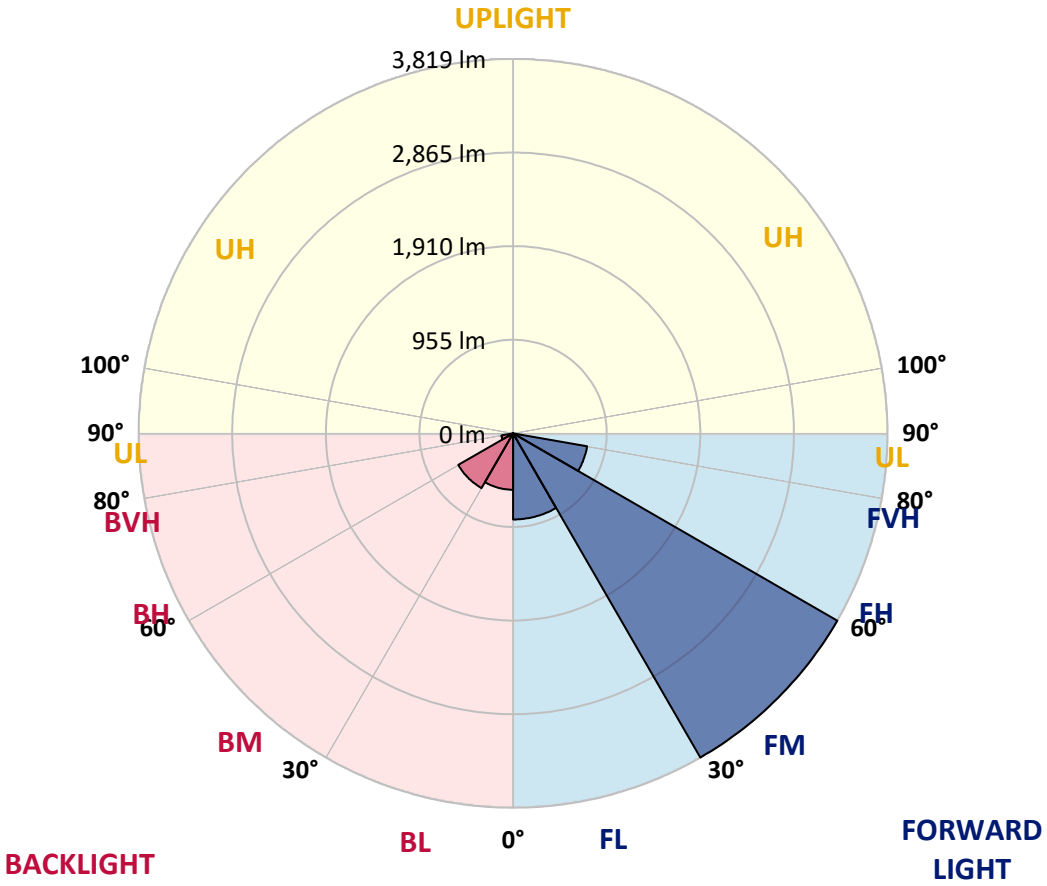
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	878.7	12.9			
FM	(30°-60°)	3819.4	56.1			
FH	(60°-80°)	766.9	11.3			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	575.0	8.4	B2/1000		
BM	(30°-60°)	645.0	9.5	B1/1000		
BH	(60°-80°)	121.1	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: P633519
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0
2.5°	2218.5	2220.1	2221.0	2243.4	2251.7	2284.9	2302.4	2311.5	2335.6	2363.9	2387.1
5°	2069.7	2067.2	2071.4	2099.6	2117.9	2166.9	2193.5	2211.8	2265.0	2331.5	2387.1
7.5°	1940.1	1945.1	1950.1	1980.8	2008.2	2061.4	2099.6	2127.1	2201.0	2299.9	2393.8
10°	1848.7	1848.7	1856.2	1891.1	1923.5	1989.1	2027.4	2062.3	2150.3	2271.6	2401.3
12.5°	1781.4	1782.2	1791.4	1831.3	1868.7	1936.8	1976.7	2010.7	2108.0	2243.4	2402.9
15°	1749.8	1747.3	1754.8	1797.2	1838.7	1902.7	1944.3	1977.5	2078.0	2227.6	2411.2
17.5°	1741.5	1739.9	1745.7	1787.2	1829.6	1891.9	1932.6	1965.9	2073.9	2232.6	2436.1
20°	1765.6	1762.3	1759.8	1795.5	1835.4	1896.9	1939.3	1976.7	2093.8	2260.0	2474.4
22.5°	1823.0	1823.0	1817.1	1834.6	1861.2	1916.8	1960.9	2009.9	2146.2	2314.8	2530.9
25°	1928.5	1920.2	1909.4	1916.8	1913.5	1948.4	2000.8	2068.9	2245.0	2405.4	2599.8
27.5°	2049.0	2056.4	2038.2	2039.0	2009.9	1997.4	2058.1	2161.1	2392.1	2533.4	2702.0
30°	2212.6	2206.8	2207.7	2205.2	2137.9	2078.9	2144.5	2281.6	2577.4	2728.6	2835.0
32.5°	2340.6	2348.9	2376.3	2392.1	2304.0	2209.3	2279.1	2445.3	2788.4	2951.3	2997.8
35°	2476.0	2491.0	2546.7	2598.2	2524.2	2415.4	2490.2	2662.1	2987.0	3171.5	3184.8
37.5°	2618.9	2648.9	2715.3	2805.9	2794.3	2697.9	2766.0	2917.2	3143.2	3304.4	3339.3
40°	2782.6	2811.7	2920.6	3051.0	3078.4	3056.8	3079.3	3167.3	3246.3	3310.2	3405.8
42.5°	2962.1	3002.0	3139.9	3314.4	3417.4	3436.5	3384.2	3375.0	3291.1	3243.8	3391.7
45°	3174.0	3220.5	3376.7	3602.7	3766.4	3792.2	3701.6	3584.4	3319.4	3194.7	3349.3
47.5°	3411.6	3455.6	3611.0	3882.7	4126.2	4136.1	3978.3	3789.7	3403.3	3251.2	3381.7
50°	3491.4	3518.8	3653.4	3972.5	4421.1	4497.6	4269.1	4020.6	3572.0	3417.4	3539.6
52.5°	3217.2	3228.0	3345.1	3667.5	4361.3	4852.4	4693.7	4365.5	3871.9	3670.8	3783.0
55°	2549.1	2531.7	2626.4	2922.2	3790.5	4780.1	5078.4	4907.2	4258.3	3968.3	4099.6
57.5°	1783.1	1762.3	1740.7	1940.9	2828.3	4052.2	4679.5	4982.8	4626.4	4263.3	4441.1
60°	1465.7	1445.7	1341.0	1248.8	1710.0	2909.8	3594.4	4165.2	4596.4	4248.3	4430.3
62.5°	1266.3	1254.6	1212.3	1086.8	1006.2	1660.9	2250.9	2797.6	3527.1	3336.0	3346.0
65°	994.6	991.2	1020.3	1033.6	889.9	919.0	1148.3	1454.0	1906.9	1798.0	1705.0
67.5°	679.7	672.2	727.0	894.0	855.8	725.4	672.2	678.0	825.1	504.3	400.5
70°	432.1	414.6	415.4	554.2	696.3	572.5	518.5	456.2	410.5	74.8	84.8
72.5°	276.7	265.9	228.5	250.1	322.4	279.2	281.7	242.6	162.0	39.9	46.5
75°	116.3	107.2	82.3	65.6	64.8	40.7	35.7	33.2	22.4	22.4	24.1
77.5°	0.8	0.0	0.0	0.8	1.7	0.8	0.8	1.7	3.3	5.0	5.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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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CATALOG NUMBER: GWS-SA2E-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0	2388.0
2.5°	2401.3	2381.3	2403.7	2412.1	2411.2	2412.1	2388.0	2371.3	2370.5	2349.7	2339.8
5°	2410.4	2394.6	2411.2	2400.4	2374.7	2342.3	2299.1	2261.7	2245.0	2221.0	2209.3
7.5°	2427.8	2411.2	2408.7	2365.5	2301.5	2233.4	2157.0	2088.8	2052.3	2008.2	2010.7
10°	2440.3	2421.2	2388.8	2300.7	2194.4	2085.5	1971.7	1870.3	1806.3	1747.3	1737.4
12.5°	2445.3	2417.0	2341.4	2208.5	2058.9	1916.8	1749.8	1605.3	1505.6	1428.3	1417.5
15°	2454.4	2408.7	2280.8	2097.1	1891.9	1690.8	1478.1	1280.4	1148.3	1059.4	1066.9
17.5°	2468.6	2399.6	2212.6	1972.5	1712.5	1428.3	1140.8	914.0	792.7	741.1	742.0
20°	2488.5	2388.8	2137.9	1835.4	1497.3	1131.7	797.6	626.5	592.4	590.8	588.3
22.5°	2515.1	2378.0	2058.1	1685.0	1242.2	792.7	530.9	477.8	491.9	519.3	524.3
25°	2546.7	2364.7	1969.2	1515.5	963.8	520.1	398.0	389.7	423.8	460.3	468.6
27.5°	2595.7	2358.0	1867.8	1322.8	676.3	373.1	325.7	330.7	361.4	392.2	399.7
30°	2678.8	2370.5	1757.3	1106.7	434.6	297.5	282.5	290.0	306.6	322.4	329.0
32.5°	2791.8	2407.1	1650.1	870.8	309.9	258.4	255.1	259.2	265.9	275.0	277.5
35°	2923.9	2470.2	1539.6	623.2	255.9	236.0	232.6	232.6	236.0	237.6	238.5
37.5°	3032.7	2536.7	1435.8	414.6	229.3	218.5	213.5	211.0	210.2	211.9	212.7
40°	3080.1	2564.1	1322.8	301.6	210.2	202.7	195.3	187.8	187.8	193.6	194.4
42.5°	3046.8	2533.4	1192.3	249.3	196.9	186.1	174.5	167.8	171.2	177.0	178.6
45°	2976.2	2457.8	1048.6	220.2	183.6	169.5	156.2	152.1	155.4	162.9	164.5
47.5°	2964.6	2407.9	876.6	201.1	169.5	155.4	141.3	137.1	141.3	147.1	148.7
50°	3080.1	2451.1	685.5	184.5	156.2	140.4	128.8	124.6	127.1	130.4	132.1
52.5°	3291.1	2611.5	553.4	168.7	140.4	125.5	118.0	113.0	113.0	116.3	117.2
55°	*3602.7*	*2891.5*	*477.8*	*150.4*	*122.1*	*113.8*	*107.2*	*102.2*	*102.2*	*103.9*	*104.7*
57.5°	3961.7	3230.5	495.2	126.3	107.2	103.0	97.2	93.1	94.7	94.7	94.7
60°	3911.8	3205.5	530.1	106.4	94.7	93.1	88.1	86.4	90.6	87.2	85.6
62.5°	2881.5	2214.3	277.5	87.2	81.4	79.8	76.4	79.8	85.6	76.4	73.1
65°	1399.2	1071.8	111.3	71.5	69.0	67.3	65.6	70.6	73.9	59.8	56.5
67.5°	329.0	267.5	72.3	60.7	57.3	54.0	55.7	56.5	54.0	40.7	39.1
70°	85.6	83.9	56.5	50.7	45.7	42.4	42.4	41.5	35.7	25.8	24.1
72.5°	46.5	45.7	40.7	38.2	31.6	28.3	29.1	25.8	19.9	15.0	14.1
75°	23.3	24.9	23.3	21.6	17.4	15.8	15.8	14.1	10.0	5.8	5.8
77.5°	5.0	5.8	5.8	5.0	4.2	3.3	3.3	4.2	1.7	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	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

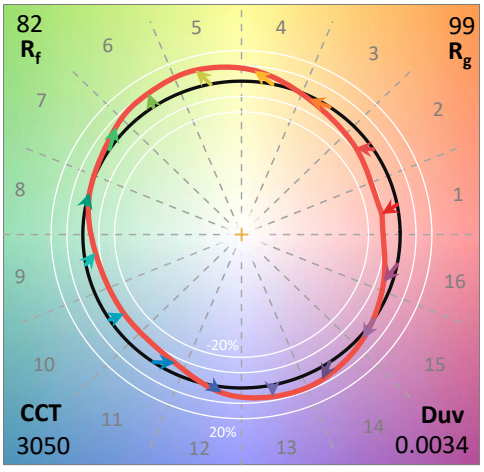
Test Information

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

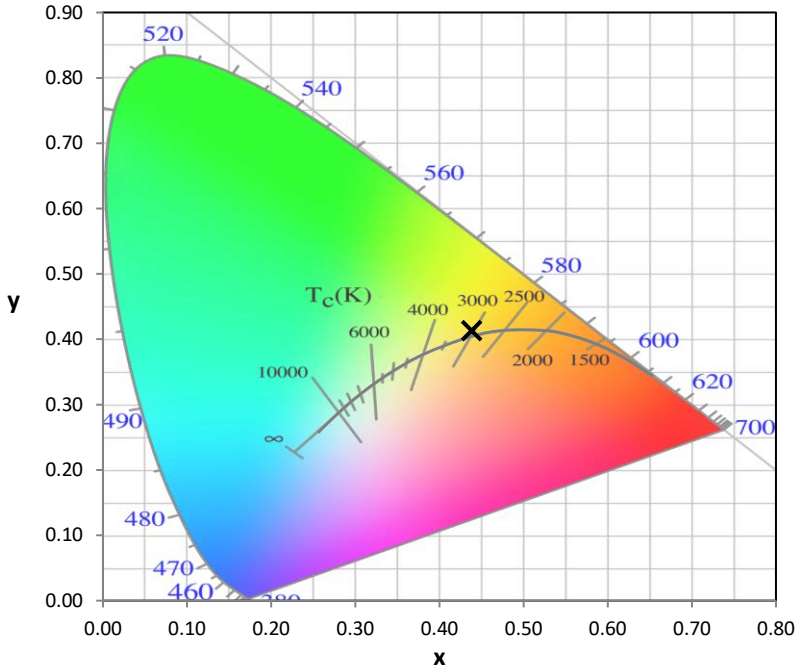
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

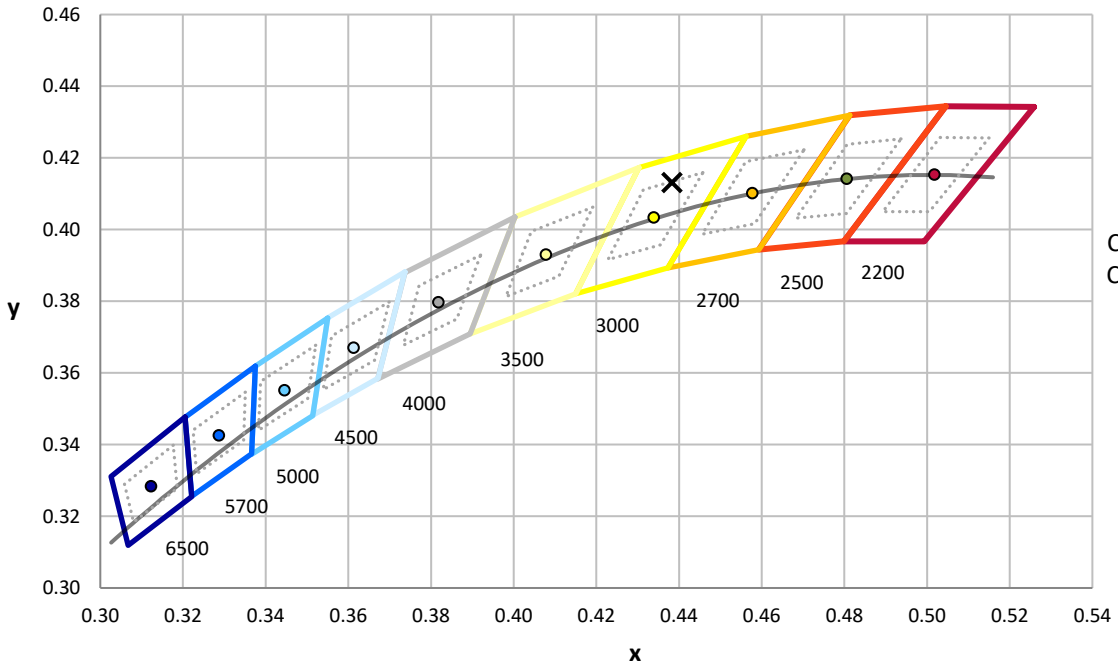
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

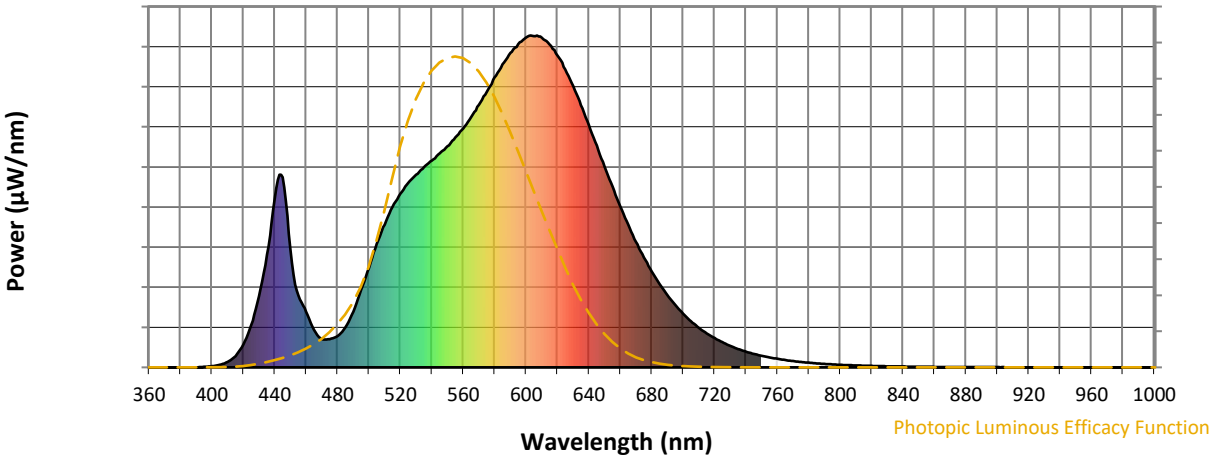


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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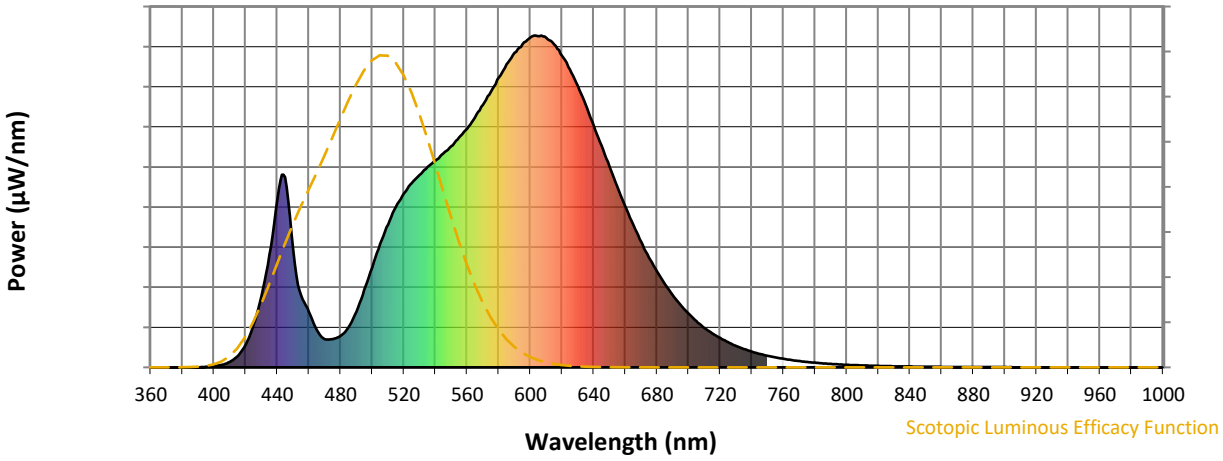
Scotopic Flux vs. Wavelength



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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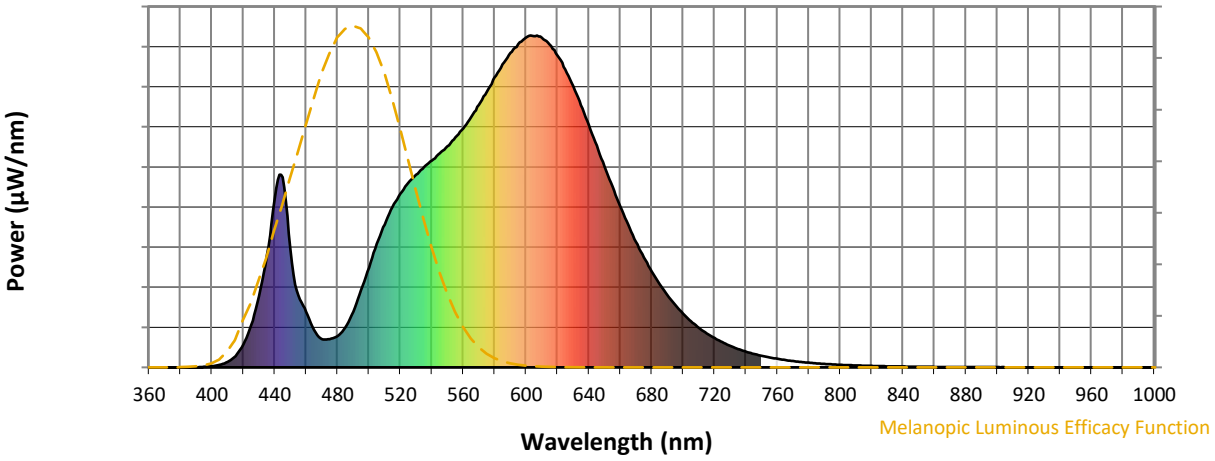
Melanopic Flux vs. Wavelength



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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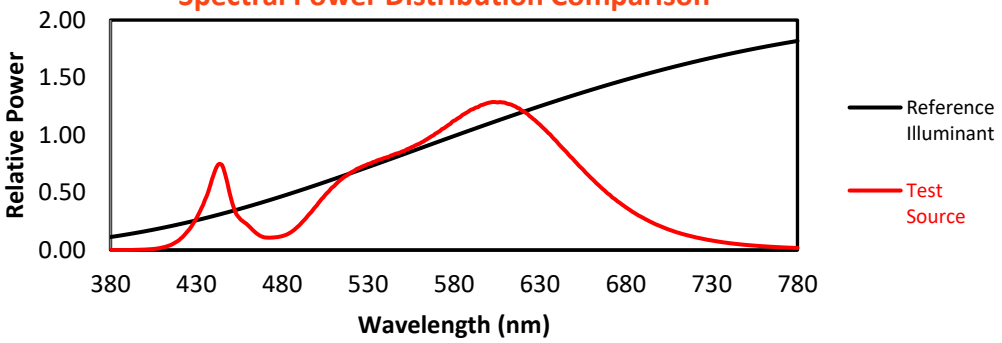
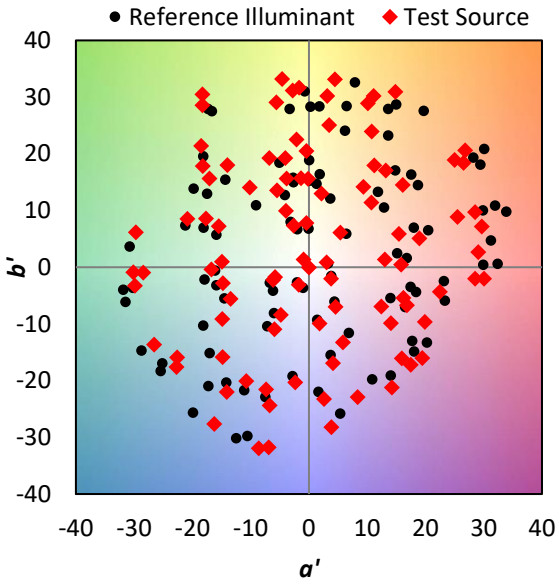
Summary

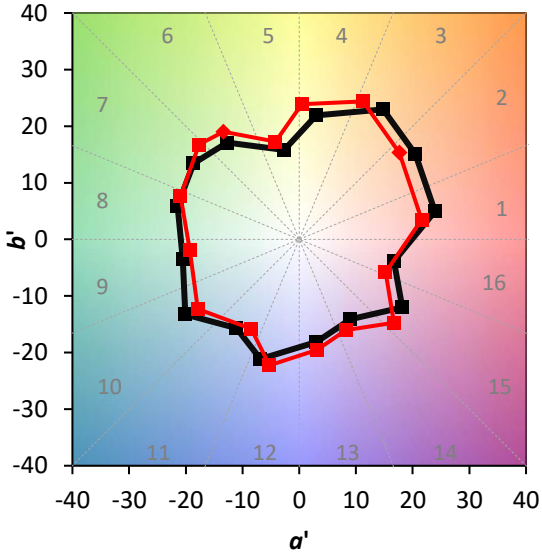
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

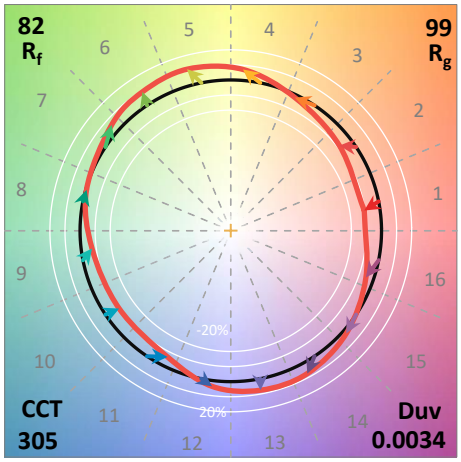
Spectral Power Distribution Comparison

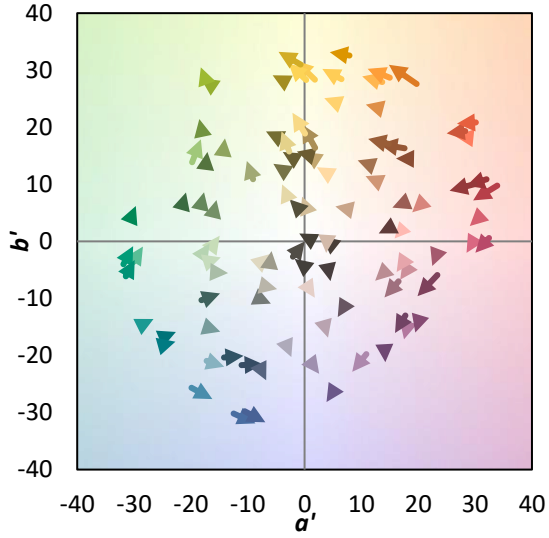


Color Vector Graphics









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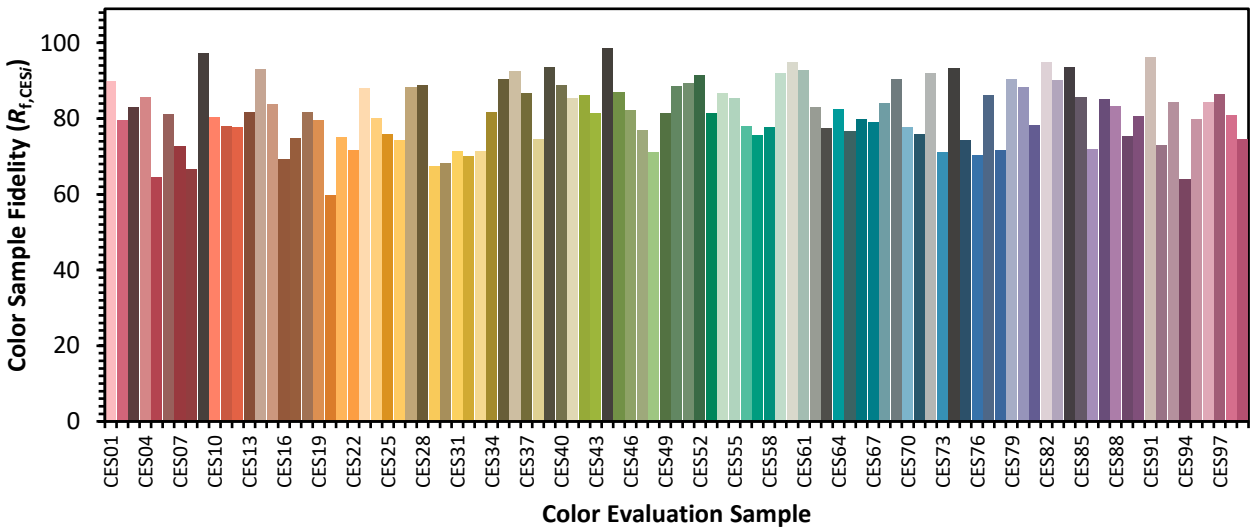
Individual Sample Fidelity Index ($R_{f,i}$)

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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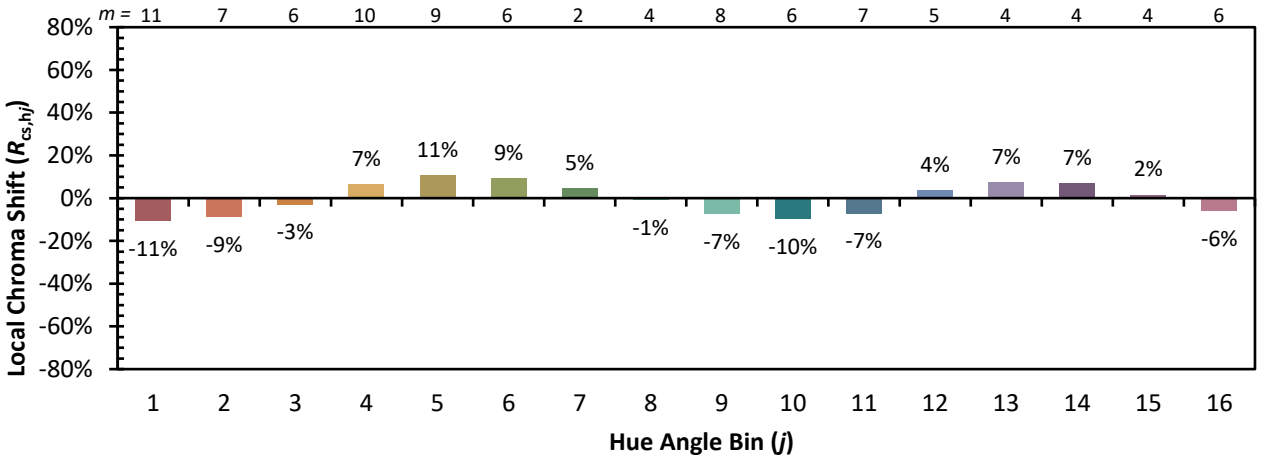
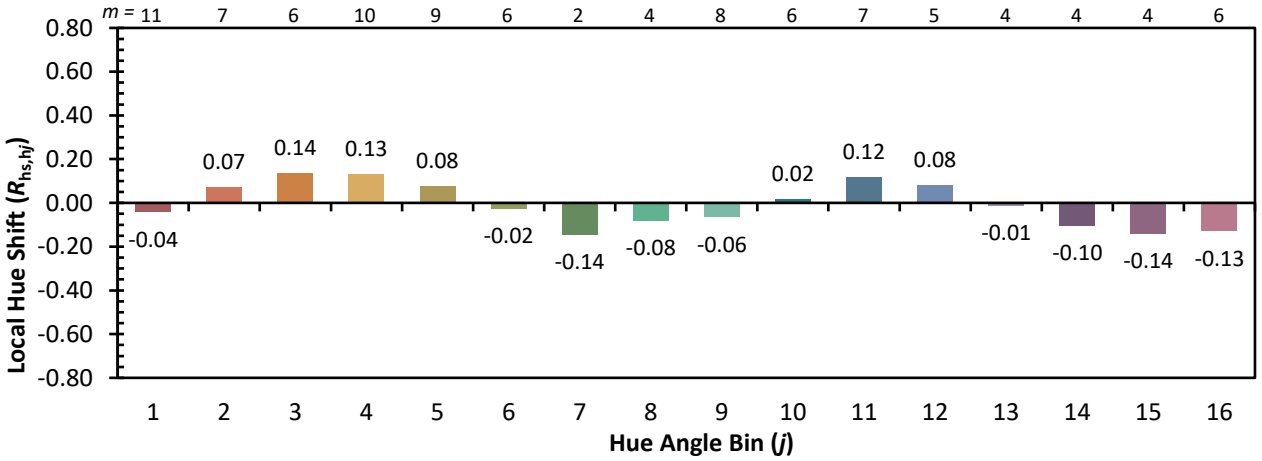
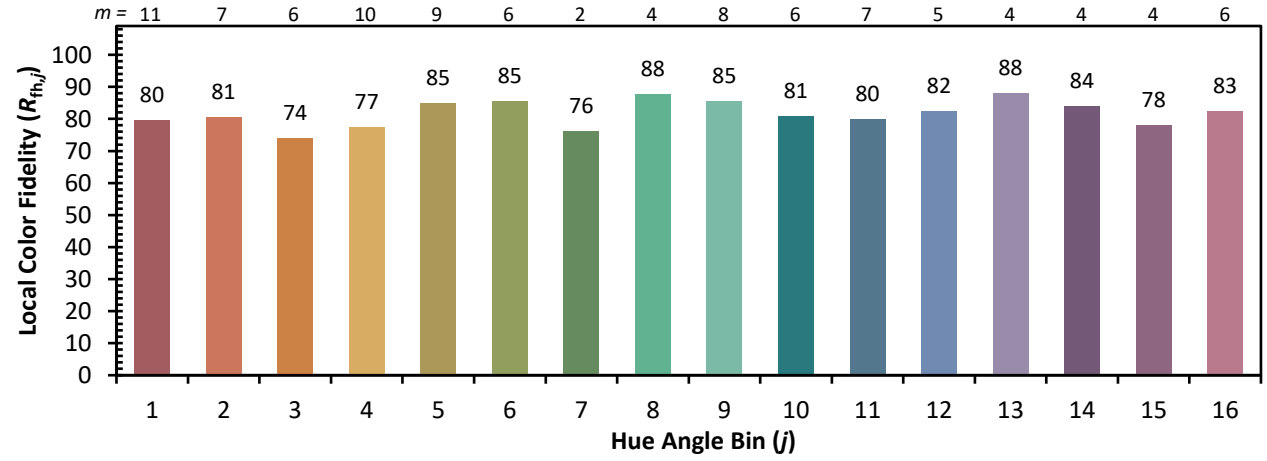
Color Rendition by Hue-Angle Bin







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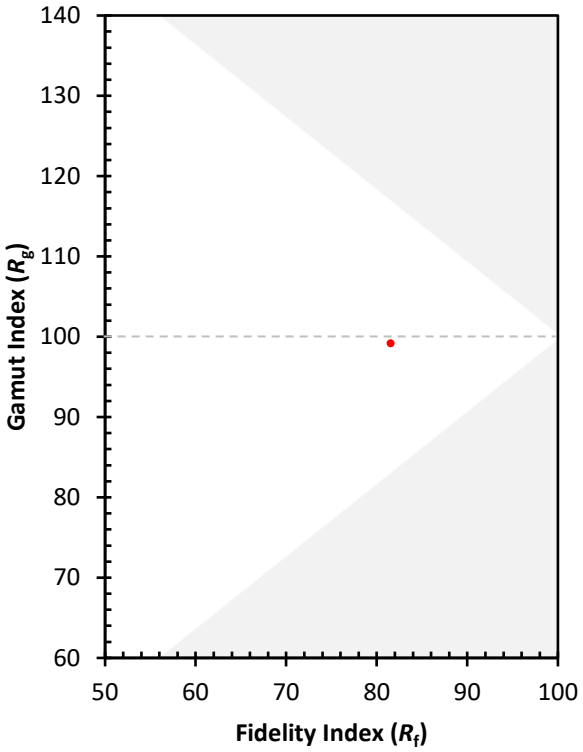
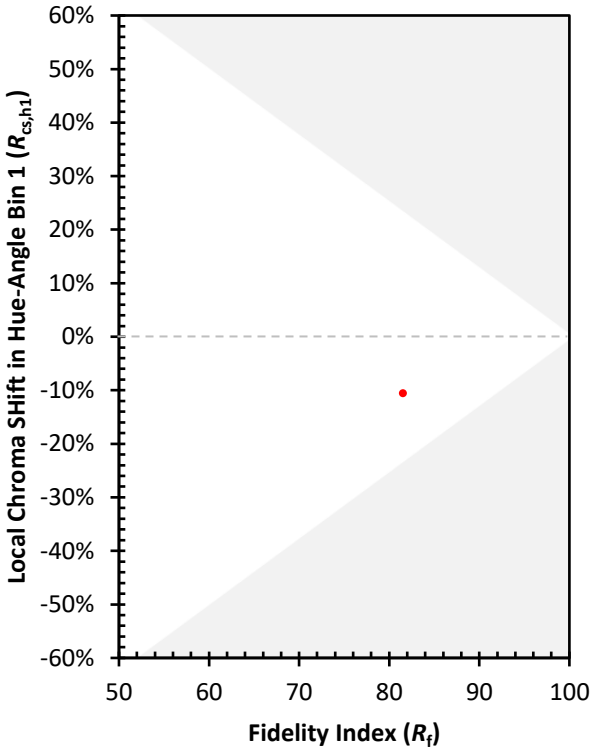
Measure Comparisons





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