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: P643943

Luminaire Tested: GWS-SA6F-830-U-T3-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:	P643943
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29025.8 lumens
Efficiency:	N/A
Efficacy:	77.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	372.6
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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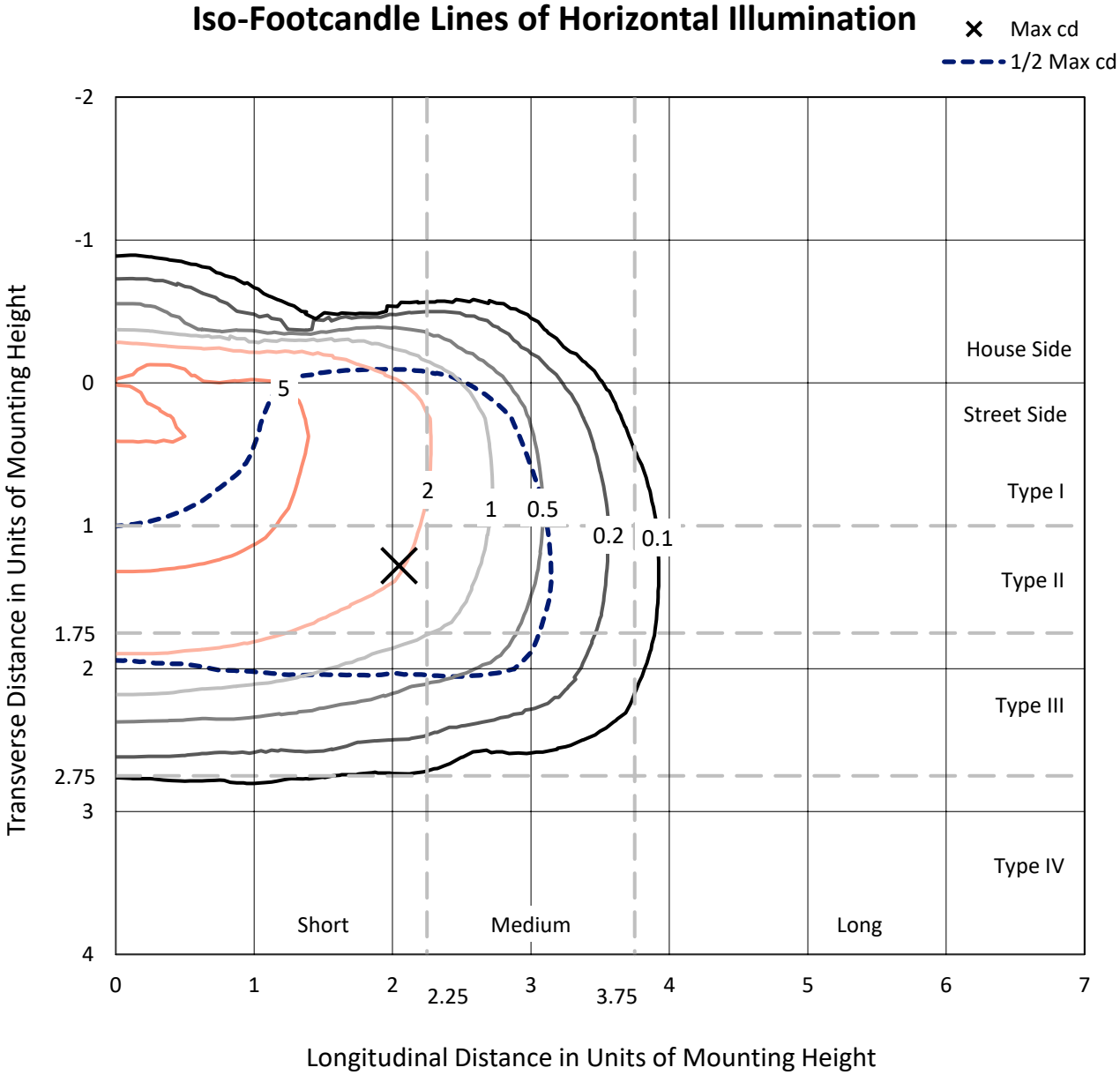
Scaled Data Report

REPORT NUMBER: P643943
CATALOG NUMBER: GWS-SA6F-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

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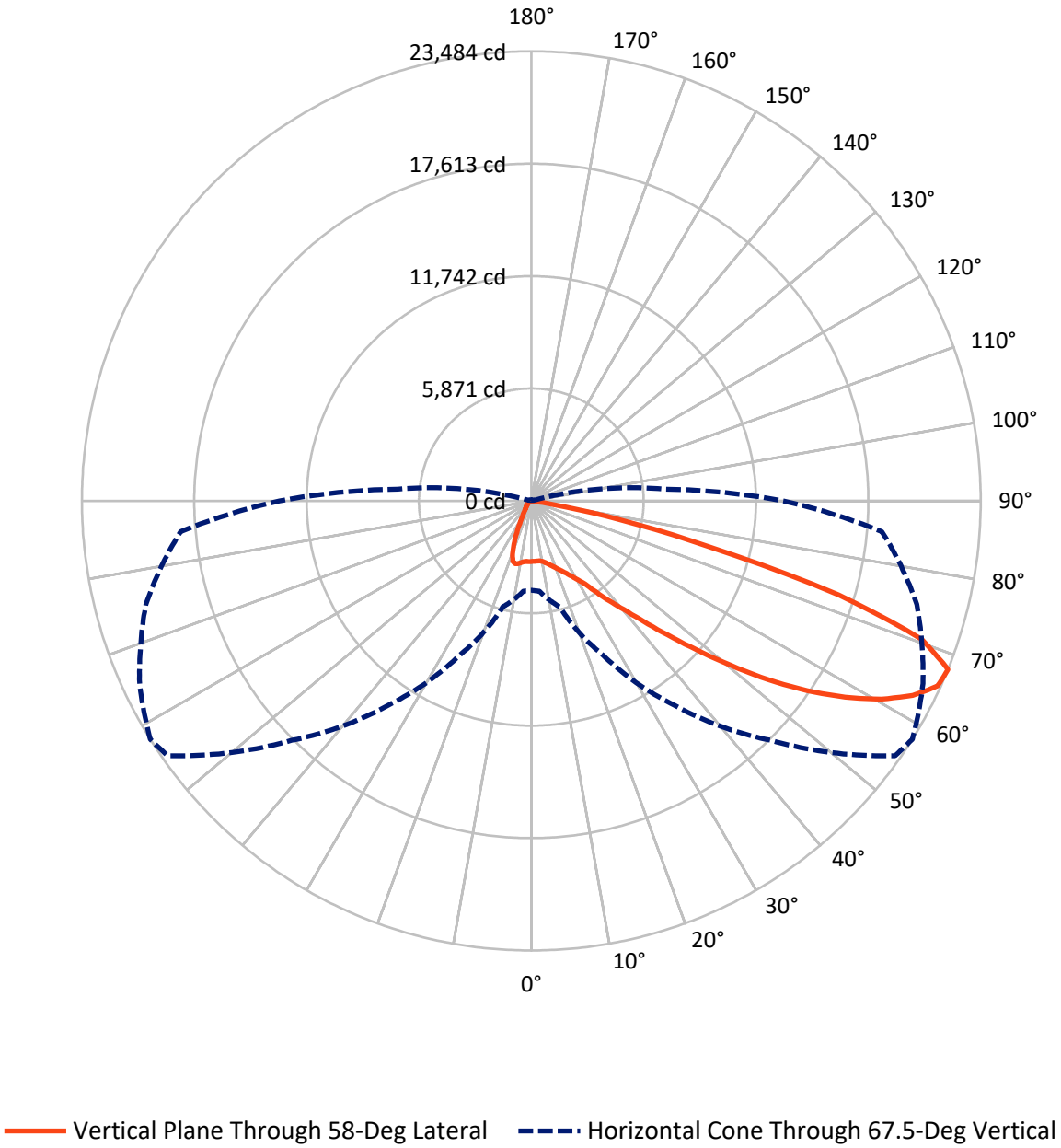
Luminous Intensity Polar Plot



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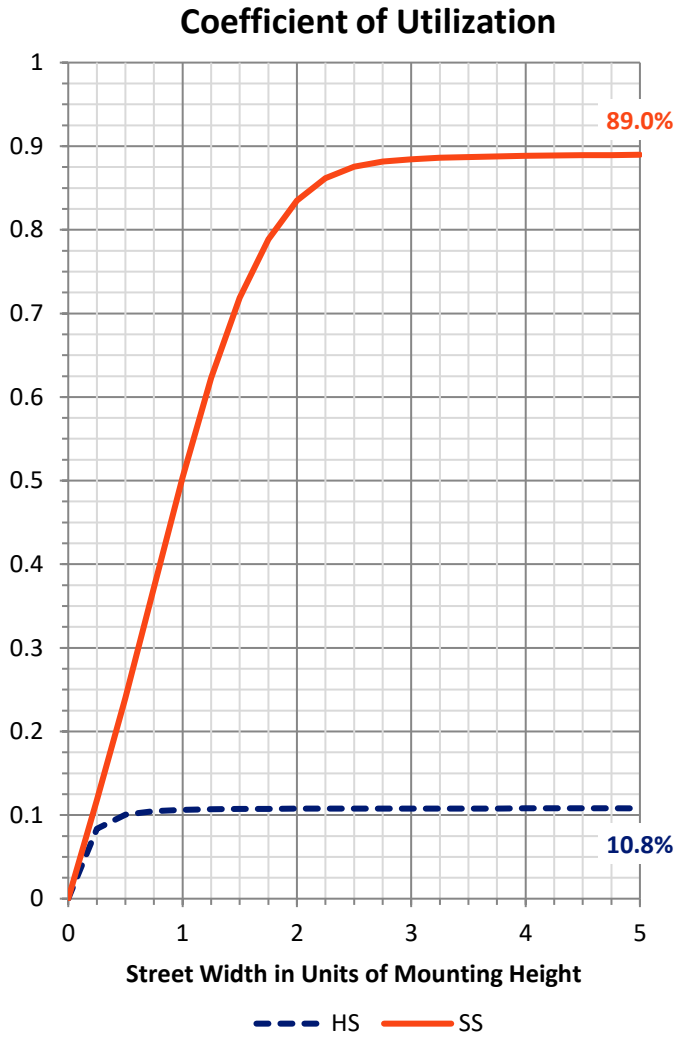
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3166.6	0.0	3166.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	25859.2	0.0	25859.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	29025.8	0.0	29025.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.0
10°-20°	834.2	2.9
20°-30°	1456.2	5.0
30°-40°	2600.5	9.0
40°-50°	4753.3	16.4
50°-60°	7905.2	27.2
60°-70°	8586.4	29.6
70°-80°	2521.0	8.7
80°-90°	71.8	0.2
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°	29025.8	100.0
0°-180°	29025.8	100.0



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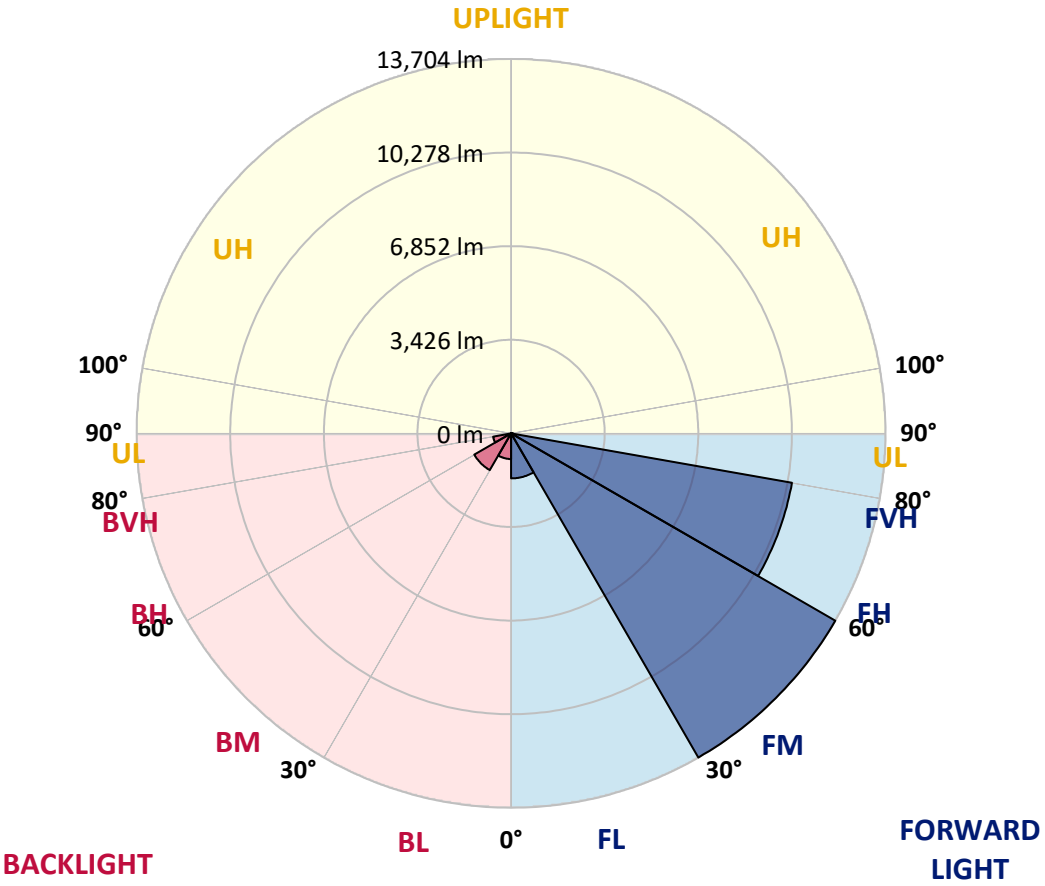
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1648.2	5.7			
FM	(30°-60°)	13703.7	47.2			
FH	(60°-80°)	10439.0	36.0			G4/12000
FVH	(80°-90°)	68.3	0.2			G1/100
BL	(0°-30°)	939.3	3.2	B2/1000		
BM	(30°-60°)	1555.3	5.4	B2/2500		
BH	(60°-80°)	668.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.5	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-G4
Type III Short



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REPORT NUMBER: P643943
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9
2.5°	3103.4	3097.8	3097.8	3120.4	3123.3	3134.6	3160.1	3162.9	3177.1	3171.4	3151.6
5°	2941.9	2944.7	2961.7	3001.4	3035.4	3077.9	3140.3	3154.4	3185.6	3202.6	3191.3
7.5°	2791.7	2794.5	2820.0	2882.4	2947.5	3032.6	3134.6	3162.9	3225.3	3270.6	3273.5
10°	2735.0	2732.1	2757.7	2828.5	2913.5	3032.6	3180.0	3216.8	3310.3	3389.7	3403.9
12.5°	2752.0	2749.2	2774.7	2839.8	2933.4	3083.6	3259.3	3310.3	3429.4	3551.2	3576.7
15°	2820.0	2817.2	2834.2	2888.0	2990.1	3145.9	3361.3	3437.9	3588.1	3735.4	3775.1
17.5°	3024.1	3009.9	2992.9	2998.6	3058.1	3219.6	3491.7	3585.2	3772.3	3948.0	3982.0
20°	3386.8	3350.0	3304.7	3245.1	3216.8	3327.3	3641.9	3749.6	3976.4	4177.6	4183.2
22.5°	3933.8	3919.7	3814.8	3641.9	3520.1	3522.9	3817.6	3942.3	4220.1	4441.2	4410.0
25°	4696.2	4687.7	4526.2	4242.8	3925.3	3817.6	4041.5	4169.1	4509.2	4744.4	4645.2
27.5°	5642.9	5583.3	5393.4	5010.8	4537.5	4200.3	4325.0	4438.3	4815.3	5036.3	4849.3
30°	6467.6	6470.4	6291.9	5892.3	5359.4	4775.6	4670.7	4769.9	5095.9	5328.3	5101.5
32.5°	7261.2	7286.7	7091.1	6731.2	6147.3	5526.7	5166.7	5183.7	5455.8	5708.0	5433.1
35°	7998.1	8017.9	7881.9	7575.8	7031.6	6311.7	5858.3	5849.7	5997.1	6255.0	5895.1
37.5°	8822.8	8842.6	8709.4	8434.5	7924.4	7210.2	6643.3	6632.0	6691.5	6901.2	6490.3
40°	9701.4	9738.2	9590.9	9358.5	8871.0	8267.3	7555.9	7453.9	7394.4	7640.9	7261.2
42.5°	10591.3	10648.0	10597.0	10364.6	9948.0	9449.2	8740.6	8581.9	8454.4	8763.3	8360.8
45°	11696.7	11764.7	11742.0	11563.5	11240.4	10835.1	10166.2	9982.0	9922.5	10208.7	9729.7
47.5°	12759.5	12833.2	12915.4	12875.7	12646.1	12459.1	11716.5	11611.6	11594.6	11900.7	11158.2
50°	13550.2	13618.2	13932.8	14159.6	14315.4	14275.8	13632.4	13476.5	13451.0	13646.6	12666.0
52.5°	14117.1	14182.2	14615.9	15324.4	15896.9	16208.7	15559.6	15525.6	15386.8	15318.7	14077.4
55°	14556.3	14647.0	15103.3	16174.7	17328.2	18019.7	17614.4	17492.6	17135.5	16744.3	15386.8
57.5°	14644.2	14681.1	15324.4	16769.8	18439.2	19558.7	19558.7	19346.1	18657.4	18116.1	16900.2
60°	13856.3	13969.7	14839.8	16721.7	18915.3	20564.8	21171.3	21023.9	20094.3	19428.3	18357.0
62.5°	12107.6	12235.2	13295.1	15568.2	18439.2	20771.7	22392.9	22370.2	21321.5	20513.8	19564.3
65°	9284.8	9378.3	10302.2	13023.1	16426.9	19975.3	23265.8	23328.1	22290.8	21230.8	19981.0
67.5°	4665.1	4730.2	5727.9	8896.5	13020.2	17682.4	23206.3	23484.0	22585.6	20851.1	18391.0
70°	1629.7	1694.8	2165.3	3817.6	7924.4	13502.0	21199.7	21653.1	20853.9	17798.7	13567.2
72.5°	558.3	589.5	898.4	1417.1	3083.6	8003.7	16120.8	16803.9	15372.6	11948.9	7796.8
75°	317.4	337.3	481.8	768.1	1292.4	2633.0	9145.9	9565.4	8961.7	6512.9	3208.3
77.5°	215.4	232.4	300.4	436.5	714.2	847.4	3729.8	4696.2	4095.4	2125.6	819.1
80°	127.5	138.9	184.2	257.9	365.6	328.8	799.2	1062.8	1368.9	634.9	246.6
82.5°	59.5	68.0	119.0	170.1	184.2	138.9	235.2	286.3	385.4	311.8	102.0
85°	0.0	0.0	39.7	70.9	68.0	39.7	65.2	70.9	104.9	155.9	39.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	5.7	8.5	17.0	31.2	17.0
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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REPORT NUMBER: P643943
CATALOG NUMBER: GWS-SA6F-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9
2.5°	3174.3	3154.4	3177.1	3165.8	3177.1	3174.3	3151.6	3137.4	3137.4	3111.9	3103.4
5°	3214.0	3194.1	3199.8	3174.3	3168.6	3154.4	3126.1	3114.8	3114.8	3089.3	3080.8
7.5°	3301.8	3270.6	3265.0	3214.0	3191.3	3151.6	3100.6	3080.8	3077.9	3052.4	3043.9
10°	3440.7	3403.9	3378.3	3313.2	3248.0	3168.6	3060.9	2970.2	2919.2	2851.2	2845.5
12.5°	3610.7	3565.4	3525.7	3426.5	3318.8	3140.3	2822.8	2491.2	2287.2	2125.6	2137.0
15°	3800.6	3758.1	3695.8	3545.6	3324.5	2859.7	2196.5	1686.3	1436.9	1303.7	1298.1
17.5°	4007.5	3945.2	3843.1	3639.1	3145.9	2185.2	1428.4	1009.0	878.6	833.2	821.9
20°	4200.3	4123.7	3996.2	3658.9	2630.1	1479.4	892.8	782.2	759.6	745.4	745.4
22.5°	4404.3	4308.0	4118.1	3505.9	1955.6	946.6	759.6	734.1	717.0	697.2	694.4
25°	4611.2	4486.5	4228.6	3106.3	1281.0	745.4	711.4	683.0	651.9	620.7	612.2
27.5°	4786.9	4625.4	4313.6	2511.1	821.9	671.7	649.0	600.8	558.3	524.3	518.7
30°	4996.7	4789.8	4350.5	1836.5	646.2	592.3	558.3	507.3	456.3	422.3	411.0
32.5°	5277.2	5050.5	4293.8	1196.0	572.5	521.5	467.6	408.1	357.1	320.3	314.6
35°	5713.7	5444.5	4033.0	762.4	518.7	450.6	385.4	323.1	280.6	252.2	246.6
37.5°	6246.5	5997.1	3605.1	572.5	464.8	391.1	314.6	255.1	223.9	204.1	198.4
40°	7037.3	6688.7	3075.1	501.6	411.0	331.6	257.9	209.7	187.1	170.1	164.4
42.5°	8063.2	7504.9	2465.7	456.3	359.9	277.7	209.7	172.9	153.0	141.7	138.9
45°	9262.1	8301.3	1822.4	411.0	311.8	229.6	172.9	141.7	127.5	119.0	116.2
47.5°	10489.3	8998.5	1258.4	362.8	266.4	189.9	144.5	121.9	110.5	99.2	96.4
50°	11798.7	9588.0	858.8	314.6	226.7	155.9	124.7	110.5	96.4	87.9	85.0
52.5°	12759.5	9806.3	598.0	272.1	192.7	133.2	110.5	99.2	87.9	76.5	73.7
55°	13646.6	9800.6	453.5	229.6	164.4	116.2	99.2	87.9	76.5	68.0	65.2
57.5°	14530.8	9724.1	357.1	195.6	141.7	104.9	87.9	76.5	70.9	59.5	56.7
60°	15103.3	9435.0	277.7	164.4	121.9	90.7	76.5	68.0	59.5	51.0	48.2
62.5°	15406.6	9032.5	212.6	130.4	99.2	79.4	68.0	59.5	51.0	42.5	39.7
65°	14995.6	8318.3	167.2	102.0	76.5	68.0	56.7	48.2	39.7	31.2	28.3
67.5°	*13173.3*	*7014.6*	*130.4*	*82.2*	*59.5*	*51.0*	*48.2*	*39.7*	*28.3*	*22.7*	*19.8*
70°	9310.3	4803.9	102.0	62.4	45.3	39.7	36.8	31.2	22.7	17.0	14.2
72.5°	5110.0	2423.2	73.7	45.3	34.0	31.2	28.3	25.5	19.8	14.2	14.2
75°	1966.9	666.0	53.8	31.2	22.7	22.7	19.8	19.8	17.0	11.3	11.3
77.5°	513.0	198.4	34.0	19.8	14.2	14.2	14.2	11.3	11.3	8.5	8.5
80°	164.4	65.2	19.8	14.2	11.3	8.5	8.5	5.7	8.5	5.7	5.7
82.5°	53.8	22.7	11.3	11.3	8.5	5.7	5.7	2.8	2.8	0.0	0.0
85°	19.8	11.3	8.5	5.7	5.7	5.7	2.8	0.0	0.0	0.0	0.0
87.5°	11.3	5.7	5.7	5.7	5.7	2.8	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

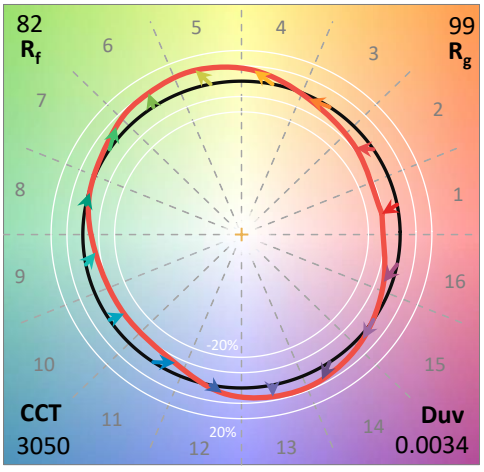
Test Information

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

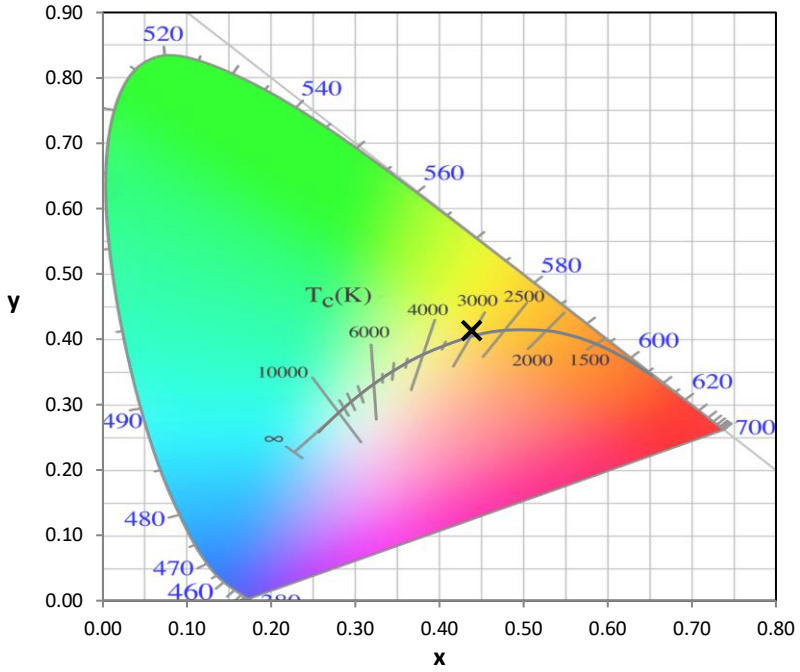
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

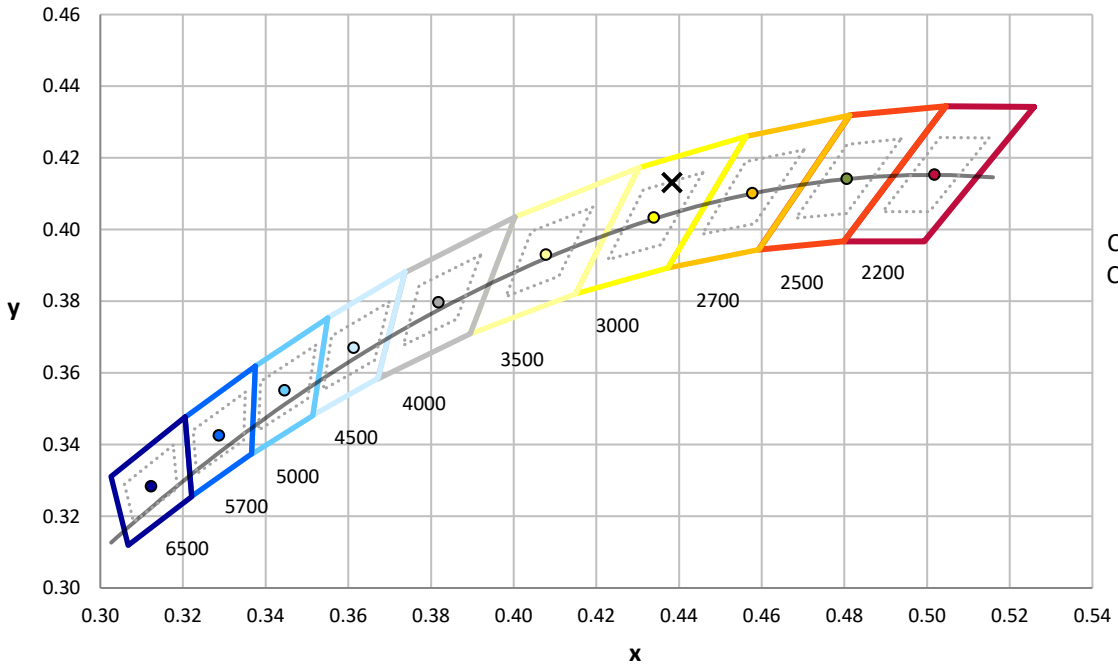
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

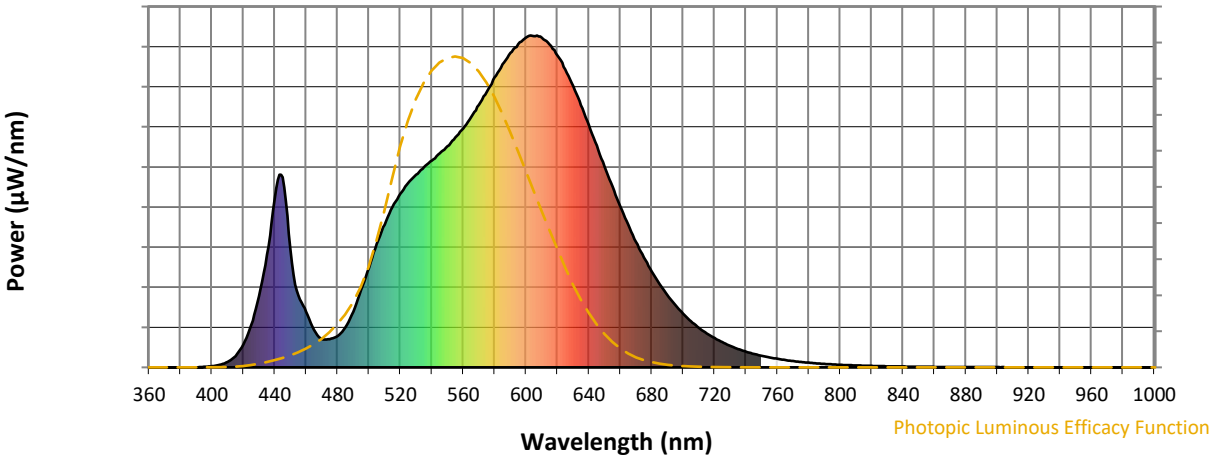


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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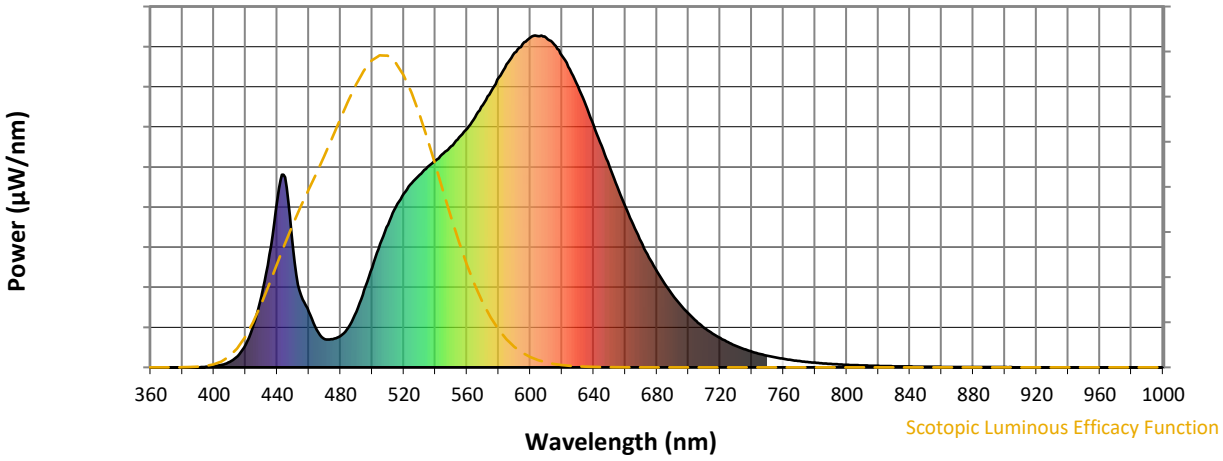
Scotopic Flux vs. Wavelength



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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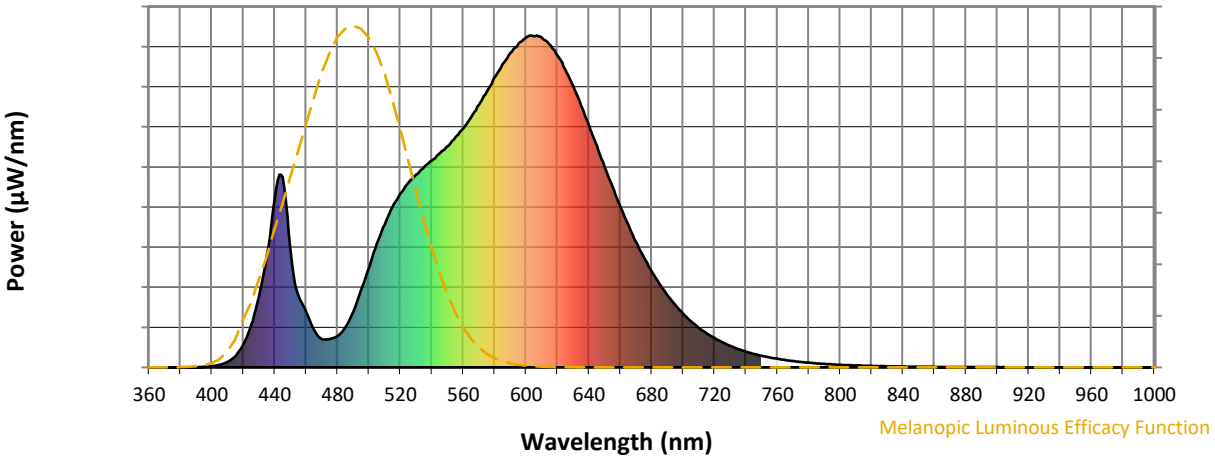
Melanopic Flux vs. Wavelength



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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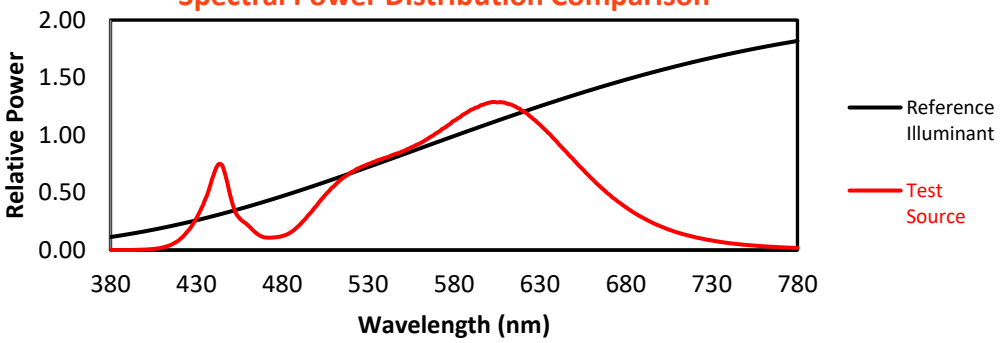
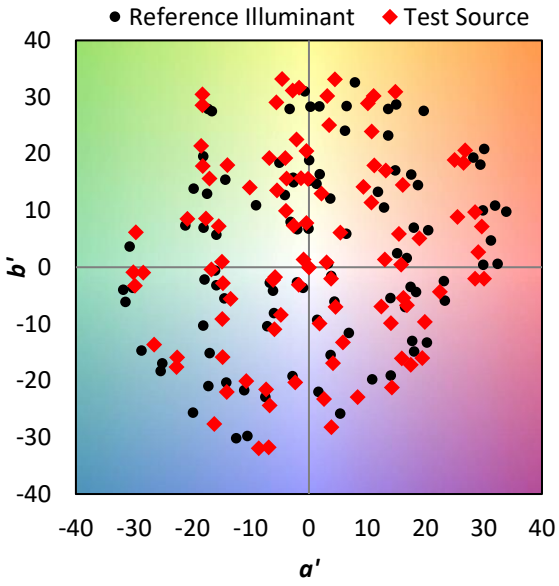
Summary

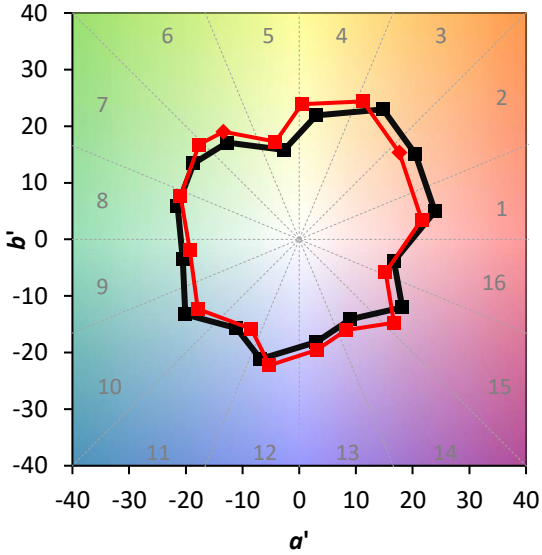
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

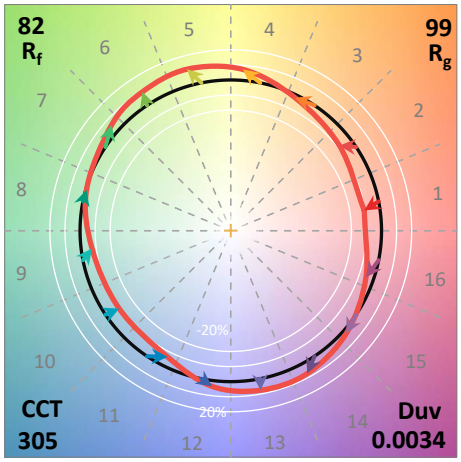
Spectral Power Distribution Comparison

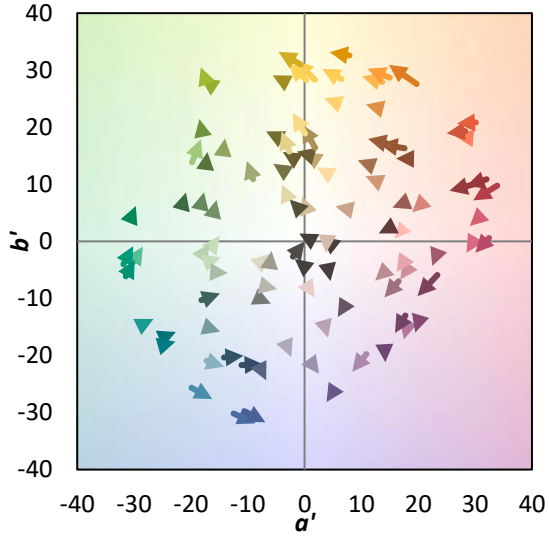


Color Vector Graphics









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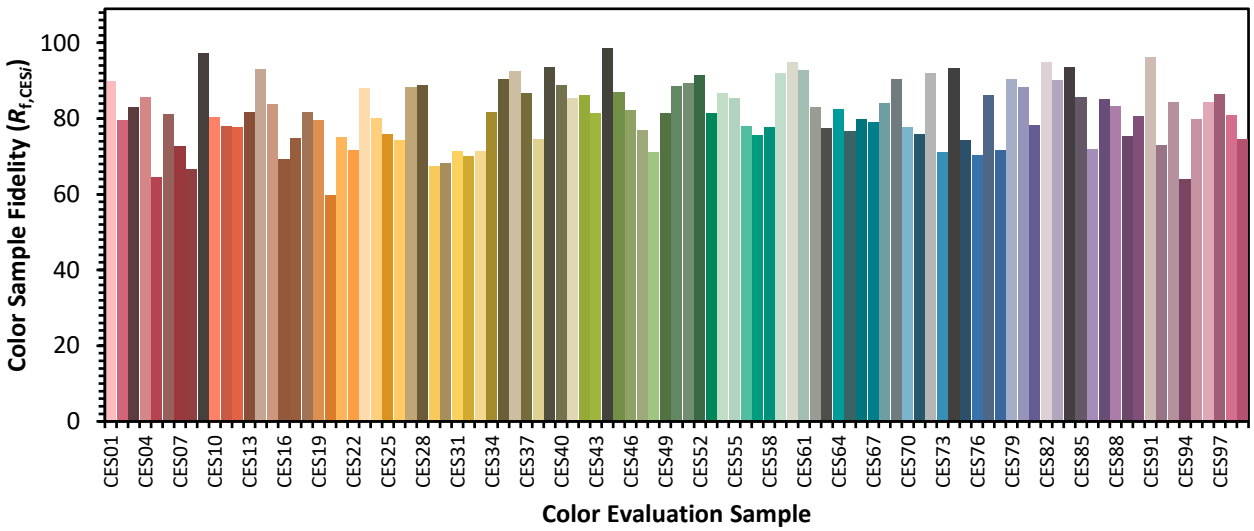
Individual Sample Fidelity Index ($R_{f,i}$)

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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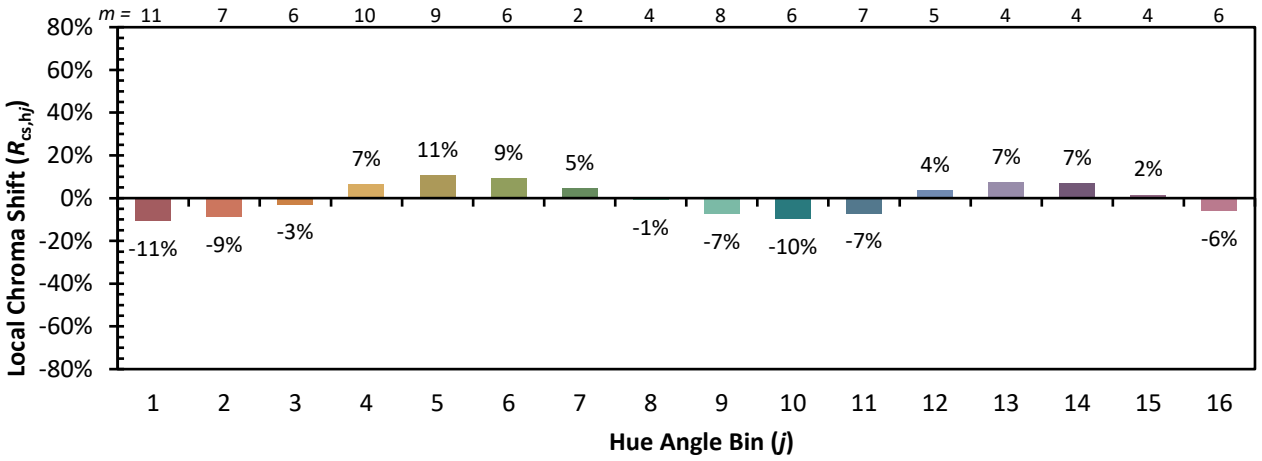
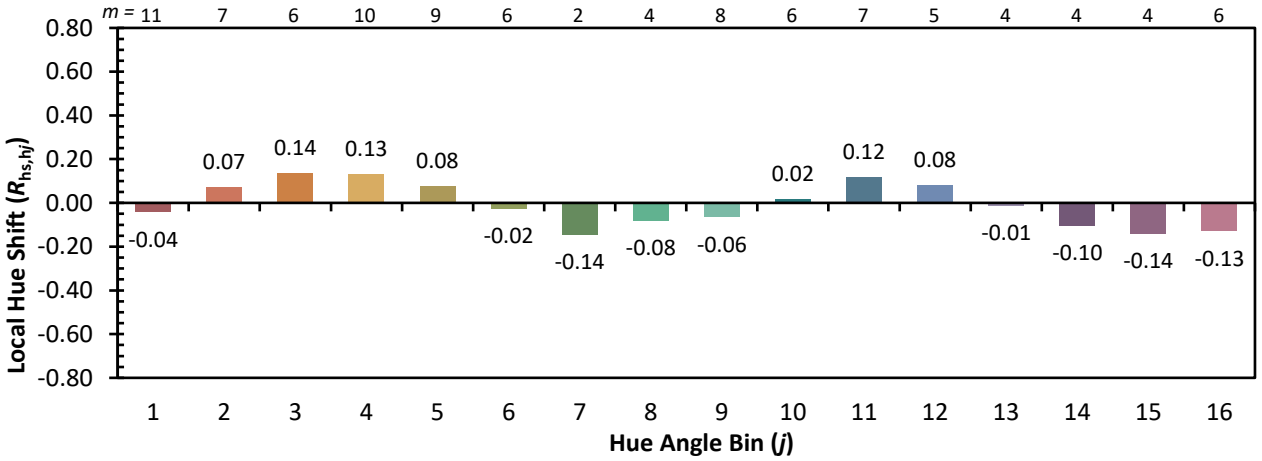
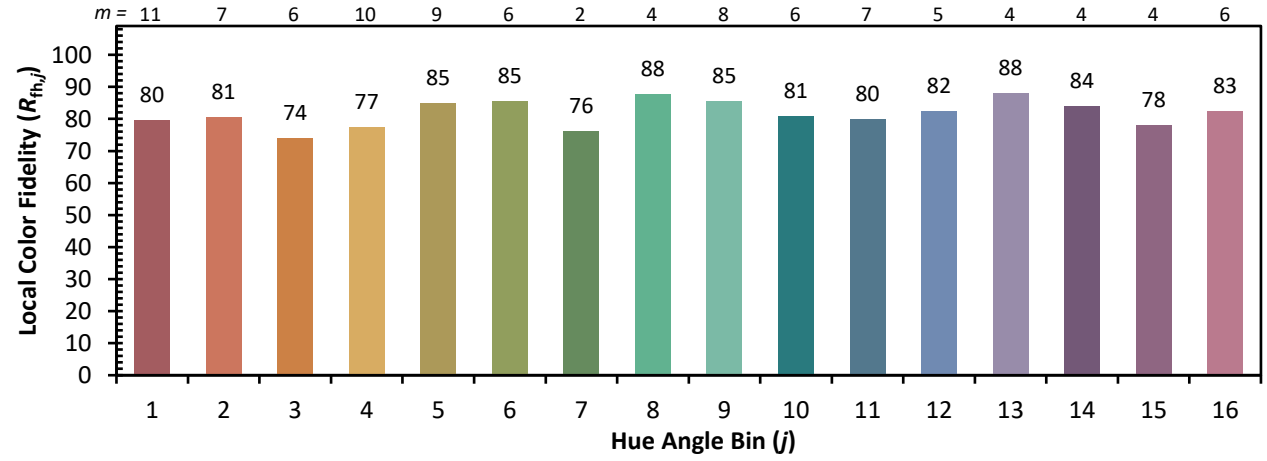
Color Rendition by Hue-Angle Bin







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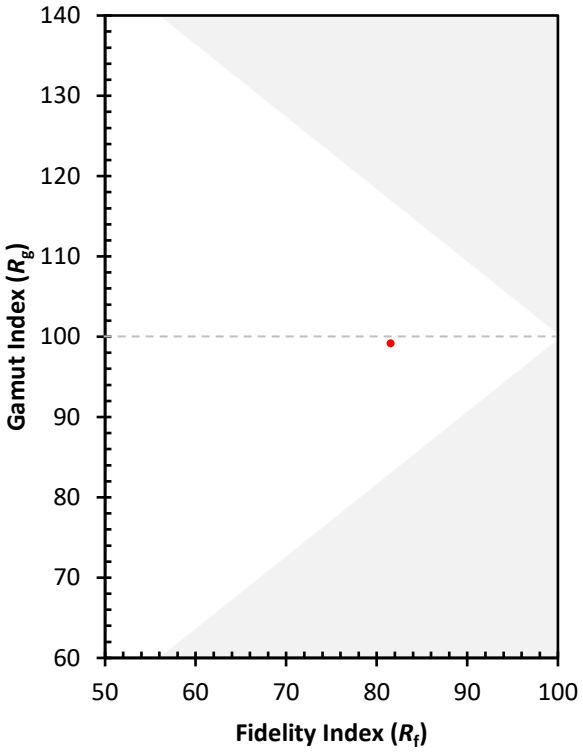
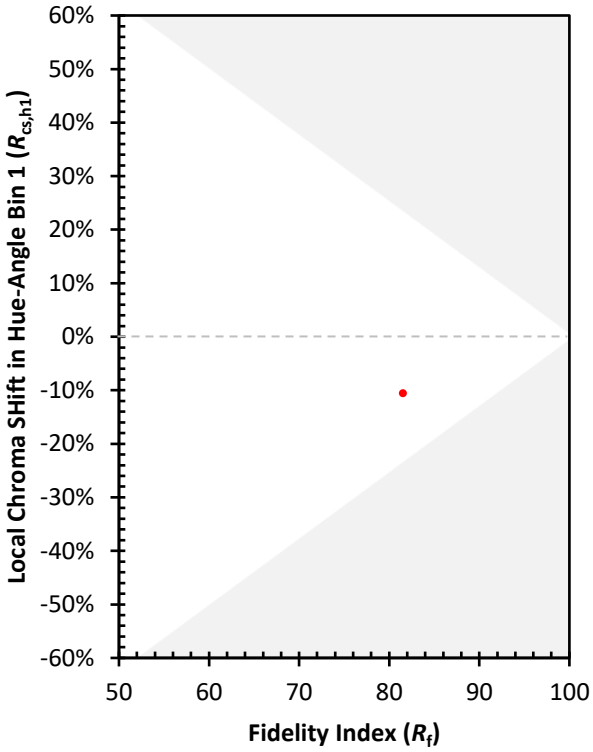
Measure Comparisons





(END OF REPORT)