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: P633029

Luminaire Tested: GWS-SA2D-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:	P633029
	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-SA2D-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7767.6 lumens
Efficiency:	N/A
Efficacy:	94.6 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):	82.1
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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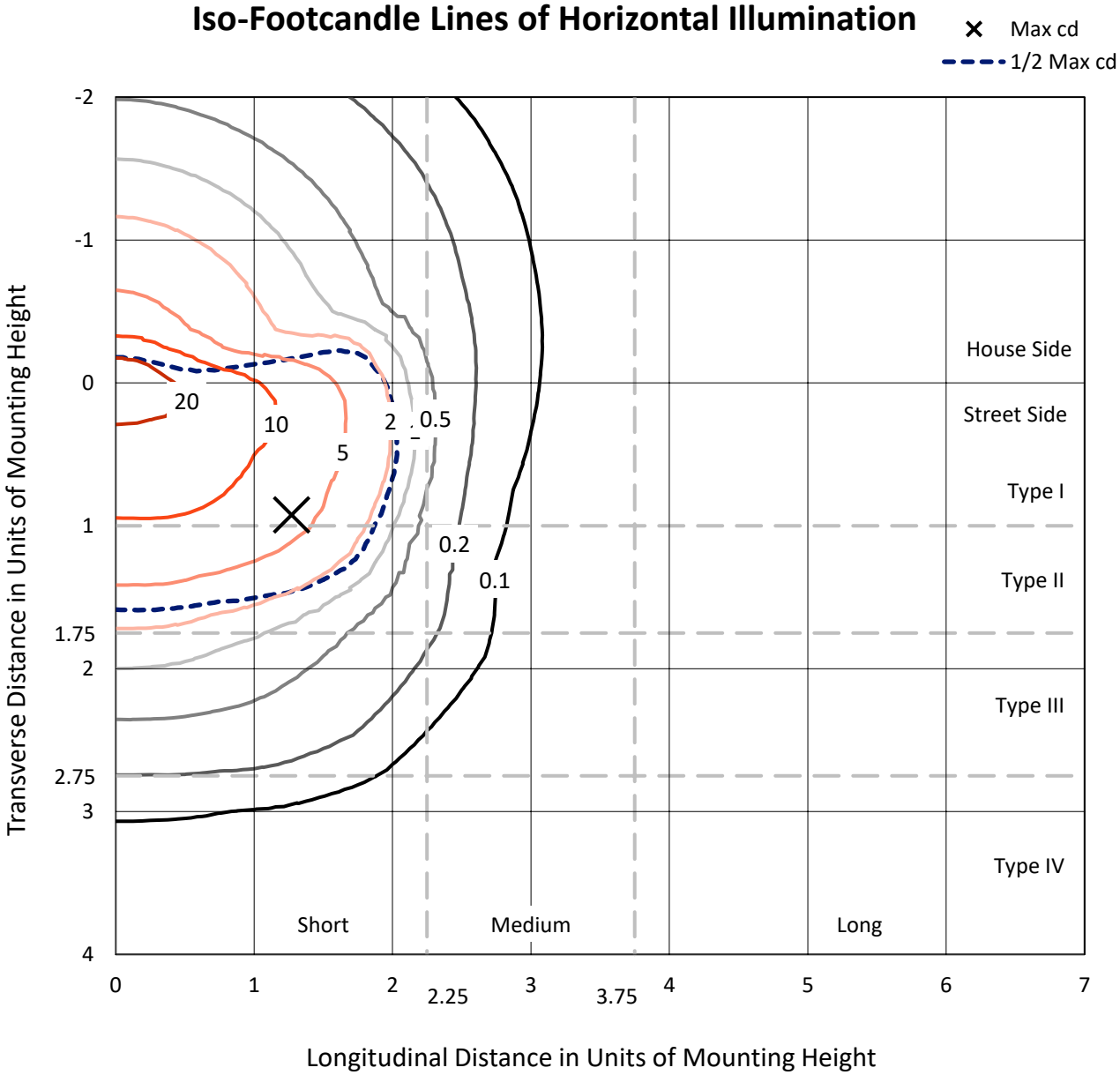
Scaled Data Report

REPORT NUMBER: P633029
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 29.8 fc
Type II - Short - N/A

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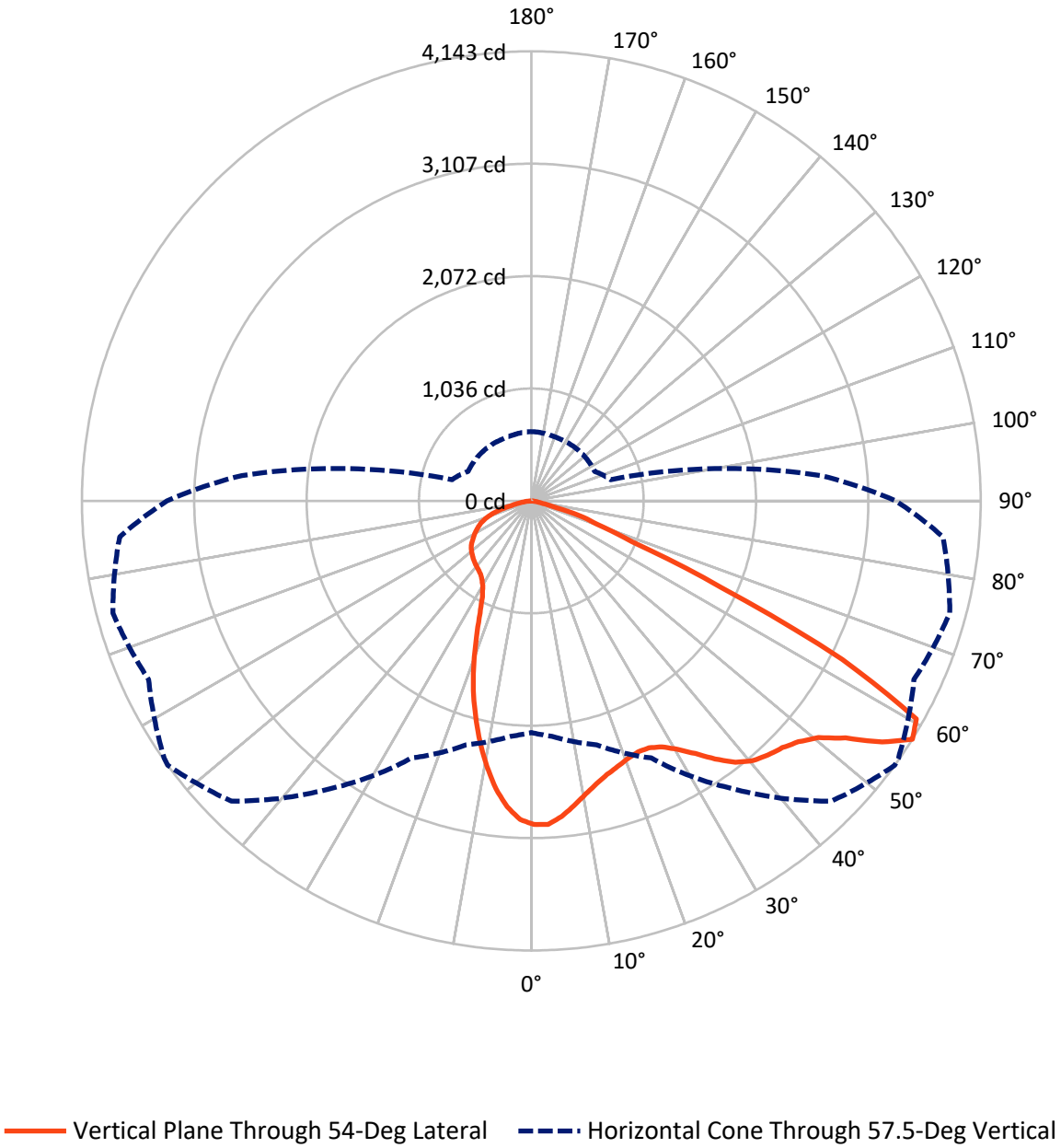
Luminous Intensity Polar Plot



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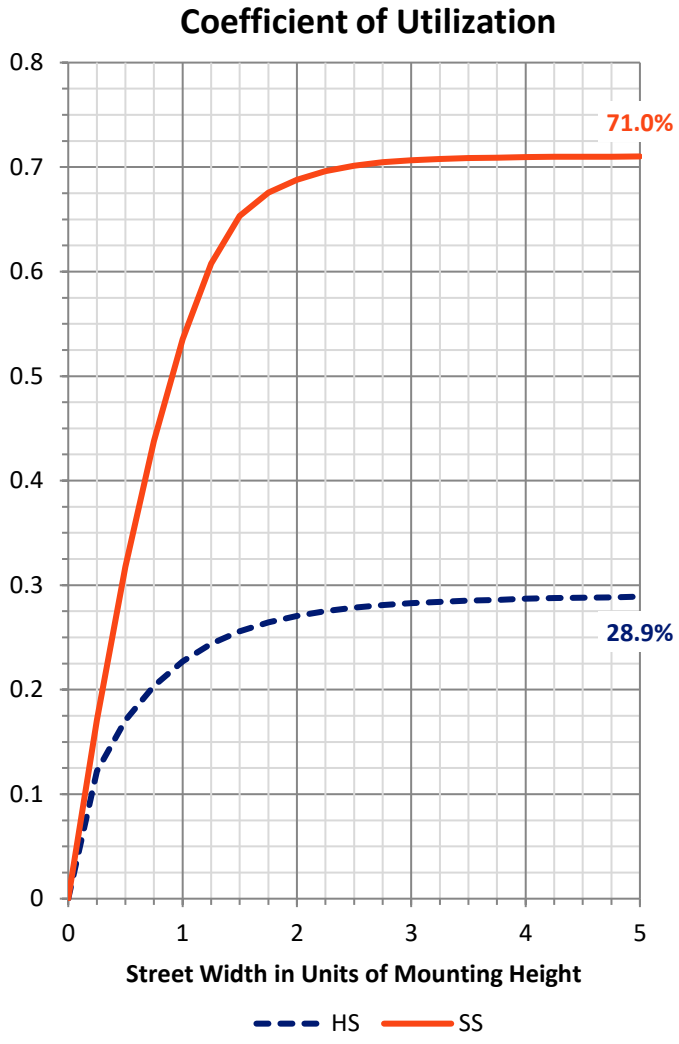
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.1	0.0	2258.1
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	5509.5	0.0	5509.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	7767.6	0.0	7767.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	3.4
10°-20°	625.5	8.1
20°-30°	865.6	11.1
30°-40°	1202.7	15.5
40°-50°	1588.4	20.4
50°-60°	1887.6	24.3
60°-70°	1045.7	13.5
70°-80°	260.4	3.4
80°-90°	29.6	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°	7767.6	100.0
0°-180°	7767.6	100.0



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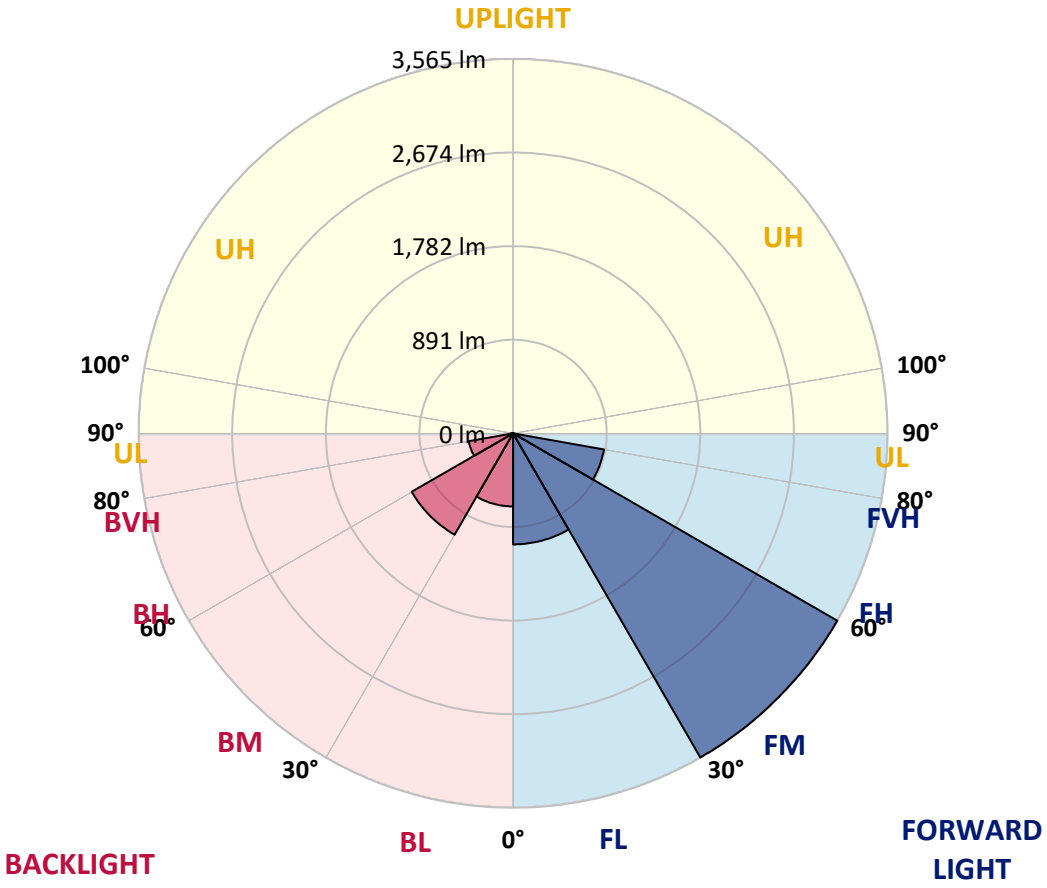
REPORT NUMBER: P633029
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1057.3	13.6			
FM	(30°-60°)	3564.7	45.9			
FH	(60°-80°)	878.2	11.3			G1/1800
FVH	(80°-90°)	9.3	0.1			G0/10
BL	(0°-30°)	695.9	9.0	B2/1000		
BM	(30°-60°)	1114.0	14.3	B2/2500		
BH	(60°-80°)	427.9	5.5	B1/500		G1/500
BVH	(80°-90°)	20.3	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: P633029
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	*2982.2*	2982.2	2982.2	2982.2	2982.2
2.5°	2926.3	2932.3	2936.3	2950.2	2962.2	2972.8	*2984.2*	2984.2	2983.5	2981.5	2977.5
5°	2810.6	2817.3	2826.6	2845.8	2871.8	2890.4	*2921.0*	2923.6	2936.9	2942.3	2939.6
7.5°	2676.3	2678.3	2690.3	2715.5	2756.8	2790.0	*2833.9*	2839.2	2871.1	2889.7	2886.4
10°	2529.3	2522.7	2544.0	2581.2	2635.1	2690.9	*2747.4*	2752.1	2803.3	2838.5	2835.9
12.5°	2395.0	2395.7	2417.0	2462.2	2529.3	2598.5	*2674.3*	2684.9	2748.1	2793.3	2788.7
15°	2282.7	2285.3	2311.3	2362.5	2438.9	2521.4	*2615.8*	2625.8	2705.6	2765.4	2752.1
17.5°	2192.9	2195.6	2218.2	2276.7	2358.5	2458.2	*2573.2*	2583.2	2682.3	2753.4	2726.2
20°	2131.1	2129.7	2151.7	2207.5	2292.0	2400.4	*2536.0*	2550.6	2675.0	2758.1	2708.9
22.5°	2105.8	2105.1	2121.1	2167.0	2246.1	2355.8	*2513.4*	2533.3	2682.9	2778.7	2698.2
25°	2118.4	2115.8	2129.7	2163.6	2226.8	2338.5	*2520.0*	2541.3	2716.9	2821.2	2700.2
27.5°	2157.7	2154.3	2166.3	2196.9	2244.8	2356.5	*2566.6*	2591.2	2788.7	2899.0	2726.8
30°	2217.5	2215.5	2227.5	2256.7	2298.6	2416.3	*2655.7*	2683.6	2899.7	3020.1	2784.7
32.5°	2287.3	2284.0	2305.3	2339.2	2387.7	2525.4	*2775.4*	2811.9	3031.4	3175.6	2881.8
35°	2365.8	2363.1	2392.4	2441.6	2511.4	2677.0	*2920.3*	2960.2	3165.7	3351.9	3010.7
37.5°	2442.2	2442.2	2498.8	2571.9	2659.7	2841.9	*3056.6*	3081.9	3258.8	3508.1	3149.1
40°	2510.1	2514.1	2599.2	2708.9	2820.6	2990.8	*3146.4*	3167.7	3300.0	3615.8	3269.4
42.5°	2585.2	2588.5	2687.6	2831.2	2964.2	3111.2	*3200.9*	3211.6	3308.0	3669.7	3354.5
45°	2645.0	2649.7	2772.7	2926.3	3089.2	3201.6	*3244.1*	3253.4	3319.3	3698.9	3416.3
47.5°	2676.3	2682.9	2823.9	3002.8	3173.7	3282.7	*3315.3*	3319.3	3365.8	3750.1	3490.8
50°	2671.0	2684.3	2843.2	3040.7	3236.2	3364.5	*3429.6*	3436.3	3460.9	3825.3	3577.9
52.5°	2718.2	2724.2	2884.4	3085.9	3325.3	3515.4	*3628.5*	3637.8	3626.5	3881.8	3629.8
55°	2639.7	2668.3	2833.2	3079.2	3460.9	3748.8	*3923.0*	3918.4	3776.7	3945.0	3716.2
57.5°	*2135.1*	*2176.9*	*2327.9*	*2613.8*	*3237.5*	*3912.4*	*4143.1*	*4131.8*	*3893.1*	*3993.5*	*3810.0*
60°	1478.1	1484.8	1621.1	1823.9	2498.8	3456.2	*4078.6*	4103.2	3914.4	3932.3	3636.4
62.5°	1182.2	1180.2	1192.9	1198.2	1589.2	2429.6	*3219.5*	3309.3	3252.1	3063.9	2577.2
65°	1009.3	1016.7	1053.9	1034.6	1037.3	1368.4	*1923.6*	1936.2	1896.3	1828.5	1363.1
67.5°	789.9	802.6	868.4	943.5	919.6	881.0	*998.0*	992.1	781.9	605.1	500.0
70°	494.7	502.7	573.2	740.7	800.6	723.4	*641.6*	639.0	418.9	344.4	377.7
72.5°	288.6	289.9	309.9	412.9	531.3	494.7	*472.1*	454.8	269.3	274.6	301.2
75°	158.9	158.9	158.3	178.2	209.4	185.5	*179.5*	174.9	180.2	204.1	224.1
77.5°	33.2	33.9	35.9	47.2	61.2	74.5	*93.8*	94.4	117.7	136.3	152.3
80°	15.3	16.0	19.9	25.3	32.6	43.2	*57.2*	57.8	71.1	85.8	96.4
82.5°	8.0	8.6	10.6	13.3	17.3	22.6	*31.9*	31.9	42.6	50.5	57.2
85°	2.7	2.7	4.0	5.3	7.3	9.3	*12.6*	12.6	18.6	24.6	28.6
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	*2.7*	2.7	3.3	4.0	6.6
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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REPORT NUMBER: P633029
CATALOG NUMBER: GWS-SA2D-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	2968.9	2948.2	2948.9	2952.9	2940.3	2921.0	2908.4	2892.4	2882.4	2880.4	2887.7
5°	2926.3	2902.4	2885.7	2868.5	2832.6	2790.0	2756.8	2729.5	2711.5	2704.9	2696.9
7.5°	2867.8	2836.5	2794.7	2746.1	2681.0	2605.1	2552.0	2502.1	2467.5	2457.5	2452.9
10°	2809.3	2764.1	2689.6	2599.2	2490.8	2388.4	2292.0	2218.2	2159.7	2126.4	2137.0
12.5°	2748.8	2692.9	2576.6	2437.6	2286.7	2132.4	2006.1	1883.7	1789.3	1742.1	1728.1
15°	2695.6	2619.8	2457.5	2269.4	2068.6	1874.4	1691.6	1508.0	1388.3	1323.2	1305.2
17.5°	2650.4	2552.0	2331.9	2097.8	1857.8	1581.2	1356.4	1186.2	1104.4	1068.5	1065.9
20°	2605.8	2485.5	2207.5	1913.0	1614.4	1304.6	1103.8	1024.0	994.7	982.1	981.4
22.5°	2565.9	2415.6	2076.5	1728.1	1372.4	1096.5	986.1	951.5	943.5	943.5	942.2
25°	2532.0	2345.8	1942.2	1532.0	1153.6	976.1	924.9	910.3	913.6	919.6	920.2
27.5°	2518.0	2291.3	1812.6	1330.5	1002.7	906.3	883.0	881.0	890.3	899.6	901.0
30°	2532.7	2254.1	1679.6	1137.7	912.3	863.7	853.1	857.1	868.4	877.7	877.7
32.5°	2577.9	2235.5	1543.9	996.7	859.7	833.8	830.5	834.5	843.1	848.4	849.1
35°	2654.4	2242.8	1403.6	901.6	825.8	811.9	811.2	813.9	817.2	820.5	821.2
37.5°	2750.8	2275.4	1253.4	846.4	803.9	795.9	794.6	793.9	794.6	794.6	795.2
40°	2845.2	2324.6	1119.1	813.9	788.6	781.9	778.6	774.0	773.3	772.0	771.3
42.5°	2915.0	2362.5	1012.0	790.6	774.6	766.7	762.7	755.3	754.7	754.0	753.4
45°	2967.5	2394.4	922.9	768.0	760.0	752.7	744.0	737.4	738.7	740.1	740.1
47.5°	3026.7	2422.3	857.7	746.7	742.0	734.7	724.1	719.4	724.1	728.8	728.8
50°	3098.5	2461.5	804.6	725.4	723.4	714.8	705.5	703.5	708.8	715.5	715.5
52.5°	3151.0	2495.4	766.7	704.1	704.1	692.8	684.9	684.2	690.2	696.8	697.5
55°	3249.5	2574.6	753.4	679.5	676.9	668.2	662.3	657.6	664.9	670.9	670.9
57.5°	*3360.5*	*2679.6*	*756.7*	*644.3*	*641.0*	*638.3*	*633.7*	*628.3*	*630.3*	*637.0*	*637.7*
60°	3125.1	2476.2	720.1	609.1	607.1	605.7	599.8	590.4	593.1	598.4	599.1
62.5°	2182.9	1645.7	582.5	565.2	571.8	571.2	563.2	552.5	553.2	560.5	560.5
65°	1133.0	890.3	511.3	525.3	535.3	531.3	518.0	508.7	507.3	516.6	514.6
67.5°	488.7	486.1	465.4	483.4	494.0	485.4	471.4	456.1	457.5	460.8	458.1
70°	393.6	405.6	414.2	433.5	442.2	426.2	410.9	402.3	395.0	394.3	389.6
72.5°	314.5	331.1	350.4	370.4	373.0	357.1	337.8	329.8	318.5	317.8	313.2
75°	236.7	250.7	266.0	281.9	281.9	266.6	254.0	250.0	236.7	232.7	228.7
77.5°	161.6	170.2	182.2	186.2	190.2	184.2	171.5	164.9	149.6	145.6	140.3
80°	101.7	107.7	115.0	117.7	121.7	114.4	104.4	97.1	86.4	83.1	80.5
82.5°	61.2	65.2	69.8	71.1	74.5	69.2	59.8	54.5	48.5	45.9	43.9
85°	31.3	33.2	35.9	36.6	35.9	30.6	27.3	24.6	20.6	19.9	18.6
87.5°	8.0	9.3	10.0	9.3	8.6	6.6	4.7	3.3	1.3	1.3	0.7
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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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

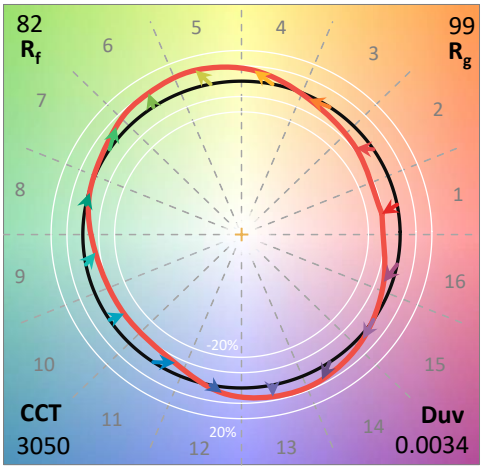
Test Information

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

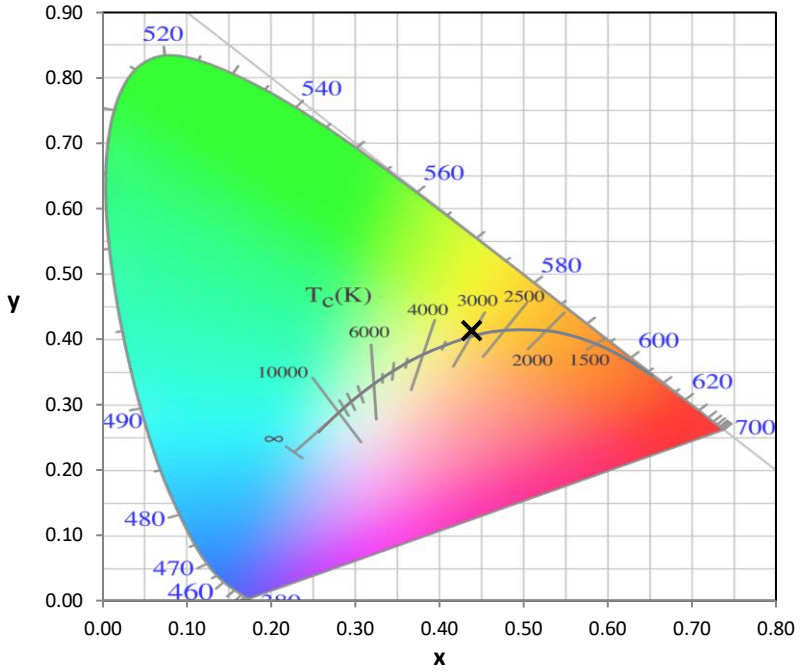
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

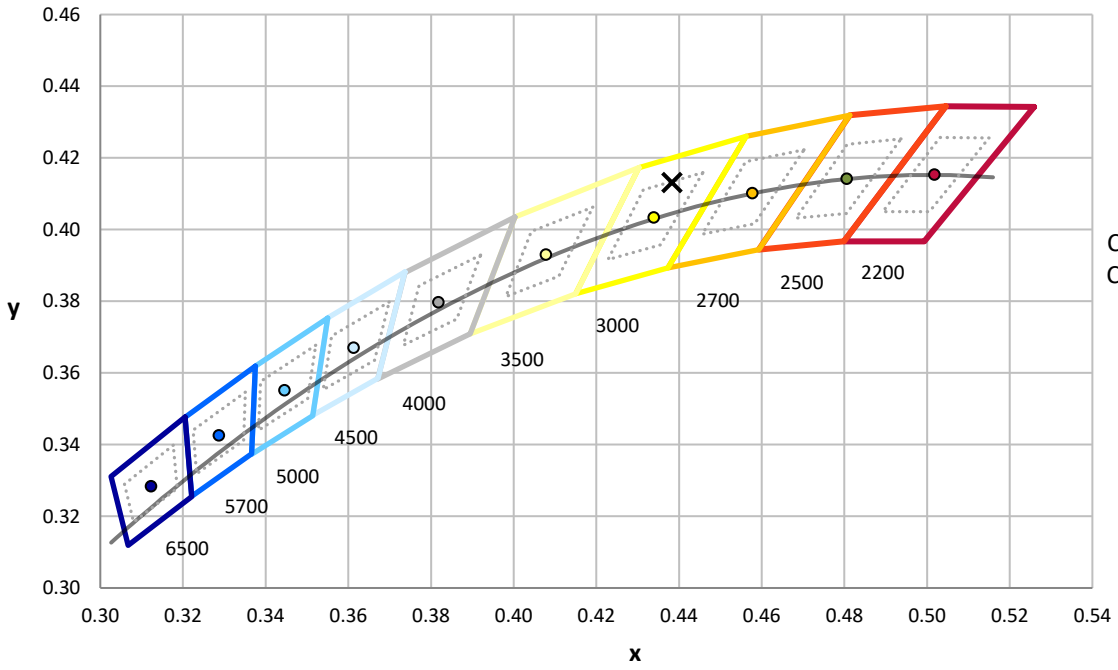
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

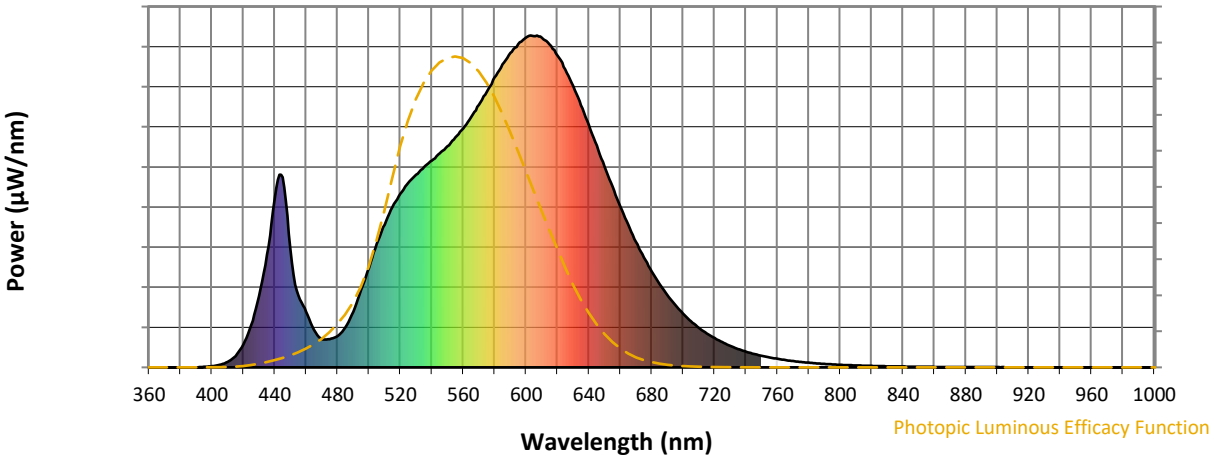


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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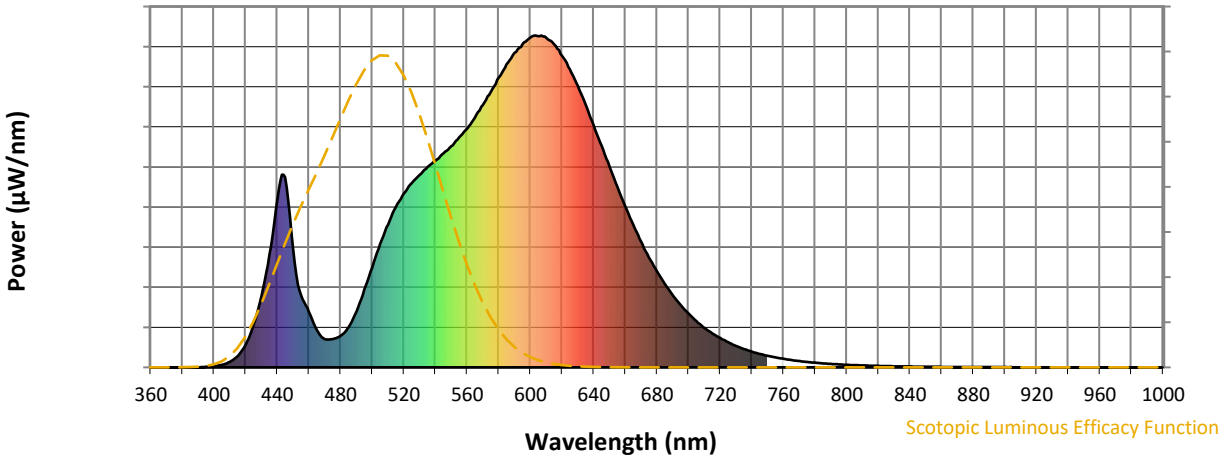
Scotopic Flux vs. Wavelength



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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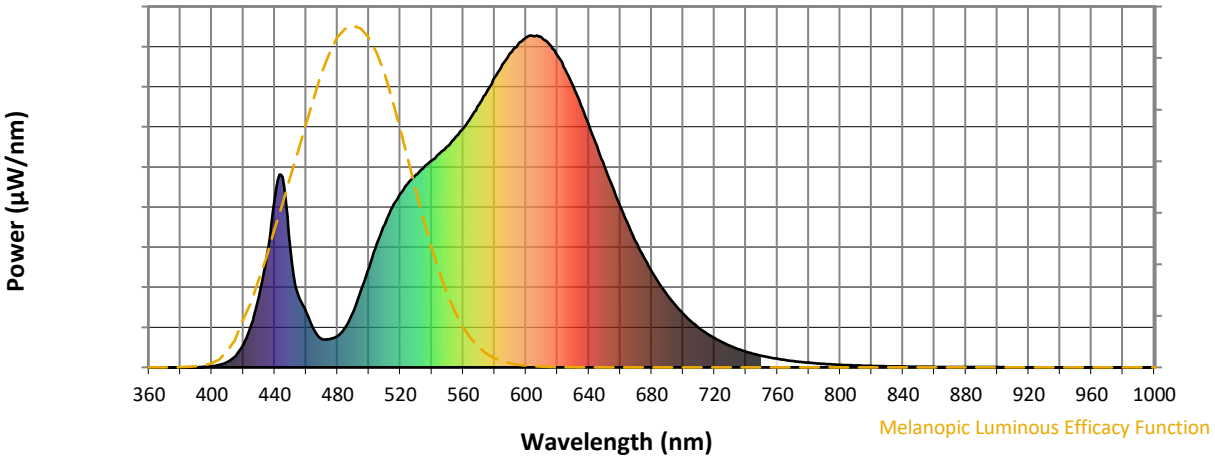
Melanopic Flux vs. Wavelength



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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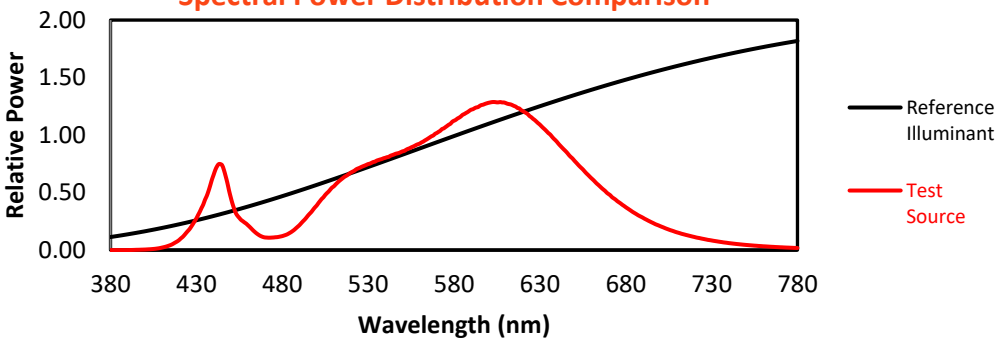
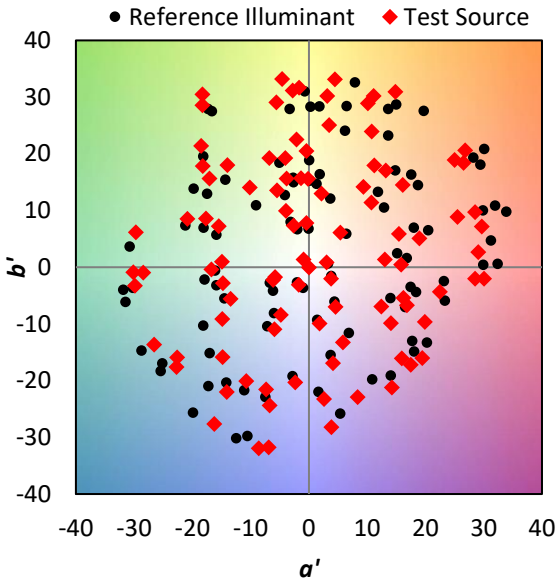
Summary

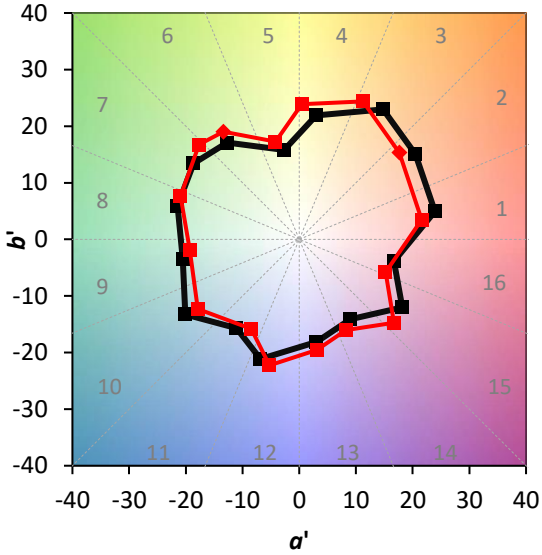
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

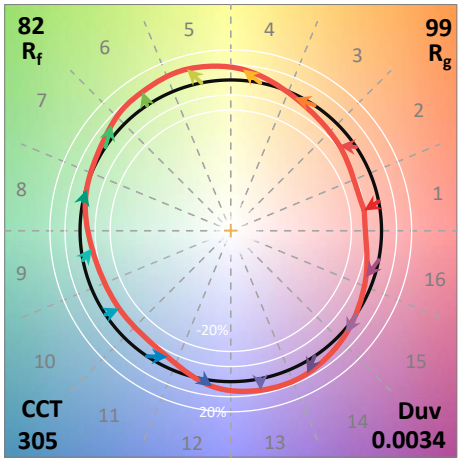
Spectral Power Distribution Comparison

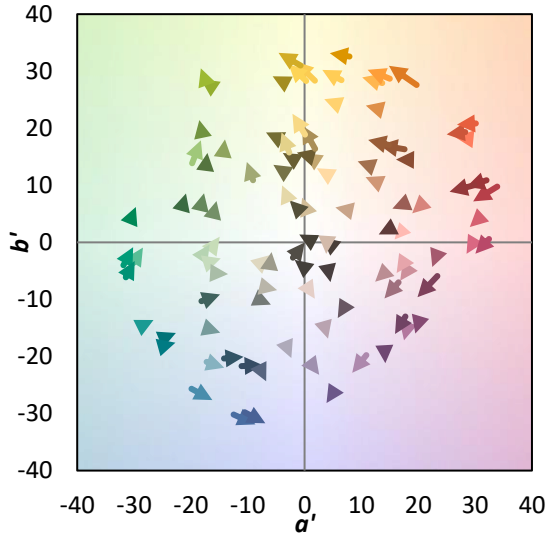


Color Vector Graphics









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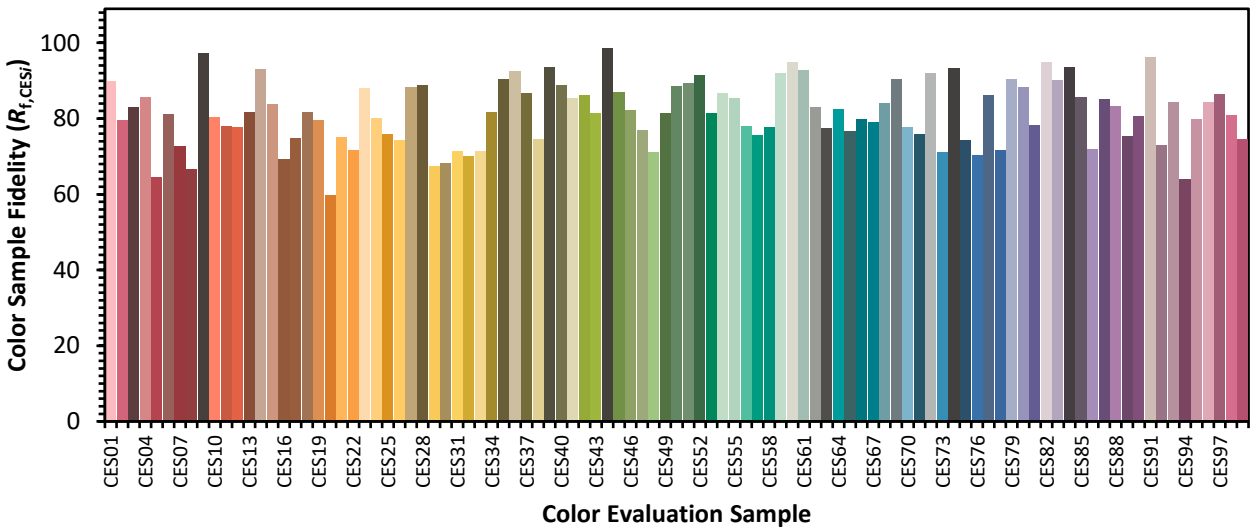
Individual Sample Fidelity Index ($R_{f,i}$)

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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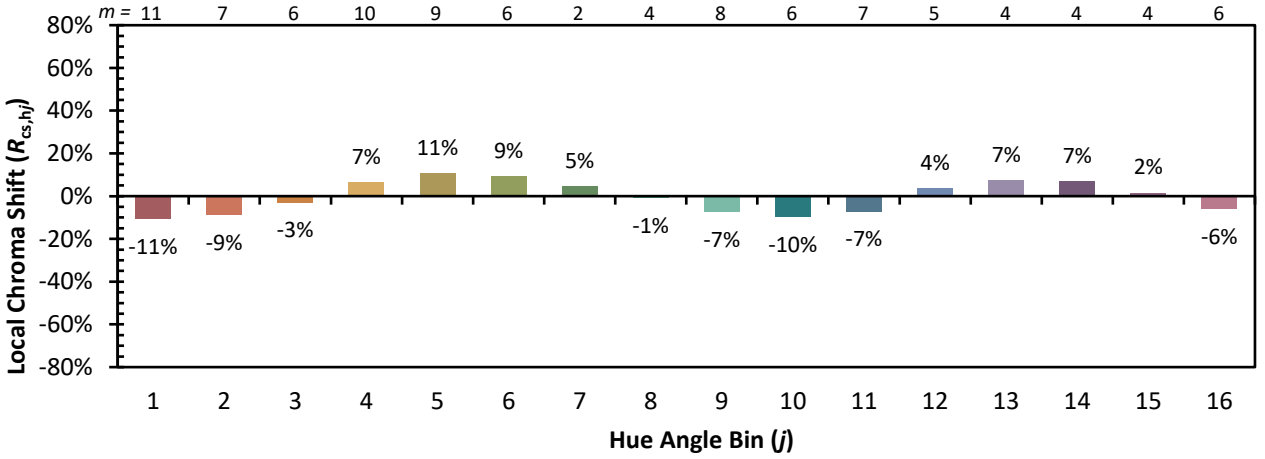
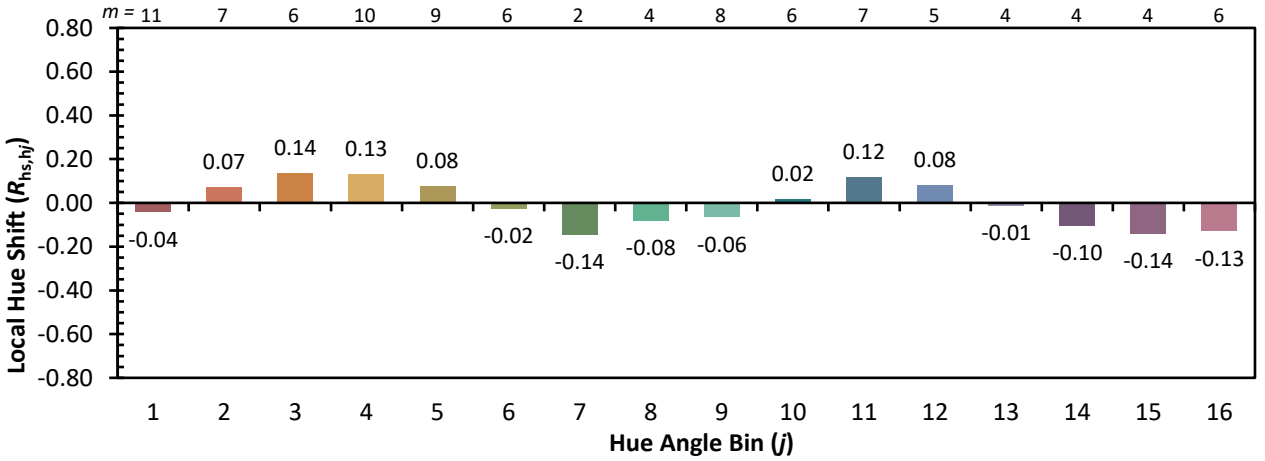
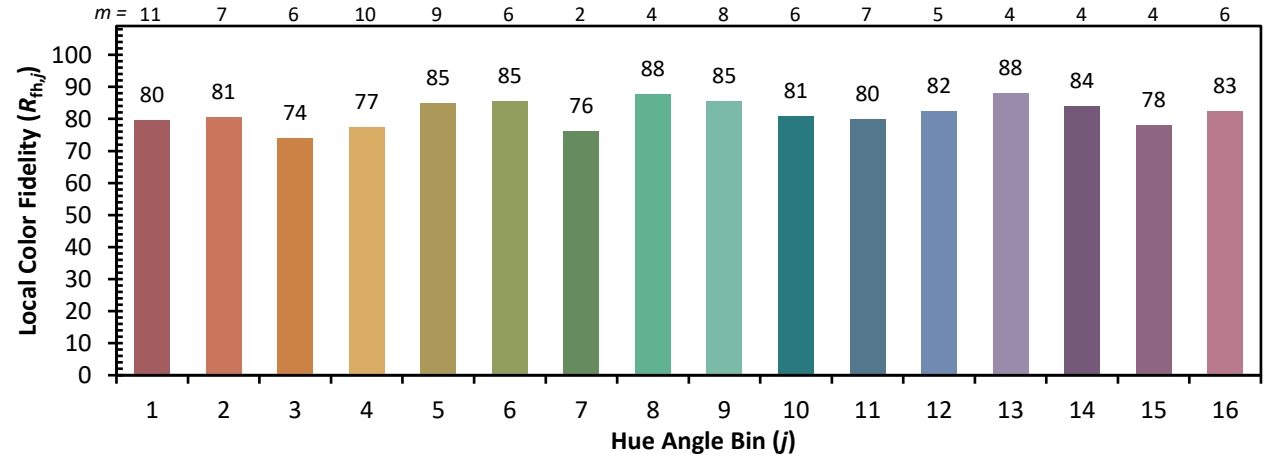
Color Rendition by Hue-Angle Bin







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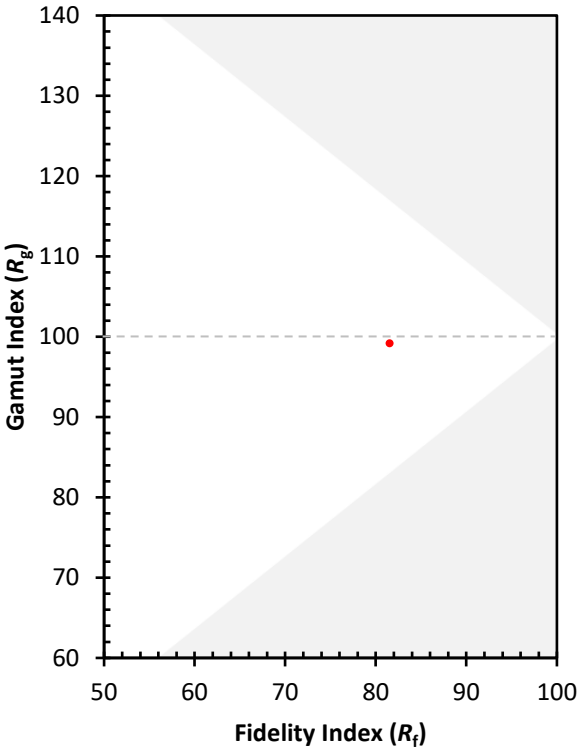
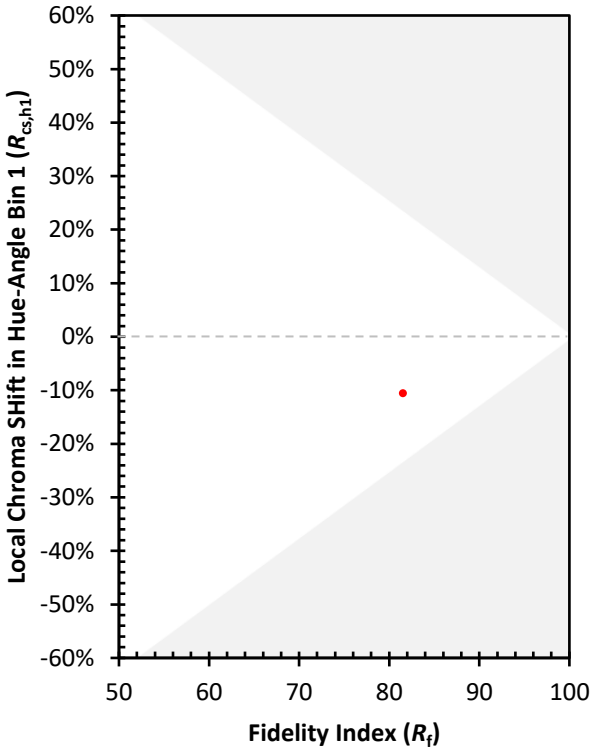
Measure Comparisons





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