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: P642462

Luminaire Tested: GWS-SA6C-830-U-T3R-W-HSS

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:	P642462
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17657.7 lumens
Efficiency:	N/A
Efficacy:	93.3 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	189.2
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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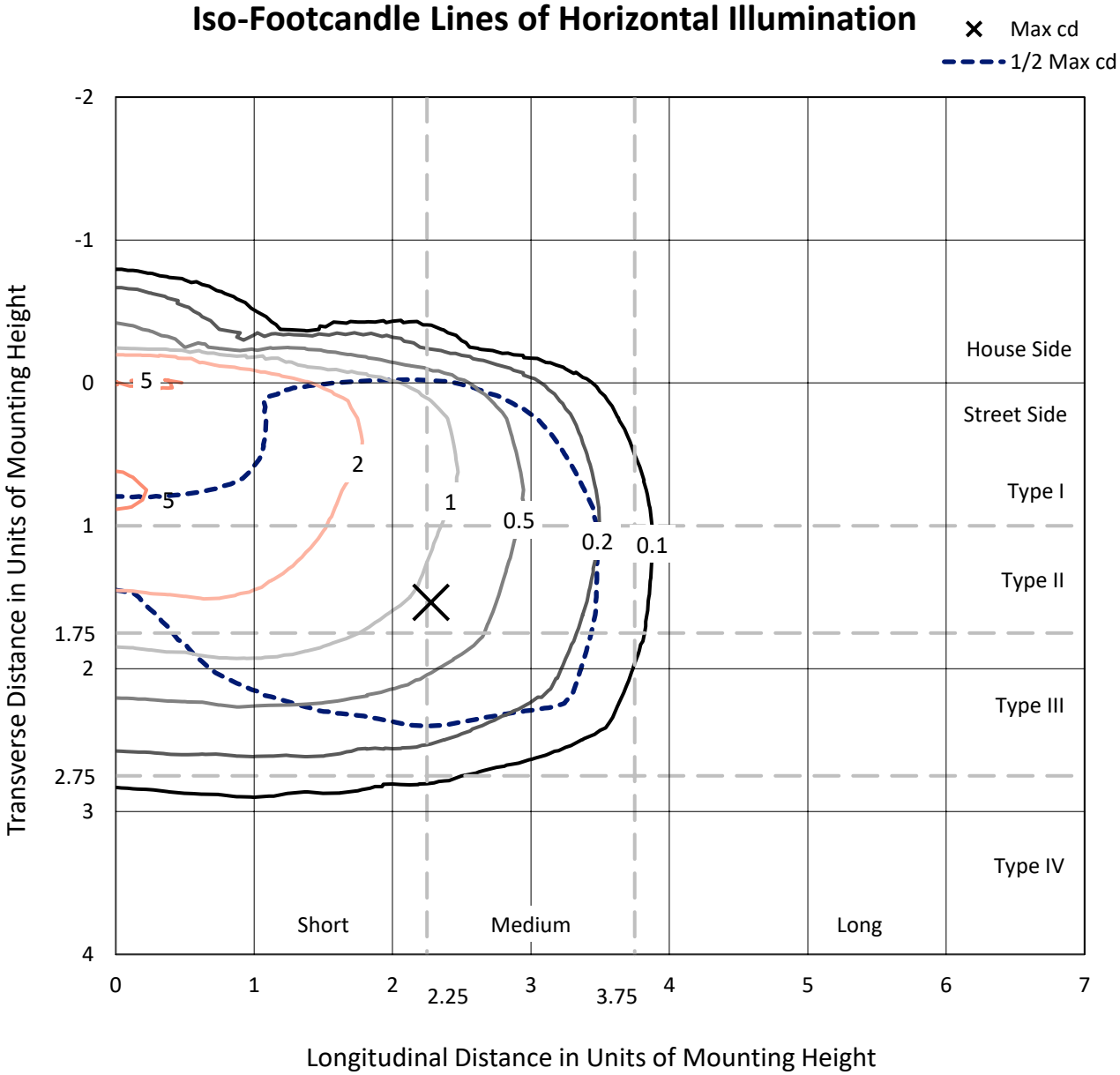
REPORT NUMBER: P642462
CATALOG NUMBER: GWS-SA6C-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Medium - N/A

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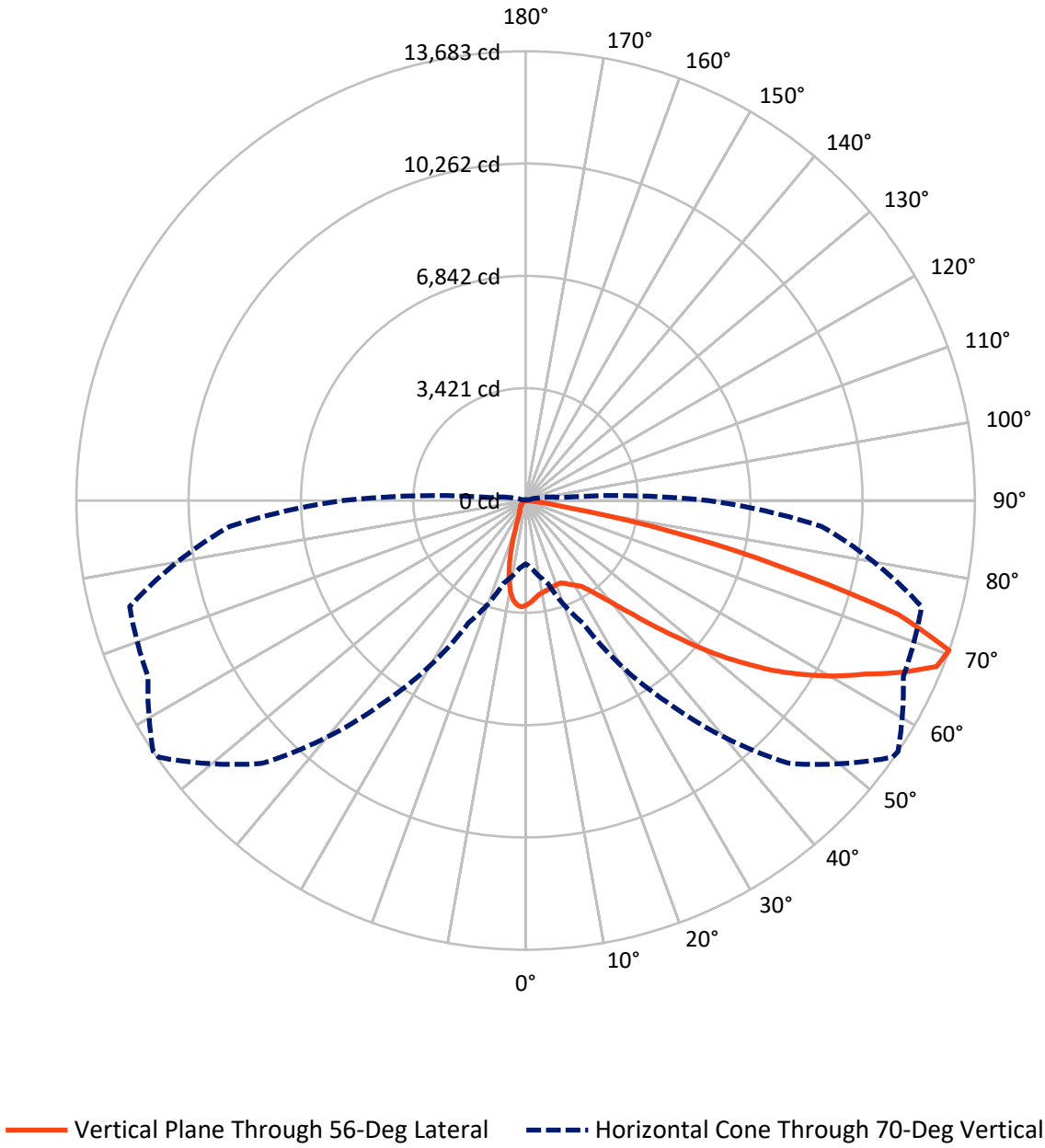
Luminous Intensity Polar Plot



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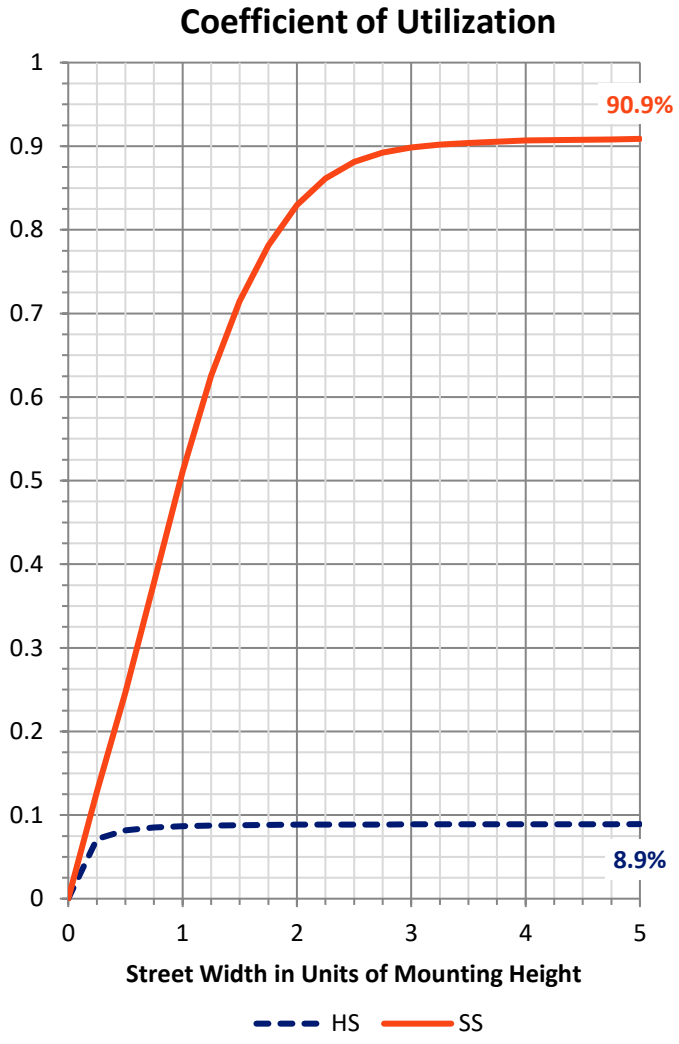
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.0	0.0	1586.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	16071.7	0.0	16071.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	17657.7	0.0	17657.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	1.5
10°-20°	614.8	3.5
20°-30°	973.9	5.5
30°-40°	1679.5	9.5
40°-50°	2836.0	16.1
50°-60°	4167.0	23.6
60°-70°	4940.3	28.0
70°-80°	2106.7	11.9
80°-90°	66.2	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°	17657.7	100.0
0°-180°	17657.7	100.0



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REPORT NUMBER: P642462
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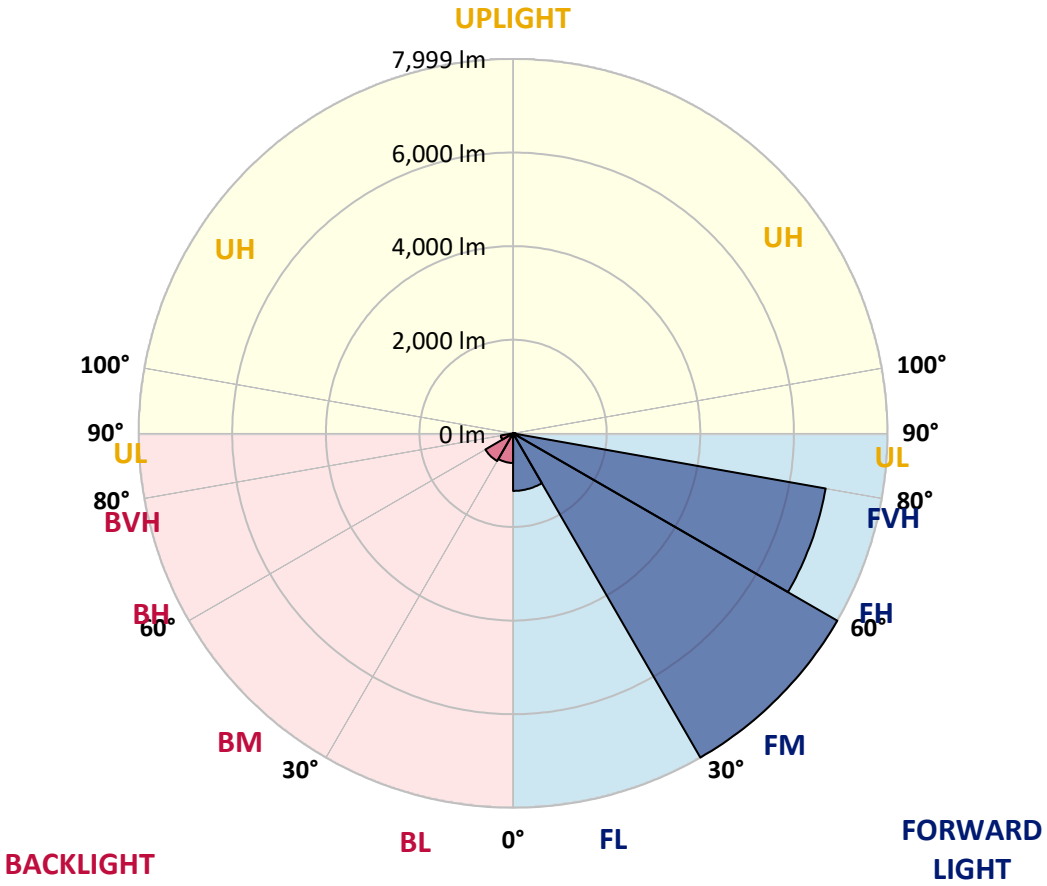
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1230.4	7.0			
FM	(30°-60°)	7999.4	45.3			
FH	(60°-80°)	6782.4	38.4			G3/7500
FVH	(80°-90°)	59.4	0.3			G1/100
BL	(0°-30°)	631.6	3.6	B2/1000		
BM	(30°-60°)	683.1	3.9	B1/1000		
BH	(60°-80°)	264.5	1.5	B1/500		G1/500
BVH	(80°-90°)	6.7	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-G3
Type III Medium



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Scaled Data Report

REPORT NUMBER: P642462
CATALOG NUMBER: GWS-SA6C-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9
2.5°	2963.9	2959.1	2962.3	2986.6	3031.9	3052.9	3088.5	3094.9	3124.0	3161.2	3175.8
5°	2771.5	2755.4	2763.4	2797.4	2849.1	2907.4	2973.7	2991.4	3064.2	3146.7	3208.1
7.5°	2595.3	2577.5	2596.9	2650.3	2723.0	2786.1	2884.7	2896.0	3012.5	3158.0	3269.6
10°	2318.8	2323.6	2362.4	2456.2	2567.8	2698.8	2831.4	2847.5	2991.4	3195.2	3368.2
12.5°	2106.9	2095.6	2137.7	2244.4	2401.2	2592.0	2790.9	2812.0	2993.1	3251.8	3494.3
15°	2008.3	2005.1	2022.9	2100.5	2252.5	2477.2	2753.7	2781.2	3014.1	3303.5	3614.0
17.5°	2011.5	2006.7	2005.1	2050.3	2163.5	2391.5	2713.3	2748.9	3031.9	3360.1	3740.1
20°	2152.2	2129.6	2089.2	2068.1	2136.0	2336.6	2685.8	2726.3	3057.7	3419.9	3874.3
22.5°	2446.5	2454.6	2346.3	2233.1	2200.7	2343.0	2682.6	2729.5	3114.3	3513.7	4039.3
25°	3035.1	3022.2	2821.7	2567.8	2391.5	2417.4	2739.2	2795.8	3225.9	3647.9	4194.5
27.5°	3772.4	3783.8	3508.9	3104.6	2736.0	2571.0	2842.7	2899.3	3355.3	3732.0	4298.0
30°	4576.1	4564.8	4270.5	3822.6	3224.3	2826.5	2946.2	2996.3	3419.9	3777.3	4404.7
32.5°	5336.1	5310.2	5019.1	4550.2	3846.8	3229.1	3088.5	3117.6	3505.6	3875.9	4548.6
35°	5984.5	5982.9	5729.0	5229.4	4487.2	3733.6	3332.6	3356.9	3665.7	4032.8	4760.4
37.5°	6653.9	6631.3	6346.7	5890.7	5145.3	4286.7	3706.2	3696.4	3918.0	4264.0	5020.8
40°	7203.7	7189.2	6970.9	6532.7	5829.3	4897.9	4158.9	4129.8	4217.1	4584.2	5383.0
42.5°	7611.2	7612.8	7544.9	7278.1	6553.7	5604.5	4728.1	4682.8	4681.2	5067.7	5861.6
45°	7920.0	7941.1	8042.9	8002.5	7409.1	6427.6	5457.4	5410.5	5331.2	5695.1	6409.8
47.5°	8063.9	8091.4	8398.7	8560.4	8157.7	7244.1	6325.7	6227.0	6071.8	6529.4	7022.6
50°	8049.4	8097.9	8526.4	9018.0	8836.9	8072.0	7271.6	7224.7	6970.9	7412.3	7629.0
52.5°	7719.5	7823.0	8534.5	9296.1	9359.2	8835.3	8249.9	8162.6	8039.7	8334.0	8198.2
55°	6823.7	6949.8	8193.3	9385.0	9766.6	9501.5	9207.2	9136.0	8932.3	9203.9	8694.6
57.5°	6337.0	6445.3	7475.4	9341.4	10112.7	10117.5	10059.3	10001.1	9832.9	10064.2	9276.7
60°	6044.3	6152.7	7092.1	9181.3	10426.4	10767.6	10859.7	10853.3	10610.7	11042.5	9959.1
62.5°	5615.8	5764.6	6692.7	8765.7	10649.5	11407.9	11686.0	11642.4	11372.3	12061.2	10635.0
65°	4750.7	4880.1	5874.5	8080.1	10518.5	11938.3	12581.8	12604.5	12292.4	13020.0	11168.6
67.5°	3331.0	3426.4	4414.4	6641.0	9629.2	12112.9	13498.7	13497.0	12965.1	13511.6	10932.5
70°	1930.7	2061.7	2608.2	4105.5	7491.5	11319.0	13636.1	13683.0	12691.8	12484.8	9047.1
72.5°	747.1	855.4	1477.9	2181.3	3906.7	8670.3	11729.7	11867.1	10622.0	9630.8	6296.6
75°	223.1	249.0	695.3	1161.0	1568.5	4188.0	7941.1	7979.9	7286.2	6007.1	3227.5
77.5°	166.6	184.3	304.0	587.0	549.8	1269.3	4108.8	4487.2	3867.8	2145.8	889.3
80°	113.2	134.2	216.7	286.2	203.7	338.0	1154.5	1267.7	1180.4	481.9	223.1
82.5°	50.1	64.7	153.6	143.9	74.4	97.0	355.7	378.4	244.2	145.5	77.6
85°	4.9	6.5	58.2	63.1	27.5	22.6	74.4	74.4	53.4	50.1	32.3
87.5°	0.0	0.0	1.6	3.2	3.2	4.9	6.5	8.1	9.7	12.9	16.2
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: P642462
CATALOG NUMBER: GWS-SA6C-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9	3183.9
2.5°	3213.0	3193.6	3217.8	3237.2	3242.1	3206.5	3185.5	3154.8	3148.3	3149.9	3141.8
5°	3256.6	3246.9	3264.7	3243.7	3188.7	3085.2	2996.3	2897.7	2844.3	2813.6	2810.3
7.5°	3337.5	3332.6	3313.2	3217.8	3046.4	2816.8	2595.3	2378.6	2244.4	2195.9	2187.8
10°	3457.1	3447.4	3368.2	3141.8	2776.4	2334.9	1963.0	1652.6	1463.4	1408.4	1340.5
12.5°	3594.6	3575.2	3402.2	2978.5	2368.9	1757.7	1293.6	945.9	782.6	734.1	734.1
15°	3727.2	3685.1	3382.8	2708.5	1867.6	1143.2	722.8	546.5	496.4	483.5	483.5
17.5°	3863.0	3782.1	3306.8	2339.8	1290.4	675.9	481.9	447.9	441.4	443.1	444.7
20°	3990.7	3864.6	3172.5	1896.7	823.0	472.2	431.7	423.7	420.4	423.7	422.0
22.5°	4129.8	3940.6	2968.8	1413.3	535.2	425.3	410.7	404.2	401.0	405.9	405.9
25°	4267.2	3995.6	2698.8	950.8	425.3	396.2	388.1	381.6	378.4	380.0	380.0
27.5°	4338.4	3974.6	2344.6	606.4	381.6	367.1	359.0	350.9	346.0	344.4	346.0
30°	4386.9	3909.9	1911.3	431.7	346.0	328.2	320.2	313.7	300.8	292.7	295.9
32.5°	4462.9	3845.2	1440.7	362.2	316.9	289.4	276.5	260.3	242.5	234.5	234.5
35°	4553.5	3756.3	1010.6	326.6	286.2	257.1	232.8	205.4	184.3	177.9	177.9
37.5°	4673.1	3672.2	672.7	302.4	260.3	229.6	195.7	163.3	140.7	137.4	135.8
40°	4852.6	3601.0	473.8	284.6	237.7	200.5	160.1	126.1	110.0	105.1	105.1
42.5°	5085.4	3528.3	375.1	266.8	218.3	173.0	127.7	100.3	87.3	84.1	82.5
45°	5373.3	3442.6	326.6	250.6	198.9	143.9	101.9	84.1	74.4	71.1	71.1
47.5°	5685.4	3326.2	304.0	229.6	176.3	116.4	85.7	72.8	67.9	66.3	64.7
50°	5992.6	3169.3	284.6	210.2	150.4	95.4	74.4	66.3	63.1	61.4	61.4
52.5°	6261.0	2986.6	260.3	187.6	122.9	82.5	66.3	61.4	58.2	55.0	53.4
55°	6490.6	2787.7	229.6	161.7	100.3	72.8	61.4	56.6	53.4	50.1	48.5
57.5°	6786.5	2674.5	184.3	131.0	82.5	64.7	56.6	51.7	48.5	43.7	43.7
60°	7114.8	2592.0	137.4	103.5	71.1	59.8	51.7	46.9	43.7	38.8	38.8
62.5°	7378.3	2469.1	108.3	84.1	61.4	53.4	46.9	42.0	38.8	34.0	34.0
65°	7478.6	2215.3	88.9	66.3	50.1	46.9	42.0	38.8	34.0	29.1	29.1
67.5°	7025.8	1707.5	74.4	53.4	42.0	40.4	37.2	35.6	29.1	25.9	24.3
70°	*5564.1*	*1041.3*	*61.4*	*43.7*	*35.6*	*34.0*	*34.0*	*30.7*	*25.9*	*24.3*	*22.6*
72.5°	3812.9	536.8	50.1	35.6	30.7	30.7	29.1	27.5	24.3	22.6	22.6
75°	1980.8	179.5	38.8	27.5	24.3	25.9	25.9	24.3	22.6	22.6	21.0
77.5°	567.6	80.8	29.1	21.0	19.4	19.4	21.0	21.0	21.0	19.4	19.4
80°	147.1	46.9	21.0	16.2	16.2	16.2	16.2	17.8	19.4	17.8	17.8
82.5°	59.8	25.9	14.6	12.9	12.9	12.9	12.9	14.6	16.2	16.2	16.2
85°	37.2	12.9	11.3	11.3	11.3	9.7	9.7	11.3	11.3	12.9	12.9
87.5°	22.6	9.7	9.7	9.7	9.7	8.1	8.1	8.1	8.1	8.1	8.1
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

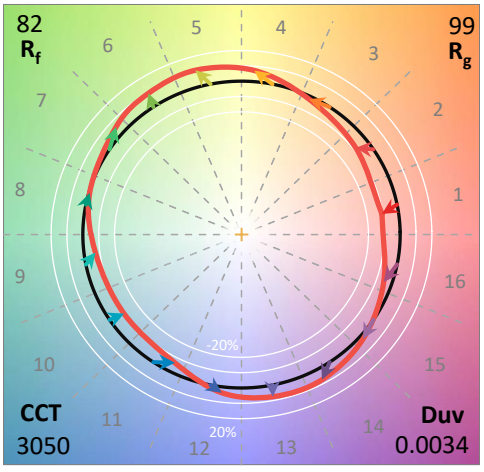
Test Information

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

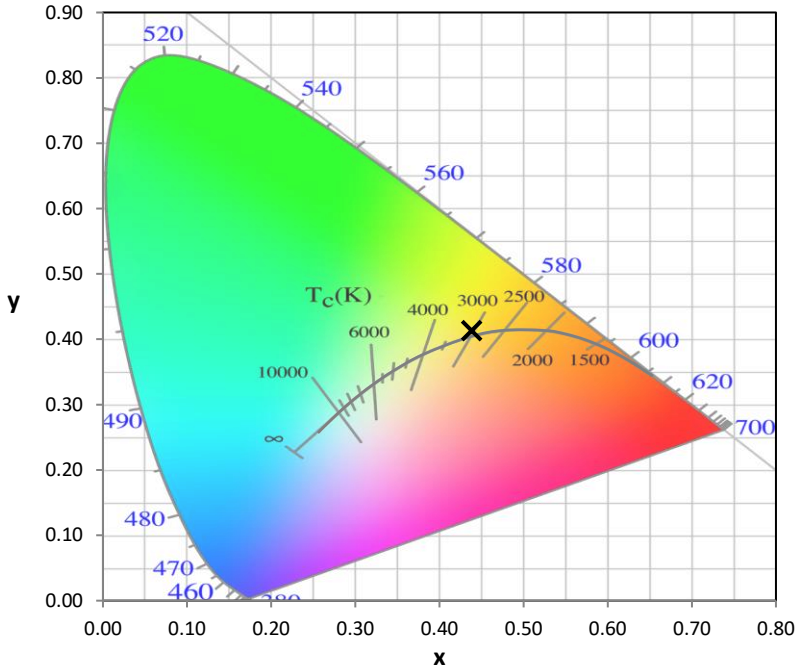
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

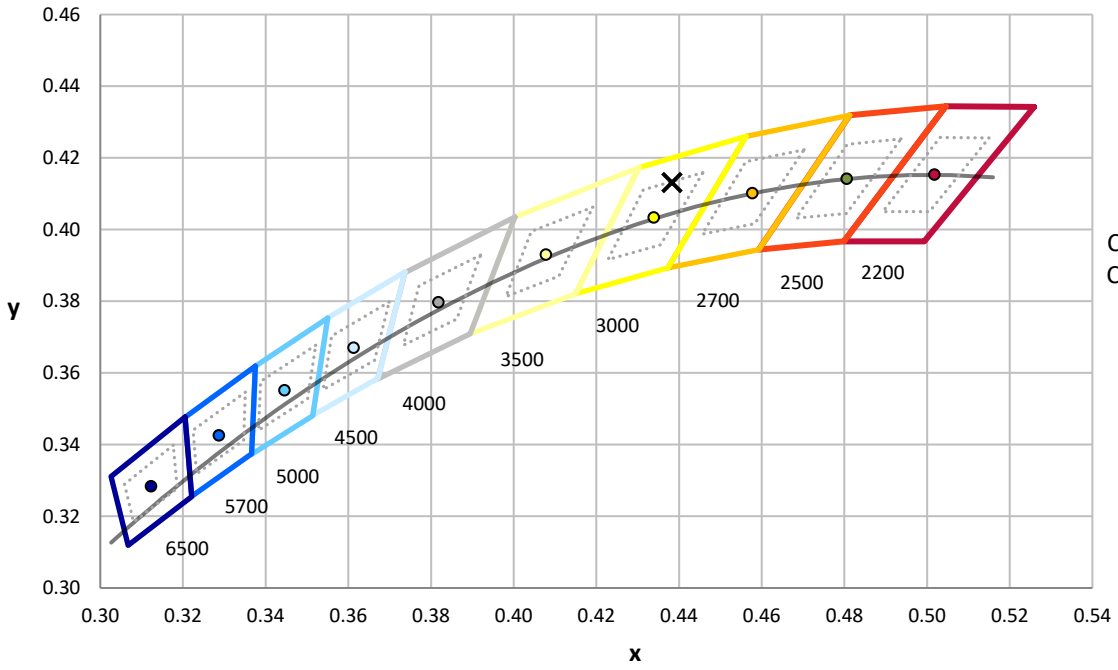
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

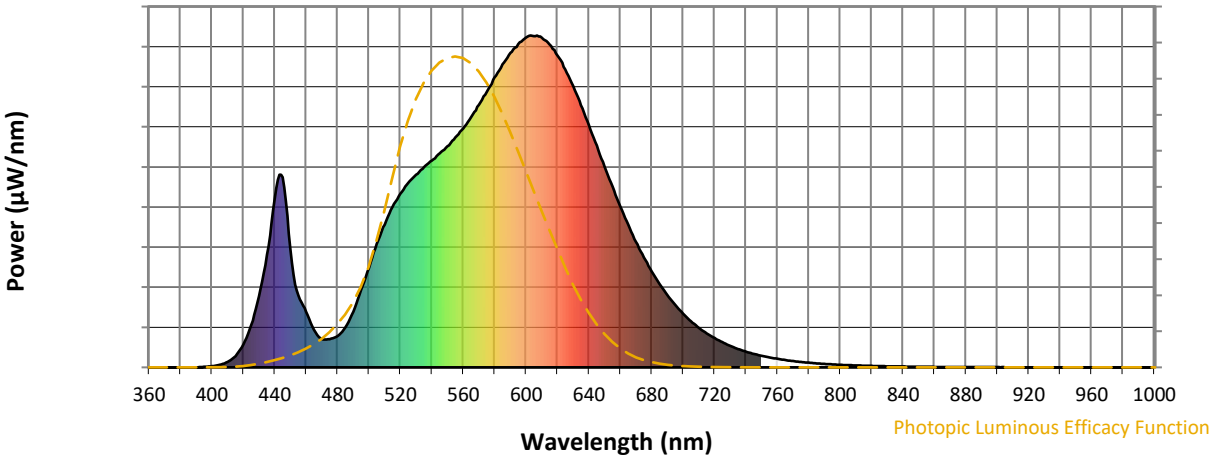


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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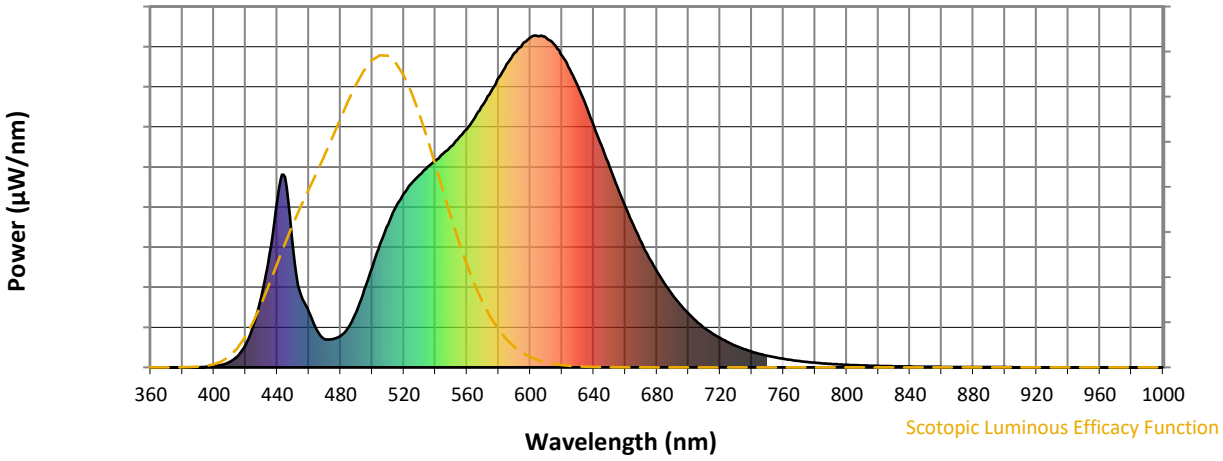
Scotopic Flux vs. Wavelength



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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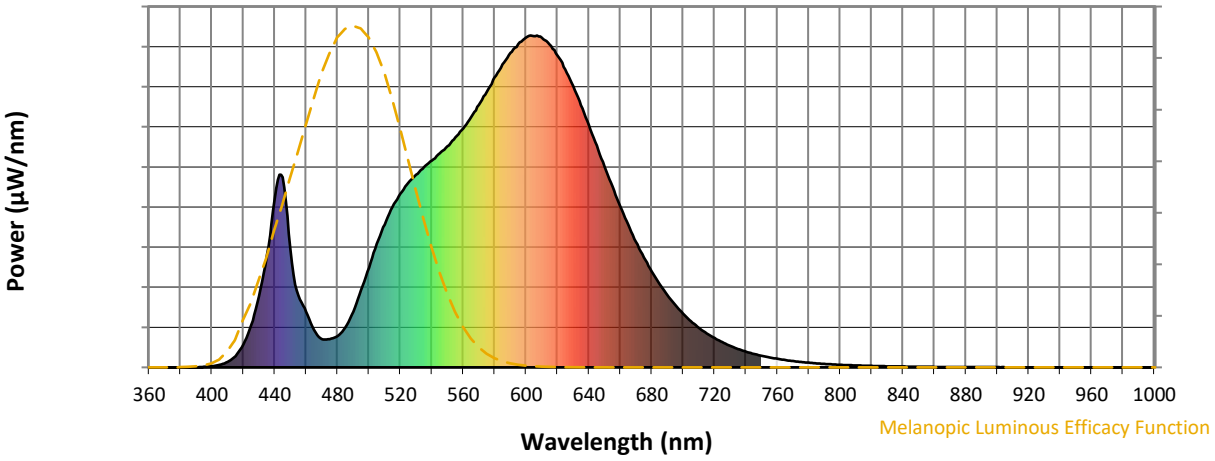
Melanopic Flux vs. Wavelength



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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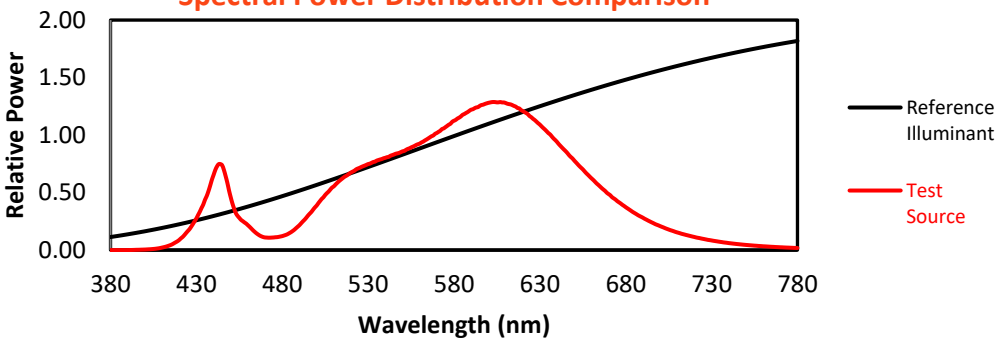
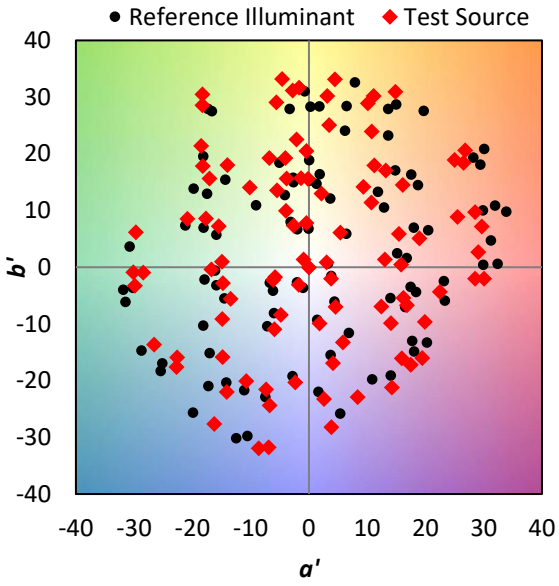
Summary

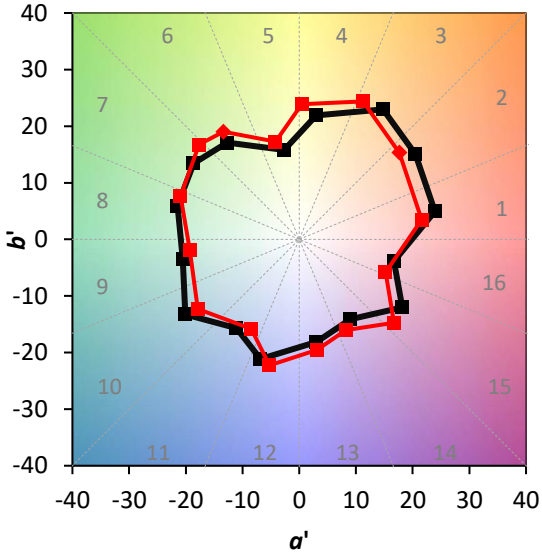
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

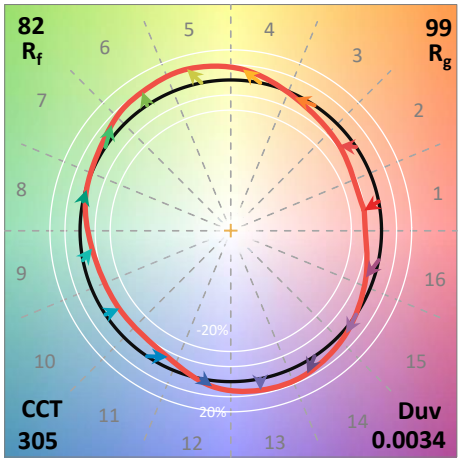
Spectral Power Distribution Comparison

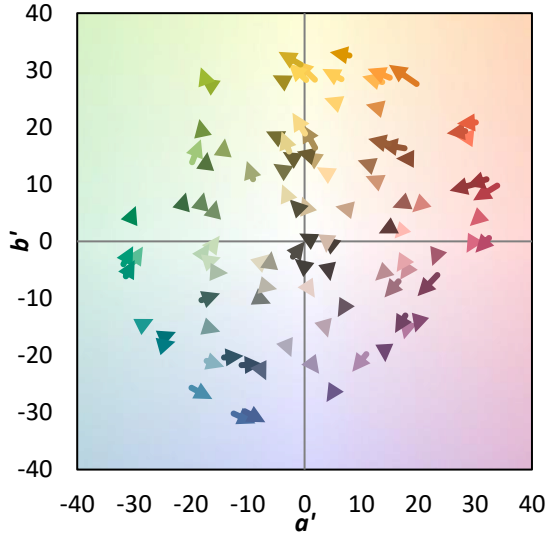


Color Vector Graphics









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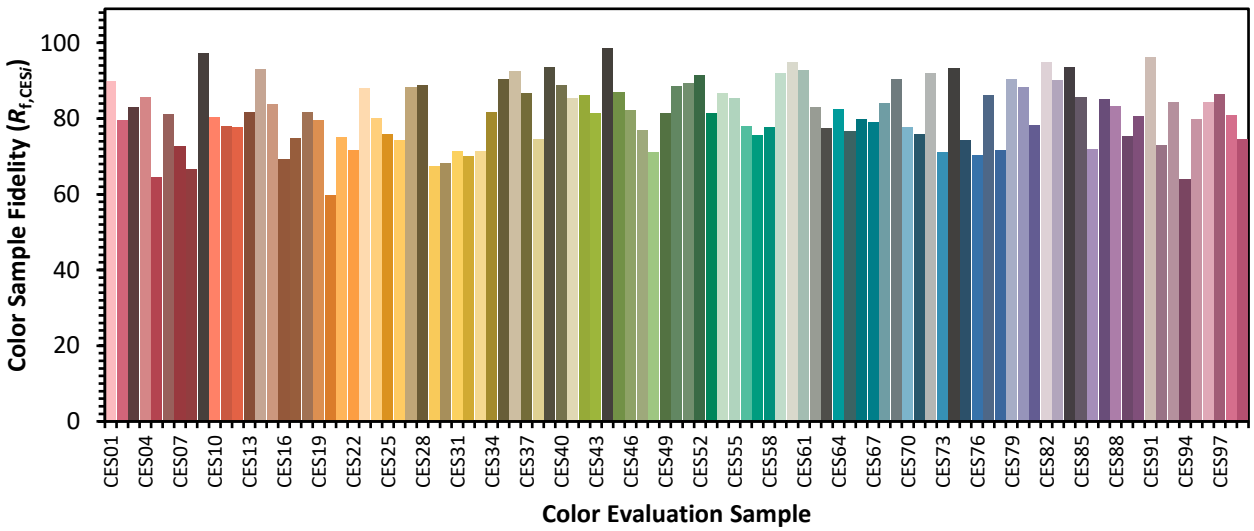
Individual Sample Fidelity Index ($R_{f,i}$)

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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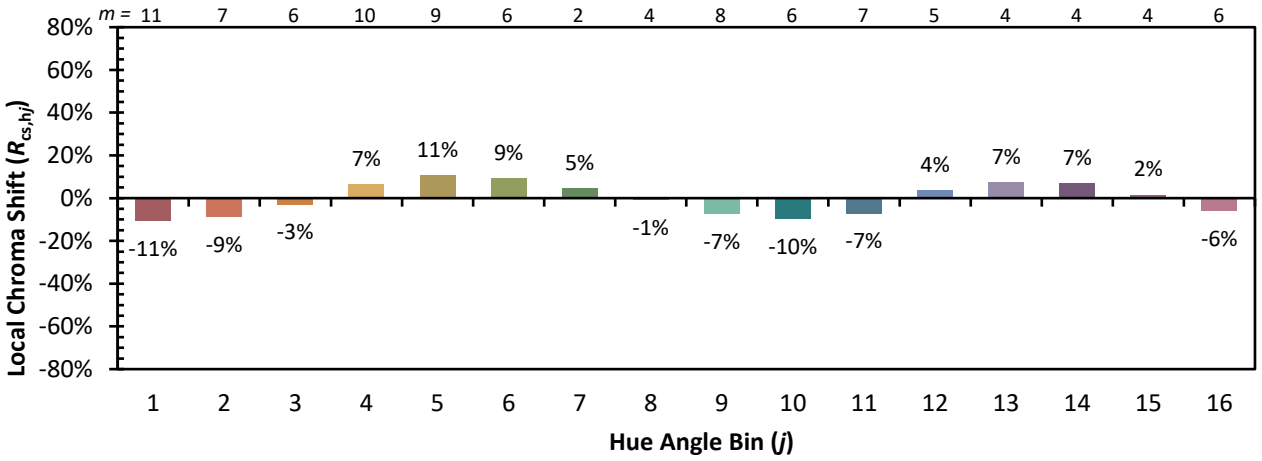
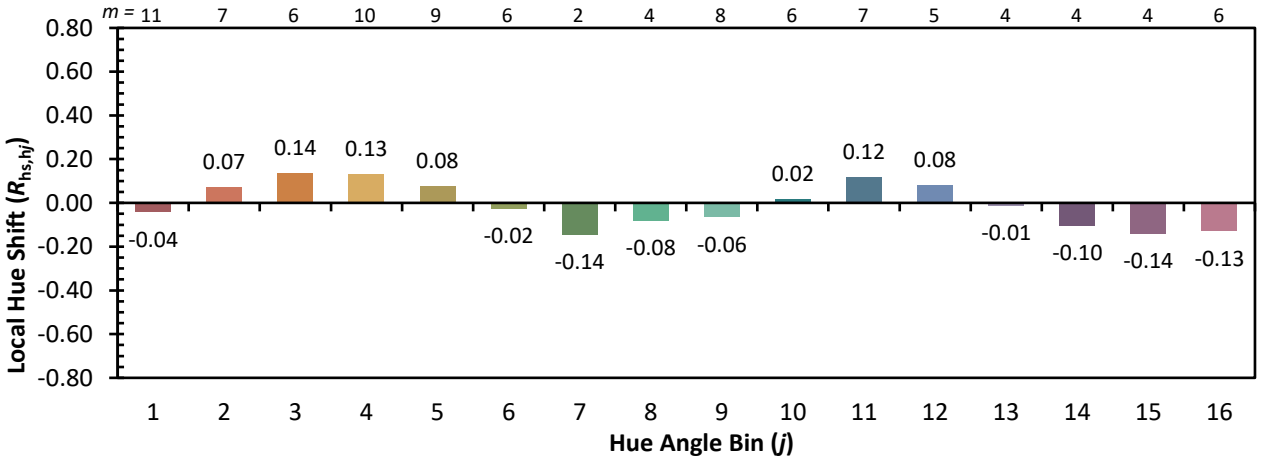
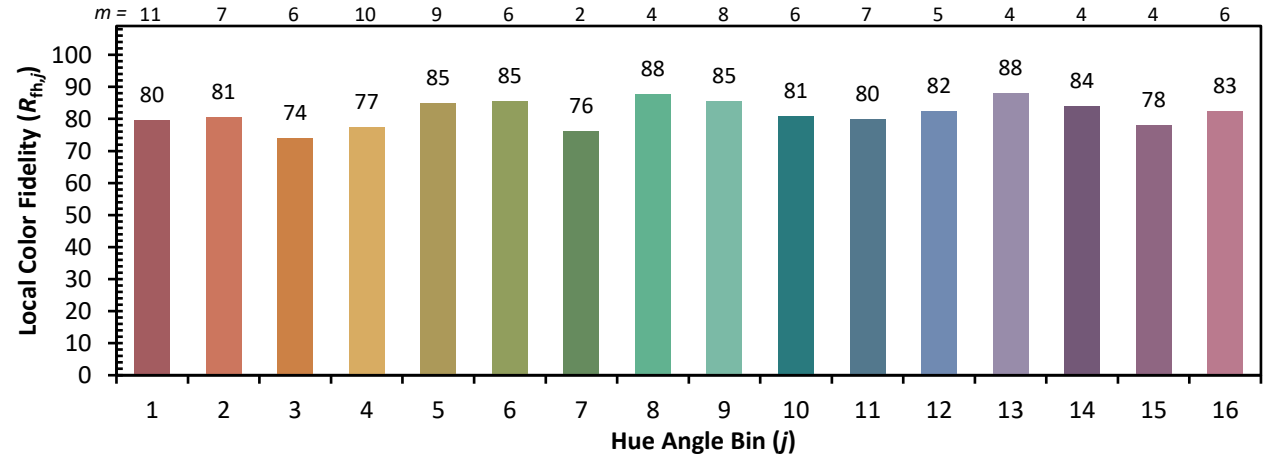
Color Rendition by Hue-Angle Bin







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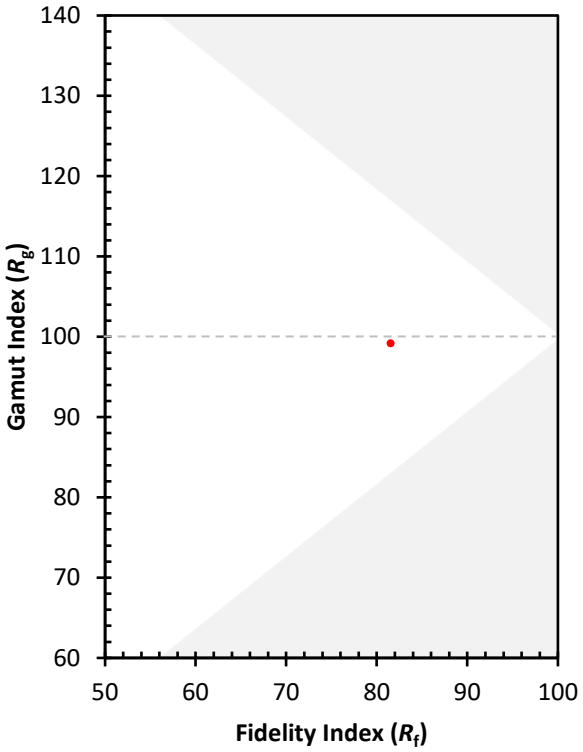
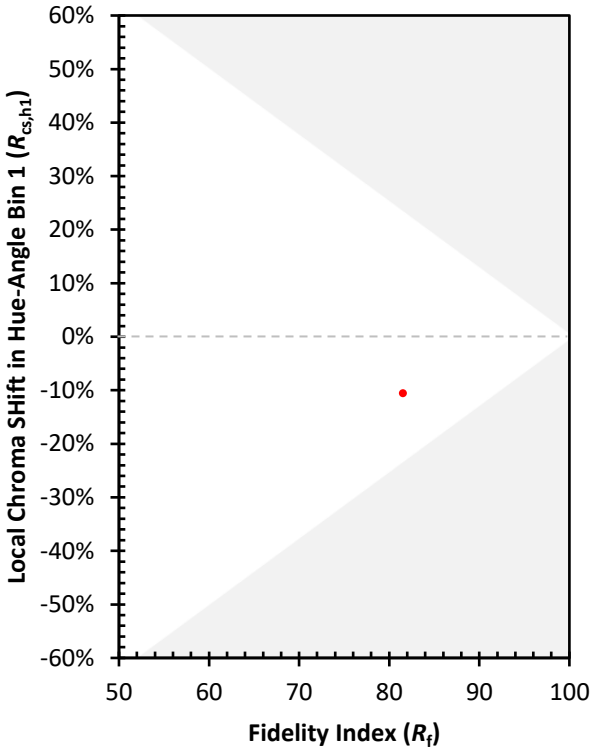
Measure Comparisons





(END OF REPORT)