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: P634514

Luminaire Tested: GWS-SA3B-830-U-SL3-W-GRSWH

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:	P634514
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6919.7 lumens
Efficiency:	N/A
Efficacy:	101.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	68.3
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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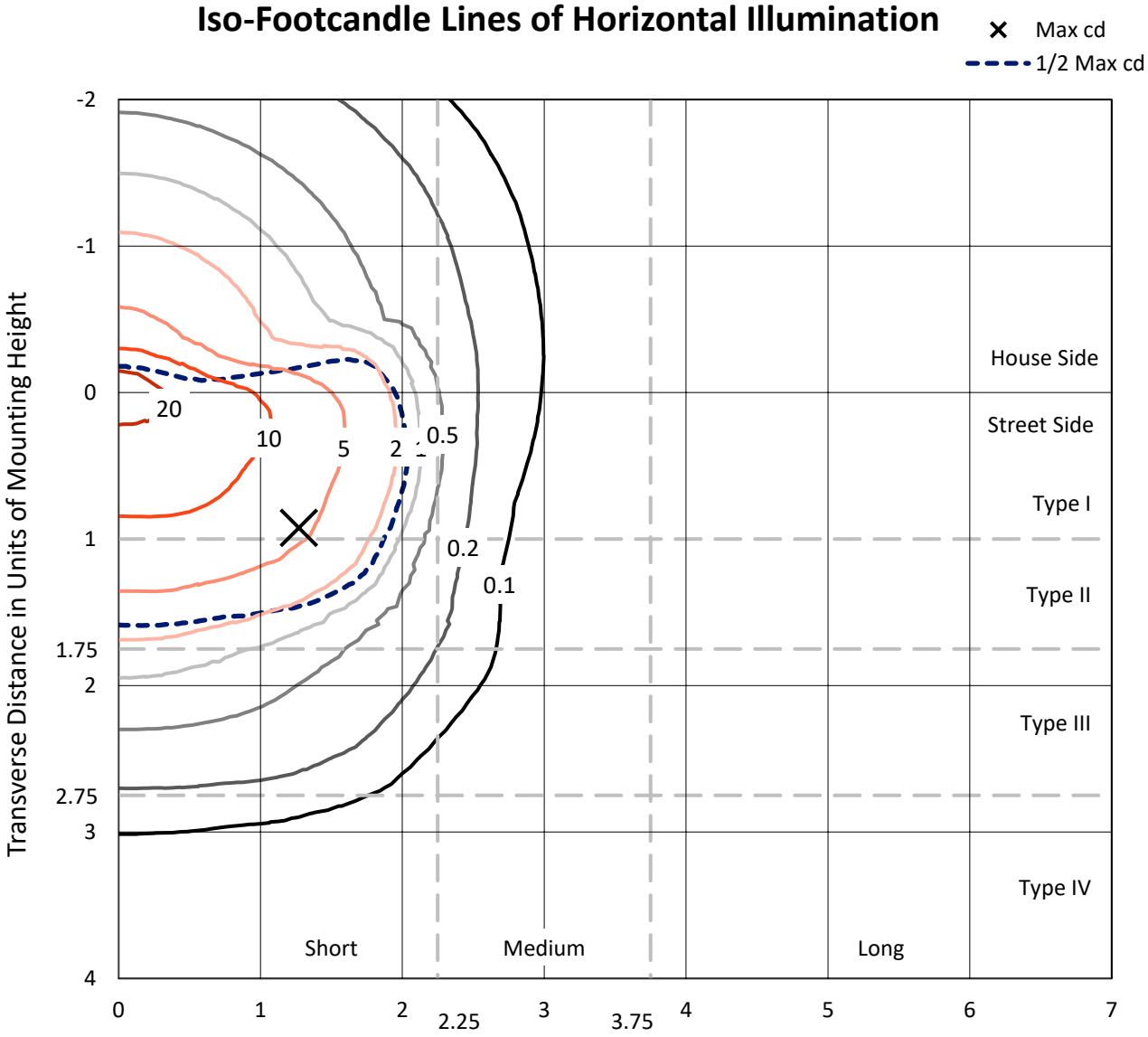
Scaled Data Report

REPORT NUMBER: P634514
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-GRSWH

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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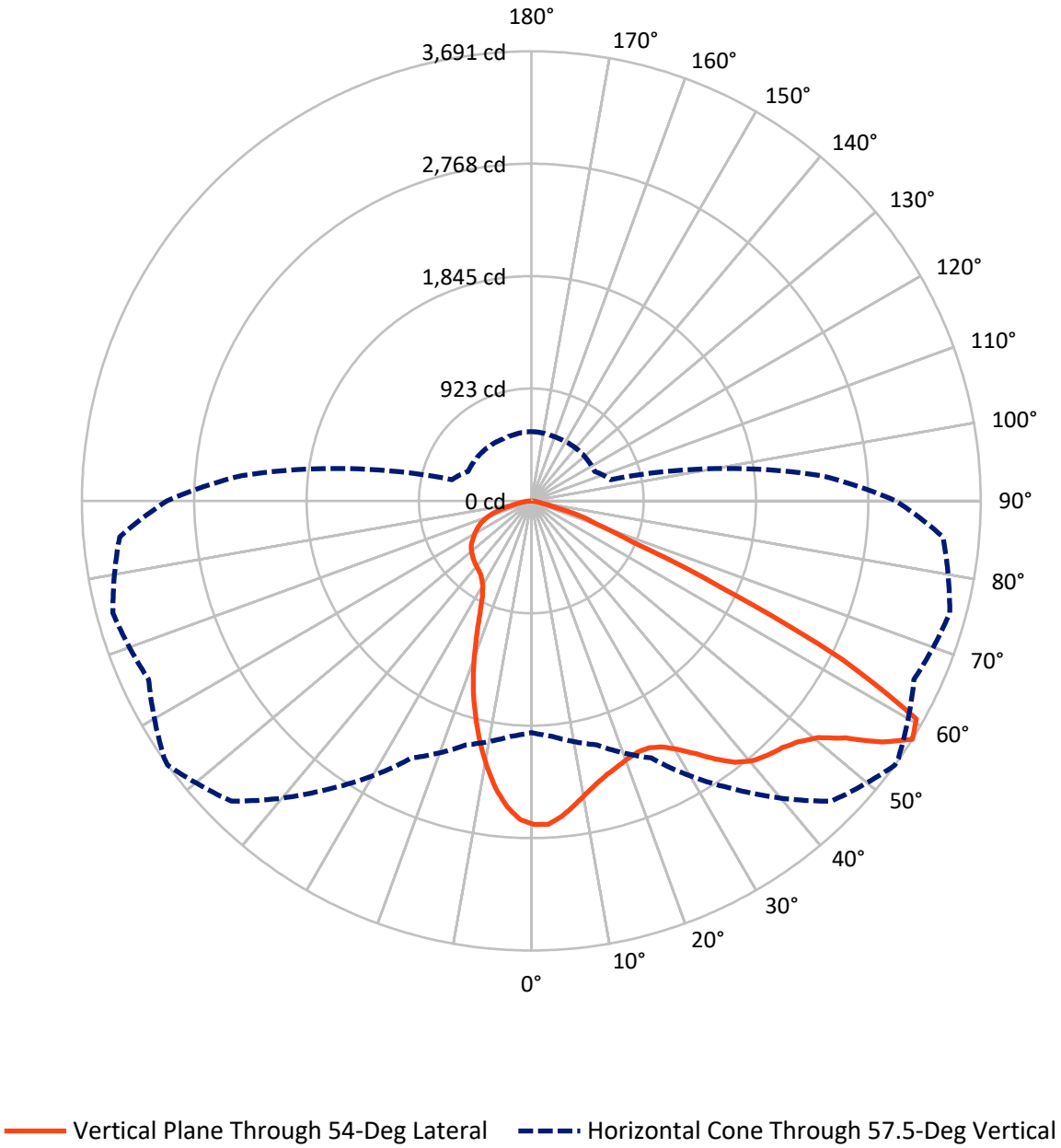
Luminous Intensity Polar Plot



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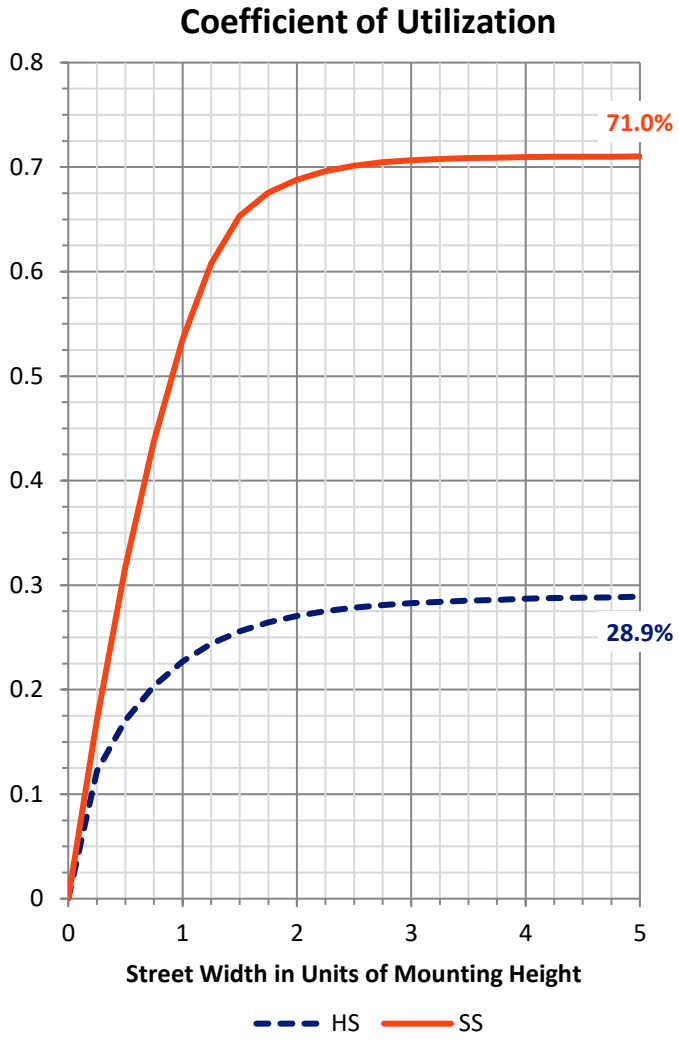
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2011.6	0.0	2011.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	4908.1	0.0	4908.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	6919.7	0.0	6919.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	3.4
10°-20°	557.2	8.1
20°-30°	771.1	11.1
30°-40°	1071.4	15.5
40°-50°	1415.0	20.4
50°-60°	1681.5	24.3
60°-70°	931.6	13.5
70°-80°	232.0	3.4
80°-90°	26.4	0.4
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°	6919.7	100.0
0°-180°	6919.7	100.0



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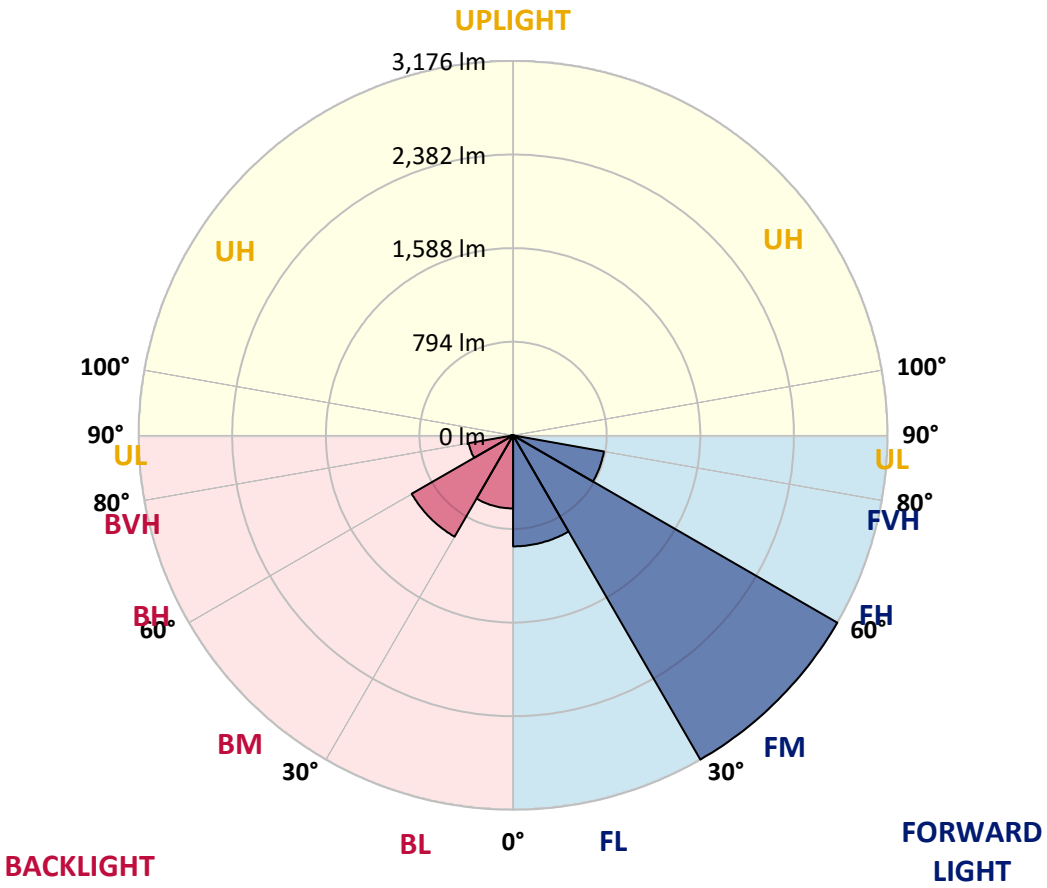
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	941.9	13.6			
FM	(30°-60°)	3175.6	45.9			
FH	(60°-80°)	782.4	11.3			G1/1800
FVH	(80°-90°)	8.3	0.1			G0/10
BL	(0°-30°)	619.9	9.0	B2/1000		
BM	(30°-60°)	992.4	14.3	B1/1000		
BH	(60°-80°)	381.2	5.5	B1/500		G1/500
BVH	(80°-90°)	18.1	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P634514
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6
2.5°	2606.9	2612.2	2615.8	2628.2	2638.9	2648.3	2658.4	2658.4	2657.8	2656.0	2652.5
5°	2503.8	2509.7	2518.0	2535.2	2558.3	2574.9	2602.1	2604.5	2616.4	2621.1	2618.7
7.5°	2384.2	2385.9	2396.6	2419.1	2455.8	2485.4	2524.5	2529.3	2557.7	2574.3	2571.3
10°	2253.2	2247.3	2266.3	2299.5	2347.4	2397.2	2447.5	2451.7	2497.3	2528.7	2526.3
12.5°	2133.6	2134.2	2153.1	2193.4	2253.2	2314.9	2382.4	2391.9	2448.1	2488.4	2484.3
15°	2033.5	2035.9	2059.0	2104.6	2172.7	2246.1	2330.3	2339.1	2410.2	2463.5	2451.7
17.5°	1953.5	1955.9	1976.0	2028.2	2101.0	2189.9	2292.3	2301.2	2389.5	2452.9	2428.6
20°	1898.4	1897.3	1916.8	1966.6	2041.8	2138.3	2259.2	2272.2	2383.0	2457.0	2413.2
22.5°	1875.9	1875.3	1889.6	1930.4	2000.9	2098.6	2239.0	2256.8	2390.1	2475.4	2403.7
25°	1887.2	1884.8	1897.3	1927.5	1983.7	2083.2	2245.0	2263.9	2420.3	2513.3	2405.5
27.5°	1922.1	1919.2	1929.8	1957.1	1999.7	2099.2	2286.4	2308.3	2484.3	2582.6	2429.2
30°	1975.4	1973.7	1984.3	2010.4	2047.7	2152.6	2365.8	2390.7	2583.2	2690.4	2480.7
32.5°	2037.6	2034.7	2053.6	2083.8	2127.1	2249.7	2472.4	2505.0	2700.5	2829.0	2567.2
35°	2107.5	2105.2	2131.2	2175.1	2237.3	2384.7	2601.5	2637.1	2820.1	2986.0	2682.1
37.5°	2175.7	2175.7	2226.0	2291.2	2369.3	2531.6	2723.0	2745.5	2903.0	3125.2	2805.3
40°	2236.1	2239.6	2315.4	2413.2	2512.7	2664.3	2802.9	2821.9	2939.8	3221.1	2912.5
42.5°	2303.0	2306.0	2394.2	2522.2	2640.6	2771.5	2851.5	2861.0	2946.9	3269.1	2988.3
45°	2356.3	2360.5	2470.0	2606.9	2752.0	2852.1	2890.0	2898.3	2956.9	3295.2	3043.4
47.5°	2384.2	2390.1	2515.7	2675.0	2827.2	2924.4	2953.4	2956.9	2998.4	3340.8	3109.8
50°	2379.4	2391.3	2532.8	2708.8	2882.9	2997.2	3055.3	3061.2	3083.1	3407.7	3187.4
52.5°	2421.5	2426.8	2569.6	2749.0	2962.3	3131.7	3232.4	3240.7	3230.6	3458.1	3233.6
55°	2351.6	2377.0	2523.9	2743.1	3083.1	3339.6	3494.8	3490.6	3364.5	3514.3	3310.6
57.5°	1902.0	1939.3	2073.8	2328.5	2884.1	3485.3	3690.8	3680.8	3468.1	3557.6	3394.1
60°	1316.8	1322.7	1444.1	1624.8	2226.0	3079.0	3633.4	3655.3	3487.1	3503.1	3239.5
62.5°	1053.2	1051.4	1062.7	1067.4	1415.7	2164.4	2868.1	2948.1	2897.1	2729.5	2295.9
65°	899.2	905.7	938.9	921.7	924.0	1219.0	1713.6	1724.9	1689.3	1628.9	1214.3
67.5°	703.7	715.0	773.6	840.5	819.2	784.8	889.1	883.8	696.6	539.0	445.4
70°	440.7	447.8	510.6	659.9	713.2	644.5	571.6	569.2	373.2	306.8	336.4
72.5°	257.1	258.3	276.0	367.8	473.3	440.7	420.6	405.2	239.9	244.6	268.3
75°	141.6	141.6	141.0	158.7	186.6	165.3	159.9	155.8	160.5	181.8	199.6
77.5°	29.6	30.2	32.0	42.1	54.5	66.3	83.5	84.1	104.8	121.4	135.6
80°	13.6	14.2	17.8	22.5	29.0	38.5	50.9	51.5	63.4	76.4	85.9
82.5°	7.1	7.7	9.5	11.8	15.4	20.1	28.4	28.4	37.9	45.0	50.9
85°	2.4	2.4	3.6	4.7	6.5	8.3	11.3	11.3	16.6	21.9	25.5
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.4	3.0	3.6	5.9
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: P634514
CATALOG NUMBER: GWS-SA3B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6
2.5°	2644.8	2626.4	2627.0	2630.6	2619.3	2602.1	2590.9	2576.7	2567.8	2566.0	2572.5
5°	2606.9	2585.5	2570.7	2555.3	2523.4	2485.4	2455.8	2431.5	2415.5	2409.6	2402.5
7.5°	2554.7	2526.9	2489.6	2446.4	2388.3	2320.8	2273.4	2229.0	2198.2	2189.3	2185.1
10°	2502.6	2462.3	2396.0	2315.4	2218.9	2127.7	2041.8	1976.0	1923.9	1894.3	1903.8
12.5°	2448.7	2399.0	2295.3	2171.5	2037.0	1899.6	1787.1	1678.1	1594.0	1551.9	1539.5
15°	2401.3	2333.8	2189.3	2021.6	1842.8	1669.8	1506.9	1343.4	1236.8	1178.7	1162.8
17.5°	2361.1	2273.4	2077.3	1868.8	1655.0	1408.6	1208.4	1056.7	983.9	951.9	949.5
20°	2321.4	2214.2	1966.6	1704.2	1438.2	1162.2	983.3	912.2	886.1	874.9	874.3
22.5°	2285.8	2152.0	1849.9	1539.5	1222.6	976.8	878.4	847.6	840.5	840.5	839.3
25°	2255.6	2089.8	1730.2	1364.7	1027.7	869.6	823.9	810.9	813.9	819.2	819.8
27.5°	2243.2	2041.2	1614.7	1185.3	893.2	807.4	786.6	784.8	793.1	801.4	802.6
30°	2256.2	2008.0	1496.2	1013.5	812.7	769.4	760.0	763.5	773.6	781.9	781.9
32.5°	2296.5	1991.4	1375.4	887.9	765.9	742.8	739.8	743.4	751.1	755.8	756.4
35°	2364.6	1998.0	1250.4	803.2	735.7	723.2	722.7	725.0	728.0	730.9	731.5
37.5°	2450.5	2027.0	1116.6	754.0	716.1	709.0	707.8	707.2	707.8	707.8	708.4
40°	2534.6	2070.8	996.9	725.0	702.5	696.6	693.6	689.5	688.9	687.7	687.1
42.5°	2596.8	2104.6	901.5	704.3	690.1	683.0	679.4	672.9	672.3	671.7	671.1
45°	2643.6	2133.0	822.2	684.1	677.0	670.5	662.8	656.9	658.1	659.3	659.3
47.5°	2696.3	2157.9	764.1	665.2	661.0	654.5	645.1	640.9	645.1	649.2	649.2
50°	2760.3	2192.8	716.7	646.2	644.5	636.8	628.5	626.7	631.4	637.4	637.4
52.5°	2807.1	2223.0	683.0	627.3	627.3	617.2	610.1	609.5	614.8	620.8	621.4
55°	2894.7	2293.5	671.1	605.4	603.0	595.3	590.0	585.8	592.3	597.7	597.7
57.5°	*2993.7*	*2387.1*	*674.1*	*574.0*	*571.0*	*568.6*	*564.5*	*559.8*	*561.5*	*567.5*	*568.1*
60°	2784.0	2205.9	641.5	542.6	540.8	539.6	534.3	526.0	528.4	533.1	533.7
62.5°	1944.6	1466.0	518.9	503.5	509.4	508.8	501.7	492.2	492.8	499.3	499.3
65°	1009.3	793.1	455.5	467.9	476.8	473.3	461.4	453.1	452.0	460.2	458.5
67.5°	435.4	433.0	414.6	430.6	440.1	432.4	420.0	406.3	407.5	410.5	408.1
70°	350.7	361.3	369.0	386.2	393.9	379.7	366.1	358.4	351.8	351.3	347.1
72.5°	280.2	295.0	312.2	329.9	332.3	318.1	300.9	293.8	283.7	283.1	279.0
75°	210.9	223.3	236.9	251.2	251.2	237.5	226.3	222.7	210.9	207.3	203.8
77.5°	143.9	151.6	162.3	165.9	169.4	164.1	152.8	146.9	133.3	129.7	125.0
80°	90.6	96.0	102.5	104.8	108.4	101.9	93.0	86.5	77.0	74.0	71.7
82.5°	54.5	58.0	62.2	63.4	66.3	61.6	53.3	48.6	43.2	40.9	39.1
85°	27.8	29.6	32.0	32.6	32.0	27.2	24.3	21.9	18.4	17.8	16.6
87.5°	7.1	8.3	8.9	8.3	7.7	5.9	4.1	3.0	1.2	1.2	0.6
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

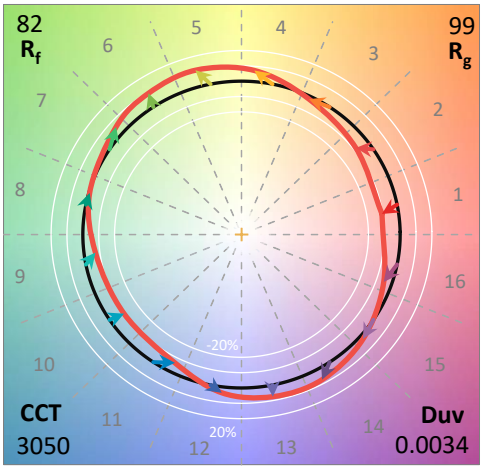
Test Information

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

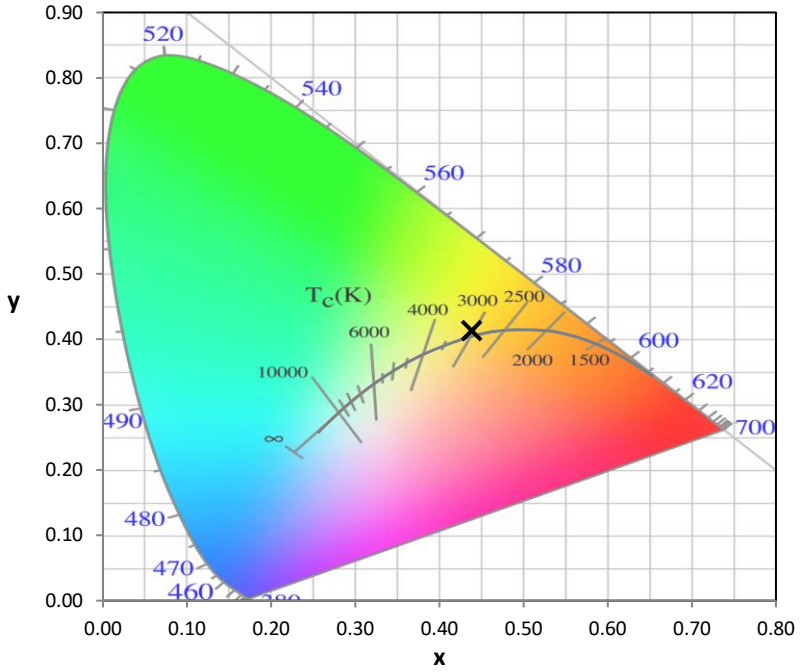
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

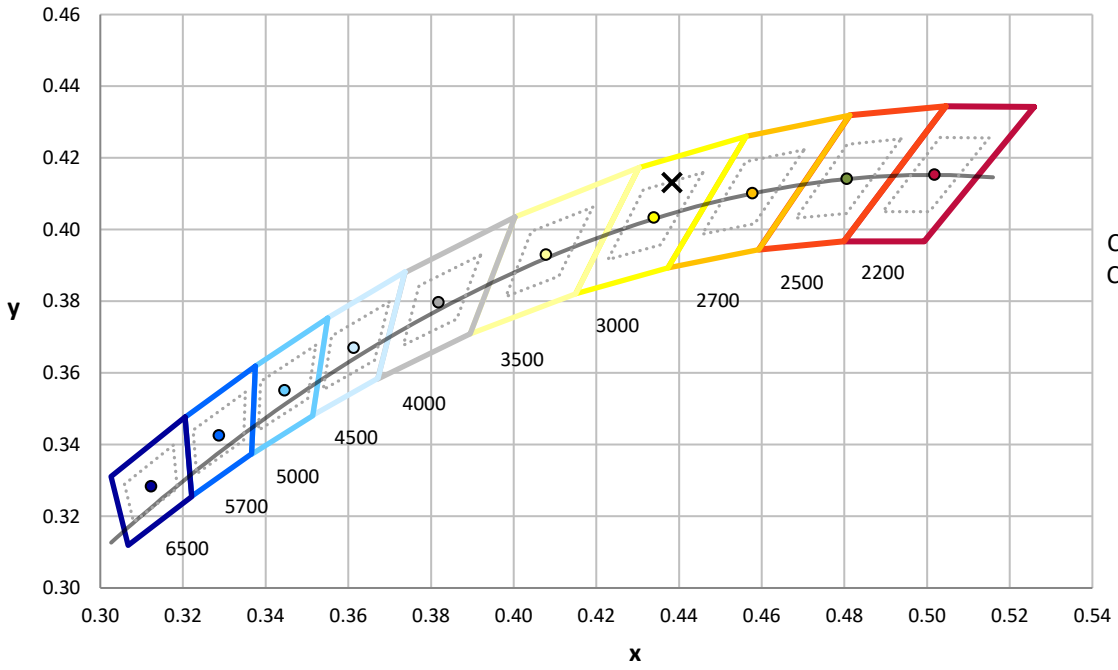
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

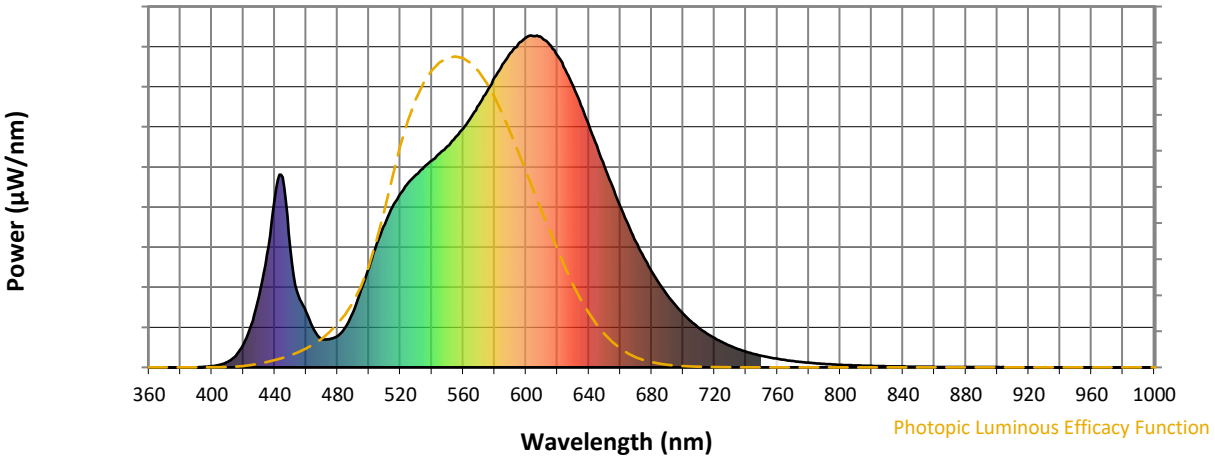


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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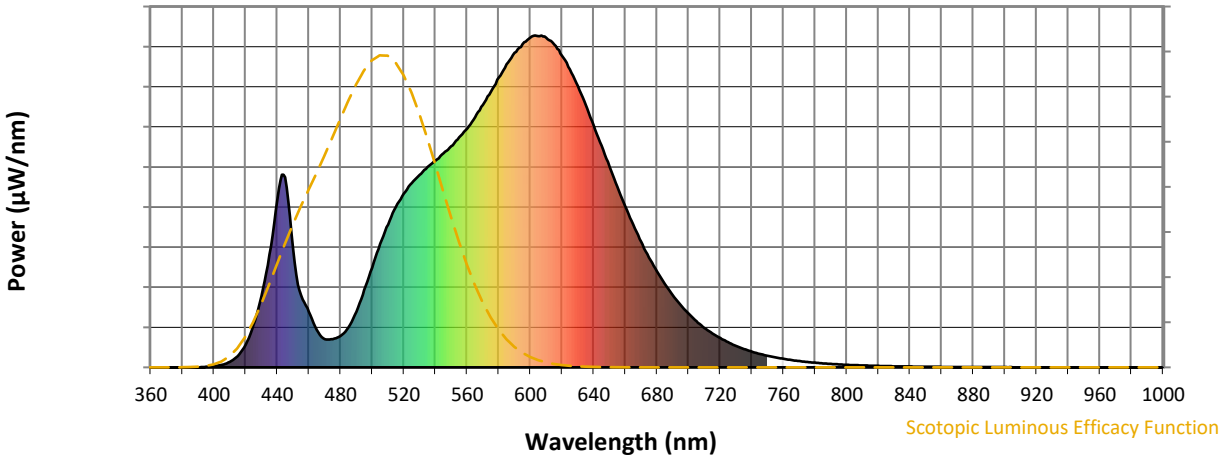
Scotopic Flux vs. Wavelength



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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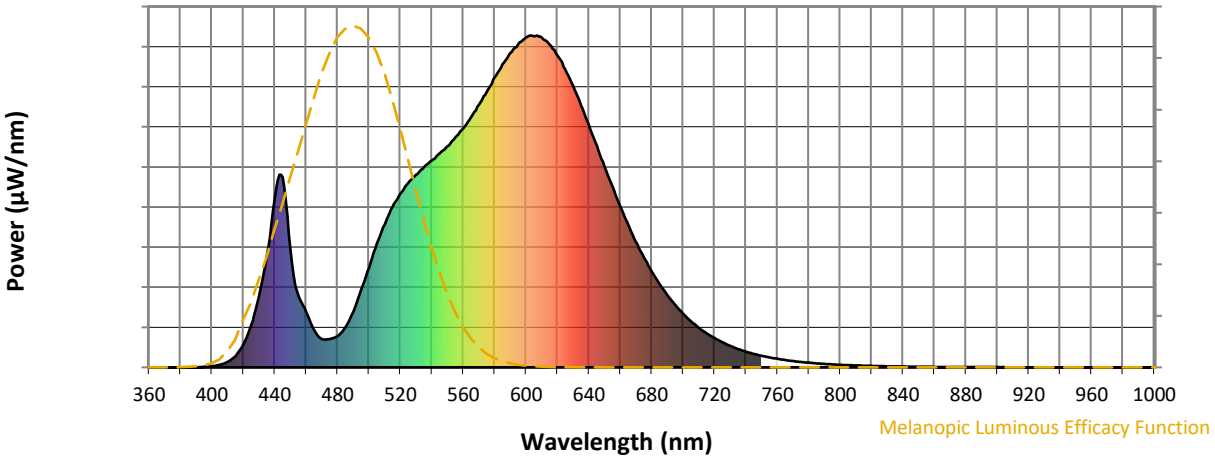
Melanopic Flux vs. Wavelength



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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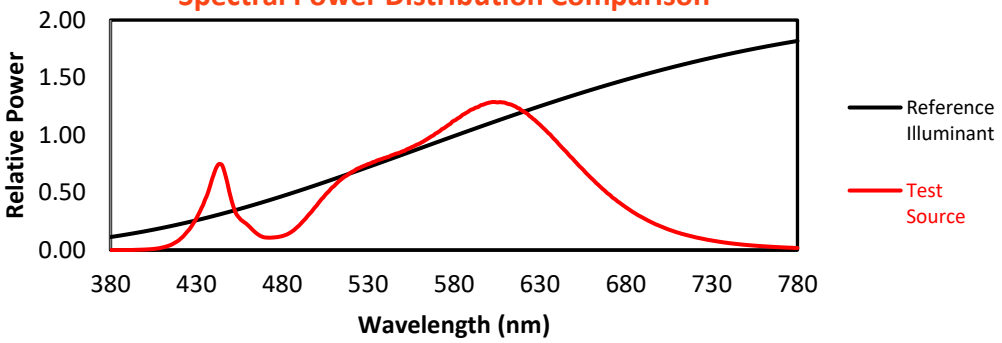
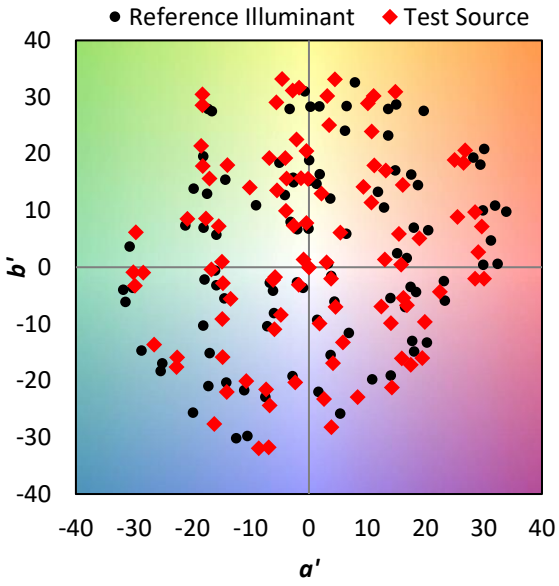
Summary

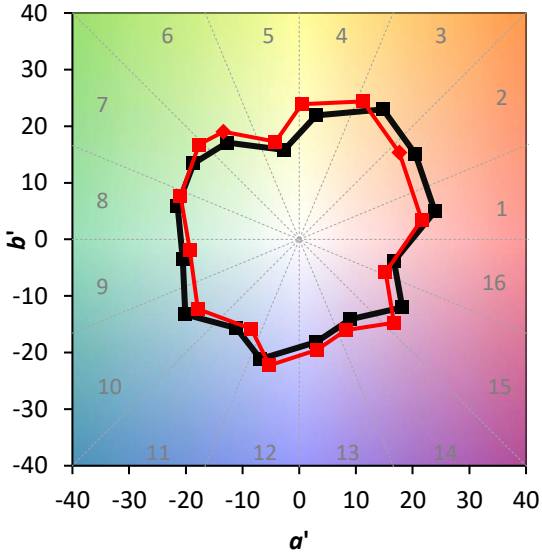
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

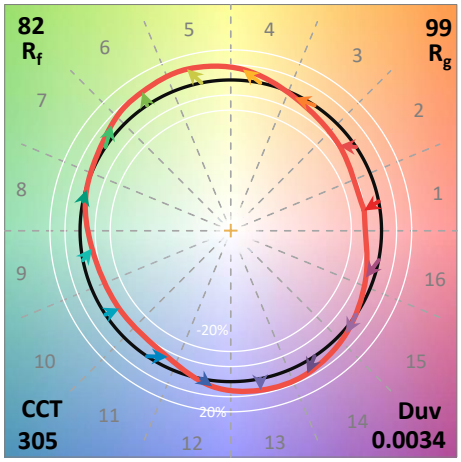
Spectral Power Distribution Comparison

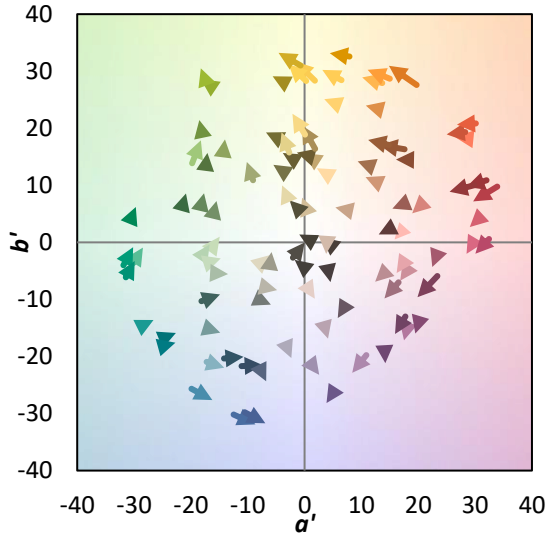


Color Vector Graphics









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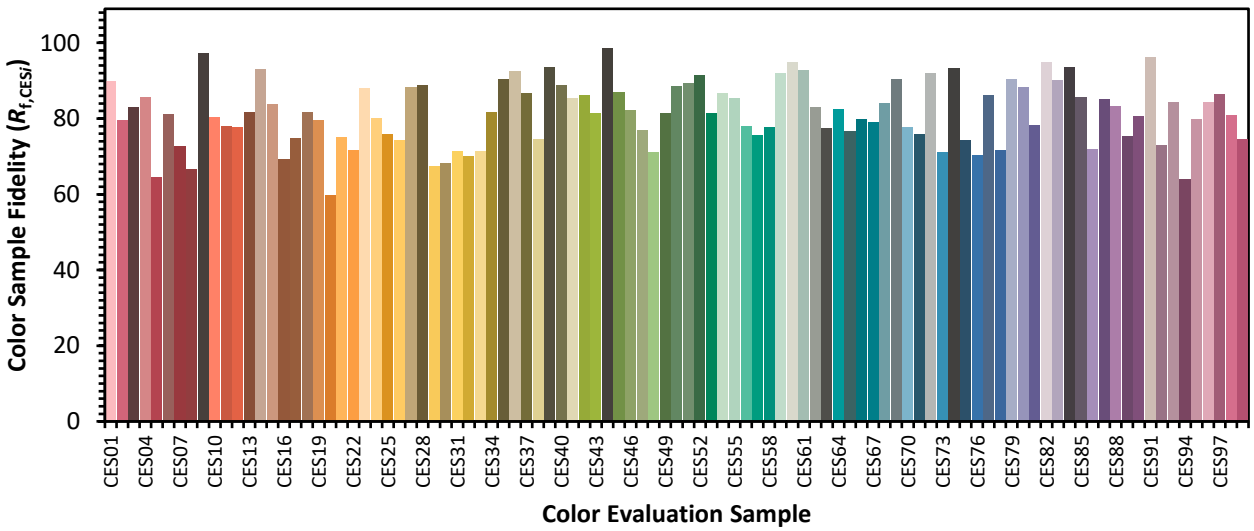
Individual Sample Fidelity Index ($R_{f,i}$)

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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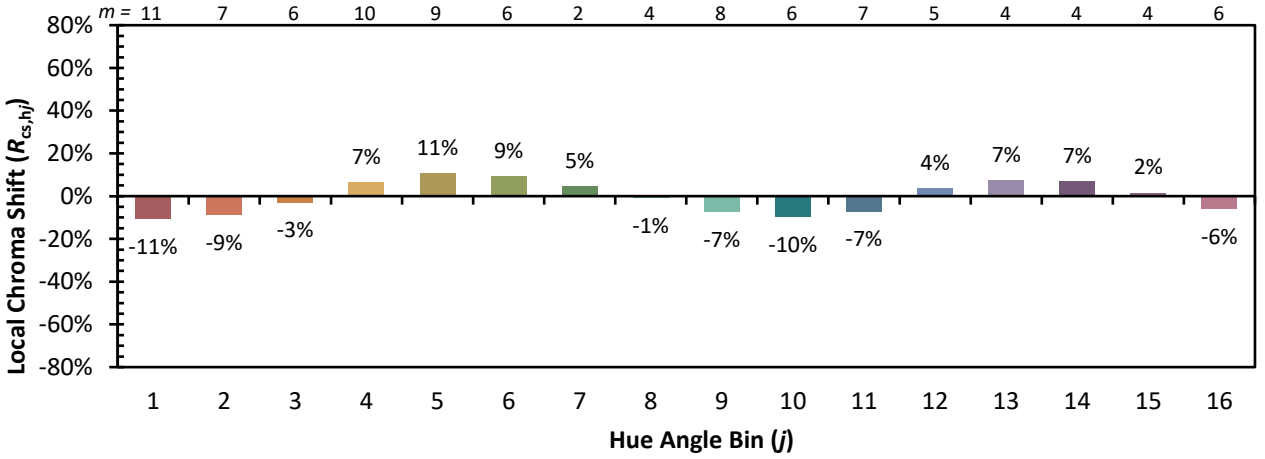
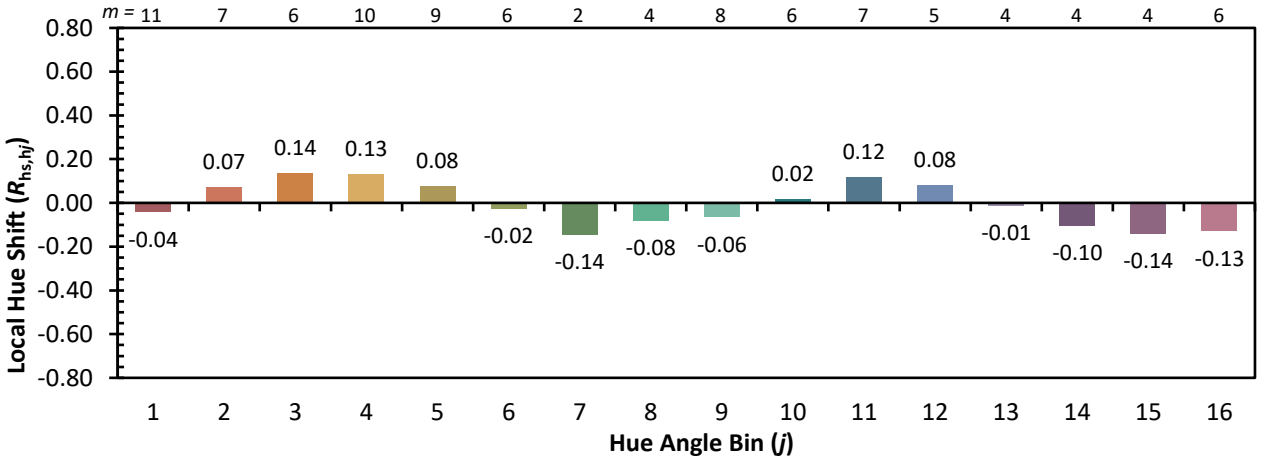
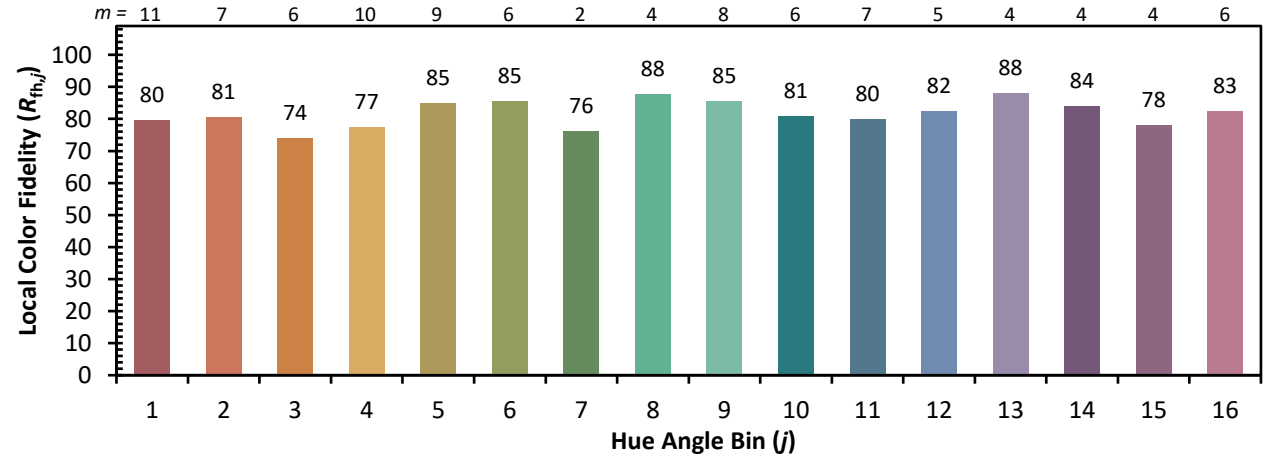
Color Rendition by Hue-Angle Bin







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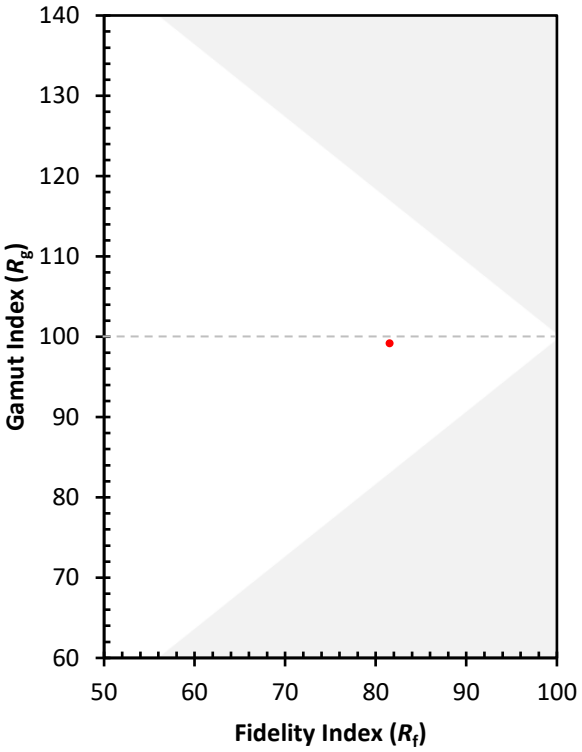
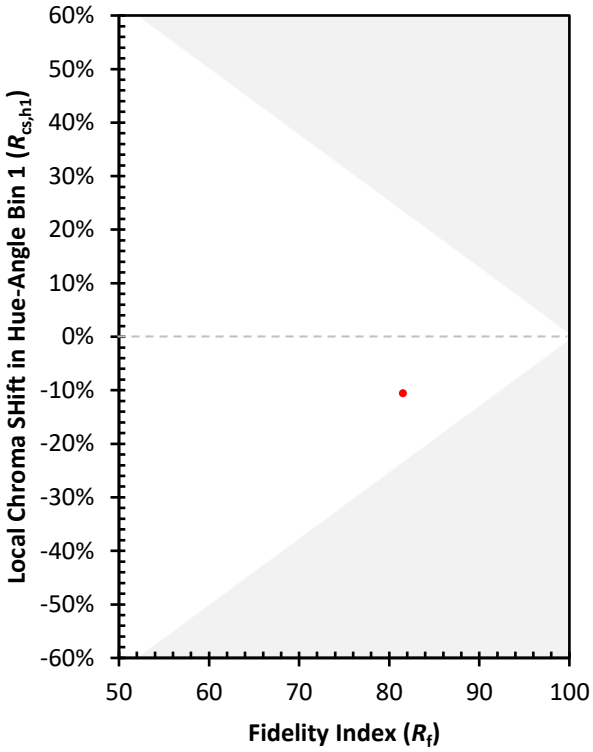
Measure Comparisons





(END OF REPORT)