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: P634007

Luminaire Tested: GWS-SA2F-830-U-AFL-W-GRSBK

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:	P634007
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-AFL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9705.8 lumens
Efficiency:	N/A
Efficacy:	78.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	124.5
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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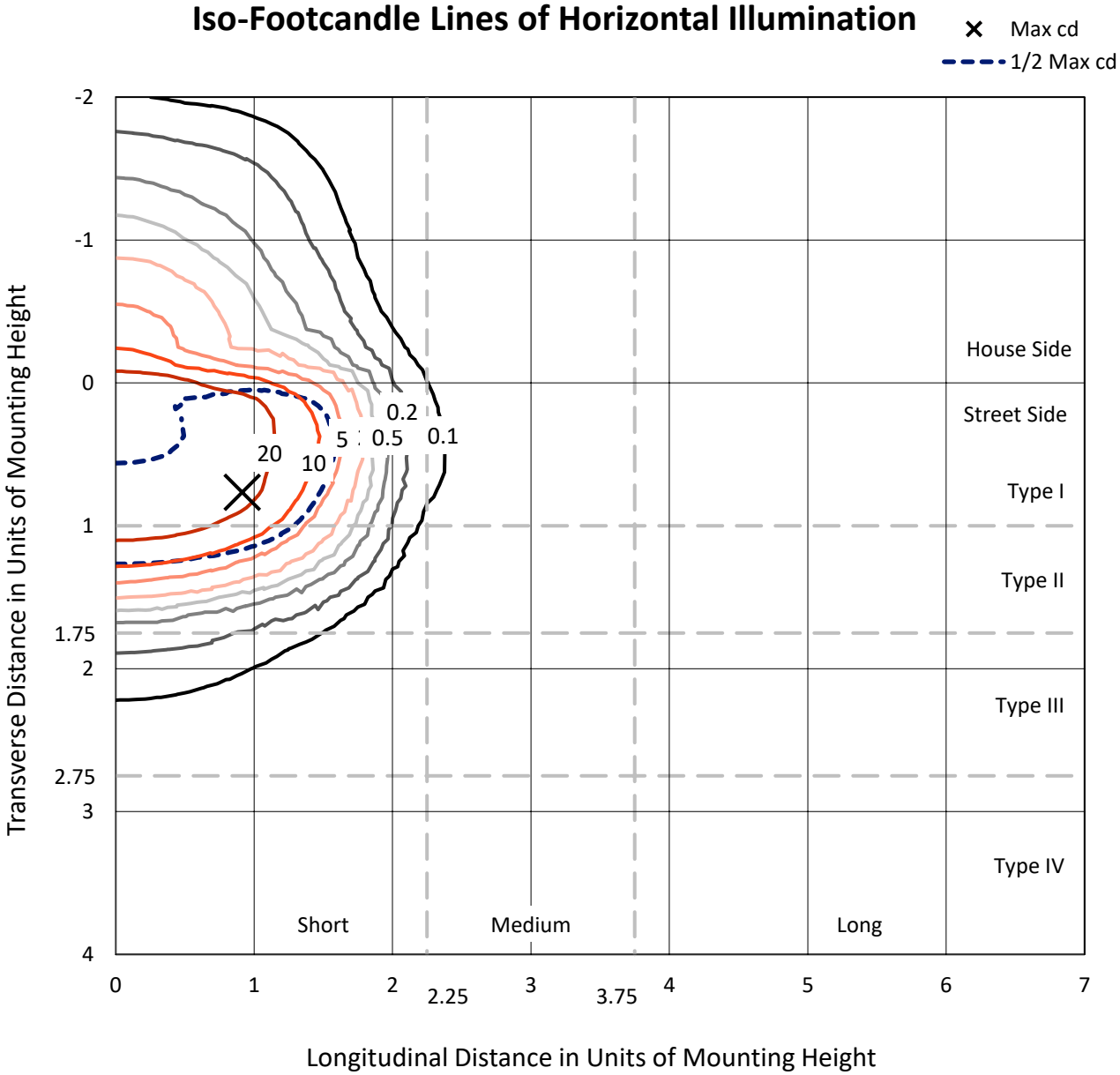
Scaled Data Report

REPORT NUMBER: P634007
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 37.7 fc
Type II - Short - N/A

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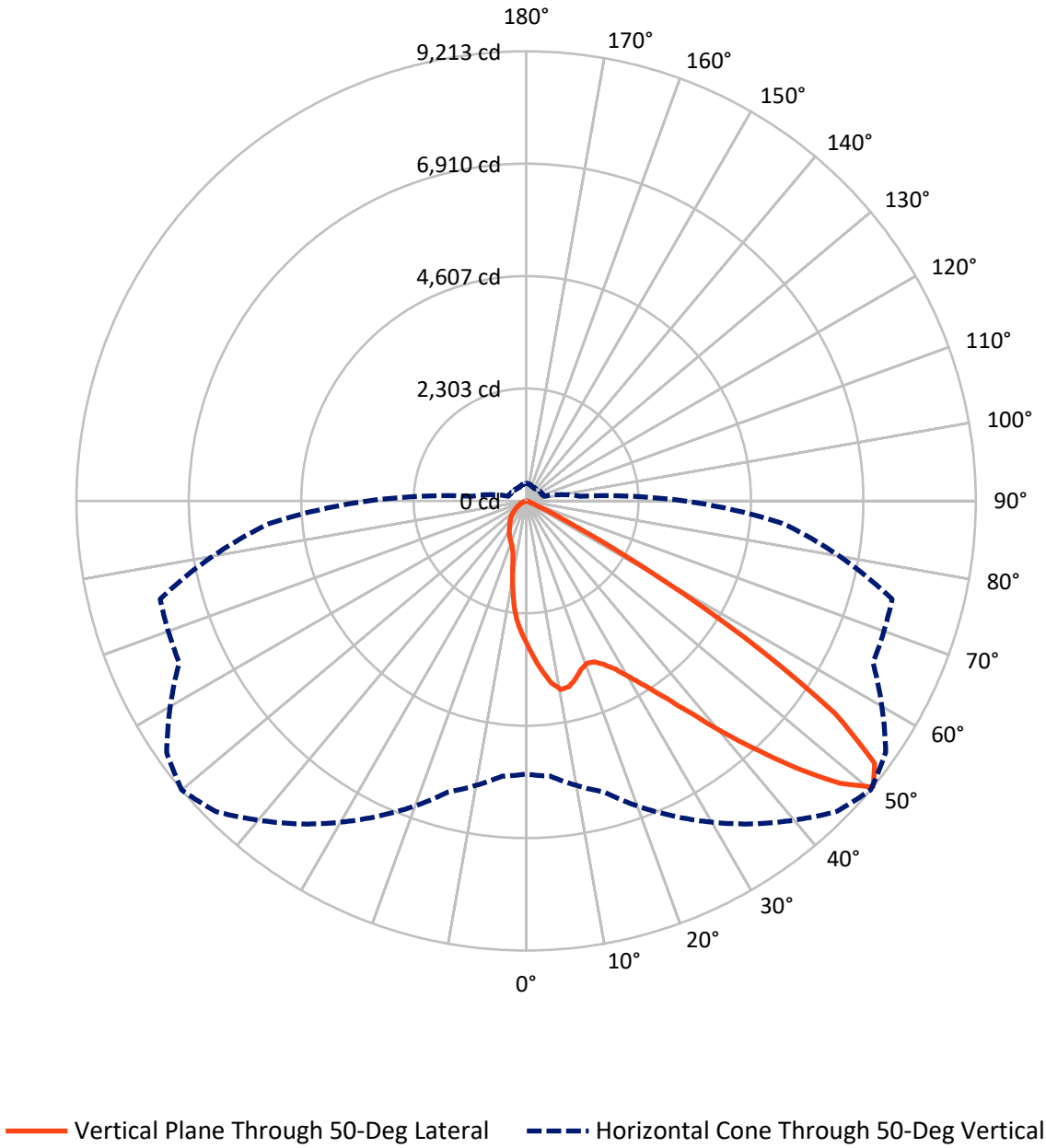
Luminous Intensity Polar Plot



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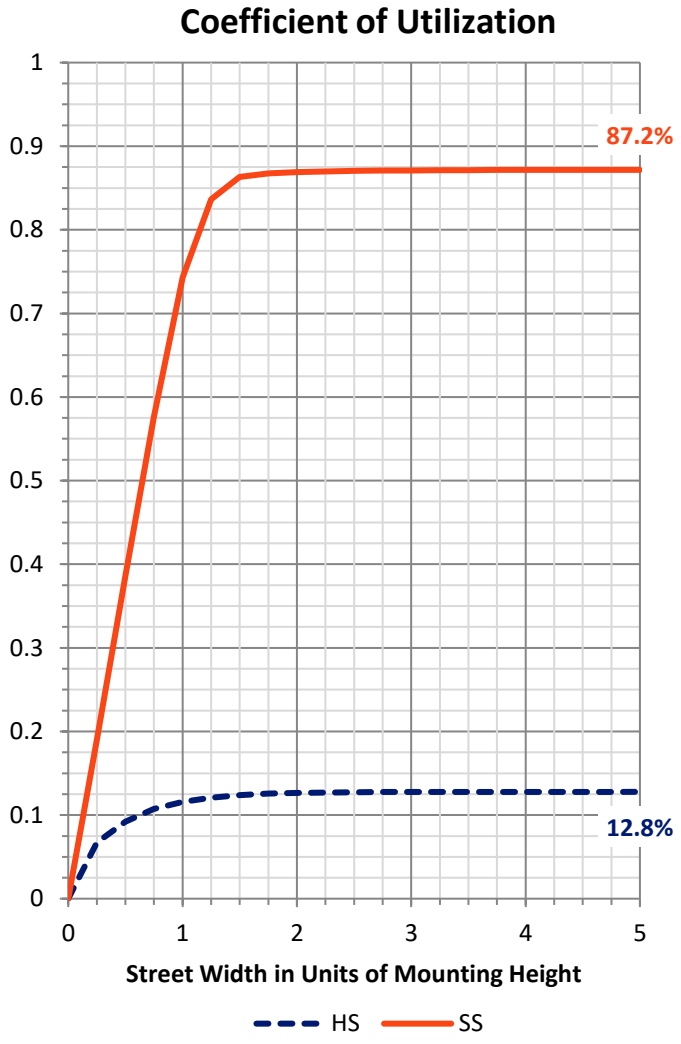
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.0	0.0	1247.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8458.8	0.0	8458.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	9705.8	0.0	9705.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	2.8
10°-20°	703.8	7.3
20°-30°	1161.5	12.0
30°-40°	1916.7	19.7
40°-50°	3032.7	31.2
50°-60°	2296.1	23.7
60°-70°	287.4	3.0
70°-80°	32.5	0.3
80°-90°	2.5	0.0
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°	9705.8	100.0
0°-180°	9705.8	100.0



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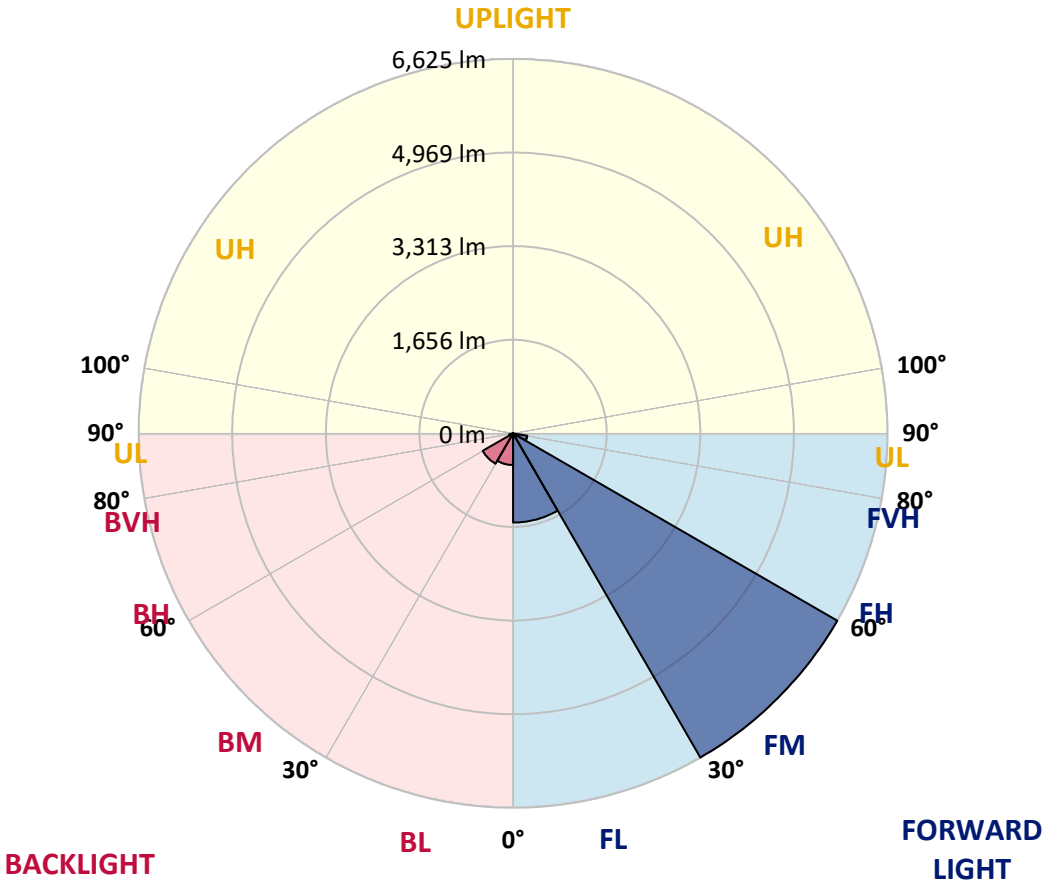
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1578.3	16.3			
FM	(30°-60°)	6625.2	68.3			
FH	(60°-80°)	254.1	2.6			G0/660
FVH	(80°-90°)	1.2	0.0			G0/10
BL	(0°-30°)	559.7	5.8	B2/1000		
BM	(30°-60°)	620.2	6.4	B1/1000		
BH	(60°-80°)	65.8	0.7	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G0
Type II Short



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REPORT NUMBER: P634007
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	*2940.5*	2940.5	2940.5	2940.5	2940.5
2.5°	3350.6	3377.4	3370.0	3334.9	3297.1	3270.3	*3228.7*	3215.8	3121.5	3055.9	2986.7
5°	3755.3	3763.6	3754.3	3711.8	3645.3	3581.6	*3513.2*	3473.5	3315.5	3173.3	3028.2
7.5°	3852.3	3842.1	3859.7	3880.9	3871.7	3844.0	*3771.9*	3728.5	3540.0	3308.1	3088.3
10°	3549.3	3526.2	3591.8	3701.7	3817.2	3947.4	*3928.9*	3932.6	3759.0	3478.1	3166.8
12.5°	3147.4	3138.2	3187.1	3314.6	3540.9	3836.6	*3907.7*	4026.9	3959.4	3662.0	3256.4
15°	2971.0	2975.6	3005.1	3085.5	3248.1	3615.8	*3786.7*	4001.9	4138.6	3840.3	3355.3
17.5°	2997.7	3014.4	3013.5	3040.2	3139.1	3433.8	*3633.3*	3923.4	4277.2	4045.3	3468.9
20°	3179.7	3196.4	3171.4	3151.1	3184.4	3387.6	*3553.0*	3844.0	4370.5	4252.3	3589.0
22.5°	3452.3	3471.7	3412.5	3354.3	3333.1	3463.3	*3583.4*	3811.6	4441.7	4441.7	3696.1
25°	3782.1	3808.8	3717.4	3613.9	3554.8	3623.2	*3713.7*	3884.6	4514.6	4611.6	3769.1
27.5°	4150.7	4151.6	4073.1	3956.7	3845.8	3854.1	*3908.6*	4049.0	4595.0	4794.5	3826.4
30°	4565.4	4568.2	4463.8	4324.3	4184.8	4147.0	*4193.2*	4299.4	4762.2	5024.6	3905.8
32.5°	5101.3	5114.2	4964.5	4759.4	4578.4	4507.2	*4534.0*	4645.8	5028.3	5312.8	4025.0
35°	5825.5	5839.4	5618.6	5347.9	5059.7	4952.5	*4979.3*	5092.0	5413.5	5722.0	4215.3
37.5°	6540.5	6559.0	6335.5	6083.3	5687.9	5510.5	*5538.2*	5645.4	5991.8	6287.4	4520.2
40°	7034.8	7059.7	6990.4	6820.5	6453.7	6220.9	*6254.2*	6293.0	6628.3	6963.6	4915.6
42.5°	7295.3	7330.4	7360.0	7446.8	7253.7	7058.8	*7002.4*	7005.2	7275.9	7652.8	5326.7
45°	7311.0	7345.2	7496.7	7832.0	7978.9	7938.3	*7835.7*	7766.4	7770.1	8111.9	5583.5
47.5°	6802.9	6866.6	7150.3	7807.1	8359.5	8696.7	*8645.0*	8480.5	7978.0	8142.4	5555.8
50°	*5599.2*	*5662.0*	*6177.5*	*7122.5*	*8082.4*	*8999.7*	*9213.1*	*8992.3*	*7842.2*	*7762.7*	*5270.3*
52.5°	4066.6	4073.1	4407.5	5511.4	6959.0	8440.8	*8943.4*	8922.1	7635.2	7302.7	4880.5
55°	1931.7	1908.6	2284.6	3110.5	4813.0	6826.9	*7674.0*	7914.2	7341.5	6970.1	4578.4
57.5°	562.6	573.7	740.9	1213.9	2407.4	4363.1	*5255.5*	5702.6	6026.0	5730.4	3551.1
60°	252.2	253.1	281.8	369.5	801.9	2029.6	*2716.9*	3270.3	3602.8	3338.6	1761.7
62.5°	182.9	183.8	194.9	208.8	272.5	687.3	*1019.0*	1358.0	1382.9	905.3	446.2
65°	152.4	152.4	154.3	154.3	163.5	245.7	*309.5*	399.1	336.3	249.4	174.6
67.5°	122.9	123.8	125.6	125.6	122.9	122.9	*133.0*	146.0	156.1	193.1	160.7
70°	96.1	95.2	95.2	96.1	93.3	79.4	*85.9*	97.9	107.2	150.6	139.5
72.5°	74.8	75.8	74.8	71.1	64.7	47.1	*50.8*	63.7	68.4	94.2	94.2
75°	56.4	57.3	53.6	40.6	26.8	14.8	*19.4*	31.4	39.7	46.2	34.2
77.5°	7.4	7.4	5.5	5.5	4.6	5.5	*5.5*	7.4	11.1	11.1	8.3
80°	0.9	0.9	0.9	1.8	2.8	3.7	*3.7*	3.7	3.7	4.6	4.6
82.5°	0.9	0.9	0.9	0.9	2.8	2.8	*3.7*	3.7	3.7	3.7	3.7
85°	0.0	0.0	0.0	0.9	1.8	2.8	*2.8*	3.7	3.7	3.7	3.7
87.5°	0.0	0.0	0.0	0.9	1.8	2.8	*2.8*	2.8	3.7	3.7	3.7
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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CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2945.1	2891.5	2826.8	2782.5	2719.7	2678.1	2619.0	2579.3	2545.1	2518.3	2533.1
5°	2946.0	2861.0	2728.9	2616.2	2493.3	2380.6	2259.6	2164.5	2078.6	2039.8	2061.0
7.5°	2964.5	2842.5	2640.2	2439.8	2204.2	1971.4	1753.4	1576.0	1488.2	1446.7	1459.6
10°	3000.5	2834.2	2541.4	2208.8	1826.4	1508.6	1297.0	1176.9	1128.0	1102.1	1106.7
12.5°	3033.8	2828.7	2413.0	1904.9	1441.1	1170.5	1060.5	1043.9	1054.1	1055.0	1054.1
15°	3079.0	2818.5	2254.1	1592.6	1152.9	1011.6	1014.3	1038.4	1062.4	1069.8	1067.9
17.5°	3127.1	2802.8	2049.0	1293.3	978.3	965.4	997.7	1030.0	1054.1	1057.8	1058.7
20°	3177.0	2770.5	1815.3	1055.9	897.0	930.3	966.3	990.3	1007.9	1013.4	1015.3
22.5°	3200.1	2702.1	1545.5	885.9	842.5	886.9	913.6	945.1	950.6	930.3	934.0
25°	3188.1	2586.7	1282.2	771.4	788.0	832.3	872.1	856.4	833.3	818.5	823.1
27.5°	3150.2	2433.3	1024.5	687.3	729.8	786.2	790.8	773.2	769.5	757.5	761.2
30°	3109.5	2256.9	824.0	619.9	670.7	729.8	715.9	722.4	723.3	709.5	714.1
32.5°	3084.6	2072.1	655.9	574.6	632.8	643.9	671.6	684.5	685.5	653.1	658.7
35°	3092.9	1890.1	555.2	537.7	597.7	594.9	633.7	641.1	587.5	543.2	547.8
37.5°	3160.3	1722.0	497.9	509.0	536.7	558.0	587.5	538.6	526.6	506.2	509.0
40°	3286.0	1578.8	463.8	491.5	495.2	529.3	484.1	490.5	491.5	478.5	481.3
42.5°	3432.9	1459.6	443.4	481.3	472.1	477.6	432.3	445.3	459.1	453.6	454.5
45°	3506.8	1343.2	425.9	446.2	449.0	396.3	386.2	400.0	417.6	420.3	421.3
47.5°	3441.2	1232.4	407.4	395.4	413.9	361.2	349.2	353.8	374.1	385.2	387.1
50°	*3240.7*	*1104.9*	*379.7*	*350.1*	*340.0*	*324.3*	*313.2*	*314.1*	*337.2*	*356.6*	*360.3*
52.5°	2958.9	971.8	334.4	296.5	273.4	285.5	288.2	282.7	303.9	323.3	327.0
55°	2685.5	805.6	265.1	241.1	219.9	245.7	253.1	245.7	252.2	265.1	266.1
57.5°	1891.0	455.4	203.2	199.5	182.0	210.6	222.6	211.6	200.5	208.8	210.6
60°	876.7	238.3	156.1	156.1	151.5	181.1	201.4	185.7	164.4	168.1	170.9
62.5°	274.4	150.6	114.6	108.1	123.8	154.3	170.9	155.2	130.3	130.3	134.0
65°	155.2	129.3	90.5	83.1	100.7	123.8	134.0	117.3	95.2	93.3	93.3
67.5°	144.1	122.9	80.4	67.4	71.1	79.4	83.1	72.1	65.6	64.7	65.6
70°	119.2	102.5	64.7	46.2	43.4	42.5	44.3	41.6	39.7	40.6	43.4
72.5°	73.9	61.9	40.6	27.7	24.0	23.1	23.1	23.1	22.2	22.2	22.2
75°	26.8	23.1	18.5	13.9	12.0	11.1	11.1	12.0	11.1	10.2	9.2
77.5°	8.3	7.4	7.4	7.4	6.5	5.5	4.6	4.6	3.7	2.8	2.8
80°	4.6	4.6	4.6	4.6	3.7	3.7	2.8	1.8	0.9	0.9	0.0
82.5°	4.6	4.6	4.6	3.7	3.7	3.7	2.8	1.8	0.9	0.0	0.0
85°	3.7	3.7	3.7	3.7	3.7	3.7	2.8	1.8	0.9	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.8	1.8	0.9	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

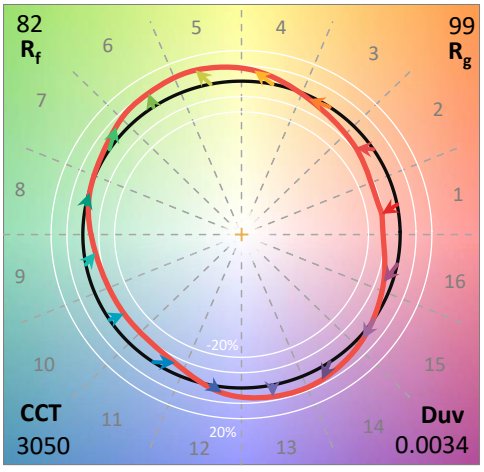
Test Information

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

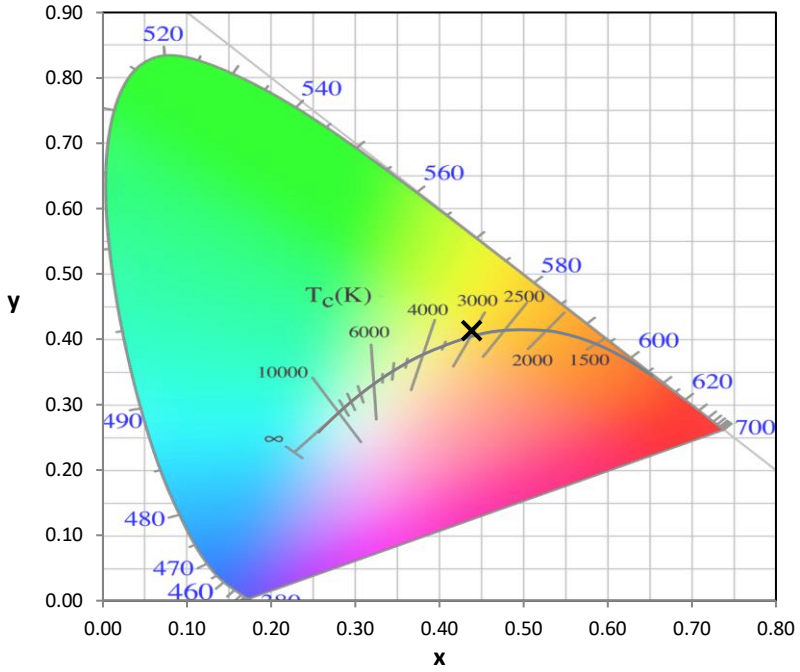
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

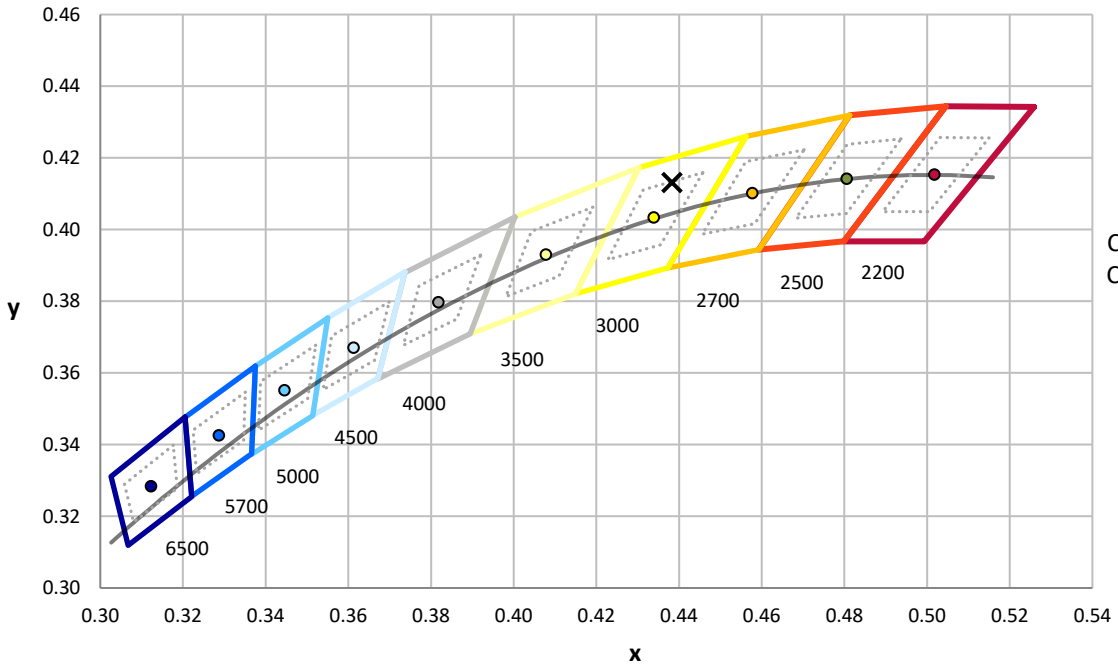
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

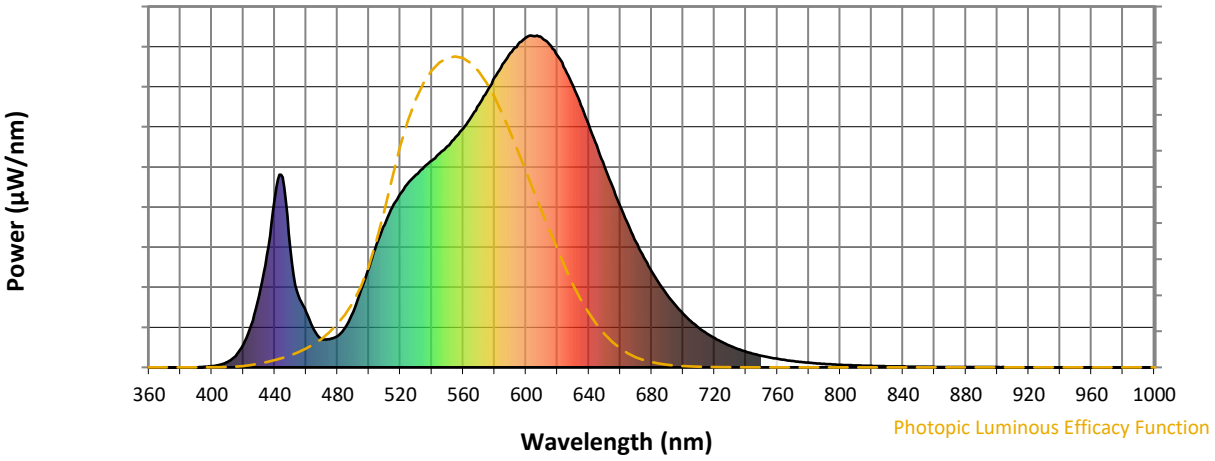


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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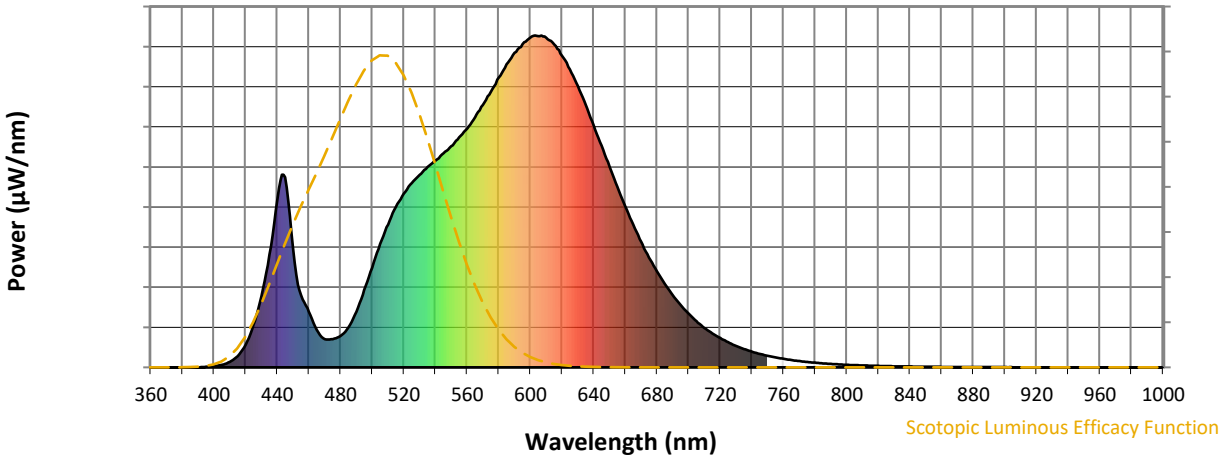
Scotopic Flux vs. Wavelength



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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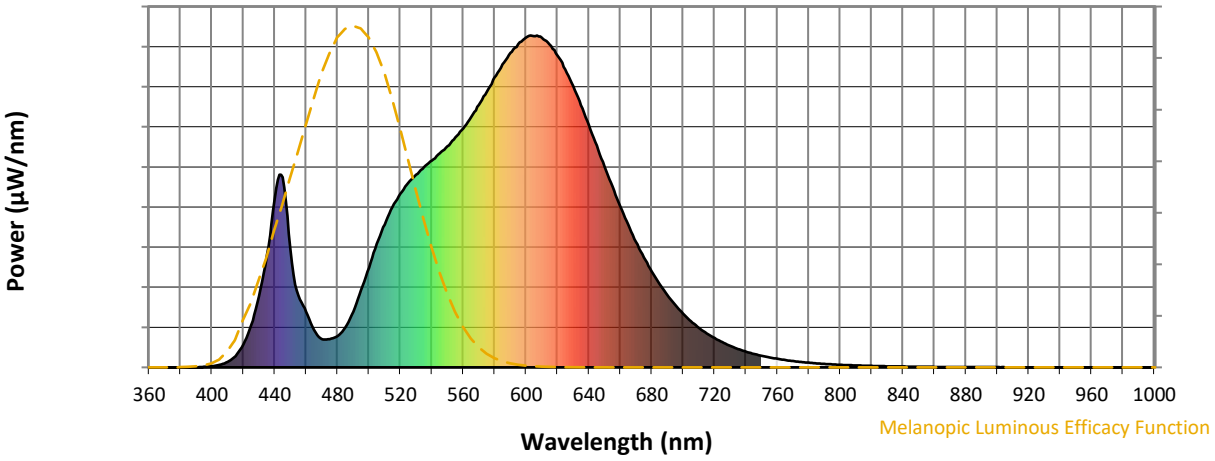
Melanopic Flux vs. Wavelength



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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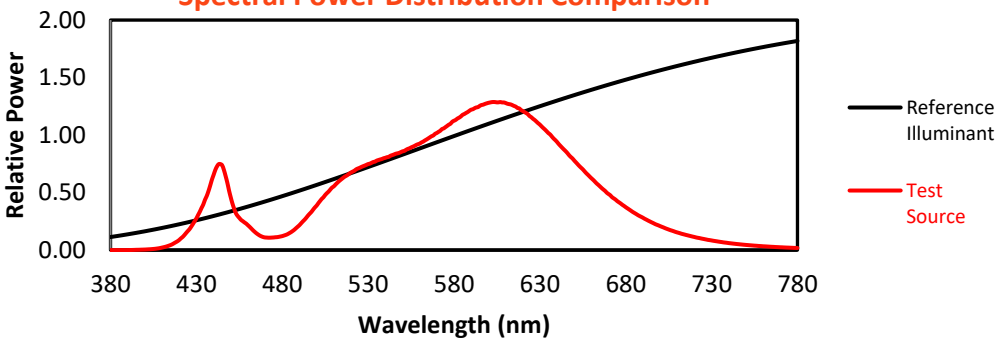
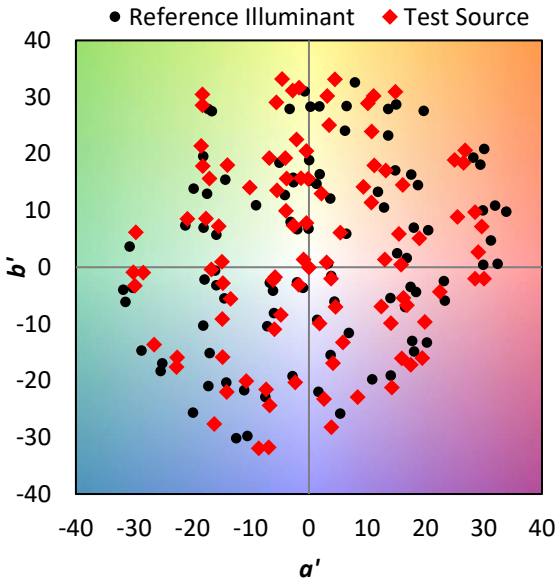
Summary

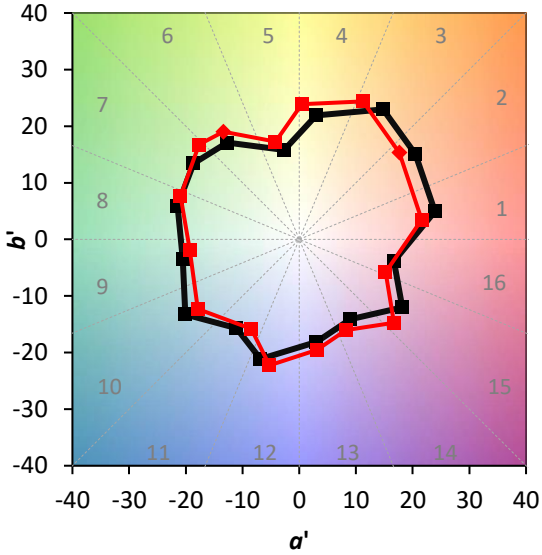
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

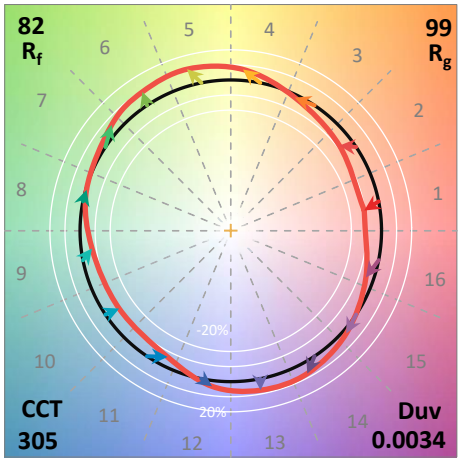
Spectral Power Distribution Comparison

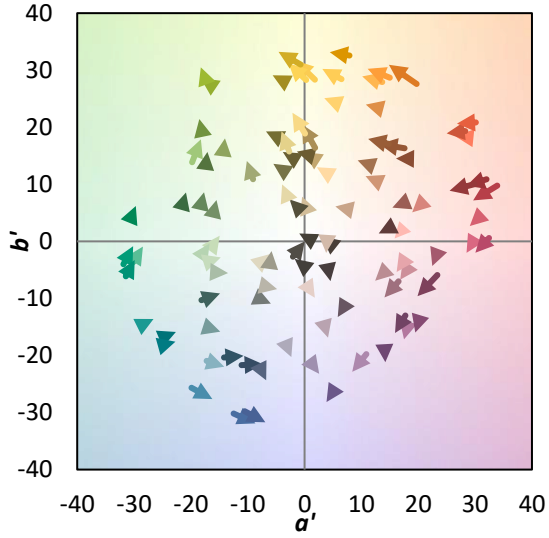


Color Vector Graphics









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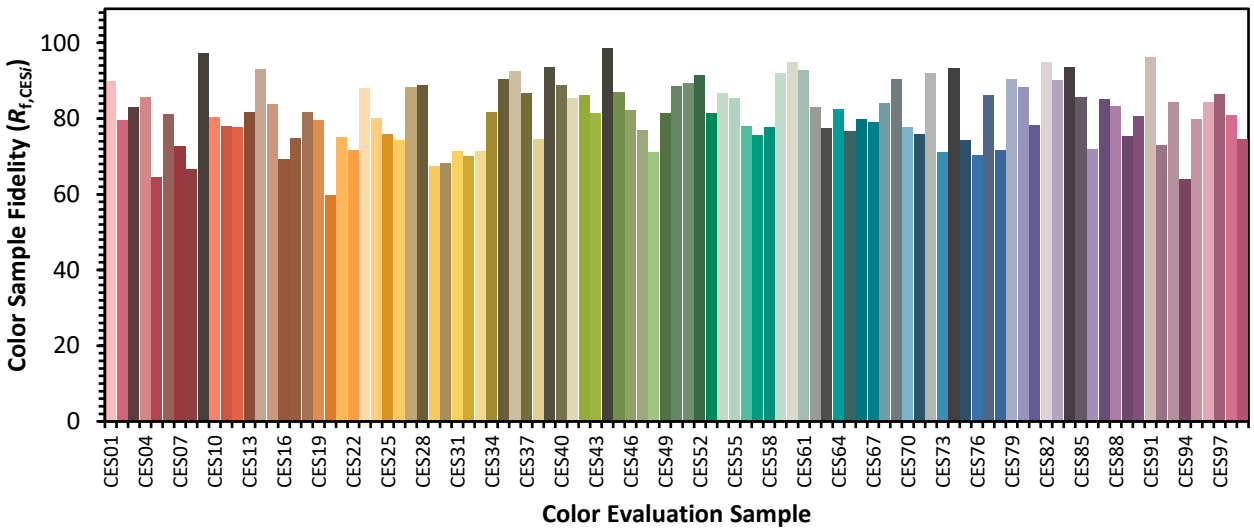
Individual Sample Fidelity Index ($R_{f,i}$)

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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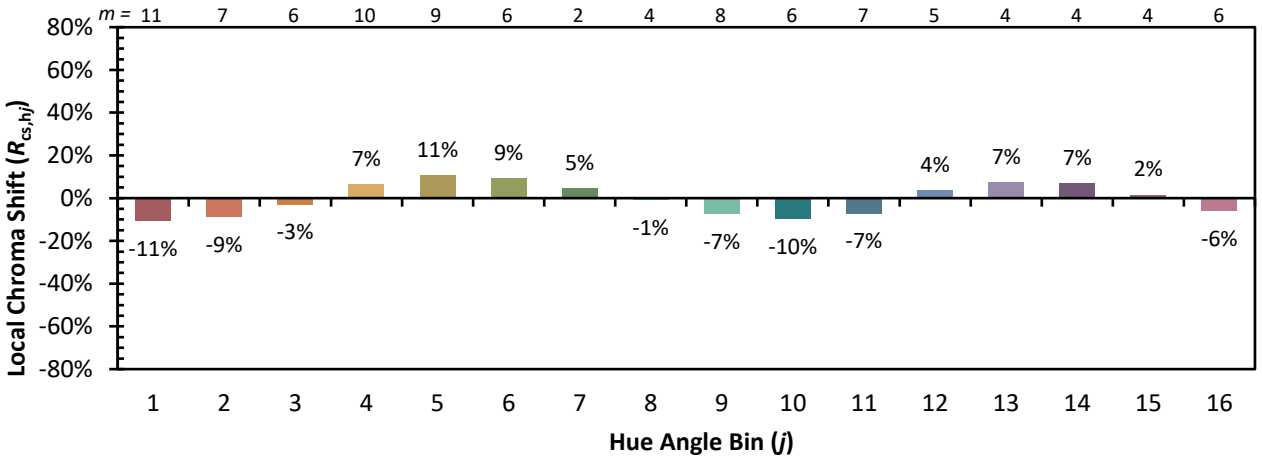
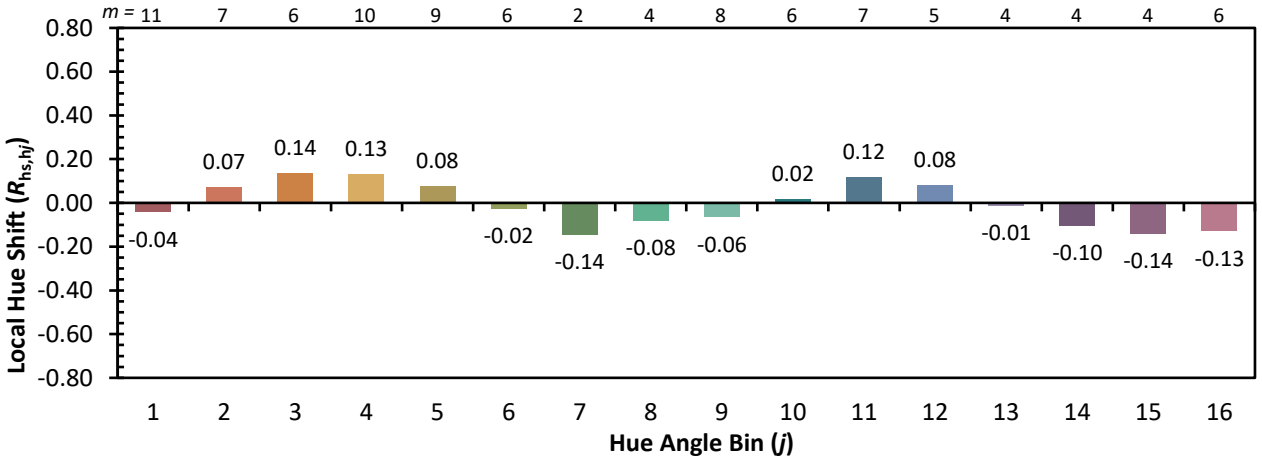
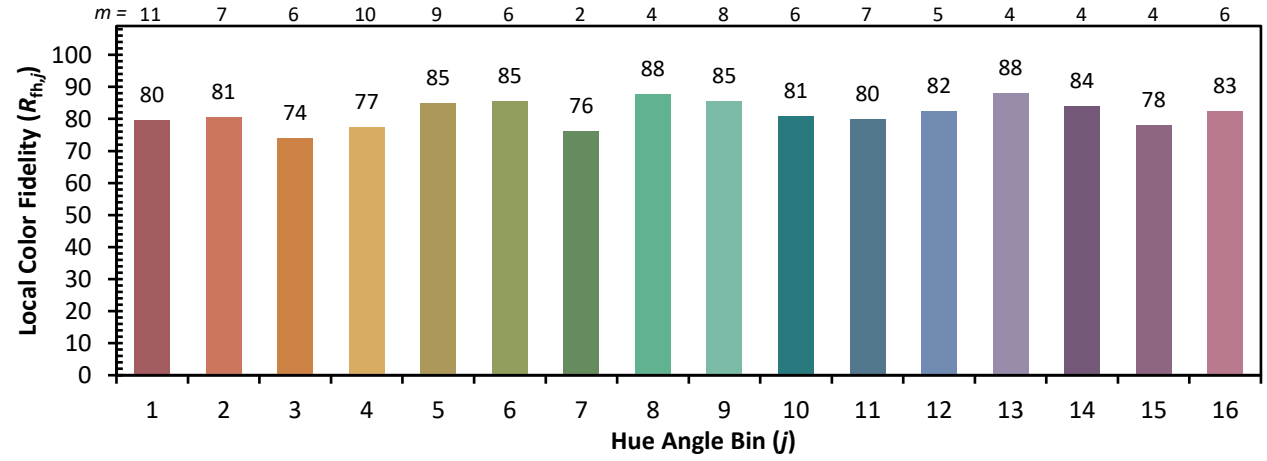
Color Rendition by Hue-Angle Bin







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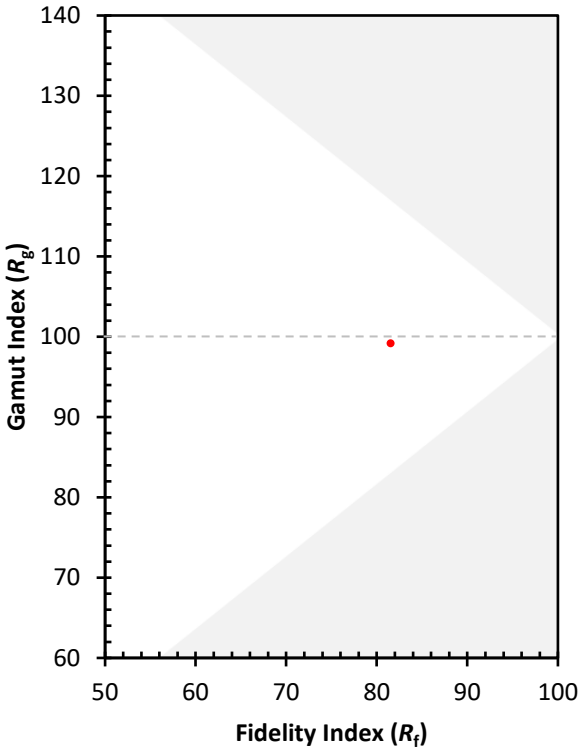
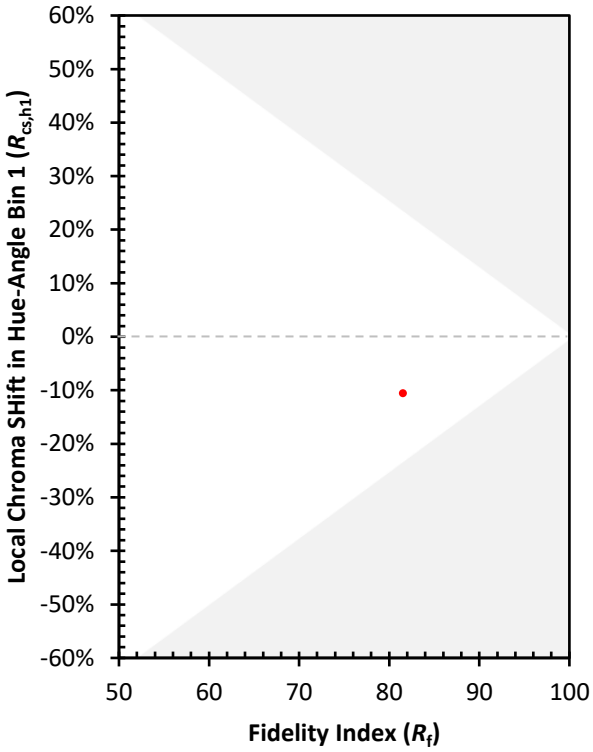
Measure Comparisons





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