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: P637497

Luminaire Tested: GWS-SA4C-830-U-T1-W

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:	P637497
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15392.2 lumens
Efficiency:	N/A
Efficacy:	119.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	128.5
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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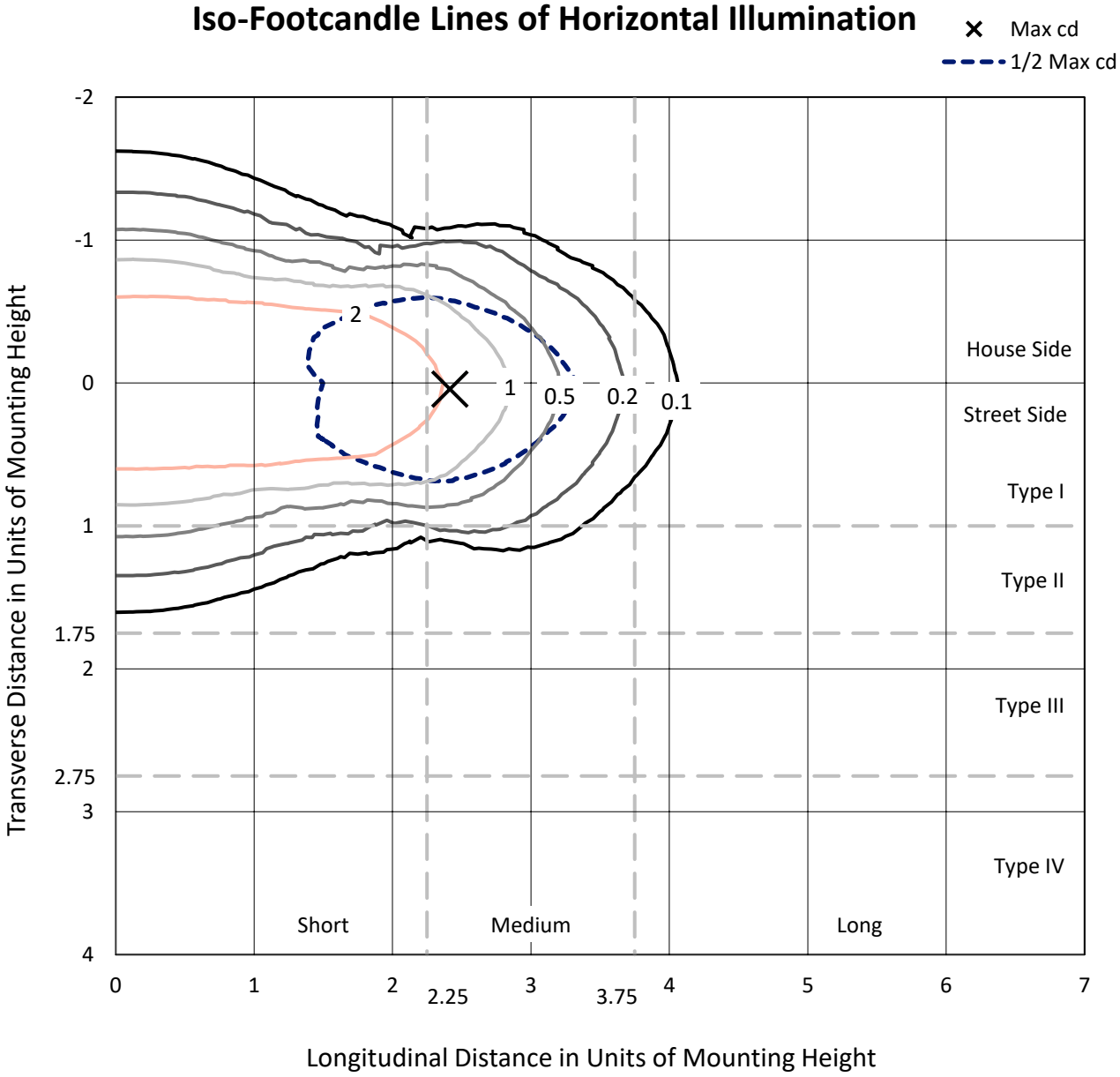
Scaled Data Report

REPORT NUMBER: P637497
CATALOG NUMBER: GWS-SA4C-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type I - Medium - N/A

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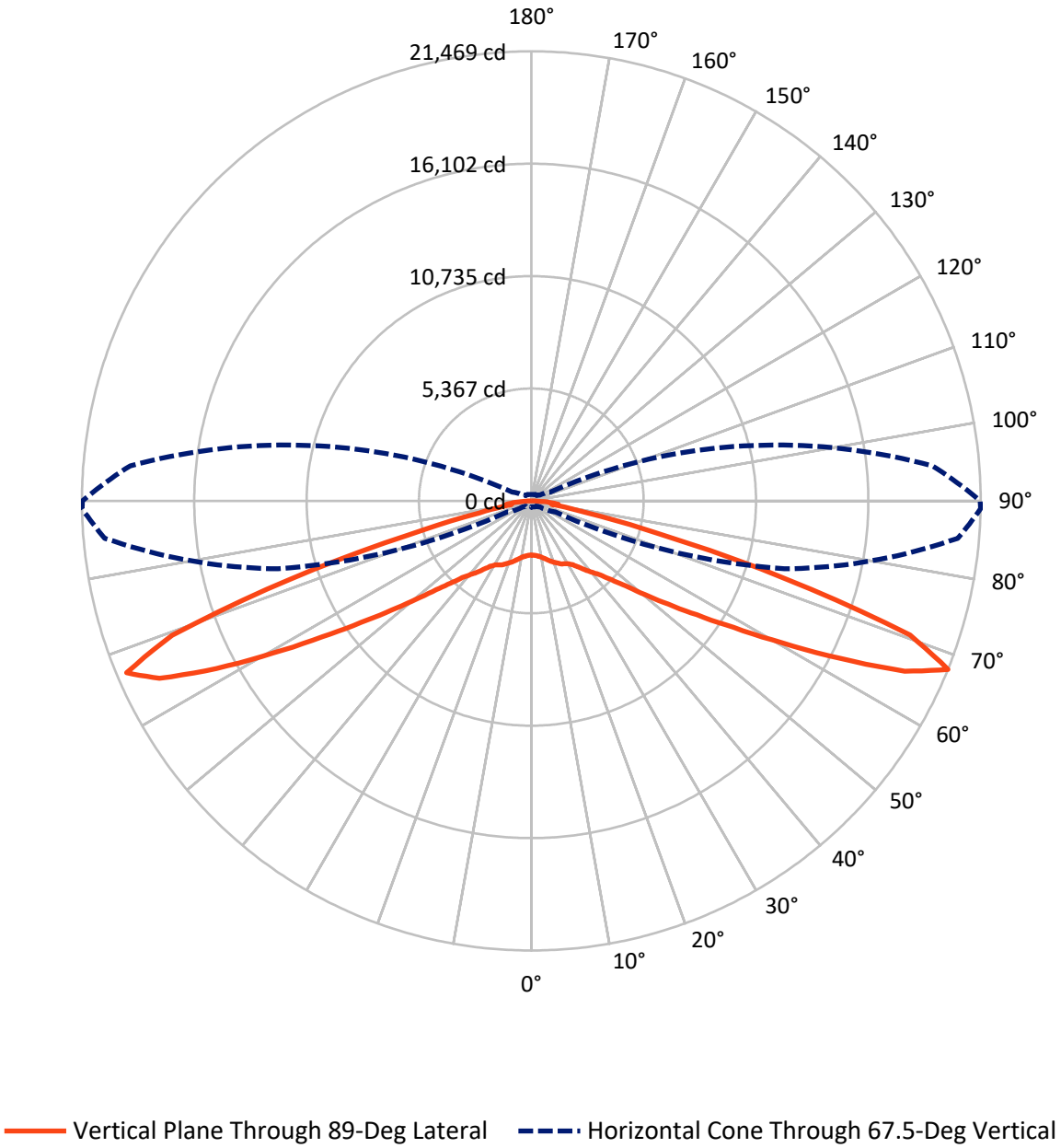
Luminous Intensity Polar Plot



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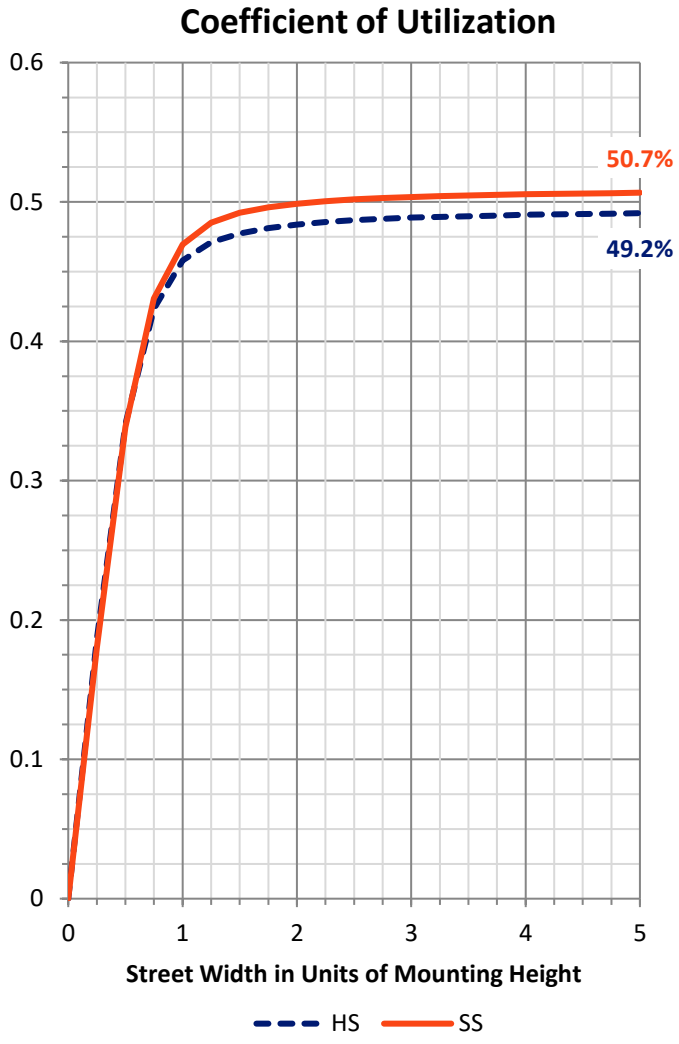
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7628.6	0.0	7628.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7763.5	0.0	7763.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	15392.2	0.0	15392.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.7
10°-20°	843.8	5.5
20°-30°	1426.4	9.3
30°-40°	1957.6	12.7
40°-50°	2496.3	16.2
50°-60°	3132.0	20.3
60°-70°	3777.5	24.5
70°-80°	1366.6	8.9
80°-90°	132.9	0.9
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°	15392.2	100.0
0°-180°	15392.2	100.0



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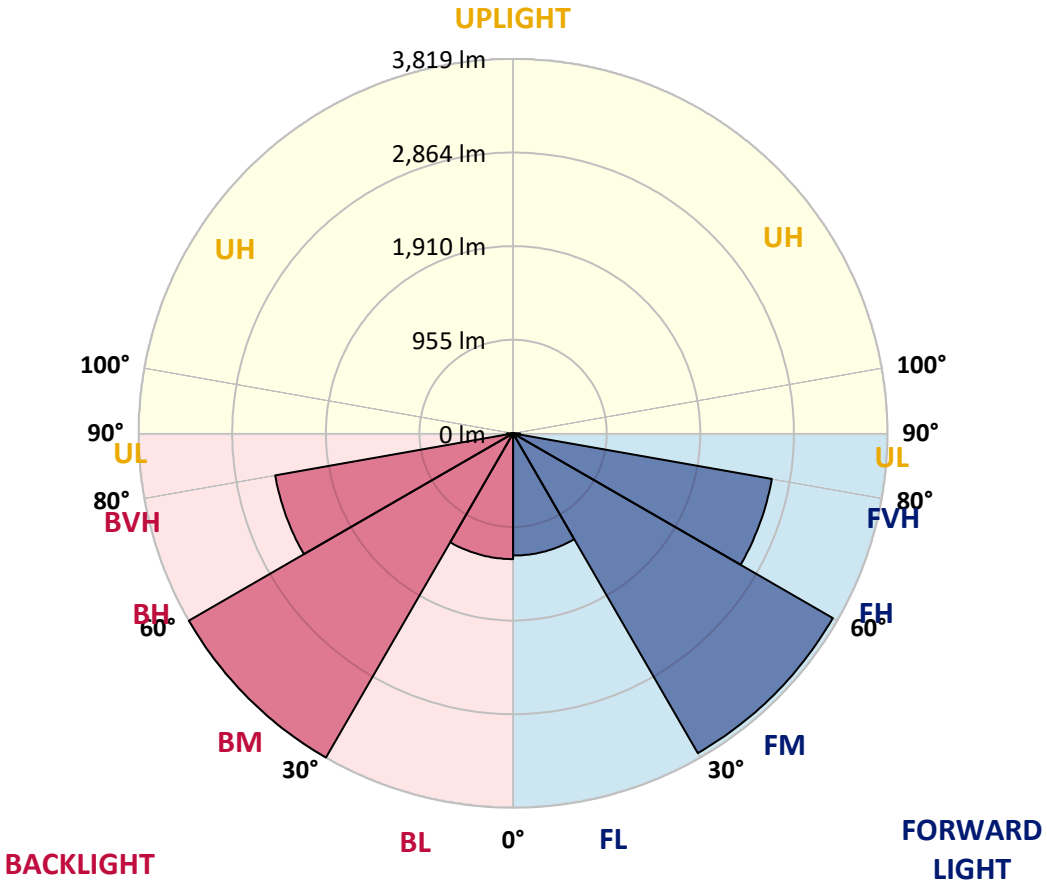
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1246.7	8.1			
FM	(30°-60°)	3766.8	24.5			
FH	(60°-80°)	2680.0	17.4			G2/5000
FVH	(80°-90°)	70.1	0.5			G1/100
BL	(0°-30°)	1282.7	8.3	B3/2500		
BM	(30°-60°)	3819.1	24.8	B3/5000		
BH	(60°-80°)	2464.0	16.0	B3/2500		G3/2500
BVH	(80°-90°)	62.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type I Medium



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Scaled Data Report

REPORT NUMBER: P637497
CATALOG NUMBER: GWS-SA4C-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	*2583.5*
2.5°	2591.2	2589.0	2583.5	2600.0	2596.7	2597.8	2604.5	2600.0	2592.3	2579.0	*2597.8*
5°	2664.2	2663.0	2650.9	2660.8	2649.8	2642.0	2640.9	2629.9	2621.0	2606.7	*2626.6*
7.5°	2734.9	2733.8	2723.9	2741.5	2732.7	2723.9	2713.9	2691.8	2670.8	2649.8	*2671.9*
10°	2789.1	2788.0	2785.8	2811.2	2813.4	2816.7	2812.3	2774.7	2738.2	2712.8	*2734.9*
12.5°	2820.0	2823.3	2828.9	2875.3	2898.5	2920.6	2926.1	2895.2	2834.4	2797.9	*2824.4*
15°	2799.0	2805.7	2833.3	2917.3	2981.4	3031.2	3052.2	3026.7	2948.3	2887.5	*2917.3*
17.5°	2698.4	2704.0	2758.1	2886.4	3027.9	3142.8	3177.1	3161.6	3074.3	3000.2	*3029.0*
20°	2559.1	2571.3	2629.9	2809.0	3020.1	3220.2	3312.0	3306.4	3211.4	3097.5	*3131.8*
22.5°	2433.1	2447.5	2509.4	2707.3	2968.2	3240.1	3447.9	3462.3	3336.3	3194.8	*3222.4*
25°	2291.6	2304.9	2384.5	2586.8	2878.6	3224.6	3564.0	3629.2	3477.8	3306.4	*3331.9*
27.5°	2146.8	2156.7	2235.2	2450.8	2761.4	3195.9	3655.8	3812.7	3617.1	3383.8	*3401.5*
30°	2019.7	2032.9	2104.8	2314.8	2633.2	3138.4	3730.9	4008.4	3777.4	3471.1	*3485.5*
32.5°	1897.0	1908.0	1986.5	2181.1	2497.2	3050.0	3798.4	4238.3	4015.0	3633.6	*3633.6*
35°	1742.2	1762.1	1850.5	2052.8	2369.0	2932.8	3847.0	4505.8	4340.0	3873.5	*3874.6*
37.5°	1599.6	1610.7	1703.5	1908.0	2234.1	2800.1	3851.4	4783.3	4751.3	4178.6	*4180.8*
40°	1437.1	1451.5	1551.0	1753.3	2079.4	2660.8	3809.4	5042.0	5182.4	4492.6	*4480.4*
42.5°	1272.4	1293.4	1388.5	1586.3	1912.4	2490.6	3697.8	5288.5	5729.6	4856.3	*4826.4*
45°	1113.2	1126.5	1221.5	1408.4	1721.2	2287.2	3518.7	5525.1	6379.6	5409.0	*5365.9*
47.5°	934.1	939.6	1038.0	1217.1	1523.3	2060.6	3262.2	5736.2	7093.7	6140.8	*6066.8*
50°	774.9	782.7	860.0	1013.7	1281.2	1791.9	2942.7	5860.0	8003.5	7139.1	*7010.8*
52.5°	626.8	634.5	696.4	819.1	1059.0	1485.7	2547.0	5831.3	8926.6	8378.3	*8191.4*
55°	506.3	511.8	553.8	650.0	833.5	1181.7	2079.4	5573.7	9951.3	9996.7	*9594.3*
57.5°	427.8	430.0	458.8	517.4	651.1	910.9	1605.1	4965.7	11025.8	12061.7	*11400.6*
60°	382.5	383.6	396.9	433.3	514.0	695.3	1176.2	3997.3	12139.0	14645.1	*13738.6*
62.5°	353.7	353.7	364.8	385.8	426.7	535.0	864.5	2870.9	12938.3	17456.3	*16555.3*
65°	326.1	326.1	333.8	351.5	373.6	436.7	648.9	1851.6	13330.7	19806.5	*19606.4*
67.5°	*290.7*	*291.8*	*297.4*	*316.2*	*336.1*	*364.8*	*491.9*	*1252.5*	*12516.0*	*20456.5*	*21469.1*
70°	257.6	258.7	266.4	278.6	295.2	315.1	384.7	863.4	9110.1	17037.3	*19196.3*
72.5°	221.1	225.5	231.0	244.3	254.3	268.6	314.0	559.4	5300.7	10959.5	*12689.6*
75°	181.3	186.8	193.5	206.7	213.4	218.9	258.7	399.1	2550.3	5553.8	*6324.3*
77.5°	140.4	145.9	153.7	165.8	170.2	176.9	197.9	288.5	1221.5	2461.9	*2654.2*
80°	94.0	96.2	102.8	117.2	124.9	129.3	145.9	196.8	530.6	988.3	*979.4*
82.5°	57.5	58.6	60.8	69.6	73.0	77.4	95.1	120.5	253.2	1123.1	*1287.9*
85°	21.0	19.9	18.8	24.3	28.7	33.2	44.2	60.8	110.5	771.6	*863.4*
87.5°	0.0	0.0	0.0	1.1	2.2	2.2	4.4	8.8	26.5	288.5	*197.9*
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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Scaled Data Report

REPORT NUMBER: P637497
CATALOG NUMBER: GWS-SA4C-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5
2.5°	2592.3	2580.1	2595.6	2606.7	2631.0	2639.8	2642.0	2634.3	2634.3	2621.0	2623.3
5°	2622.1	2614.4	2639.8	2658.6	2694.0	2707.3	2716.1	2710.6	2713.9	2705.1	2707.3
7.5°	2667.5	2660.8	2705.1	2741.5	2778.0	2793.5	2801.2	2796.8	2797.9	2786.9	2790.2
10°	2730.5	2732.7	2785.8	2833.3	2881.9	2897.4	2900.7	2887.5	2876.4	2856.5	2857.6
12.5°	2816.7	2827.8	2902.9	2956.0	3005.7	3027.9	3003.5	2954.9	2909.6	2875.3	2870.9
15°	2910.7	2930.6	3038.9	3106.3	3160.5	3149.5	3077.6	2968.2	2878.6	2827.8	2817.8
17.5°	3023.4	3053.3	3189.2	3269.9	3316.4	3245.6	3095.3	2931.7	2806.8	2738.2	2725.0
20°	3129.6	3177.1	3348.4	3453.5	3459.0	3299.8	3087.5	2857.6	2700.6	2616.6	2598.9
22.5°	3226.8	3287.6	3515.4	3649.1	3577.3	3324.1	3040.0	2752.6	2572.4	2474.0	2458.5
25°	3333.0	3419.2	3709.9	3834.8	3695.5	3314.2	2940.5	2622.1	2417.6	2317.0	2306.0
27.5°	3405.9	3514.3	3905.6	4025.0	3792.8	3257.8	2812.3	2479.5	2276.1	2181.1	2165.6
30°	3489.9	3628.1	4121.1	4231.7	3852.5	3174.9	2675.2	2346.9	2144.6	2041.8	2030.7
32.5°	3642.5	3816.0	4388.7	4450.6	3871.3	3072.1	2543.7	2218.7	2007.5	1904.7	1889.2
35°	3887.9	4091.3	4764.5	4694.9	3856.9	2959.3	2418.7	2068.3	1867.1	1770.9	1755.5
37.5°	4197.4	4450.6	5183.5	4914.9	3817.1	2835.5	2270.6	1942.3	1741.1	1643.8	1635.0
40°	4486.0	4797.7	5653.3	5105.0	3736.5	2682.9	2128.0	1810.7	1605.1	1502.3	1482.4
42.5°	4847.4	5262.0	6197.2	5269.7	3603.8	2500.5	1967.7	1648.2	1434.9	1342.0	1317.7
45°	5396.8	5912.0	6829.5	5427.8	3405.9	2276.1	1766.5	1450.4	1248.1	1153.0	1134.2
47.5°	6082.2	6724.5	7514.9	5521.8	3105.2	2039.6	1538.8	1241.4	1039.1	931.9	923.1
50°	7045.1	7906.2	8250.0	5505.2	2769.2	1758.8	1282.3	992.7	823.6	746.2	734.0
52.5°	8218.0	9389.8	9044.9	5306.2	2412.1	1439.3	999.3	779.3	653.3	598.1	588.1
55°	9689.3	11166.2	9881.7	4879.5	1961.1	1102.1	784.9	614.6	528.4	495.2	490.8
57.5°	11511.1	13466.7	10687.6	4160.9	1474.7	841.3	604.7	507.4	466.5	446.6	445.5
60°	13915.5	15908.7	11387.3	3233.5	1055.7	643.4	499.7	453.2	421.2	407.9	406.8
62.5°	16774.2	18126.2	11822.9	2202.1	793.7	512.9	440.0	411.2	392.4	384.7	383.6
65°	19712.5	19527.9	11615.1	1442.6	602.5	435.6	394.6	379.2	362.6	354.9	354.9
67.5°	*21448.1*	*19231.7*	*10019.9*	*1001.5*	*477.6*	*382.5*	*356.0*	*341.6*	*314.0*	*307.3*	*307.3*
70°	18997.3	15583.7	6567.5	732.9	386.9	335.0	309.5	289.6	278.6	271.9	270.8
72.5°	12564.6	10140.4	3492.1	508.5	322.8	285.2	262.0	254.3	241.0	234.4	233.3
75°	6253.6	5326.1	1789.7	367.0	268.6	228.8	218.9	215.6	204.5	195.7	193.5
77.5°	2606.7	2371.2	834.6	266.4	204.5	184.6	175.8	175.8	163.6	153.7	149.2
80°	982.8	875.5	394.6	182.4	151.4	137.1	131.5	127.1	117.2	105.0	98.4
82.5°	1314.4	858.9	193.5	113.9	99.5	88.4	80.7	77.4	71.9	66.3	61.9
85°	851.2	610.2	87.3	58.6	49.7	37.6	33.2	31.0	27.6	24.3	22.1
87.5°	173.6	204.5	26.5	11.1	6.6	3.3	3.3	1.1	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

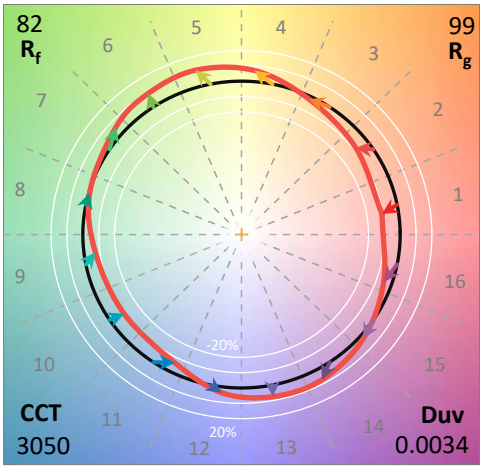
Test Information

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

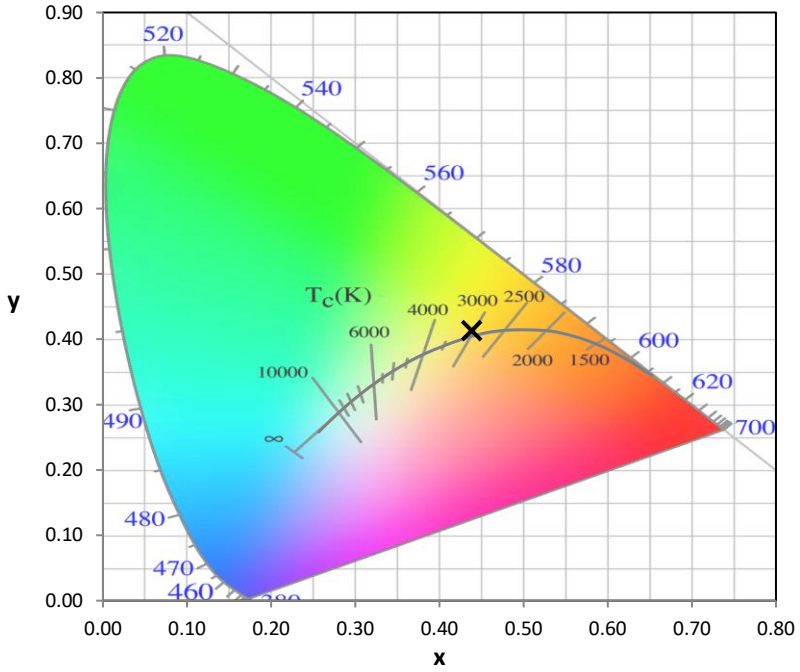
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

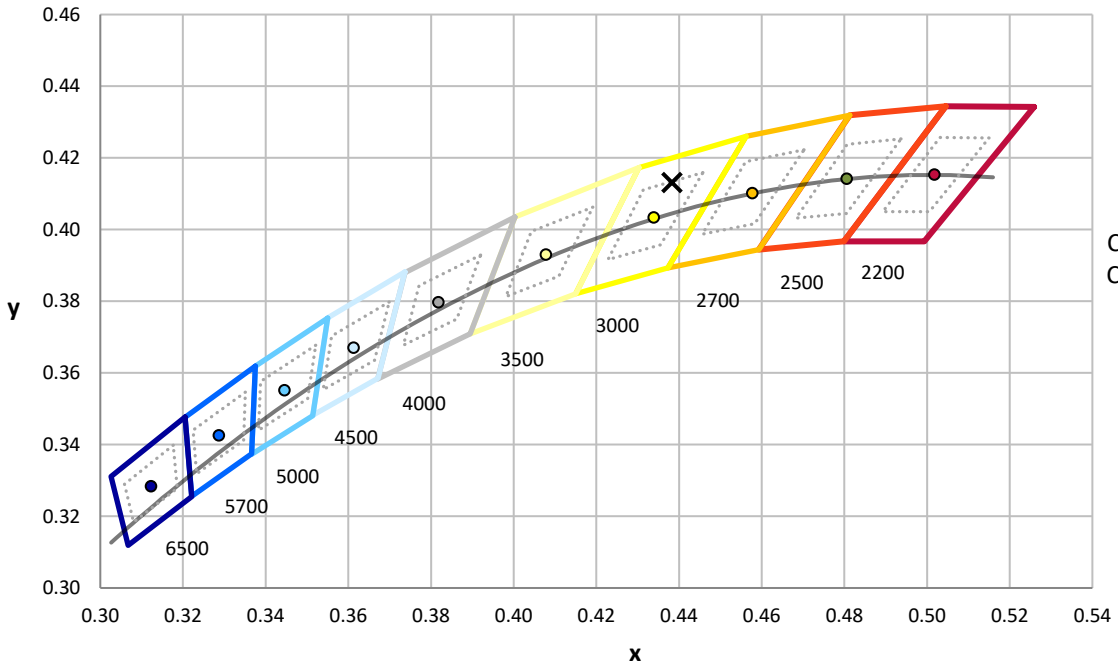
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

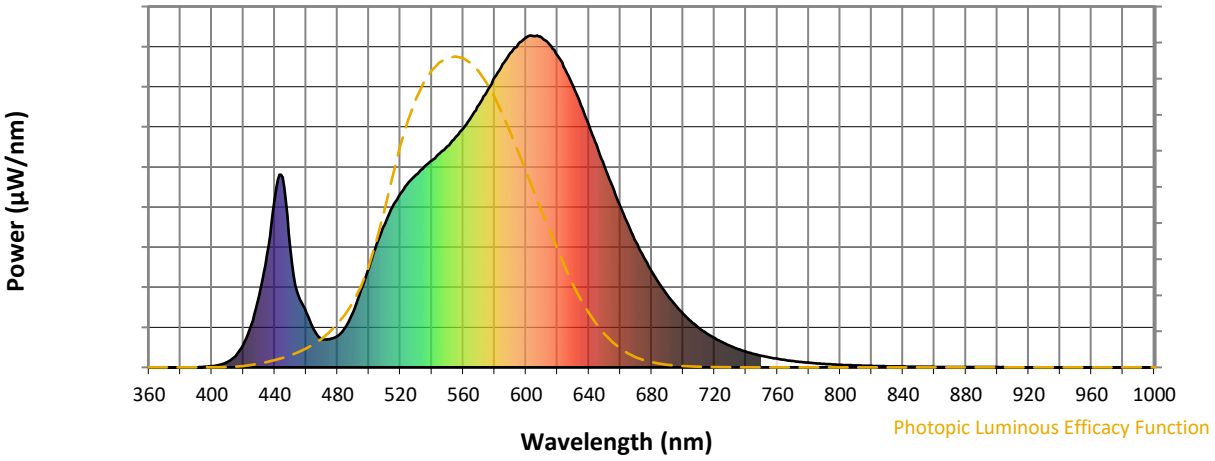


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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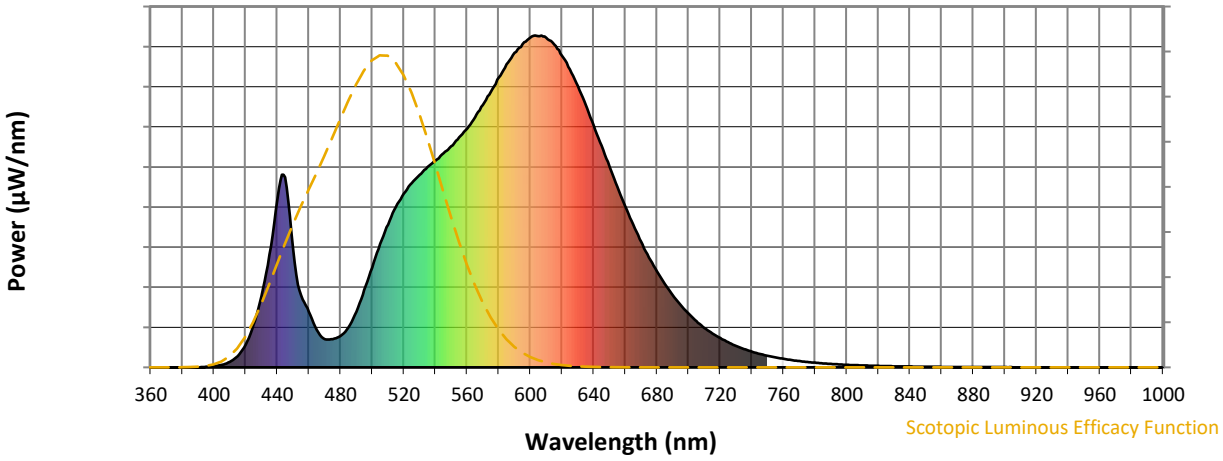
Scotopic Flux vs. Wavelength



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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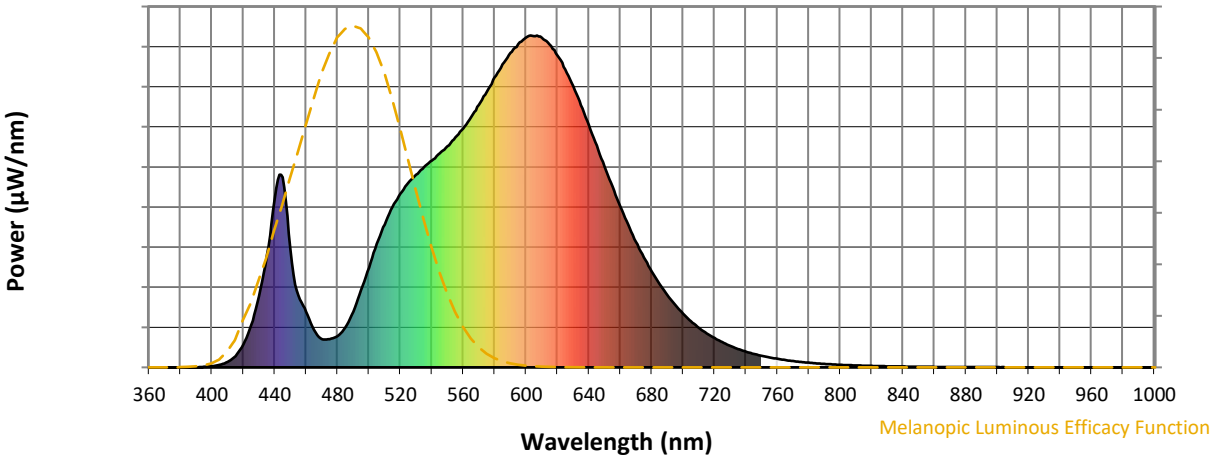
Melanopic Flux vs. Wavelength



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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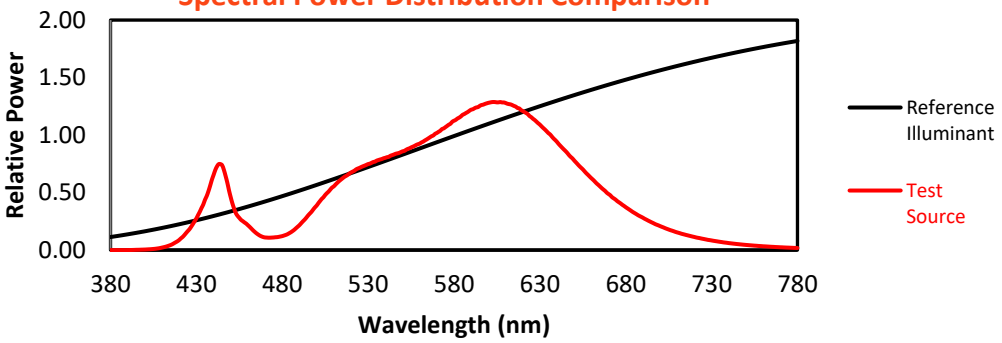
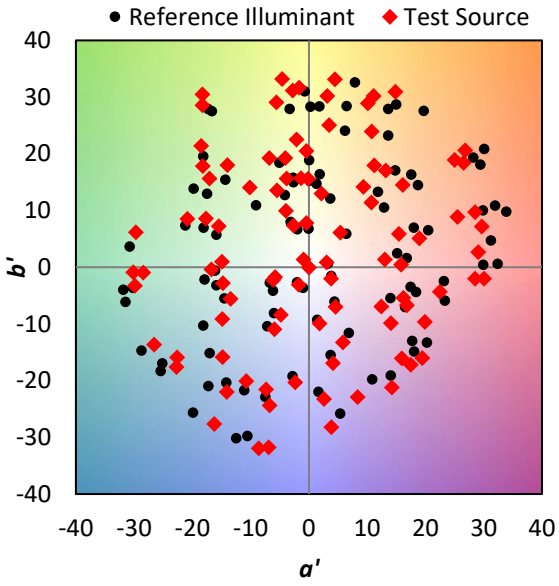
Summary

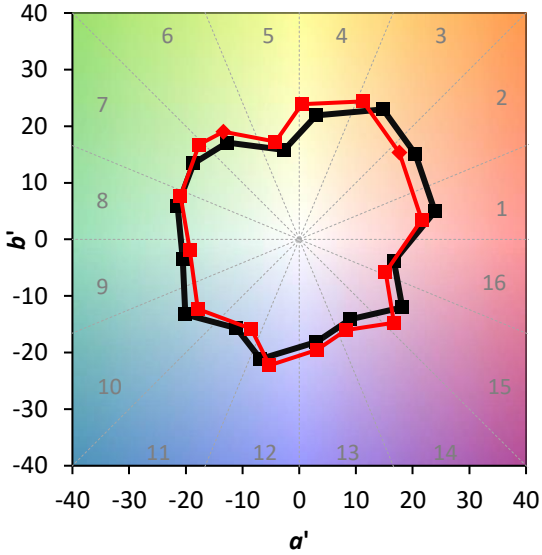
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

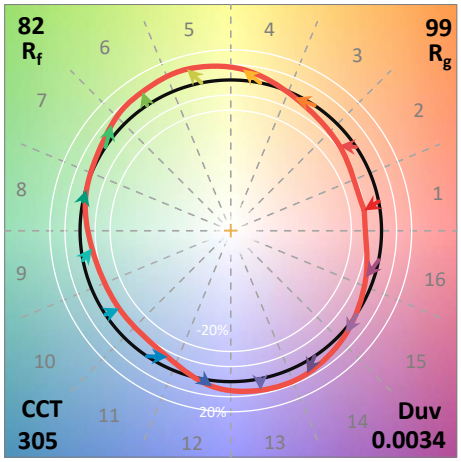
Spectral Power Distribution Comparison

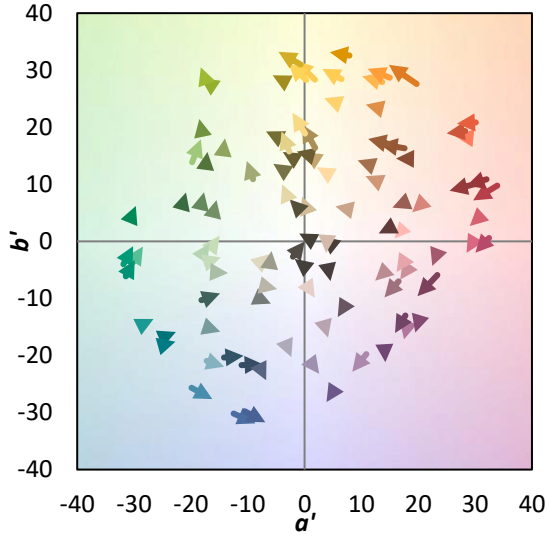


Color Vector Graphics









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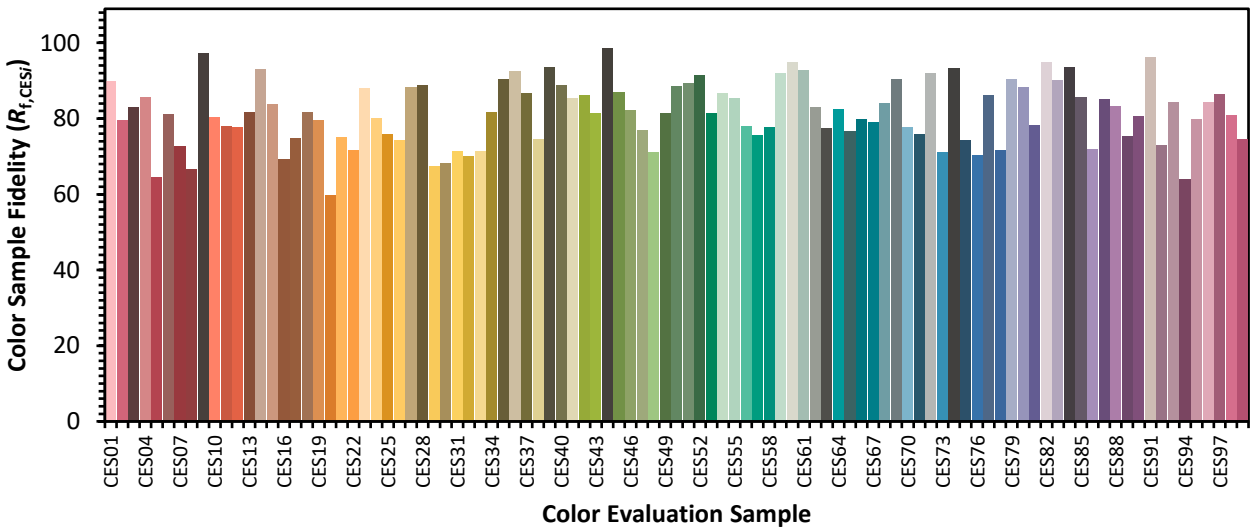
Individual Sample Fidelity Index ($R_{f,i}$)

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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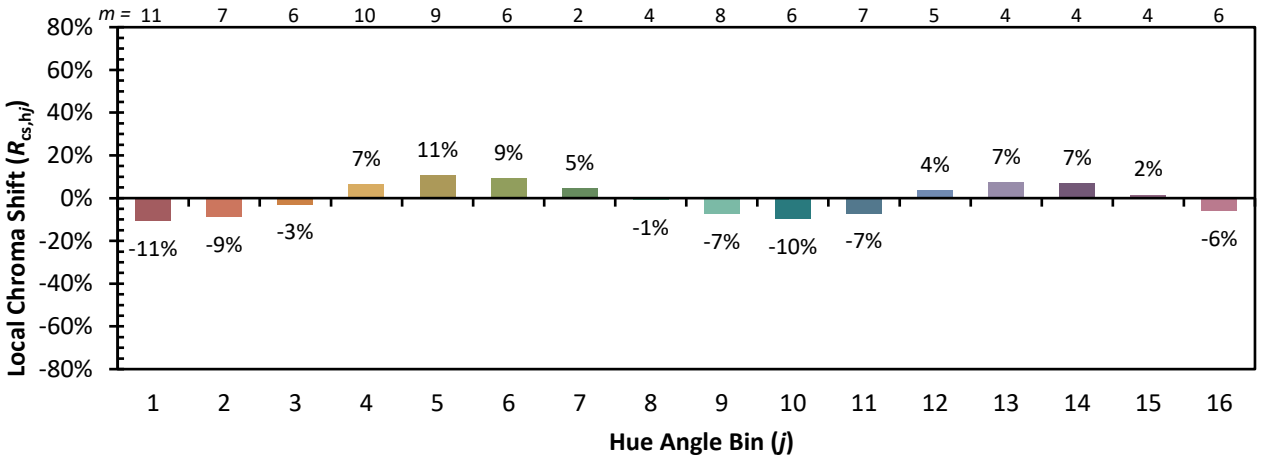
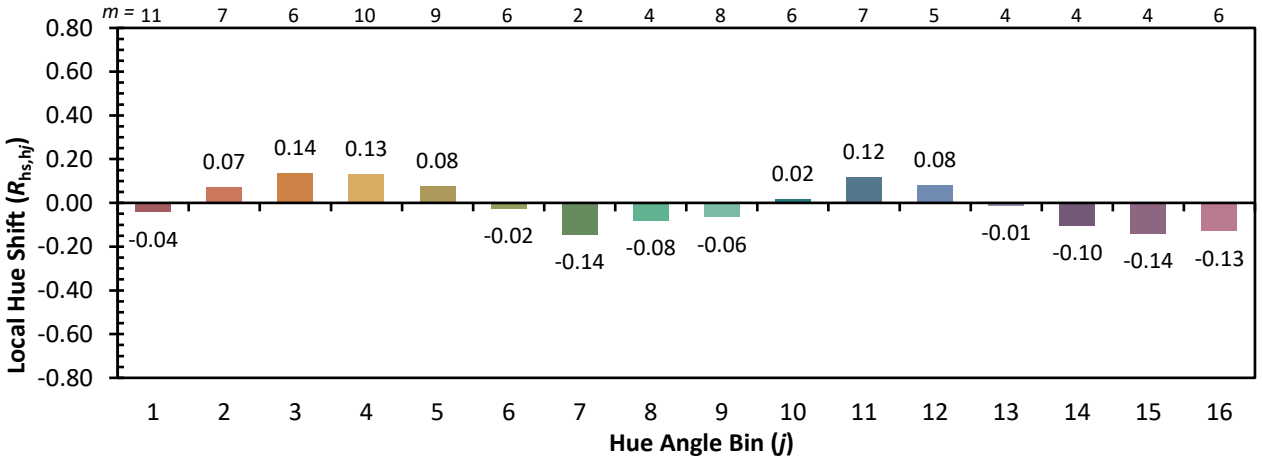
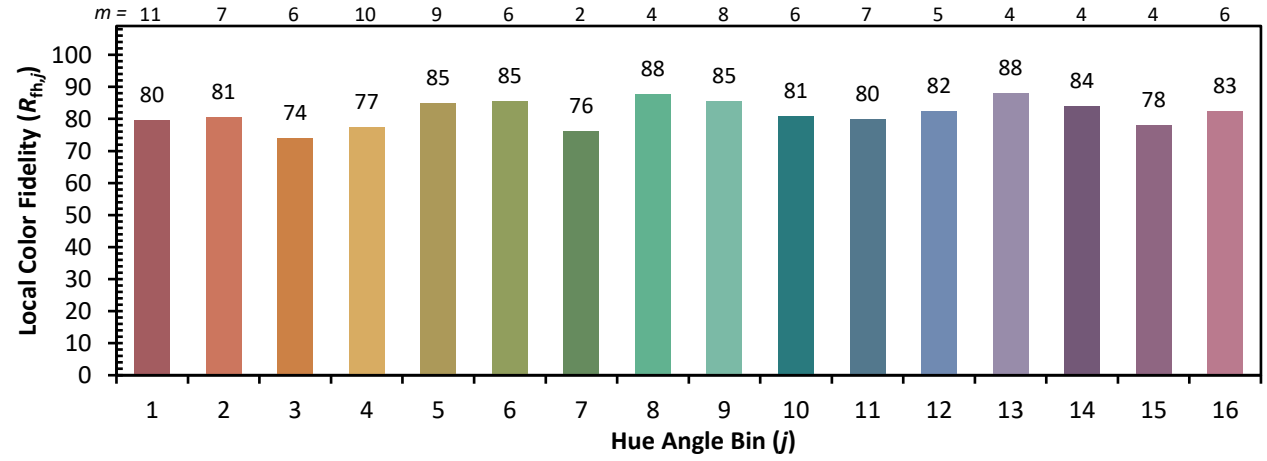
Color Rendition by Hue-Angle Bin







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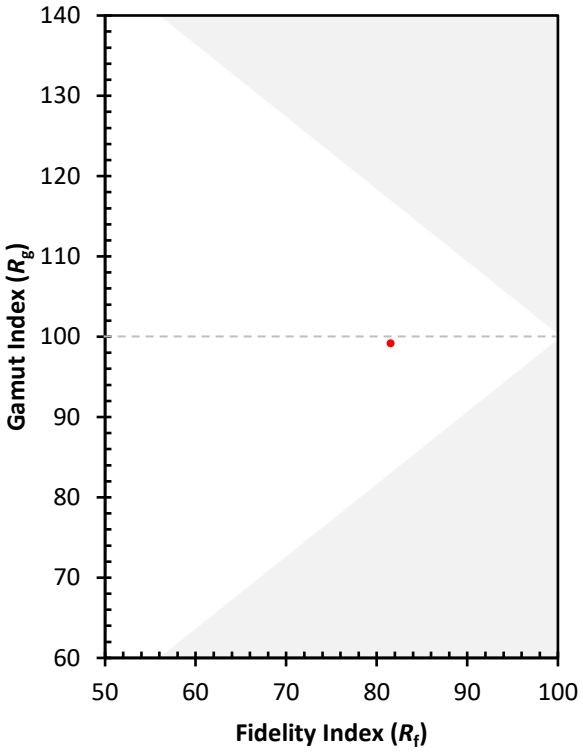
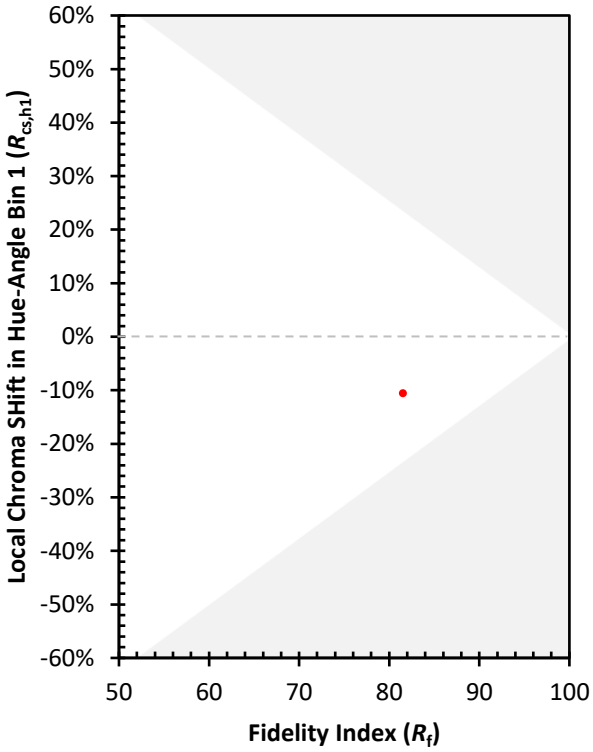
Measure Comparisons





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