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: P637485

Luminaire Tested: GWS-SA4C-830-U-SL3-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:	P637485
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12489.3 lumens
Efficiency:	N/A
Efficacy:	97.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

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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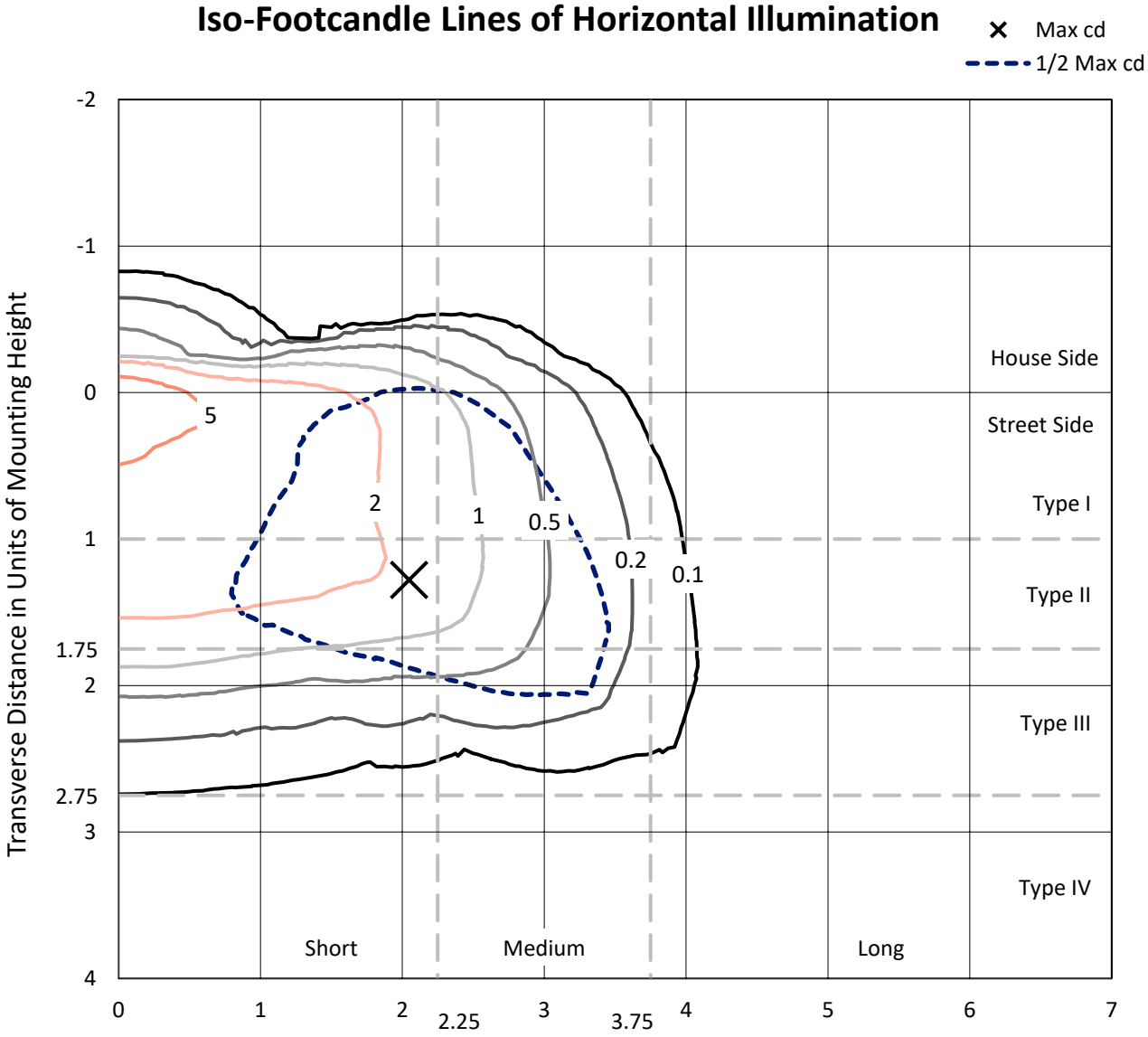
REPORT NUMBER: P637485
CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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REPORT NUMBER: P637485
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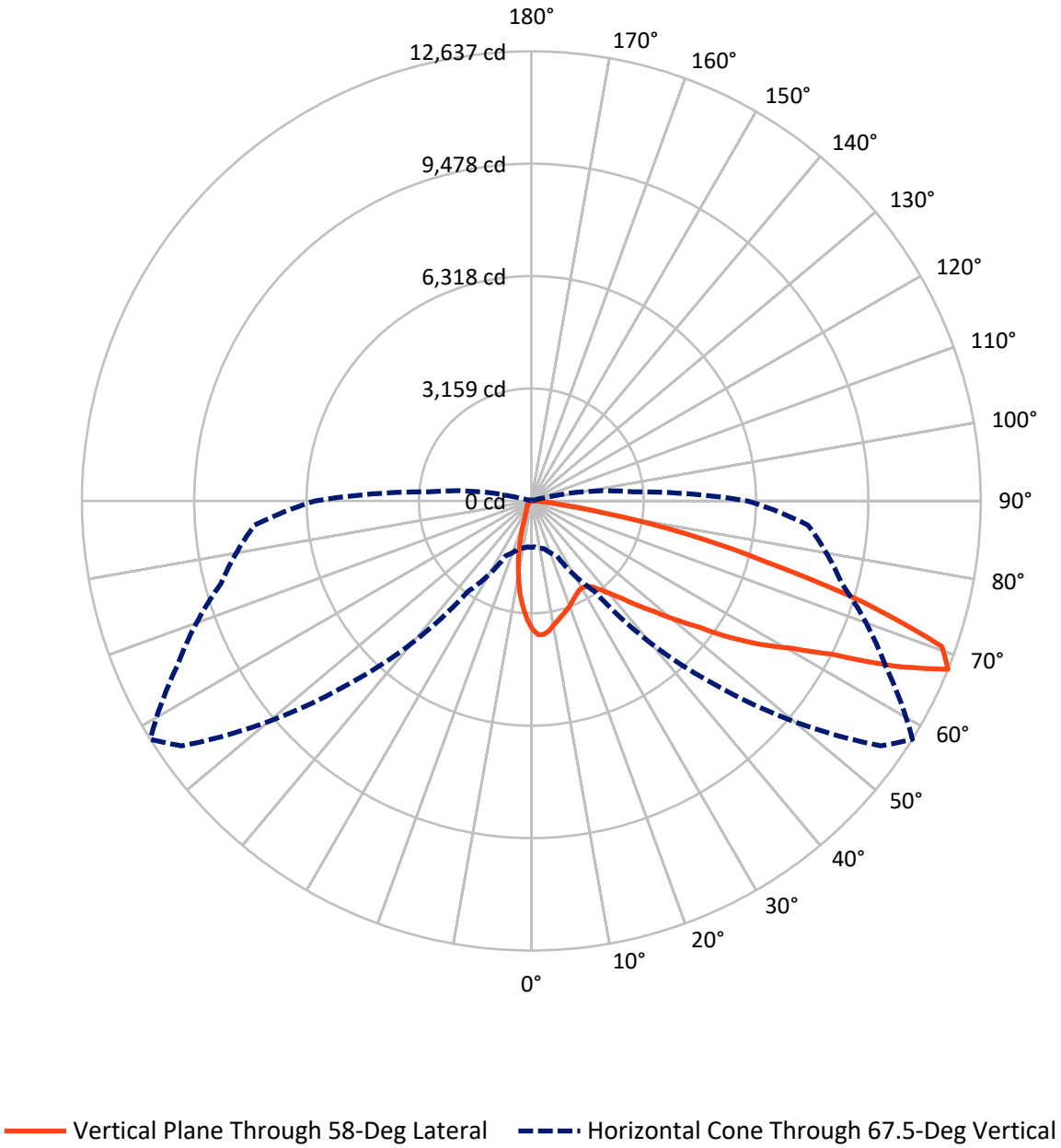
Luminous Intensity Polar Plot



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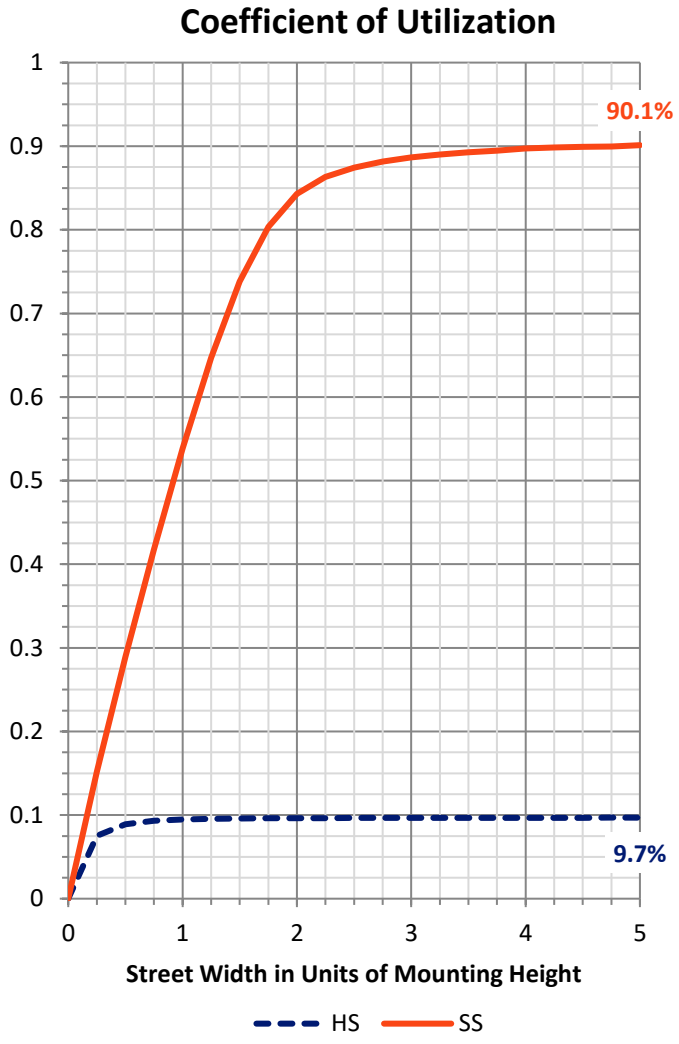
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.1	0.0	1220.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11269.2	0.0	11269.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	12489.3	0.0	12489.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	2.3
10°-20°	609.4	4.9
20°-30°	821.8	6.6
30°-40°	1154.8	9.2
40°-50°	1783.4	14.3
50°-60°	2852.0	22.8
60°-70°	3376.9	27.0
70°-80°	1493.9	12.0
80°-90°	104.4	0.8
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°	12489.3	100.0
0°-180°	12489.3	100.0



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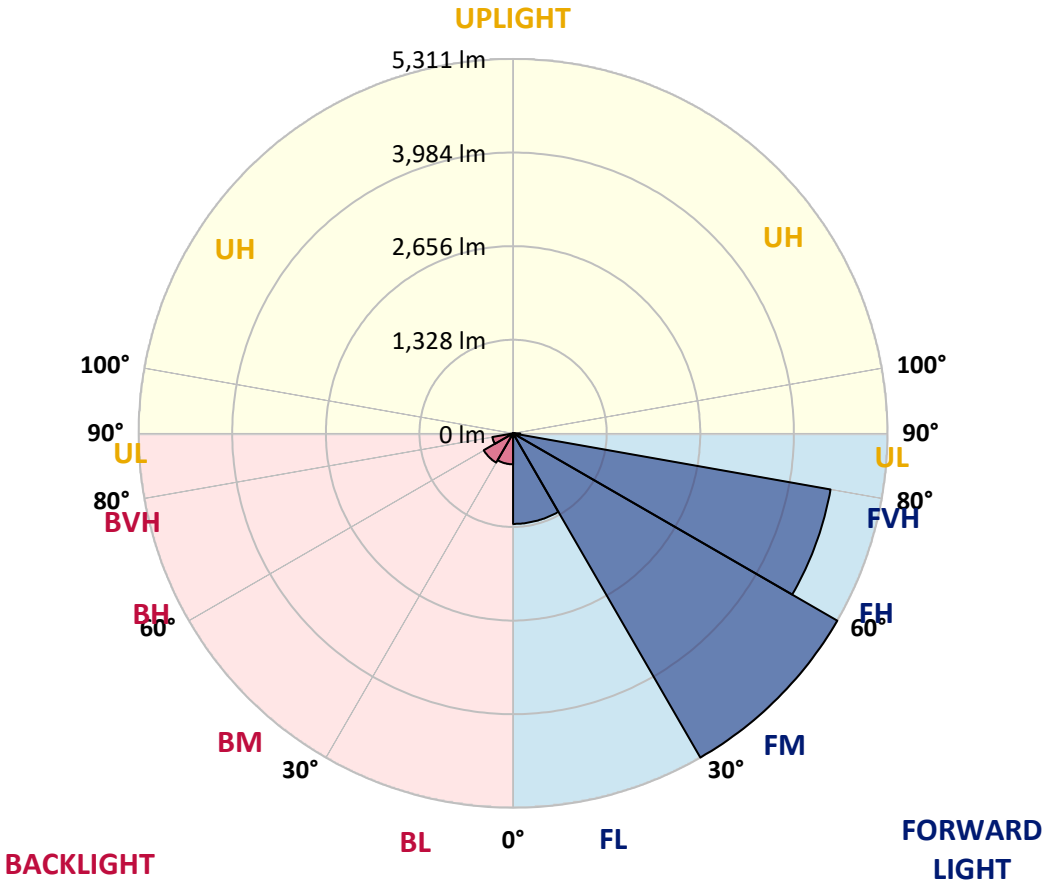
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1284.8	10.3			
FM	(30°-60°)	5311.4	42.5			
FH	(60°-80°)	4572.9	36.6			G2/5000
FVH	(80°-90°)	100.0	0.8			G1/100
BL	(0°-30°)	439.1	3.5	B1/500		
BM	(30°-60°)	478.7	3.8	B1/1000		
BH	(60°-80°)	297.9	2.4	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P637485
CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	*3602.5*	3602.5	3602.5	3602.5
2.5°	3789.3	3795.9	3804.8	3815.8	3813.6	3803.7	3791.5	*3763.9*	3746.2	3690.9	3623.5
5°	3667.7	3666.6	3688.7	3709.7	3747.3	3767.2	3794.8	*3769.4*	3760.6	3694.2	3584.8
7.5°	3430.1	3442.2	3467.6	3500.8	3555.0	3613.6	3679.9	*3672.1*	3698.7	3654.5	3518.5
10°	3196.8	3190.2	3230.0	3279.7	3362.6	3437.8	3534.0	*3532.9*	3602.5	3598.1	3443.3
12.5°	2992.3	2991.2	3022.2	3078.5	3175.8	3280.8	3411.3	*3414.6*	3500.8	3536.2	3379.2
15°	2819.9	2822.1	2851.9	2910.5	3011.1	3139.3	3290.8	*3318.4*	3415.7	3487.5	3316.2
17.5°	2697.2	2698.3	2716.0	2766.8	2865.2	3002.3	3184.7	*3222.2*	3347.2	3451.1	3265.4
20°	2640.8	2636.4	2639.7	2665.1	2741.4	2866.3	3076.3	*3125.0*	3284.1	3425.6	3218.9
22.5°	2648.5	2641.9	2626.4	2623.1	2657.4	2752.4	2961.4	*3021.1*	3215.6	3410.2	3176.9
25°	2717.1	2702.7	2680.6	2647.4	2634.2	2681.7	2860.8	*2922.7*	3151.5	3411.3	3144.9
27.5°	2822.1	2806.6	2779.0	2734.8	2682.8	2662.9	2792.2	*2850.8*	3106.2	3436.7	3129.4
30°	2955.8	2943.7	2917.2	2864.1	2794.5	2712.7	2777.9	*2826.5*	3084.1	3488.6	3136.0
32.5°	3113.9	3105.1	3083.0	3034.3	2954.7	2829.8	2826.5	*2864.1*	3101.8	3563.8	3161.4
35°	3266.5	3269.8	3270.9	3244.4	3159.2	3007.8	2960.3	*2973.5*	3174.7	3676.6	3218.9
37.5°	3431.2	3423.4	3463.2	3482.0	3400.2	3238.8	3167.0	*3168.1*	3314.0	3843.5	3327.3
40°	3556.1	3558.3	3644.5	3721.9	3687.6	3531.8	3429.0	*3427.8*	3528.4	4072.3	3501.9
42.5°	3673.2	3687.6	3814.7	3947.4	3994.9	3856.7	3782.7	*3755.0*	3829.1	4381.8	3763.9
45°	3798.2	3819.2	3997.1	4186.2	4311.1	4229.3	4170.7	*4181.7*	4190.6	4742.2	4116.5
47.5°	3944.1	3957.3	4177.3	4443.7	4676.9	4655.9	4659.3	*4646.0*	4641.6	5196.5	4583.0
50°	4120.9	4151.9	4405.0	4723.4	5041.7	5181.0	5227.4	*5233.0*	5161.1	5691.7	5066.1
52.5°	4496.8	4534.4	4751.0	5029.6	5439.7	5732.6	5921.6	*5884.0*	5773.5	6171.5	5595.5
55°	4940.0	4968.8	5177.7	5466.2	5926.1	6337.3	6786.1	*6770.6*	6499.8	6676.6	6031.1
57.5°	4982.0	5014.1	5338.0	5780.1	6550.6	7084.5	7556.5	*7606.3*	7209.4	7034.8	6420.2
60°	4510.0	4575.3	5017.4	5612.1	6789.4	8089.3	8401.0	*8411.0*	7730.1	7398.4	6895.5
62.5°	3614.7	3645.6	4091.1	4867.1	6421.3	8675.2	9691.0	*9481.0*	8398.8	7961.1	7648.3
65°	1894.7	2020.7	2408.7	3267.6	5207.5	8470.7	11243.0	*11185.5*	9601.5	8766.9	8234.1
67.5°	*1300.0*	*1298.8*	*1390.6*	*1703.4*	*3105.1*	*7293.4*	*12004.6*	*12636.9*	*10992.1*	*9043.3*	*7809.7*
70°	989.3	992.6	1074.4	1277.8	1608.4	4854.9	11169.0	*12250.0*	11250.8	8210.9	6316.3
72.5°	656.6	663.2	799.2	1032.4	1284.5	2379.9	8679.6	*9801.6*	9466.7	6594.8	4445.9
75°	392.4	397.9	495.2	750.6	1141.9	1332.0	5514.8	*6776.1*	6516.3	4545.4	2383.2
77.5°	161.4	165.8	254.2	467.6	835.7	1034.7	3049.8	*4433.8*	3903.2	1807.3	651.1
80°	67.4	69.6	122.7	327.2	602.4	648.9	1412.7	*2083.7*	1599.5	389.1	199.0
82.5°	24.3	25.4	45.3	180.2	374.7	488.6	713.0	*823.5*	451.0	127.1	107.2
85°	1.1	1.1	11.1	60.8	142.6	138.2	407.9	*394.6*	149.2	53.1	64.1
87.5°	0.0	0.0	1.1	1.1	2.2	5.5	38.7	*68.5*	32.1	13.3	27.6
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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Scaled Data Report

REPORT NUMBER: P637485
CATALOG NUMBER: GWS-SA4C-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5
2.5°	3579.3	3520.7	3456.6	3396.9	3301.8	3245.5	3175.8	3144.9	3100.6	3089.6	3096.2
5°	3506.3	3405.7	3252.1	3112.8	2932.6	2787.8	2641.9	2580.0	2500.4	2447.4	2425.2
7.5°	3403.5	3272.0	3032.1	2779.0	2531.4	2267.2	2066.0	1933.3	1812.9	1746.5	1733.3
10°	3299.6	3128.3	2784.5	2421.9	2038.4	1722.2	1450.3	1249.1	1085.5	1011.4	954.0
12.5°	3192.4	2979.1	2532.5	2059.4	1613.9	1182.8	846.7	651.1	533.9	487.5	495.2
15°	3094.0	2835.4	2282.7	1696.8	1136.4	714.1	467.6	394.6	367.0	358.1	357.0
17.5°	3000.1	2699.4	2033.9	1344.2	749.5	437.7	358.1	340.5	332.7	328.3	328.3
20°	2914.9	2569.0	1790.7	1012.5	484.2	347.1	323.9	315.0	308.4	305.1	305.1
22.5°	2835.4	2442.9	1553.1	716.3	357.0	311.7	297.4	288.5	280.8	276.4	276.4
25°	2763.5	2329.1	1326.5	493.0	307.3	285.2	269.7	259.8	246.5	238.8	238.8
27.5°	2711.5	2227.4	1108.7	359.3	277.5	256.5	238.8	225.5	211.1	202.3	200.1
30°	2680.6	2141.2	888.7	295.1	249.8	228.8	208.9	192.3	175.8	166.9	165.8
32.5°	2662.9	2061.6	687.6	257.6	226.6	202.3	180.2	162.5	145.9	136.0	134.9
35°	2669.5	1999.7	515.1	232.1	204.5	179.1	154.8	137.1	122.7	113.9	111.6
37.5°	2727.0	1972.0	386.9	212.2	185.7	159.2	133.8	117.2	103.9	97.3	96.2
40°	2838.7	1977.6	304.0	196.8	170.2	139.3	115.0	99.5	89.5	84.0	82.9
42.5°	3012.2	2024.0	250.9	183.5	153.7	121.6	99.5	87.3	77.4	71.9	70.7
45°	3270.9	2120.2	218.9	168.0	136.0	105.0	86.2	75.2	66.3	59.7	58.6
47.5°	3645.6	2287.1	197.9	153.7	120.5	90.6	74.1	63.0	55.3	49.7	48.6
50°	4044.7	2487.2	180.2	139.3	107.2	78.5	63.0	52.0	45.3	39.8	38.7
52.5°	4470.2	2702.7	166.9	126.0	95.1	67.4	53.1	43.1	36.5	31.0	29.8
55°	4879.2	2919.4	151.4	117.2	80.7	57.5	44.2	35.4	28.7	24.3	24.3
57.5°	5277.2	3118.3	134.9	102.8	66.3	48.6	36.5	28.7	23.2	19.9	18.8
60°	5752.5	3393.6	116.1	87.3	55.3	40.9	29.8	23.2	18.8	15.5	15.5
62.5°	6458.9	3679.9	99.5	73.0	46.4	34.3	24.3	18.8	15.5	13.3	12.2
65°	6689.9	3525.1	84.0	59.7	37.6	27.6	19.9	16.6	13.3	12.2	11.1
67.5°	*6073.1*	*2889.5*	*69.6*	*48.6*	*31.0*	*23.2*	*17.7*	*14.4*	*12.2*	*11.1*	*9.9*
70°	4738.9	2050.5	54.2	36.5	25.4	18.8	15.5	13.3	11.1	9.9	9.9
72.5°	3223.3	1212.6	43.1	27.6	21.0	16.6	13.3	12.2	11.1	9.9	8.8
75°	1587.4	431.1	33.2	21.0	16.6	14.4	12.2	11.1	9.9	8.8	8.8
77.5°	427.8	119.4	25.4	16.6	13.3	11.1	11.1	11.1	9.9	7.7	7.7
80°	144.8	49.7	18.8	12.2	11.1	8.8	7.7	9.9	8.8	7.7	6.6
82.5°	79.6	24.3	13.3	9.9	7.7	6.6	6.6	6.6	6.6	5.5	5.5
85°	50.8	13.3	8.8	7.7	7.7	5.5	4.4	4.4	3.3	3.3	3.3
87.5°	23.2	7.7	7.7	6.6	6.6	5.5	3.3	2.2	1.1	1.1	1.1
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

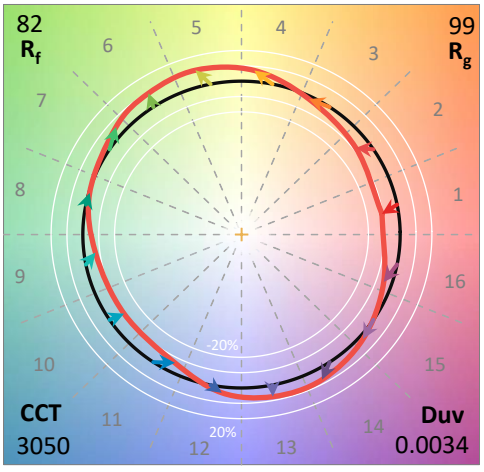
Test Information

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

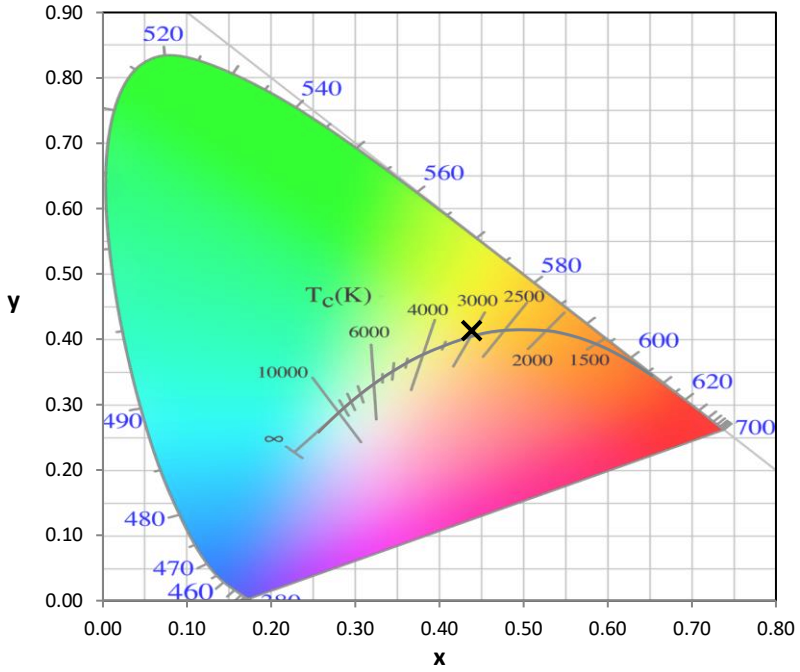
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

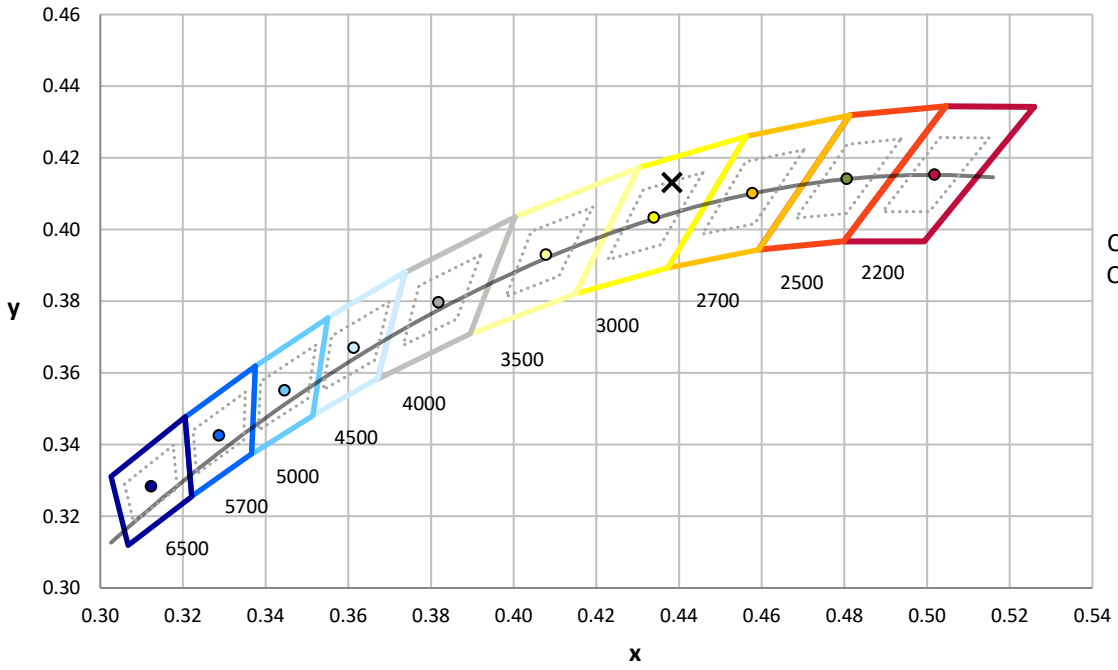
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

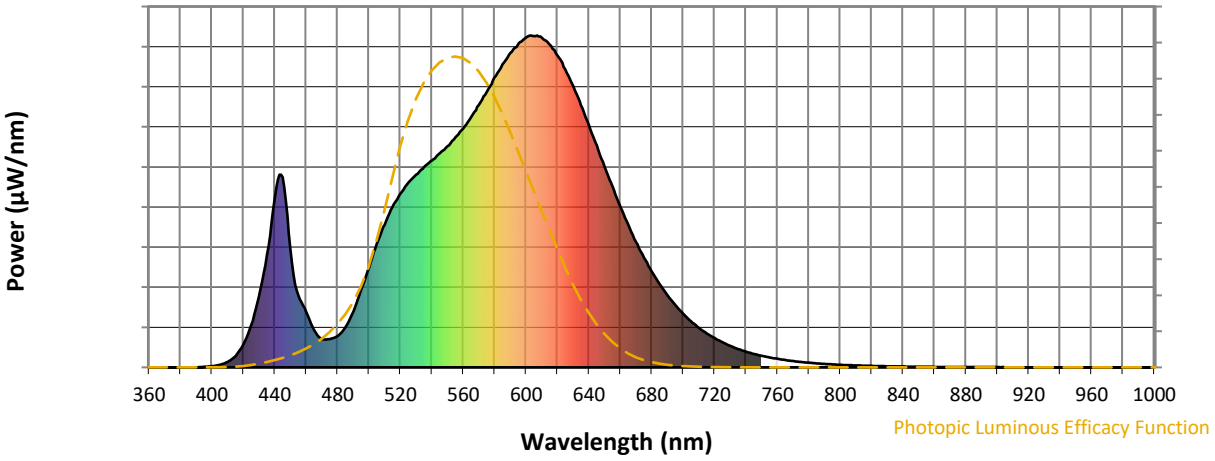


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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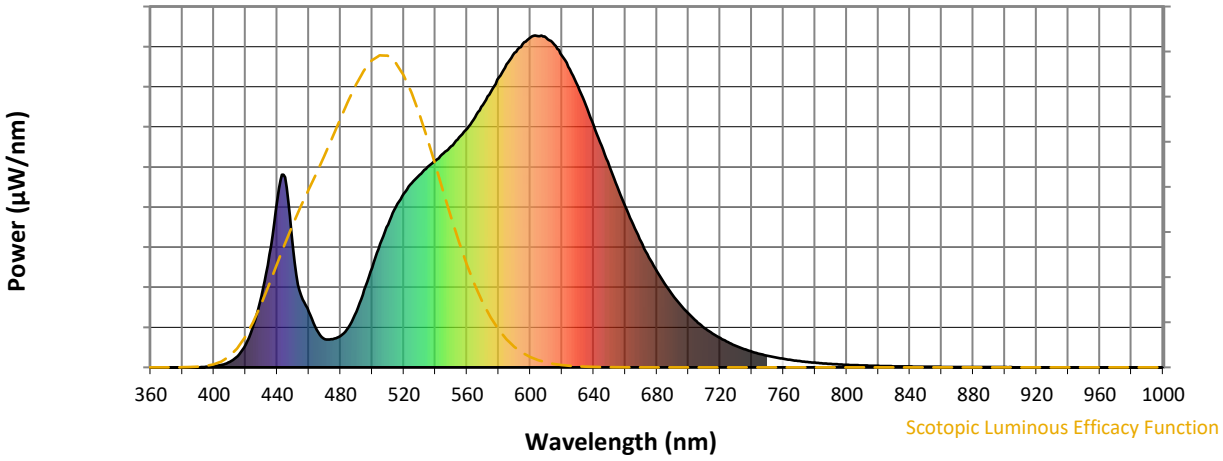
Scotopic Flux vs. Wavelength



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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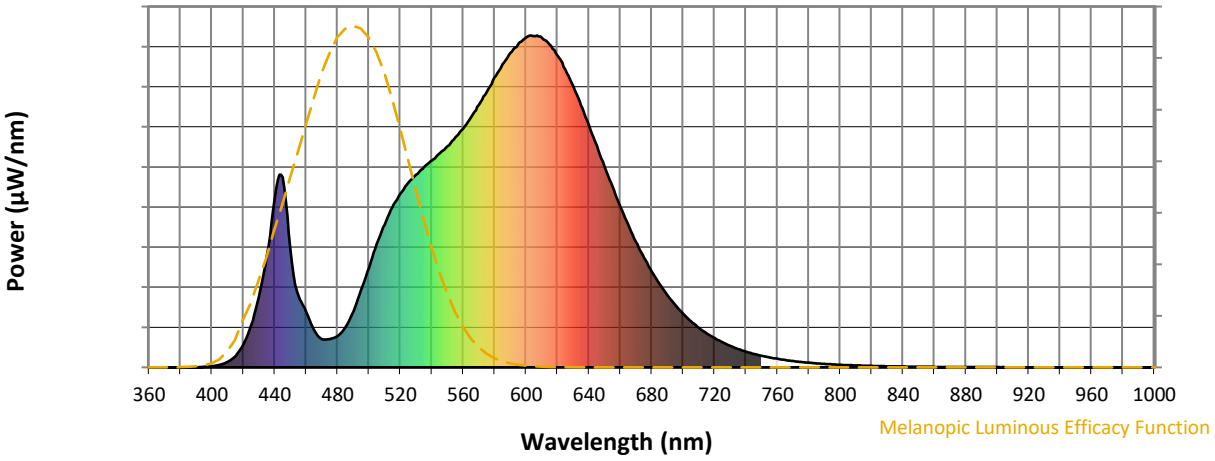
Melanopic Flux vs. Wavelength



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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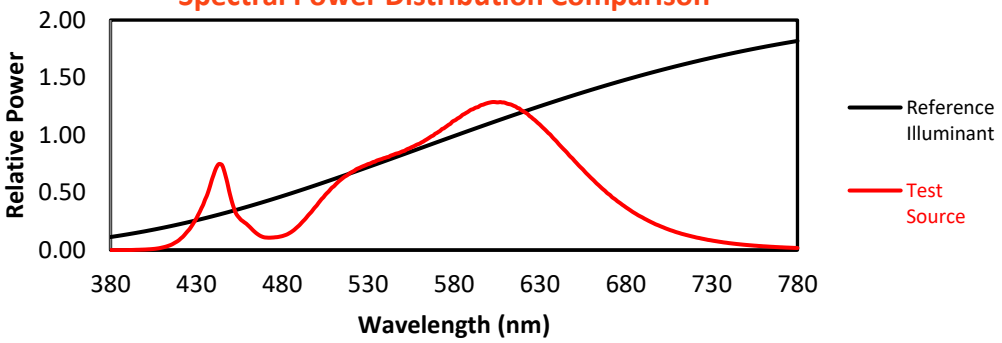
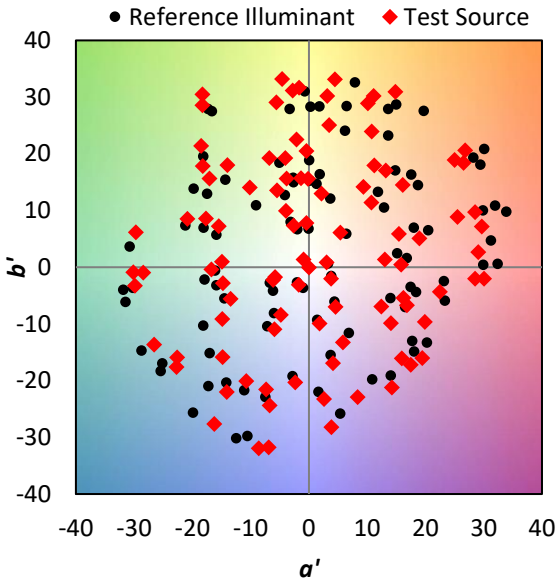
Summary

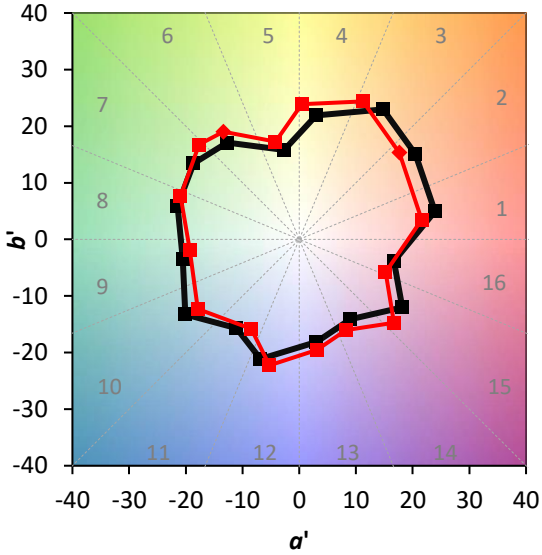
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

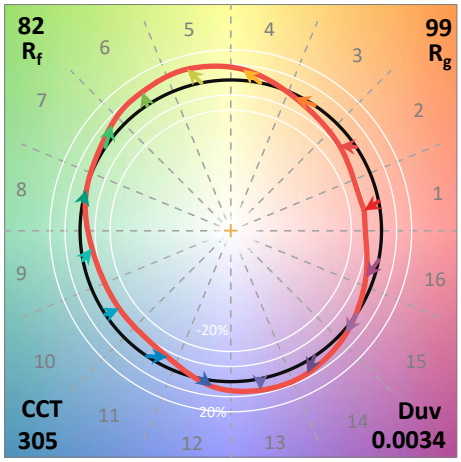
Spectral Power Distribution Comparison

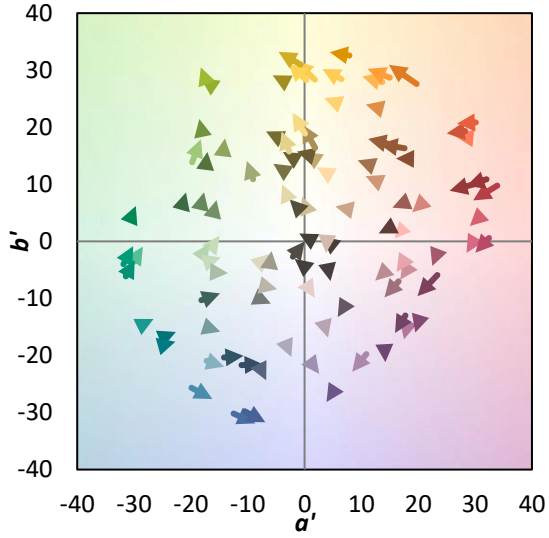


Color Vector Graphics









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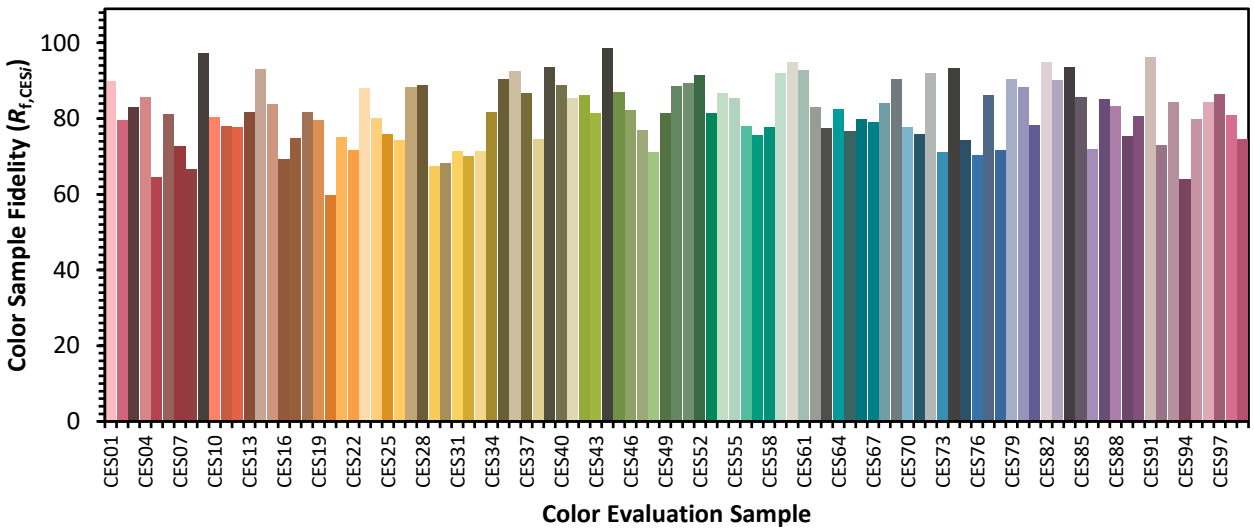
Individual Sample Fidelity Index ($R_{f,i}$)

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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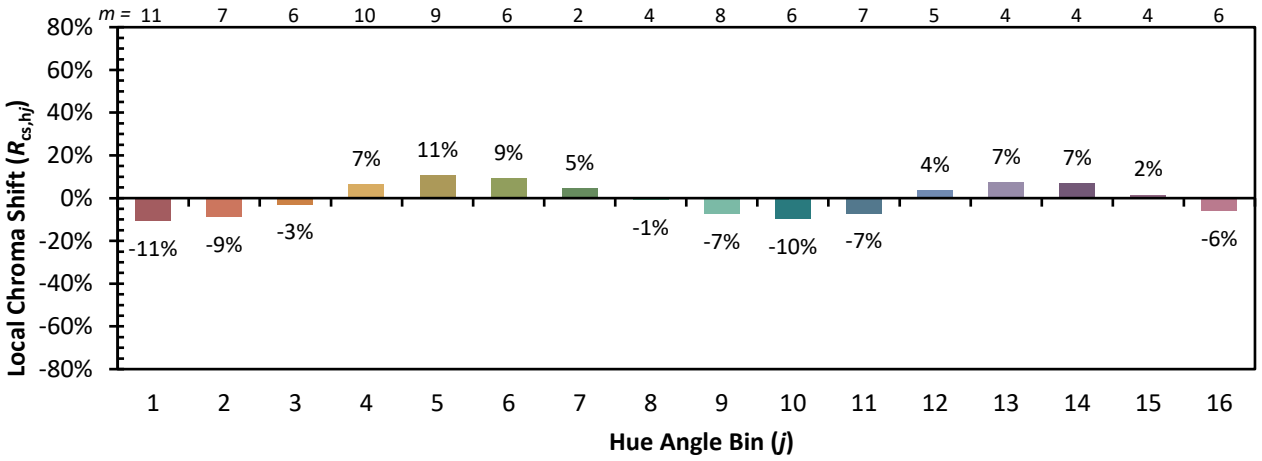
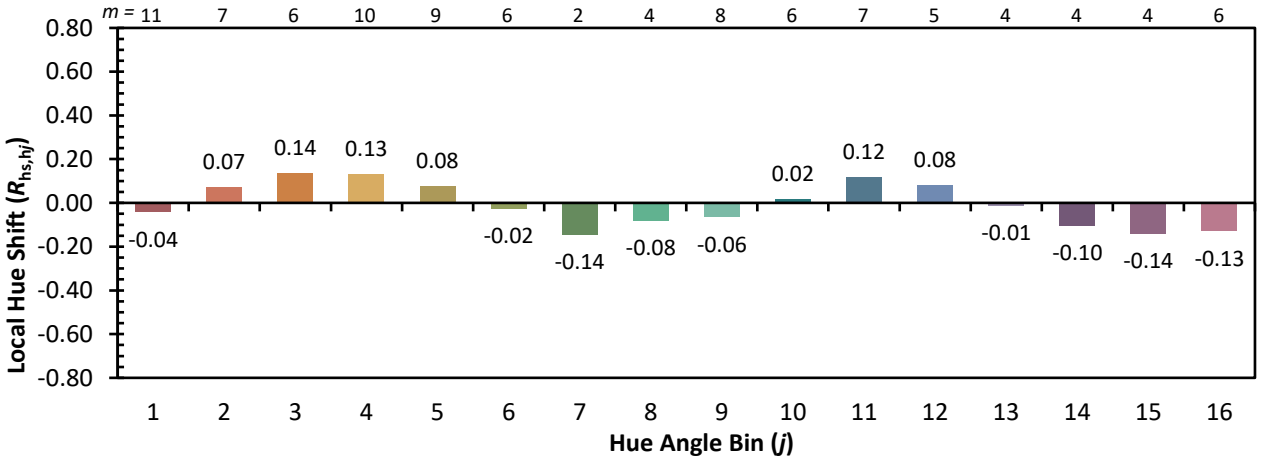
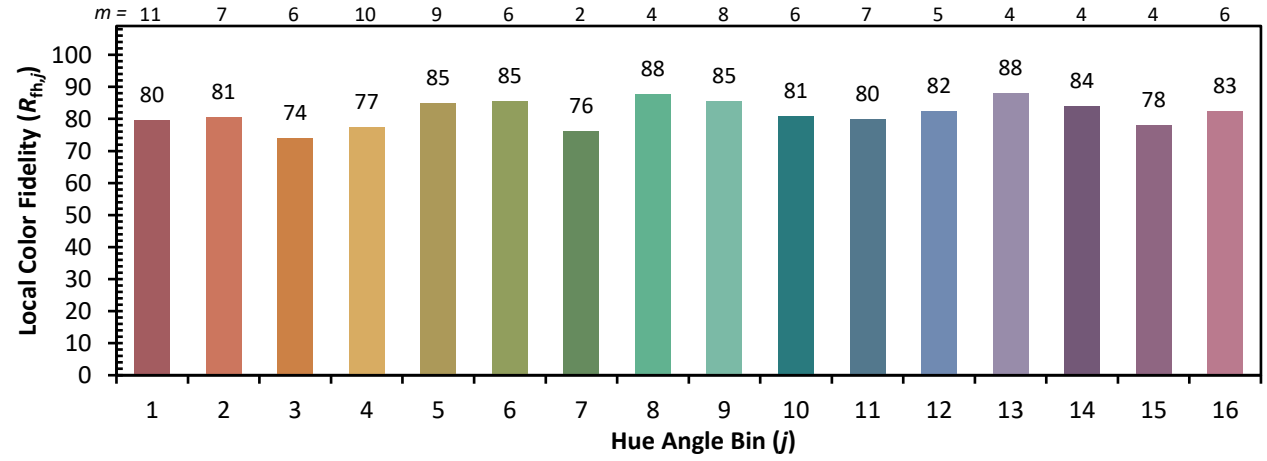
Color Rendition by Hue-Angle Bin







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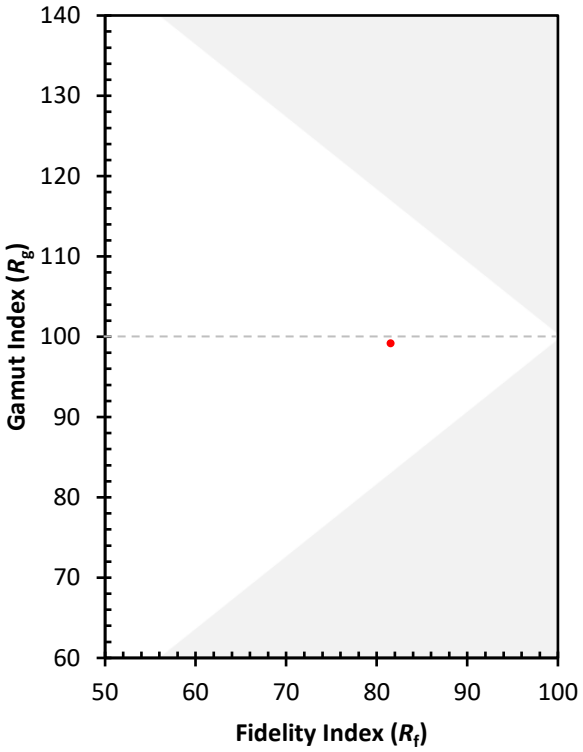
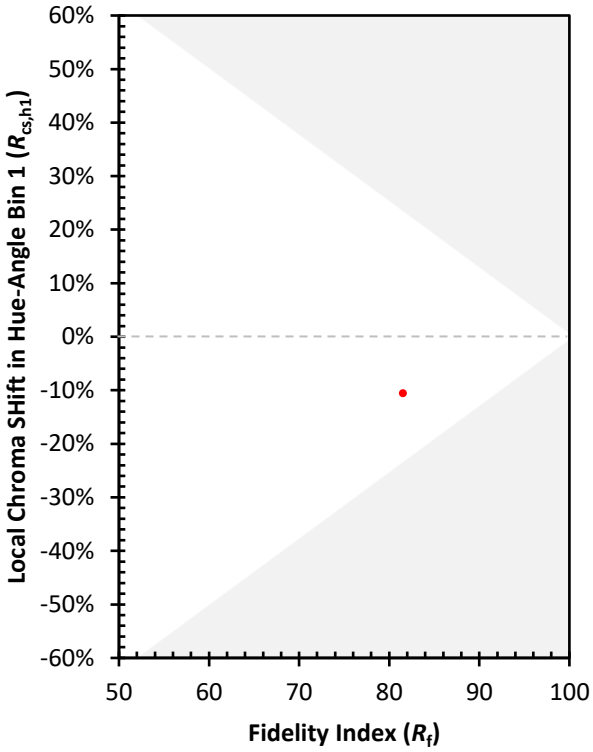
Measure Comparisons





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