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: P639465

Luminaire Tested: GWS-SA5B-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:	P639465
	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-SA5B-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11424 lumens
Efficiency:	N/A
Efficacy:	98.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	115.7
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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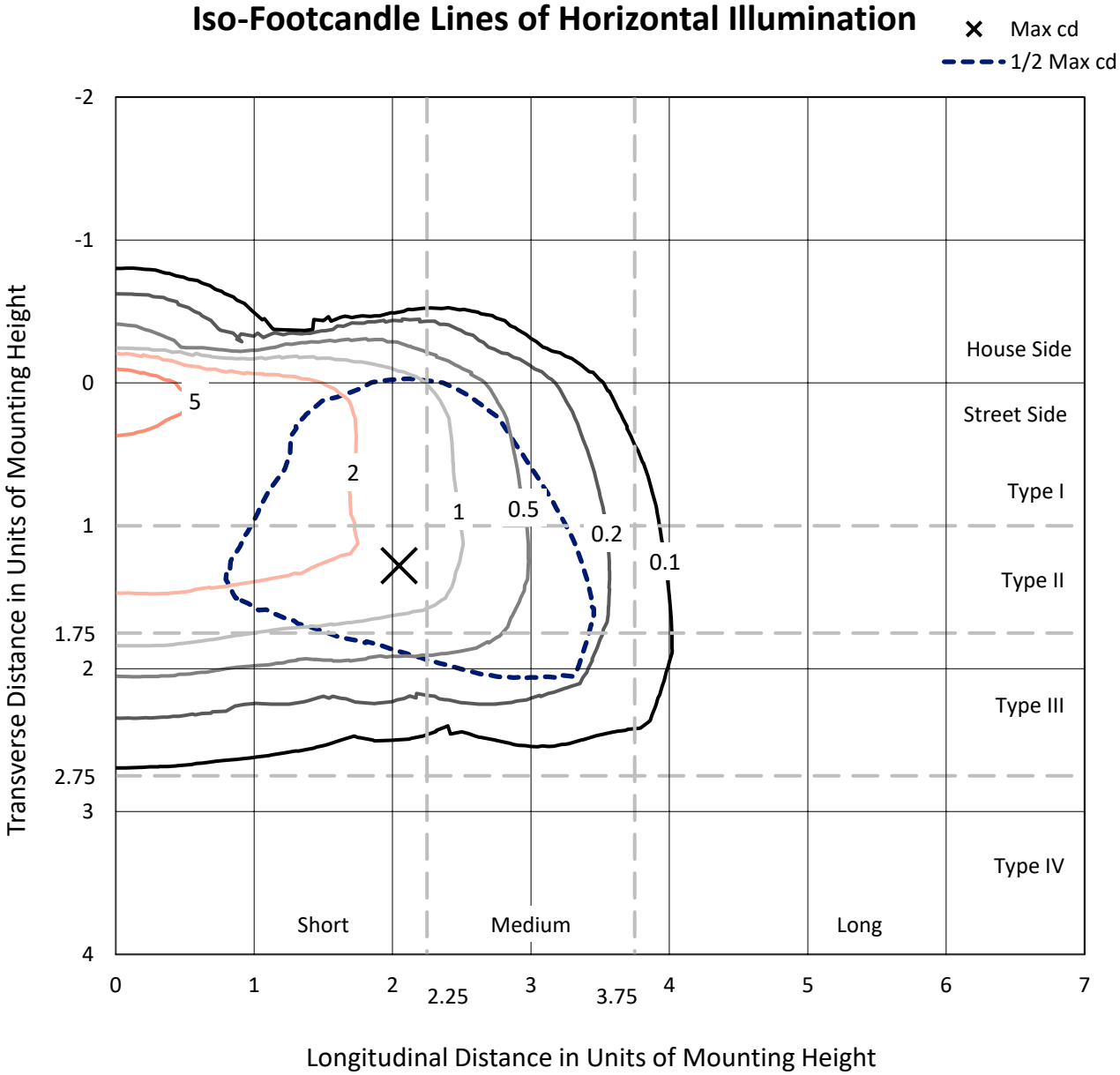
REPORT NUMBER: P639465
CATALOG NUMBER: GWS-SA5B-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Short - N/A

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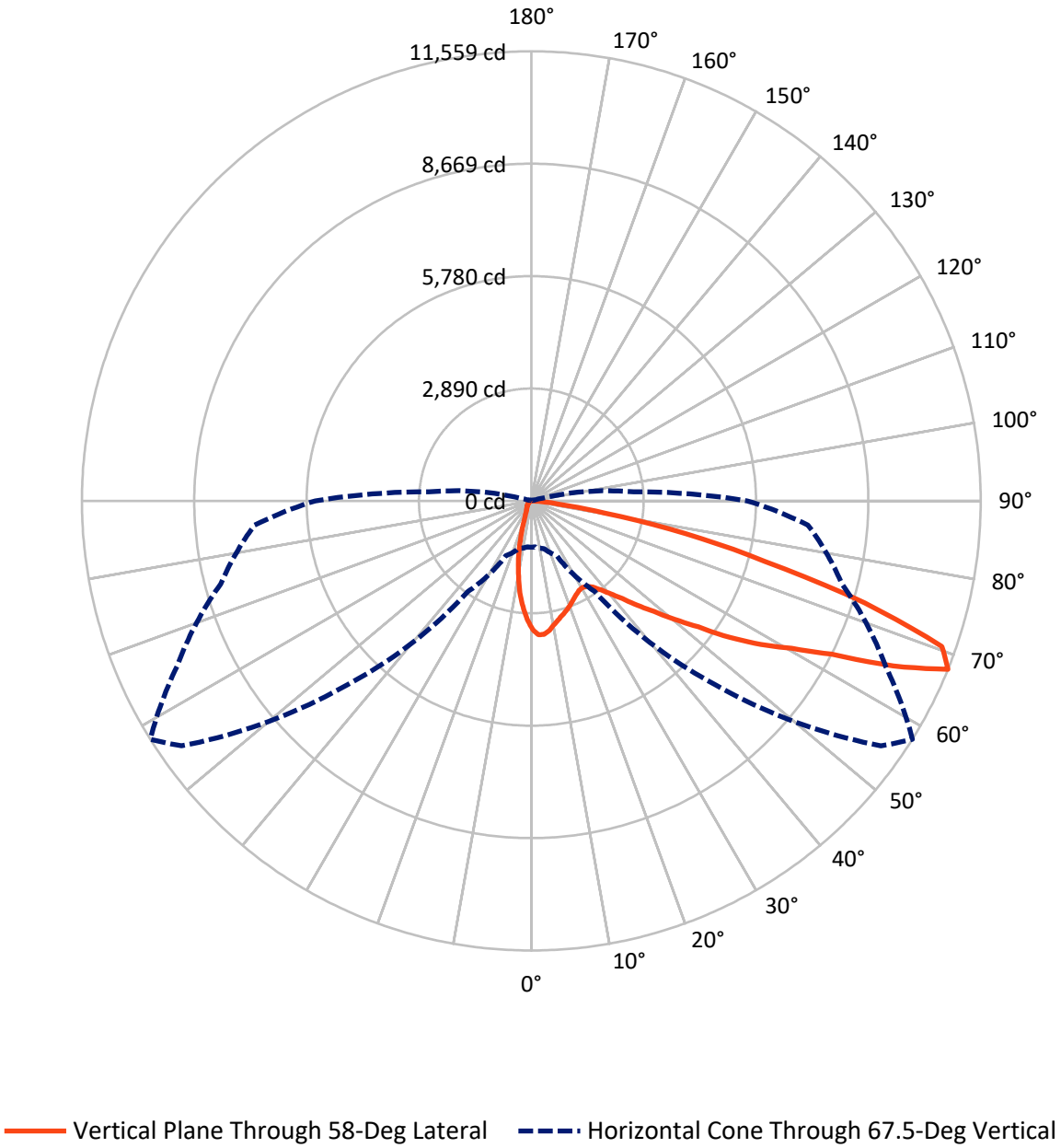
Luminous Intensity Polar Plot



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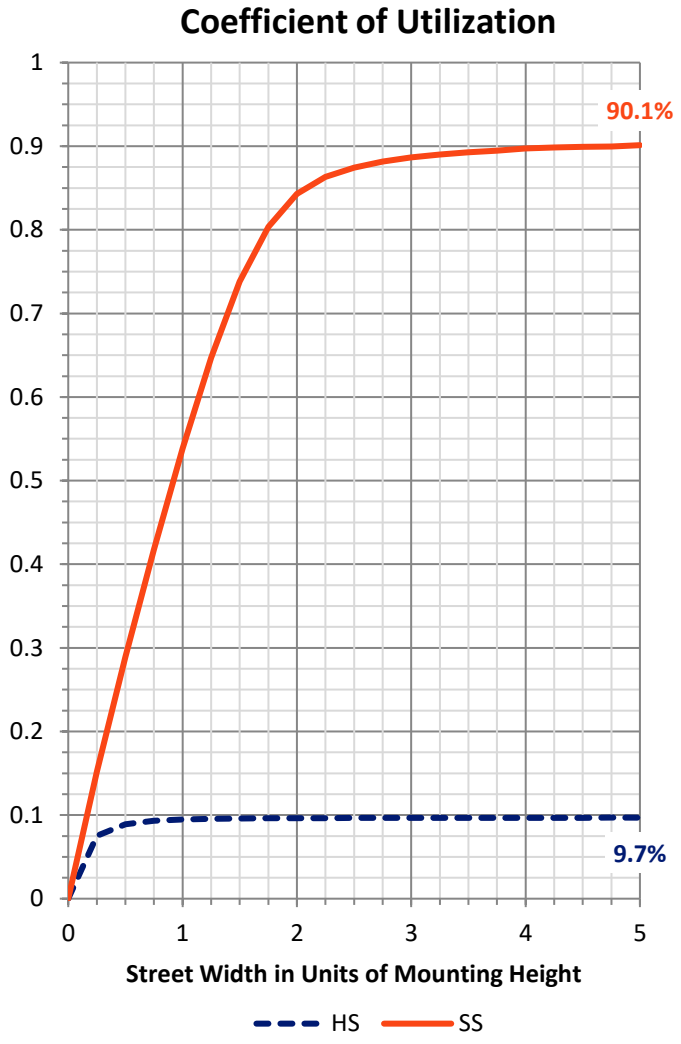
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.1	0.0	1116.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10308.0	0.0	10308.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	11424.0	0.0	11424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	2.3
10°-20°	557.4	4.9
20°-30°	751.7	6.6
30°-40°	1056.3	9.2
40°-50°	1631.3	14.3
50°-60°	2608.7	22.8
60°-70°	3088.9	27.0
70°-80°	1366.4	12.0
80°-90°	95.5	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°	11424.0	100.0
0°-180°	11424.0	100.0



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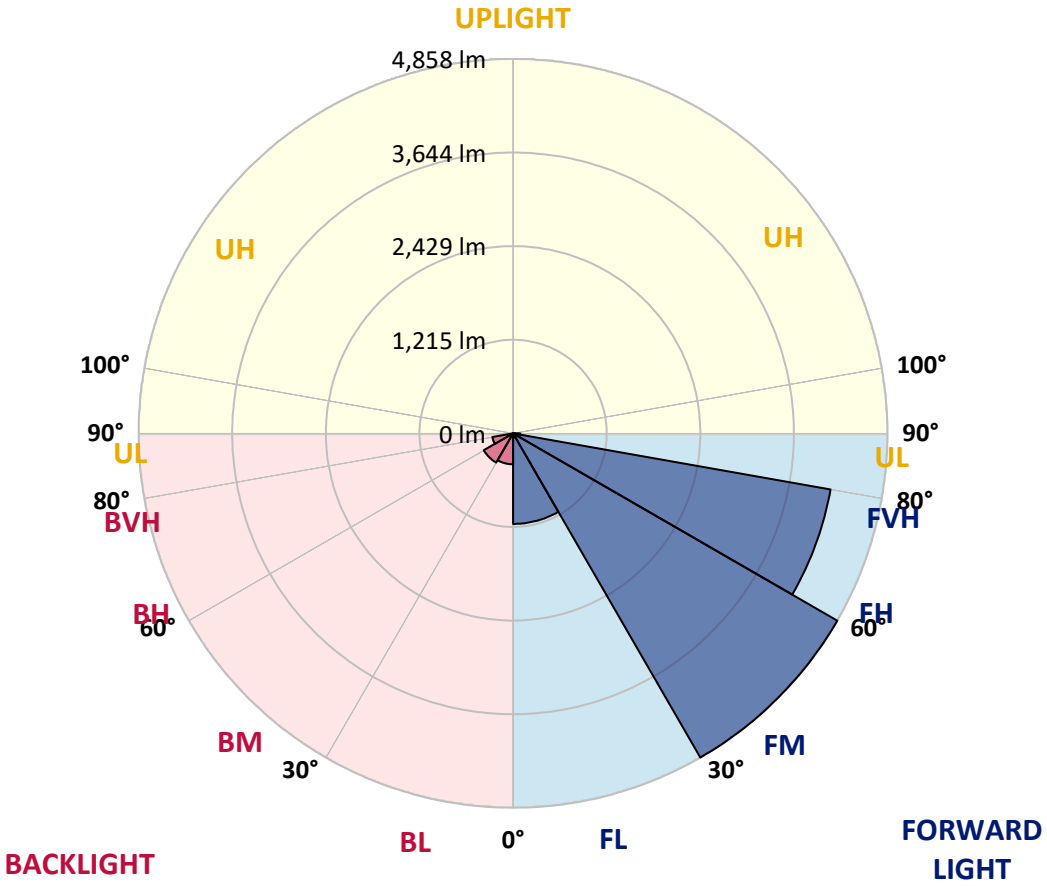
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1175.2	10.3			
FM	(30°-60°)	4858.4	42.5			
FH	(60°-80°)	4182.9	36.6			G2/5000
FVH	(80°-90°)	91.5	0.8			G1/100
BL	(0°-30°)	401.6	3.5	B1/500		
BM	(30°-60°)	437.9	3.8	B1/1000		
BH	(60°-80°)	272.5	2.4	B1/500		G1/500
BVH	(80°-90°)	4.1	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: P639465
CATALOG NUMBER: GWS-SA5B-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2
2.5°	3466.1	3472.2	3480.3	3490.4	3488.3	3479.2	3468.1	3442.8	3426.7	3376.1	3314.4
5°	3354.9	3353.9	3374.1	3393.3	3427.7	3445.9	3471.2	3447.9	3439.8	3379.1	3279.0
7.5°	3137.5	3148.6	3171.9	3202.2	3251.7	3305.3	3366.0	3358.9	3383.2	3342.7	3218.4
10°	2924.1	2918.1	2954.5	3000.0	3075.8	3144.6	3232.5	3231.5	3295.2	3291.2	3149.6
12.5°	2737.1	2736.1	2764.4	2816.0	2904.9	3001.0	3120.3	3123.3	3202.2	3234.6	3091.0
15°	2579.3	2581.4	2608.7	2662.3	2754.3	2871.6	3010.1	3035.4	3124.3	3190.1	3033.3
17.5°	2467.1	2468.1	2484.3	2530.8	2620.8	2746.2	2913.0	2947.4	3061.7	3156.7	2986.8
20°	2415.5	2411.5	2414.5	2437.8	2507.6	2621.8	2813.9	2858.4	3004.0	3133.4	2944.4
22.5°	2422.6	2416.6	2402.4	2399.4	2430.7	2517.7	2708.8	2763.4	2941.3	3119.3	2905.9
25°	2485.3	2472.2	2451.9	2421.6	2409.5	2453.0	2616.8	2673.4	2882.7	3120.3	2876.6
27.5°	2581.4	2567.2	2541.9	2501.5	2454.0	2435.8	2554.1	2607.7	2841.2	3143.6	2862.5
30°	2703.7	2692.6	2668.3	2619.8	2556.1	2481.3	2540.9	2585.4	2821.0	3191.1	2868.5
32.5°	2848.3	2840.2	2820.0	2775.5	2702.7	2588.4	2585.4	2619.8	2837.2	3259.8	2891.8
35°	2987.8	2990.9	2991.9	2967.6	2889.8	2751.2	2707.8	2719.9	2903.9	3363.0	2944.4
37.5°	3138.5	3131.4	3167.8	3185.0	3110.2	2962.6	2896.8	2897.9	3031.3	3515.6	3043.5
40°	3252.8	3254.8	3333.6	3404.4	3373.1	3230.5	3136.5	3135.5	3227.5	3724.9	3203.2
42.5°	3359.9	3373.1	3489.4	3610.7	3654.2	3527.8	3460.0	3434.8	3502.5	4008.1	3442.8
45°	3474.2	3493.4	3656.2	3829.1	3943.3	3868.5	3814.9	3825.0	3833.1	4337.7	3765.4
47.5°	3607.7	3619.8	3821.0	4064.7	4278.0	4258.8	4261.8	4249.7	4245.7	4753.2	4192.1
50°	3769.4	3797.7	4029.3	4320.5	4611.7	4739.1	4781.6	4786.6	4720.9	5206.2	4633.9
52.5°	4113.2	4147.6	4345.8	4600.6	4975.7	5243.6	5416.5	5382.2	5281.0	5645.0	5118.3
55°	4518.7	4545.0	4736.1	5000.0	5420.6	5796.7	6207.2	6193.1	5945.3	6107.1	5516.6
57.5°	4557.1	4586.4	4882.7	5287.1	5991.9	6480.2	6912.0	6957.5	6594.5	6434.7	5872.5
60°	4125.3	4185.0	4589.4	5133.4	6210.3	7399.3	7684.5	7693.6	7070.7	6767.4	6307.3
62.5°	3306.3	3334.7	3742.1	4451.9	5873.6	7935.2	8864.4	8672.3	7682.4	7282.0	6995.9
65°	1733.0	1848.3	2203.2	2988.9	4763.4	7748.2	10284.0	10231.5	8782.5	8019.1	7531.8
67.5°	1189.1	1188.1	1272.0	1558.1	2840.2	6671.3	10980.7	11559.0	10054.5	8271.9	7143.5
70°	904.9	908.0	982.8	1168.8	1471.2	4440.8	10216.3	11205.2	10291.1	7510.5	5777.5
72.5°	600.6	606.7	731.0	944.4	1174.9	2176.9	7939.3	8965.5	8659.2	6032.3	4066.7
75°	358.9	364.0	453.0	686.5	1044.5	1218.4	5044.4	6198.1	5960.5	4157.7	2180.0
77.5°	147.6	151.7	232.6	427.7	764.4	946.4	2789.7	4055.6	3570.2	1653.2	595.5
80°	61.7	63.7	112.2	299.3	551.1	593.5	1292.2	1905.9	1463.1	355.9	182.0
82.5°	22.2	23.3	41.5	164.8	342.8	446.9	652.2	753.3	412.5	116.3	98.1
85°	1.0	1.0	10.1	55.6	130.4	126.4	373.1	361.0	136.5	48.5	58.6
87.5°	0.0	0.0	1.0	1.0	2.0	5.1	35.4	62.7	29.3	12.1	25.3
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: P639465
CATALOG NUMBER: GWS-SA5B-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2
2.5°	3274.0	3220.4	3161.8	3107.2	3020.2	2968.6	2904.9	2876.6	2836.2	2826.1	2832.1
5°	3207.3	3115.2	2974.7	2847.3	2682.5	2550.0	2416.6	2359.9	2287.1	2238.6	2218.4
7.5°	3113.2	2992.9	2773.5	2541.9	2315.4	2073.8	1889.8	1768.4	1658.2	1597.6	1585.4
10°	3018.2	2861.5	2547.0	2215.3	1864.5	1575.3	1326.6	1142.6	992.9	925.2	872.6
12.5°	2920.1	2724.9	2316.5	1883.7	1476.2	1081.9	774.5	595.5	488.4	445.9	453.0
15°	2830.1	2593.5	2087.9	1552.1	1039.4	653.2	427.7	361.0	335.7	327.6	326.6
17.5°	2744.2	2469.1	1860.4	1229.5	685.5	400.4	327.6	311.4	304.3	300.3	300.3
20°	2666.3	2349.8	1638.0	926.2	442.9	317.5	296.3	288.2	282.1	279.1	279.1
22.5°	2593.5	2234.6	1420.6	655.2	326.6	285.1	272.0	263.9	256.8	252.8	252.8
25°	2527.8	2130.4	1213.3	451.0	281.1	260.9	246.7	237.6	225.5	218.4	218.4
27.5°	2480.3	2037.4	1014.1	328.6	253.8	234.6	218.4	206.3	193.1	185.0	183.0
30°	2451.9	1958.5	812.9	270.0	228.5	209.3	191.1	175.9	160.8	152.7	151.7
32.5°	2435.8	1885.7	628.9	235.6	207.3	185.0	164.8	148.6	133.5	124.4	123.4
35°	2441.8	1829.1	471.2	212.3	187.1	163.8	141.6	125.4	112.2	104.1	102.1
37.5°	2494.4	1803.8	353.9	194.1	169.9	145.6	122.3	107.2	95.0	89.0	88.0
40°	2596.5	1808.9	278.1	180.0	155.7	127.4	105.2	91.0	81.9	76.8	75.8
42.5°	2755.3	1851.3	229.5	167.8	140.5	111.2	91.0	79.9	70.8	65.7	64.7
45°	2991.9	1939.3	200.2	153.7	124.4	96.1	78.9	68.8	60.7	54.6	53.6
47.5°	3334.7	2092.0	181.0	140.5	110.2	82.9	67.7	57.6	50.6	45.5	44.5
50°	3699.7	2275.0	164.8	127.4	98.1	71.8	57.6	47.5	41.5	36.4	35.4
52.5°	4088.9	2472.2	152.7	115.3	87.0	61.7	48.5	39.4	33.4	28.3	27.3
55°	4463.1	2670.3	138.5	107.2	73.8	52.6	40.4	32.4	26.3	22.2	22.2
57.5°	4827.1	2852.4	123.4	94.0	60.7	44.5	33.4	26.3	21.2	18.2	17.2
60°	5261.8	3104.1	106.2	79.9	50.6	37.4	27.3	21.2	17.2	14.2	14.2
62.5°	5907.9	3366.0	91.0	66.7	42.5	31.3	22.2	17.2	14.2	12.1	11.1
65°	6119.3	3224.4	76.8	54.6	34.4	25.3	18.2	15.2	12.1	11.1	10.1
67.5°	*5555.1*	*2643.0*	*63.7*	*44.5*	*28.3*	*21.2*	*16.2*	*13.1*	*11.1*	*10.1*	*9.1*
70°	4334.6	1875.6	49.5	33.4	23.3	17.2	14.2	12.1	10.1	9.1	9.1
72.5°	2948.4	1109.2	39.4	25.3	19.2	15.2	12.1	11.1	10.1	9.1	8.1
75°	1452.0	394.3	30.3	19.2	15.2	13.1	11.1	10.1	9.1	8.1	8.1
77.5°	391.3	109.2	23.3	15.2	12.1	10.1	10.1	10.1	9.1	7.1	7.1
80°	132.5	45.5	17.2	11.1	10.1	8.1	7.1	9.1	8.1	7.1	6.1
82.5°	72.8	22.2	12.1	9.1	7.1	6.1	6.1	6.1	6.1	5.1	5.1
85°	46.5	12.1	8.1	7.1	7.1	5.1	4.0	4.0	3.0	3.0	3.0
87.5°	21.2	7.1	7.1	6.1	6.1	5.1	3.0	2.0	1.0	1.0	1.0
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

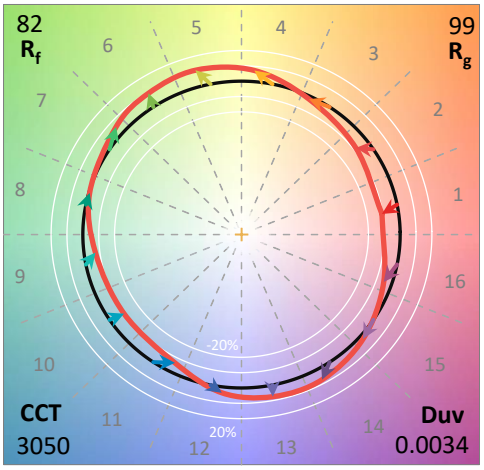
Test Information

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

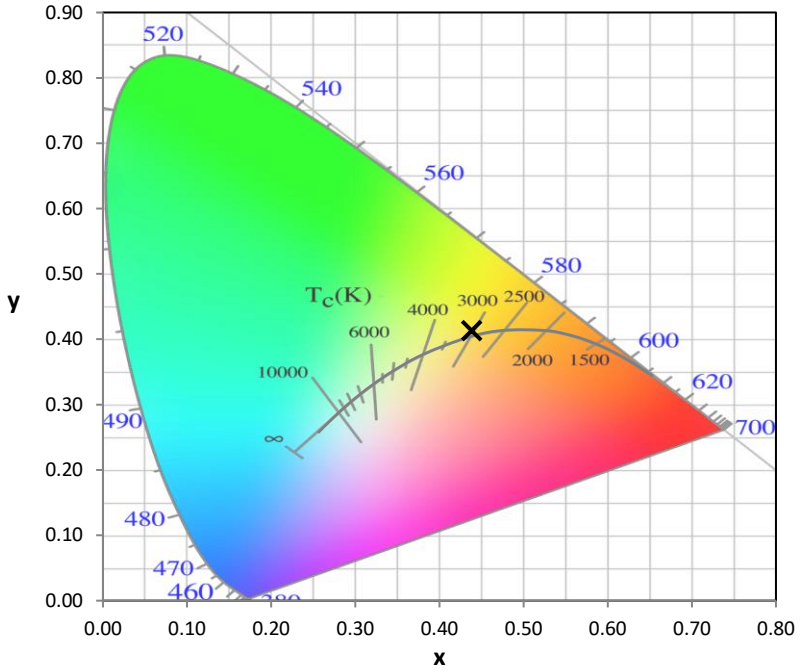
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

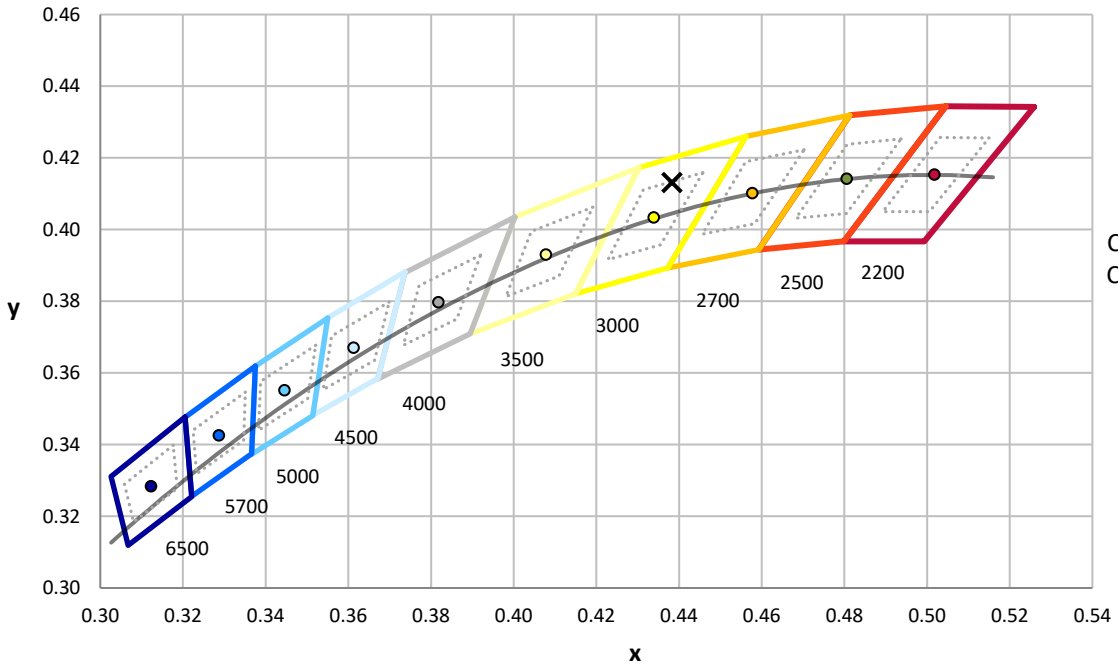
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

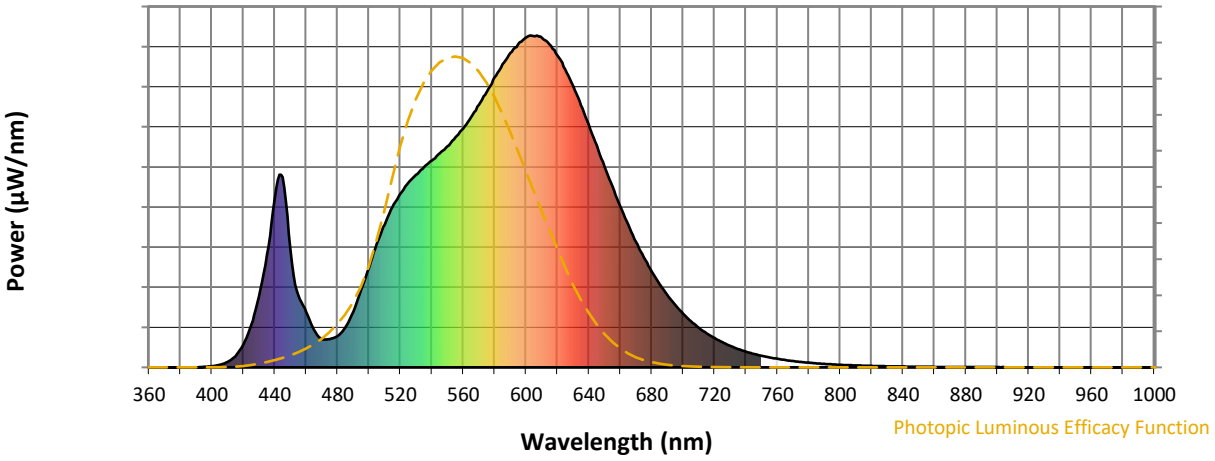


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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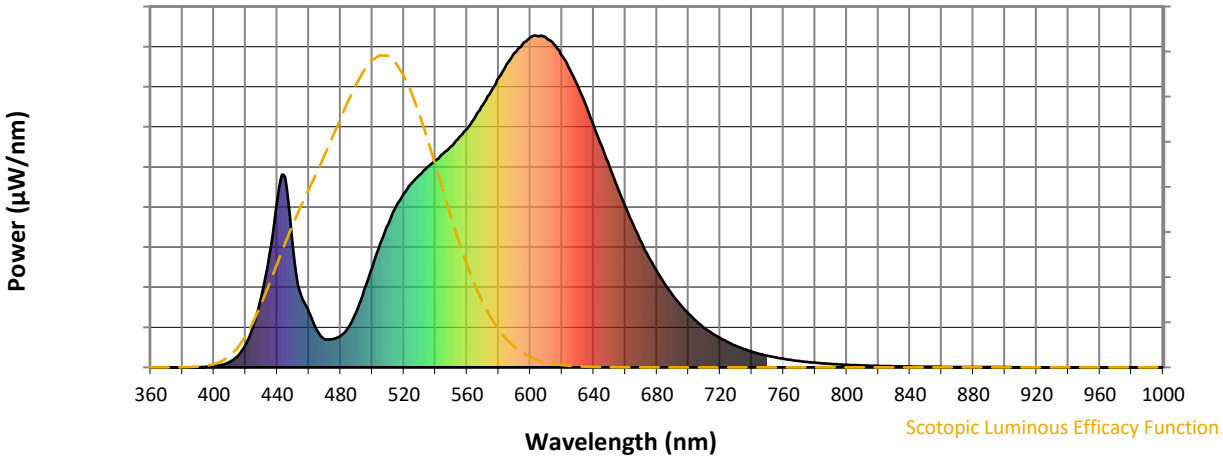
Scotopic Flux vs. Wavelength



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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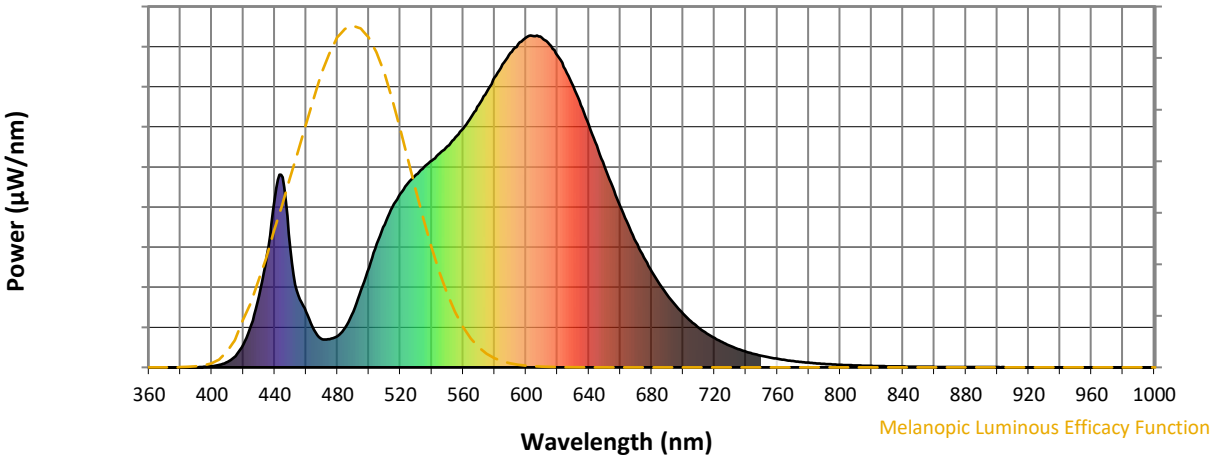
Melanopic Flux vs. Wavelength



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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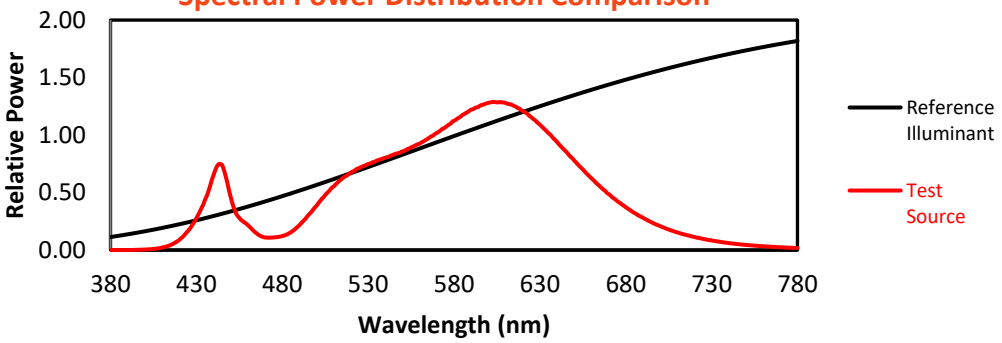
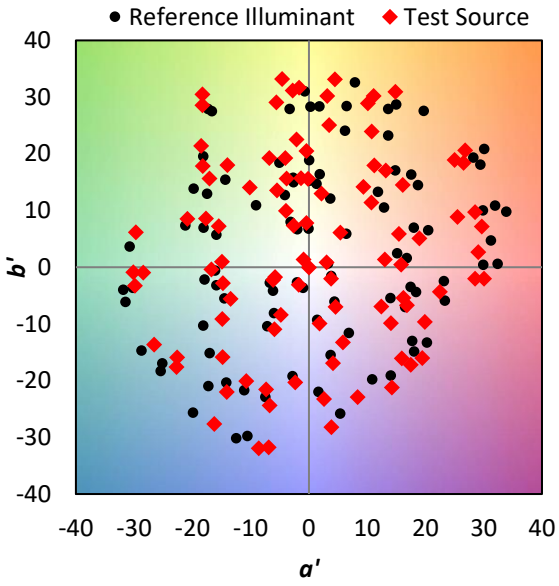
Summary

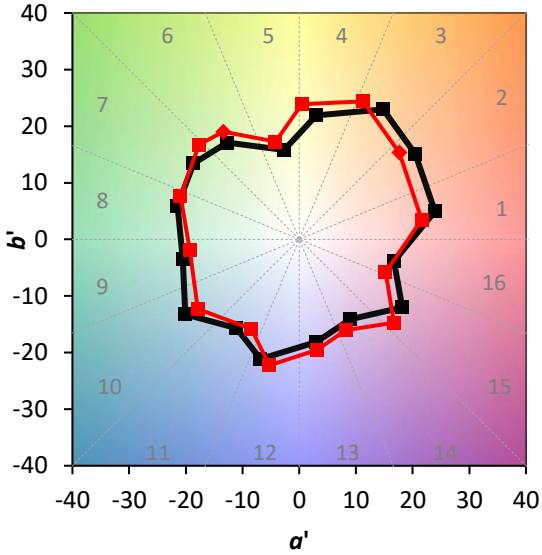
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

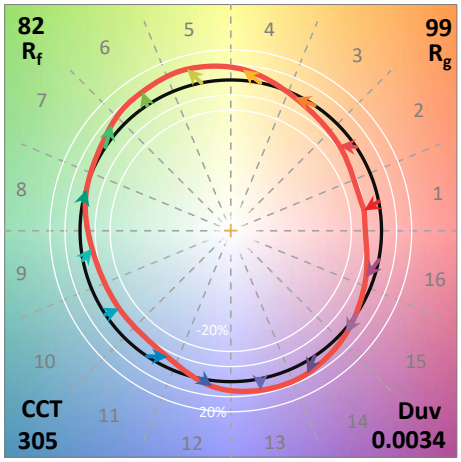
Spectral Power Distribution Comparison

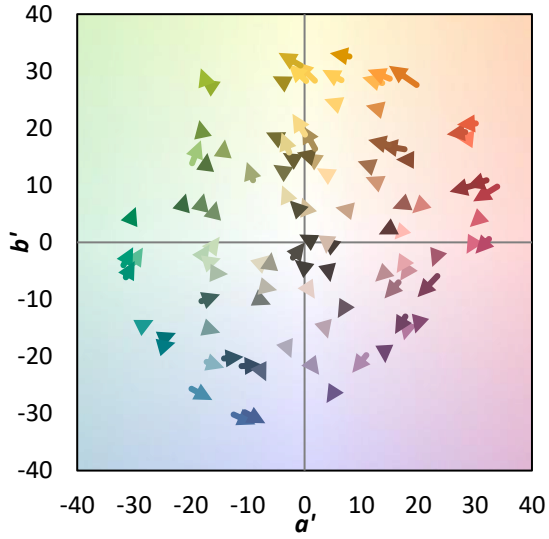


Color Vector Graphics









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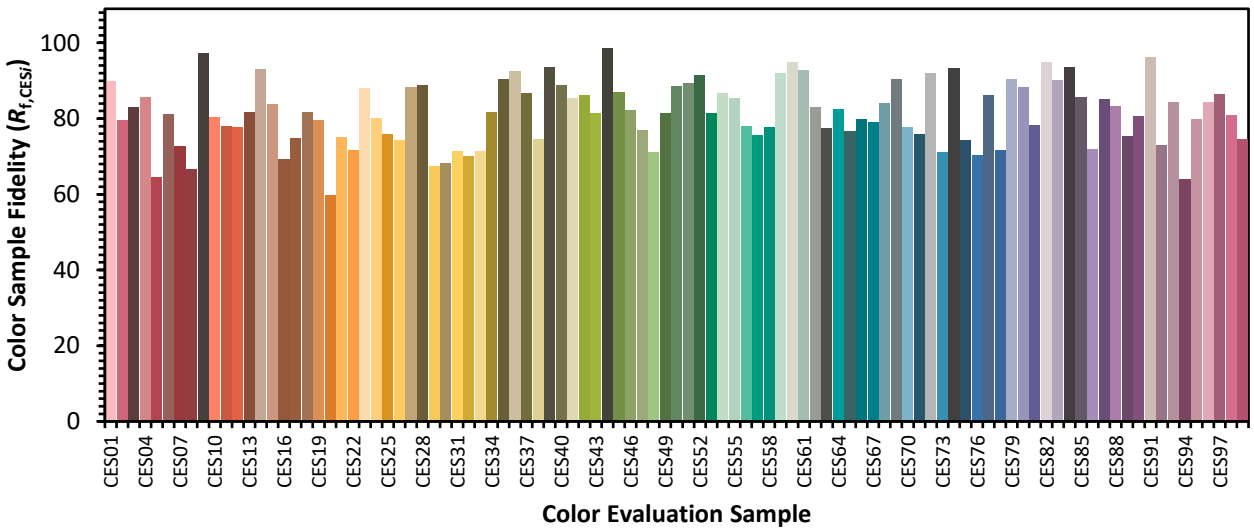
Individual Sample Fidelity Index ($R_{f,i}$)

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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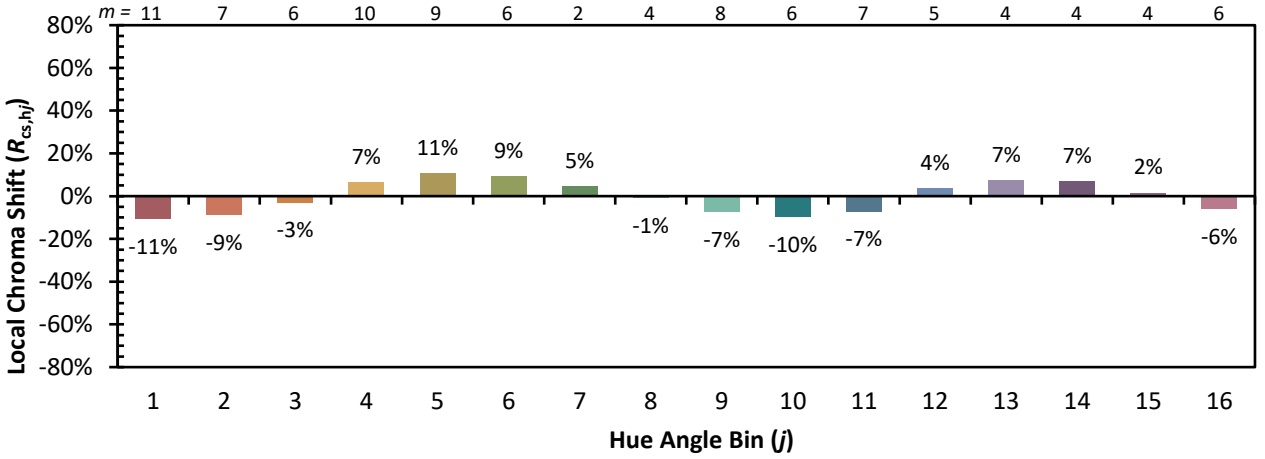
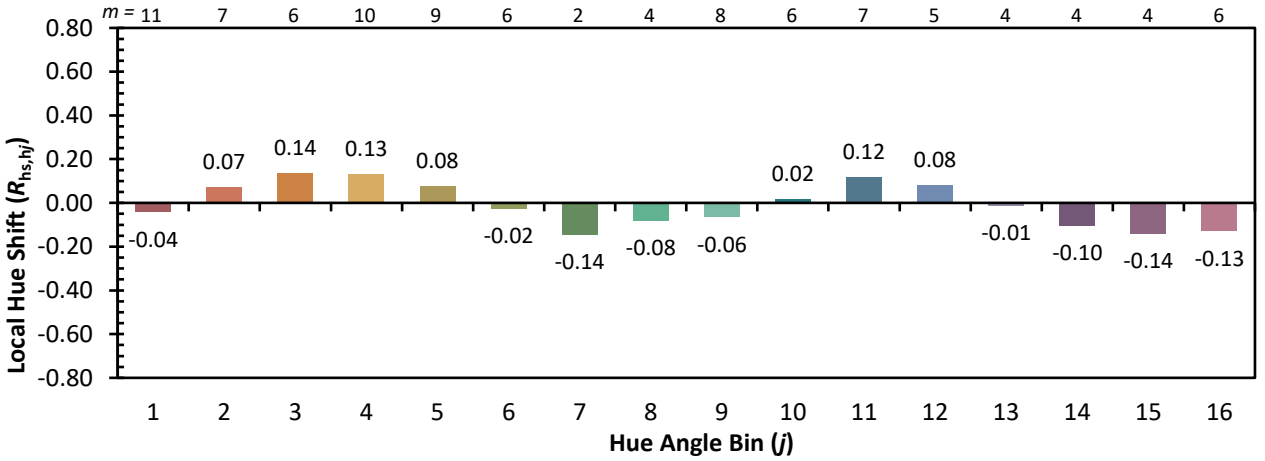
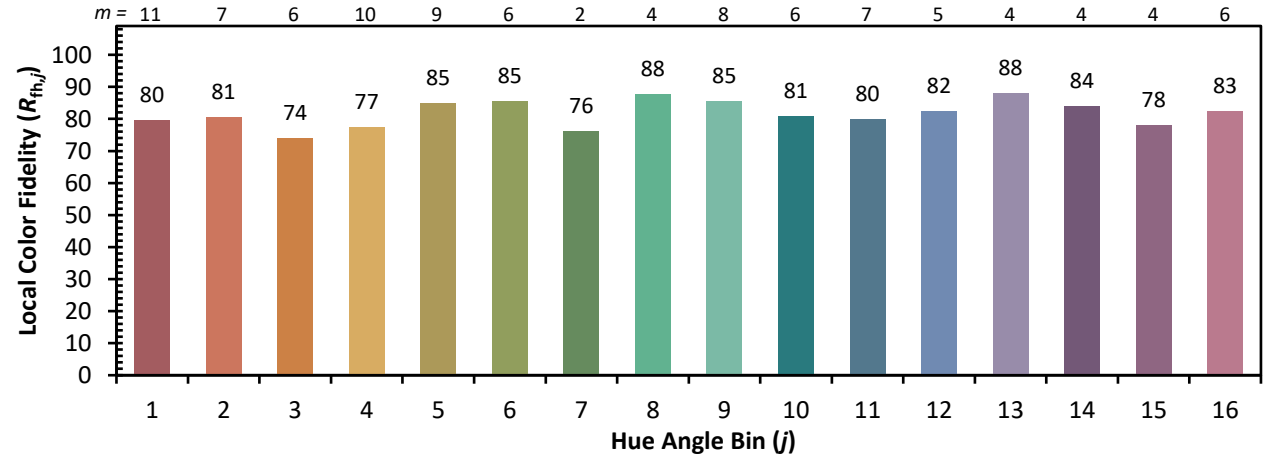
Color Rendition by Hue-Angle Bin







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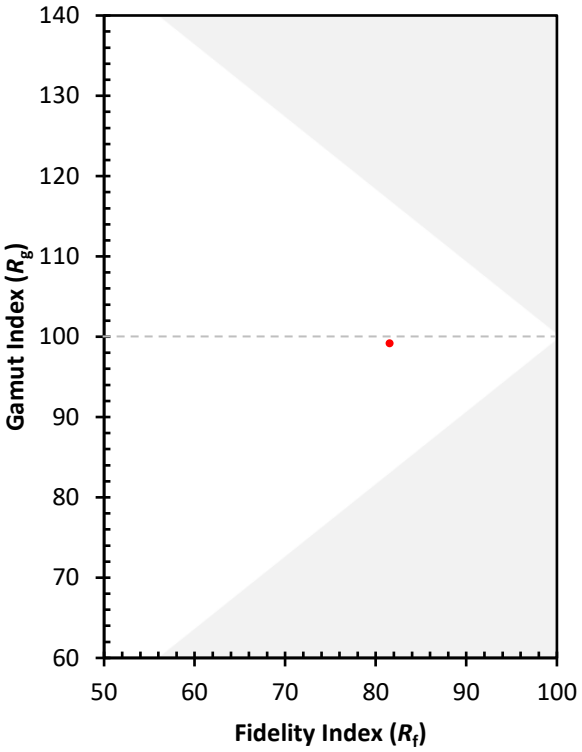
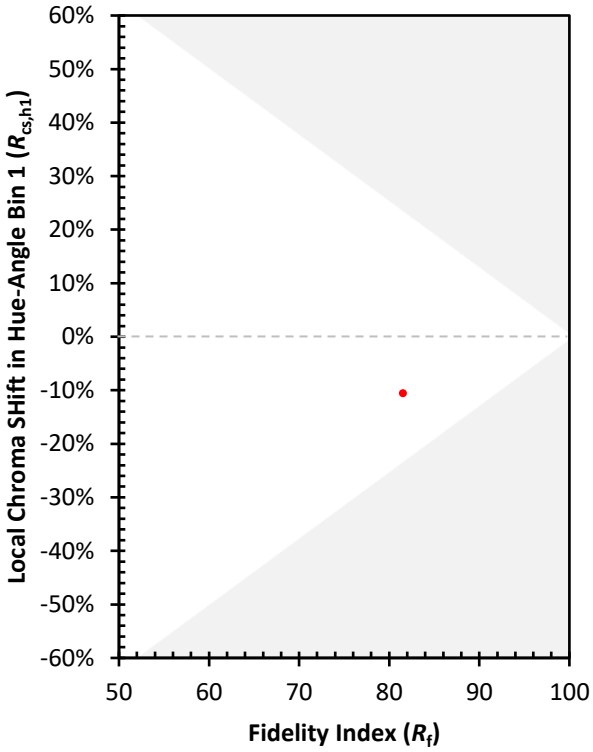
Measure Comparisons





(END OF REPORT)