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: P634019

Luminaire Tested: GWS-SA2F-830-U-SL3-W-GRSWH

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:	P634019
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10792.2 lumens
Efficiency:	N/A
Efficacy:	86.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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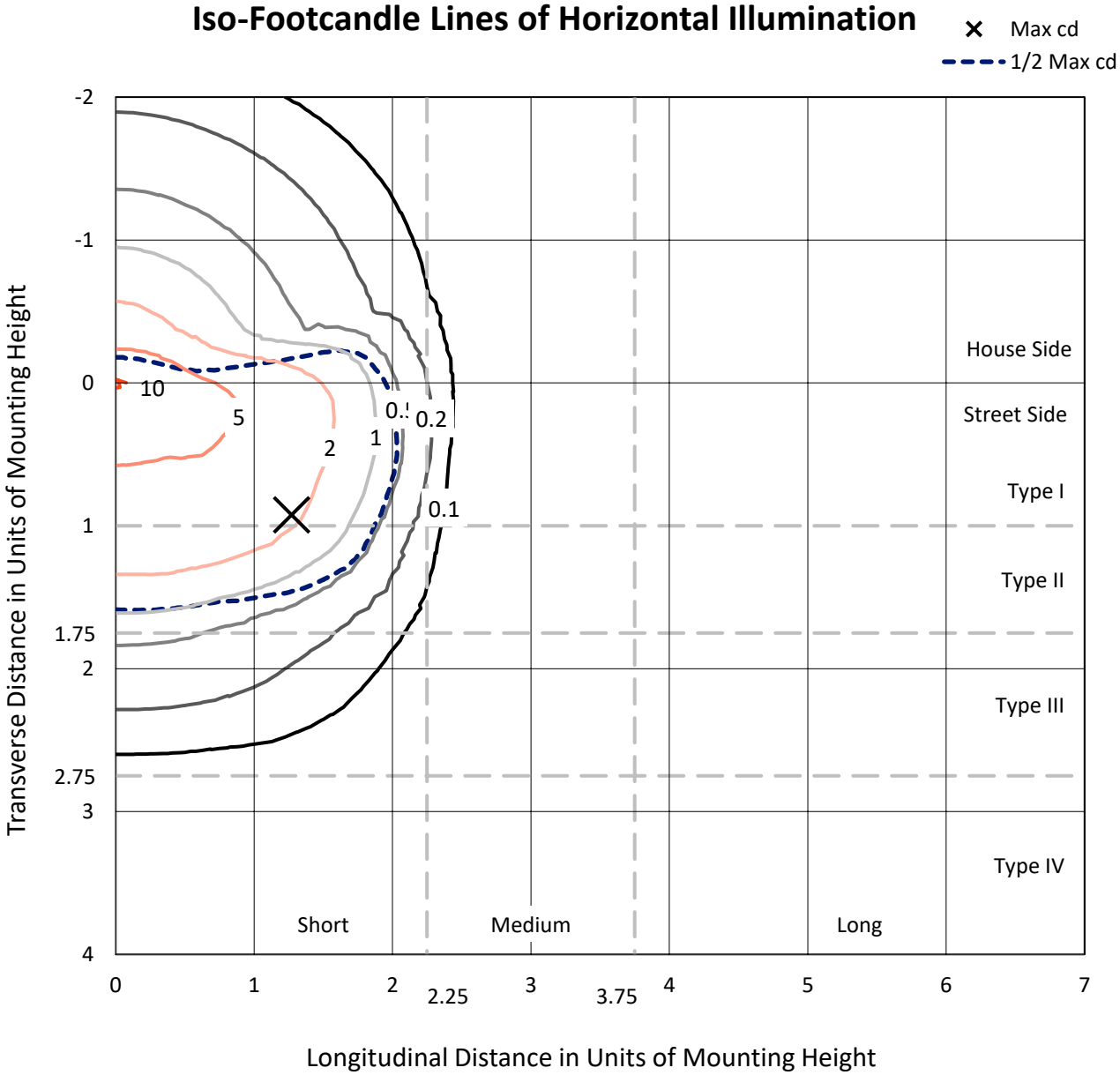
Scaled Data Report

REPORT NUMBER: P634019
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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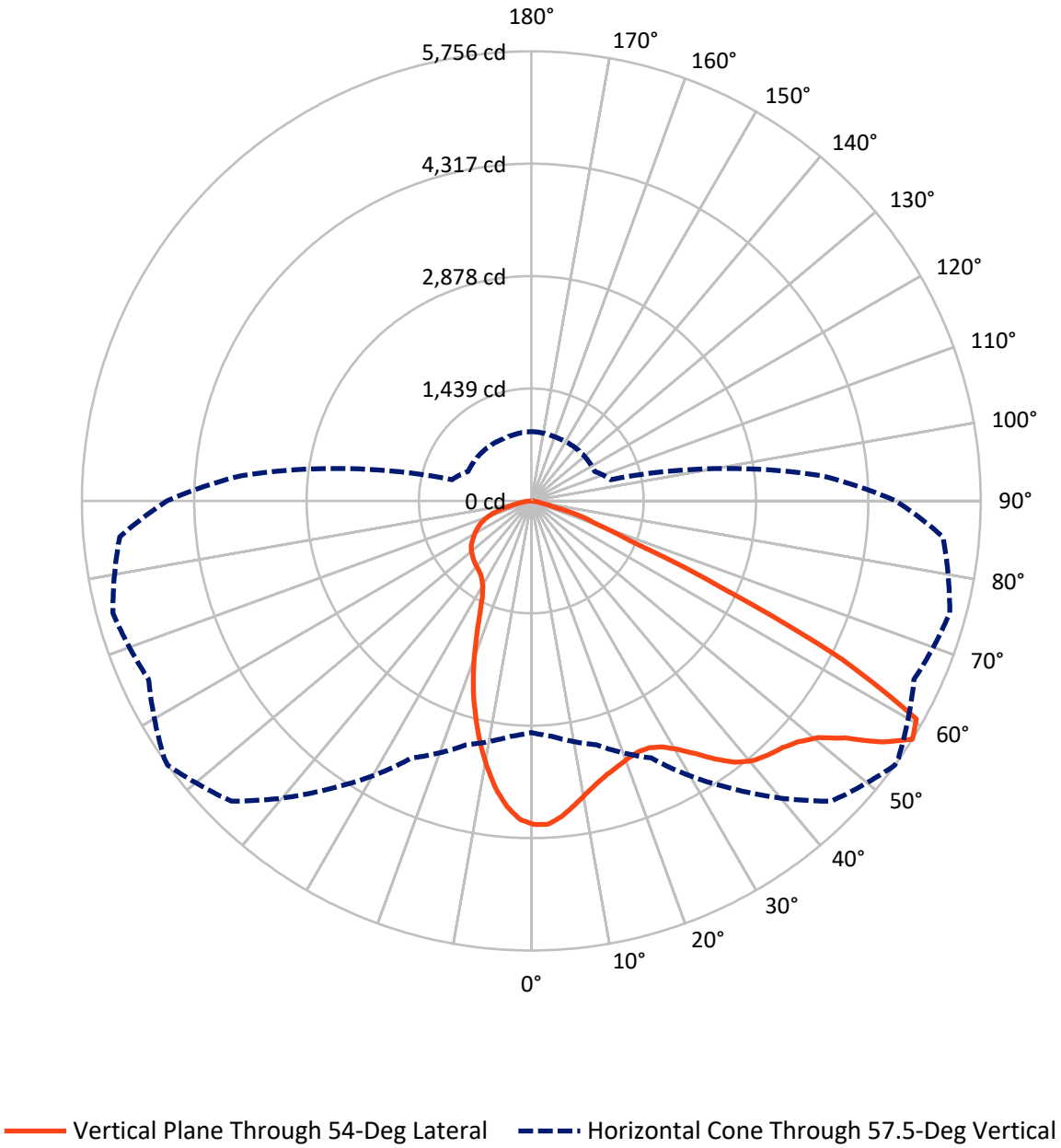
Luminous Intensity Polar Plot



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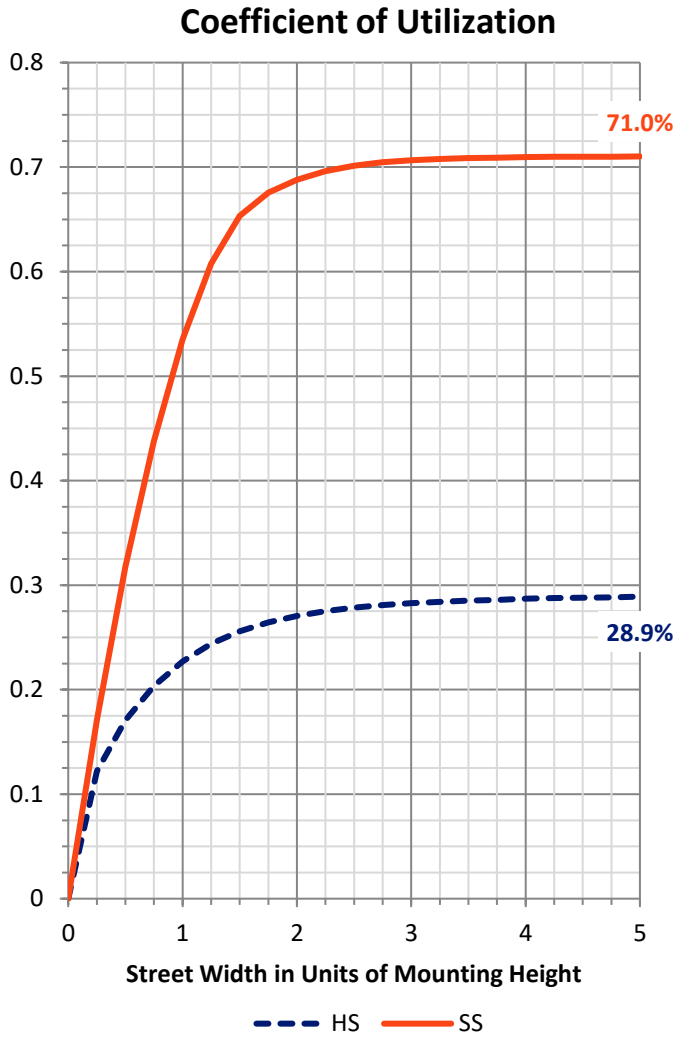
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3137.4	0.0	3137.4
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	7654.8	0.0	7654.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	10792.2	0.0	10792.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	3.4
10°-20°	869.0	8.1
20°-30°	1202.6	11.1
30°-40°	1671.0	15.5
40°-50°	2206.9	20.4
50°-60°	2622.6	24.3
60°-70°	1452.9	13.5
70°-80°	361.8	3.4
80°-90°	41.1	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°	10792.2	100.0
0°-180°	10792.2	100.0



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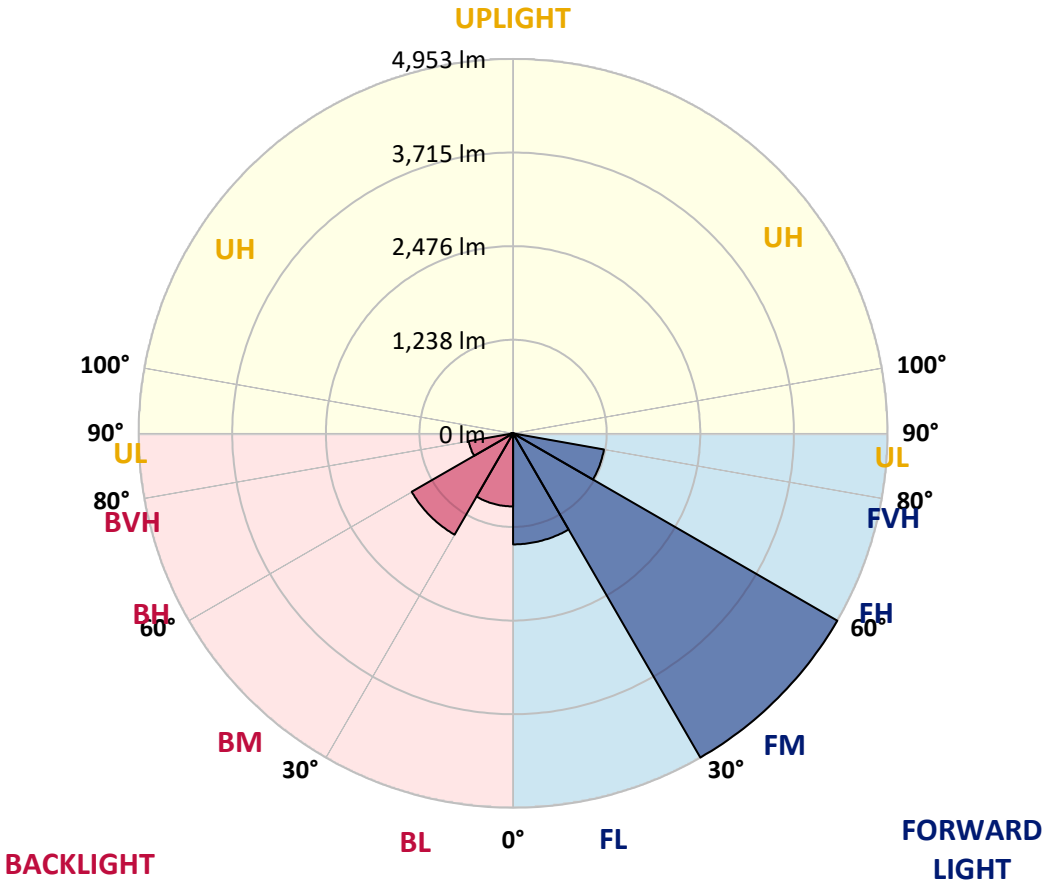
REPORT NUMBER: P634019
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1469.0	13.6			
FM	(30°-60°)	4952.7	45.9			
FH	(60°-80°)	1220.2	11.3			G1/1800
FVH	(80°-90°)	12.9	0.1			G1/100
BL	(0°-30°)	966.8	9.0	B2/1000		
BM	(30°-60°)	1547.8	14.3	B2/2500		
BH	(60°-80°)	594.6	5.5	B2/1000		G2/1000
BVH	(80°-90°)	28.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P634019
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	*4143.4*	4143.4	4143.4	4143.4	4143.4
2.5°	4065.8	4074.1	4079.6	4099.0	4115.7	4130.4	*4146.1*	4146.1	4145.2	4142.4	4136.9
5°	3905.0	3914.3	3927.2	3954.0	3990.0	4015.9	*4058.4*	4062.1	4080.6	4087.9	4084.2
7.5°	3718.4	3721.2	3737.8	3772.9	3830.2	3876.4	*3937.4*	3944.7	3989.1	4015.0	4010.3
10°	3514.2	3505.0	3534.6	3586.3	3661.1	3738.7	*3817.3*	3823.7	3894.9	3943.8	3940.1
12.5°	3327.6	3328.6	3358.1	3420.9	3514.2	3610.3	*3715.6*	3730.4	3818.2	3881.0	3874.5
15°	3171.5	3175.2	3211.2	3282.4	3388.6	3503.2	*3634.3*	3648.2	3759.1	3842.2	3823.7
17.5°	3046.8	3050.5	3081.9	3163.2	3276.8	3415.4	*3575.2*	3589.1	3726.7	3825.6	3787.7
20°	2960.9	2959.0	2989.5	3067.1	3184.4	3335.0	*3523.5*	3543.8	3716.6	3832.0	3763.7
22.5°	2925.8	2924.8	2947.0	3010.8	3120.7	3273.1	*3492.1*	3519.8	3727.6	3860.7	3748.9
25°	2943.3	2939.6	2959.0	3006.1	3093.9	3249.1	*3501.3*	3530.9	3774.8	3919.8	3751.7
27.5°	2997.8	2993.2	3009.8	3052.3	3118.8	3274.0	*3566.0*	3600.2	3874.5	4027.9	3788.6
30°	3081.0	3078.2	3094.8	3135.5	3193.7	3357.2	*3689.8*	3728.6	4028.8	4196.0	3869.0
32.5°	3178.0	3173.4	3202.9	3250.0	3317.5	3508.7	*3856.1*	3906.9	4211.7	4412.2	4003.9
35°	3287.0	3283.3	3323.9	3392.3	3489.3	3719.3	*4057.5*	4112.9	4398.3	4657.0	4183.1
37.5°	3393.2	3393.2	3471.7	3573.4	3695.3	3948.4	*4246.8*	4281.9	4527.7	4874.1	4375.3
40°	3487.5	3493.0	3611.2	3763.7	3918.9	4155.4	*4371.6*	4401.1	4585.0	5023.8	4542.5
42.5°	3591.8	3596.5	3734.1	3933.7	4118.4	4322.6	*4447.3*	4462.1	4596.0	5098.6	4660.7
45°	3675.0	3681.5	3852.4	4065.8	4292.1	4448.2	*4507.4*	4520.3	4611.8	5139.3	4746.6
47.5°	3718.4	3727.6	3923.5	4172.0	4409.4	4560.9	*4606.2*	4611.8	4676.4	5210.4	4850.1
50°	3711.0	3729.5	3950.3	4224.7	4496.3	4674.6	*4765.1*	4774.3	4808.5	5314.8	4971.1
52.5°	3776.6	3784.9	4007.6	4287.5	4620.1	4884.3	*5041.3*	5054.3	5038.6	5393.3	5043.2
55°	3667.6	3707.3	3936.4	4278.2	4808.5	5208.5	*5450.6*	5444.1	5247.3	5481.1	5163.3
57.5°	*2966.4*	*3024.6*	*3234.3*	*3631.6*	*4498.1*	*5435.8*	*5756.4*	*5740.7*	*5409.0*	*5548.5*	*5293.5*
60°	2053.7	2062.9	2252.3	2534.1	3471.7	4802.1	*5666.8*	5700.9	5438.6	5463.5	5052.4
62.5°	1642.6	1639.8	1657.3	1664.7	2208.0	3375.7	*4473.2*	4597.9	4518.4	4257.0	3580.8
65°	1402.4	1412.5	1464.3	1437.5	1441.2	1901.2	*2672.6*	2690.2	2634.8	2540.5	1893.8
67.5°	1097.5	1115.1	1206.5	1310.9	1277.7	1224.1	*1386.7*	1378.4	1086.4	840.7	694.7
70°	687.3	698.4	796.3	1029.1	1112.3	1005.1	*891.5*	887.8	582.0	478.5	524.7
72.5°	400.9	402.8	430.5	573.7	738.1	687.3	*655.9*	631.9	374.2	381.5	418.5
75°	220.8	220.8	219.9	247.6	291.0	257.7	*249.4*	243.0	250.4	283.6	311.3
77.5°	46.2	47.1	49.9	65.6	85.0	103.5	*130.3*	131.2	163.5	189.4	211.6
80°	21.2	22.2	27.7	35.1	45.3	60.0	*79.4*	80.4	98.8	119.2	134.0
82.5°	11.1	12.0	14.8	18.5	24.0	31.4	*44.3*	44.3	59.1	70.2	79.4
85°	3.7	3.7	5.5	7.4	10.2	12.9	*17.6*	17.6	25.9	34.2	39.7
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	*3.7*	3.7	4.6	5.5	9.2
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: P634019
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4	4143.4
2.5°	4124.9	4096.3	4097.2	4102.7	4085.2	4058.4	4040.8	4018.7	4004.8	4002.0	4012.2
5°	4065.8	4032.5	4009.4	3985.4	3935.5	3876.4	3830.2	3792.3	3767.4	3758.1	3747.0
7.5°	3984.5	3941.1	3882.9	3815.4	3724.9	3619.6	3545.7	3476.4	3428.3	3414.5	3408.0
10°	3903.2	3840.4	3736.9	3611.2	3460.7	3318.4	3184.4	3081.9	3000.6	2954.4	2969.2
12.5°	3819.1	3741.5	3579.8	3386.8	3177.0	2962.7	2787.2	2617.2	2486.0	2420.4	2401.0
15°	3745.2	3639.9	3414.5	3153.0	2874.0	2604.3	2350.2	2095.2	1929.0	1838.4	1813.5
17.5°	3682.4	3545.7	3239.9	2914.7	2581.2	2196.9	1884.6	1648.1	1534.5	1484.6	1480.9
20°	3620.5	3453.3	3067.1	2657.9	2243.1	1812.6	1533.6	1422.7	1382.0	1364.5	1363.6
22.5°	3565.1	3356.3	2885.1	2401.0	1906.8	1523.4	1370.0	1322.0	1310.9	1310.9	1309.1
25°	3517.9	3259.3	2698.5	2128.5	1602.8	1356.2	1285.0	1264.7	1269.3	1277.7	1278.6
27.5°	3498.5	3183.5	2518.4	1848.6	1393.1	1259.2	1226.8	1224.1	1237.0	1249.9	1251.8
30°	3518.9	3131.8	2333.6	1580.7	1267.5	1200.1	1185.3	1190.8	1206.5	1219.5	1219.5
32.5°	3581.7	3105.9	2145.1	1384.8	1194.5	1158.5	1153.9	1159.4	1171.4	1178.8	1179.7
35°	3687.9	3116.1	1950.2	1252.7	1147.4	1128.0	1127.1	1130.8	1135.4	1140.0	1140.9
37.5°	3821.9	3161.3	1741.4	1176.0	1116.9	1105.8	1104.0	1103.1	1104.0	1104.0	1104.9
40°	3953.1	3229.7	1554.8	1130.8	1095.7	1086.4	1081.8	1075.3	1074.4	1072.6	1071.6
42.5°	4050.1	3282.4	1406.1	1098.4	1076.3	1065.2	1059.6	1049.5	1048.5	1047.6	1046.7
45°	4123.0	3326.7	1282.3	1067.0	1055.9	1045.8	1033.8	1024.5	1026.4	1028.2	1028.2
47.5°	4205.3	3365.5	1191.7	1037.5	1031.0	1020.8	1006.0	999.6	1006.0	1012.5	1012.5
50°	4305.0	3420.0	1117.8	1007.9	1005.1	993.1	980.2	977.4	984.8	994.0	994.0
52.5°	4378.0	3467.1	1065.2	978.3	978.3	962.6	951.5	950.6	958.9	968.2	969.1
55°	4514.7	3577.1	1046.7	944.2	940.5	928.4	920.1	913.7	923.8	932.1	932.1
57.5°	*4669.0*	*3723.0*	*1051.3*	*895.2*	*890.6*	*886.9*	*880.4*	*873.0*	*875.8*	*885.0*	*886.0*
60°	4342.0	3440.3	1000.5	846.2	843.5	841.6	833.3	820.4	824.1	831.4	832.4
62.5°	3032.9	2286.5	809.3	785.3	794.5	793.6	782.5	767.7	768.6	778.8	778.8
65°	1574.2	1237.0	710.4	729.8	743.7	738.1	719.7	706.7	704.9	717.8	715.0
67.5°	679.0	675.3	646.7	671.6	686.4	674.4	655.0	633.7	635.6	640.2	636.5
70°	546.9	563.5	575.5	602.3	614.3	592.2	570.9	558.9	548.8	547.8	541.4
72.5°	437.0	460.1	486.9	514.6	518.3	496.1	469.3	458.2	442.5	441.6	435.1
75°	328.9	348.3	369.5	391.7	391.7	370.5	352.9	347.4	328.9	323.3	317.8
77.5°	224.5	236.5	253.1	258.7	264.2	255.9	238.3	229.1	207.9	202.3	194.9
80°	141.3	149.7	159.8	163.5	169.1	158.9	145.0	134.9	120.1	115.5	111.8
82.5°	85.0	90.5	97.0	98.8	103.5	96.1	83.1	75.8	67.4	63.7	61.0
85°	43.4	46.2	49.9	50.8	49.9	42.5	37.9	34.2	28.6	27.7	25.9
87.5°	11.1	12.9	13.9	12.9	12.0	9.2	6.5	4.6	1.8	1.8	0.9
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

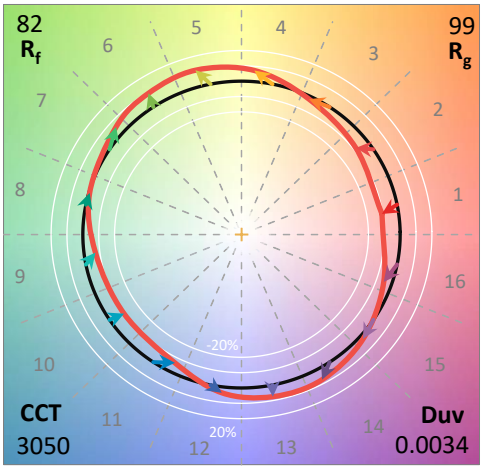
Test Information

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

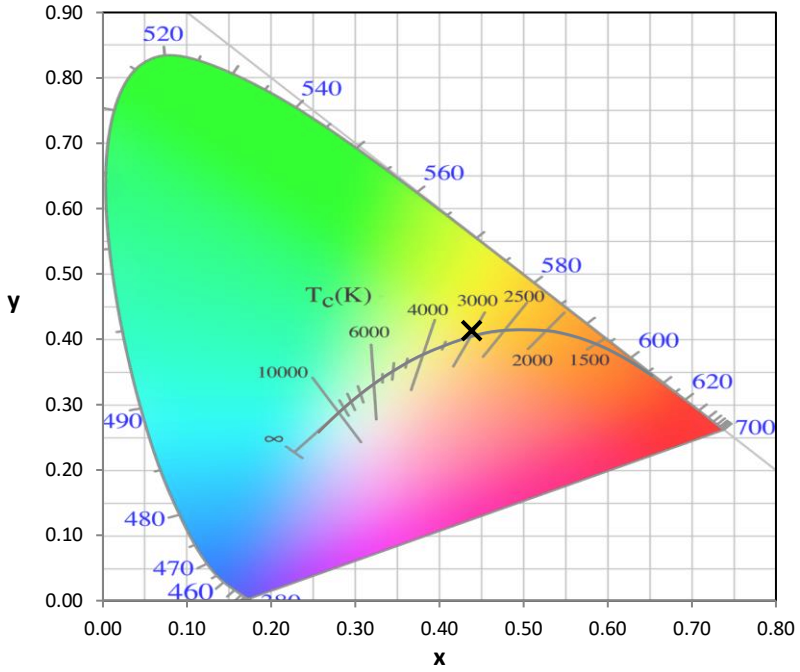
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

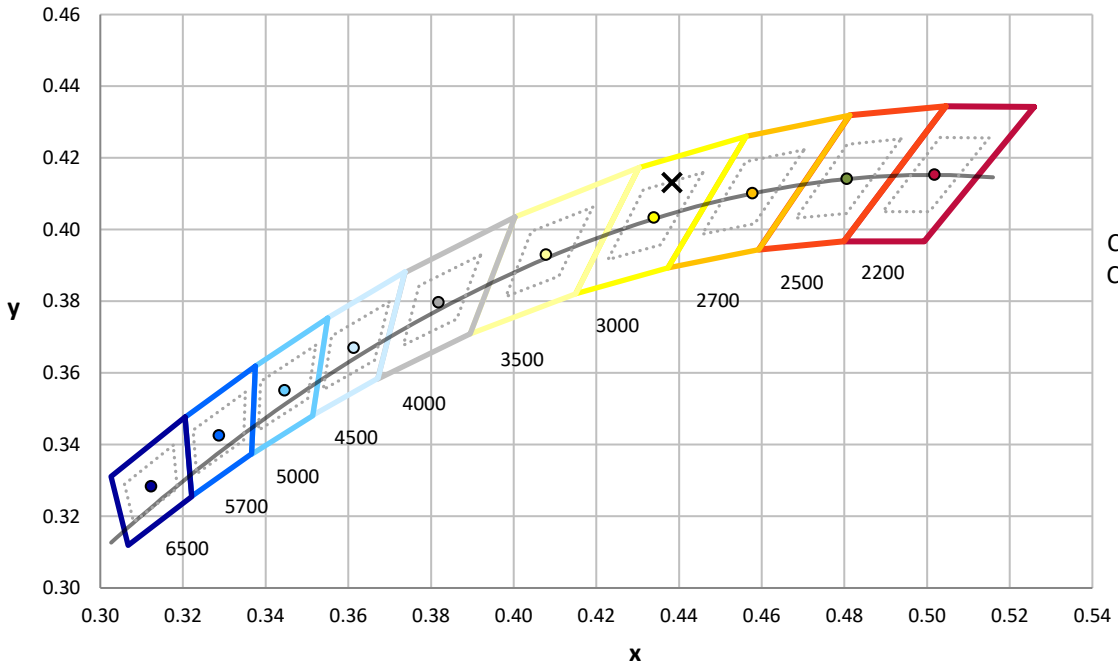
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

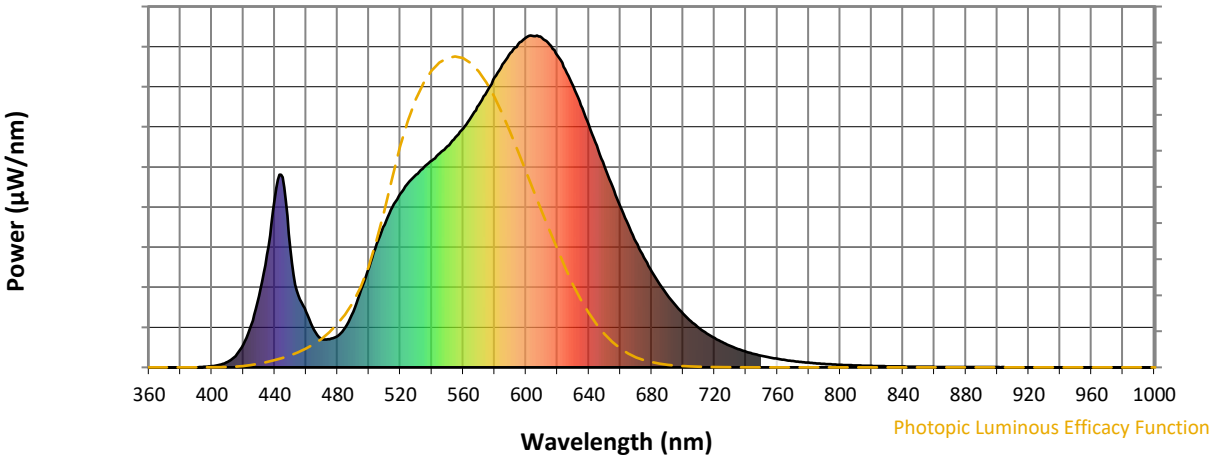


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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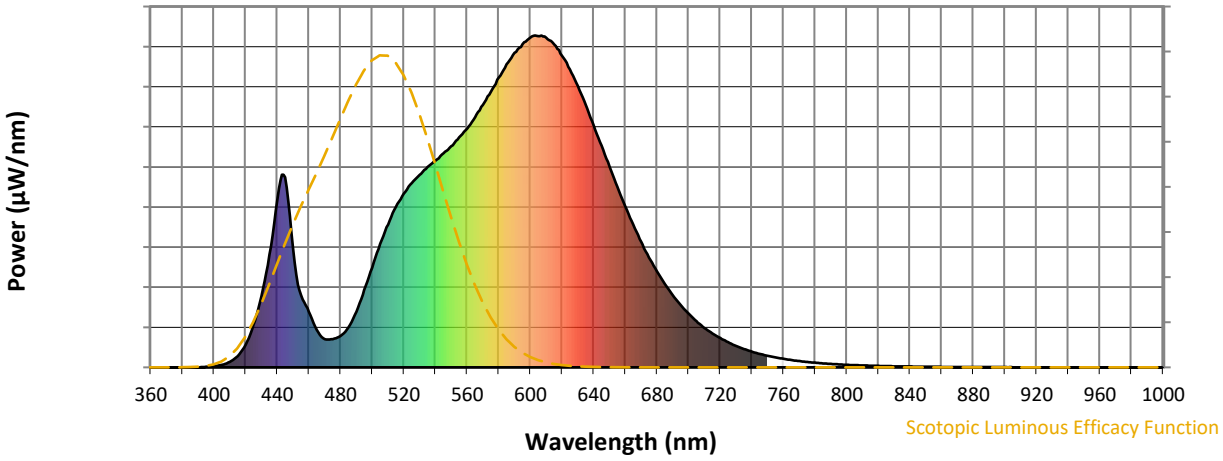
Scotopic Flux vs. Wavelength



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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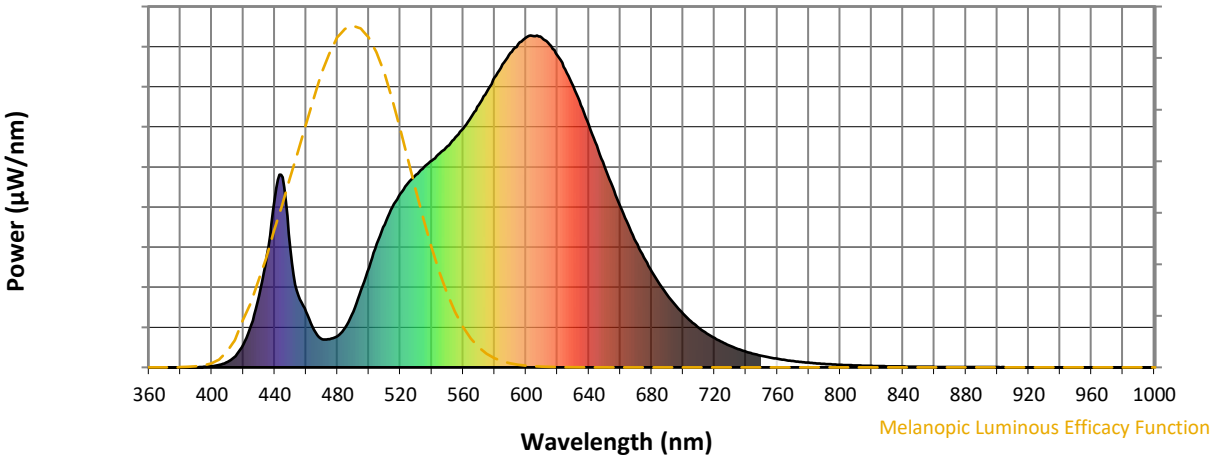
Melanopic Flux vs. Wavelength



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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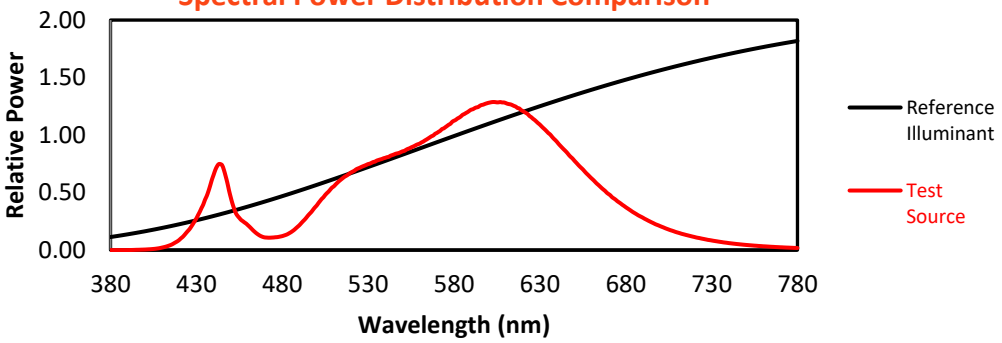
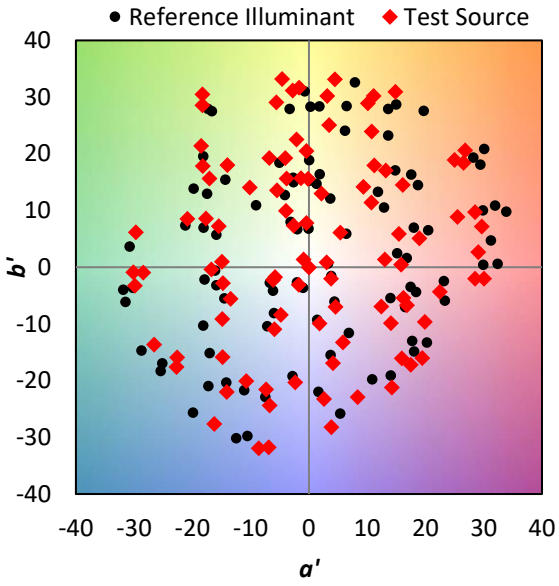
Summary

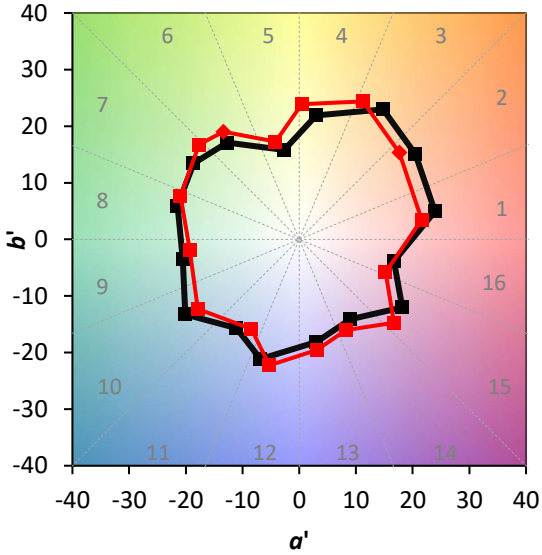
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

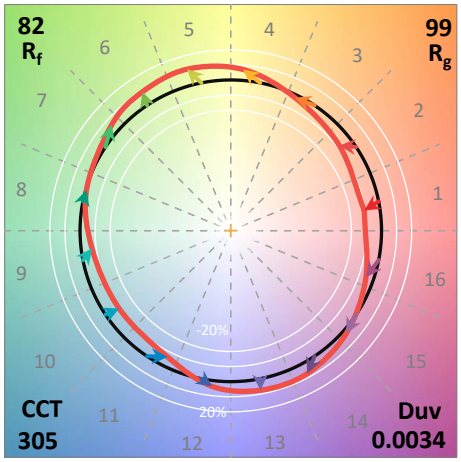
Spectral Power Distribution Comparison

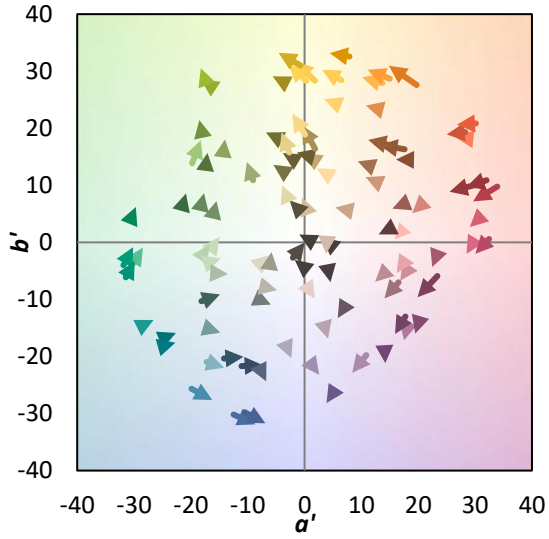


Color Vector Graphics









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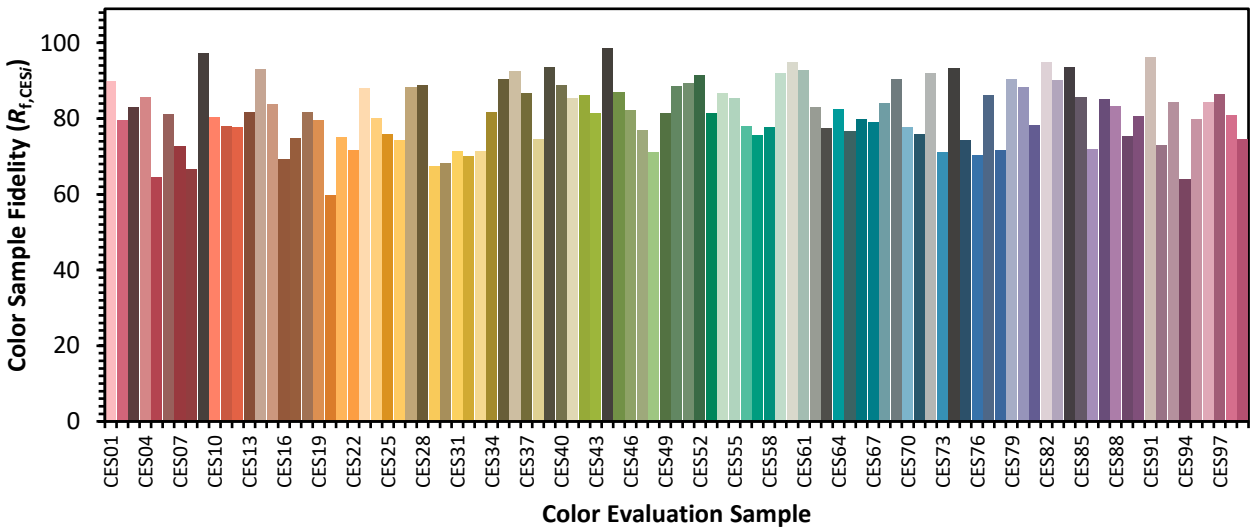
Individual Sample Fidelity Index ($R_{f,i}$)

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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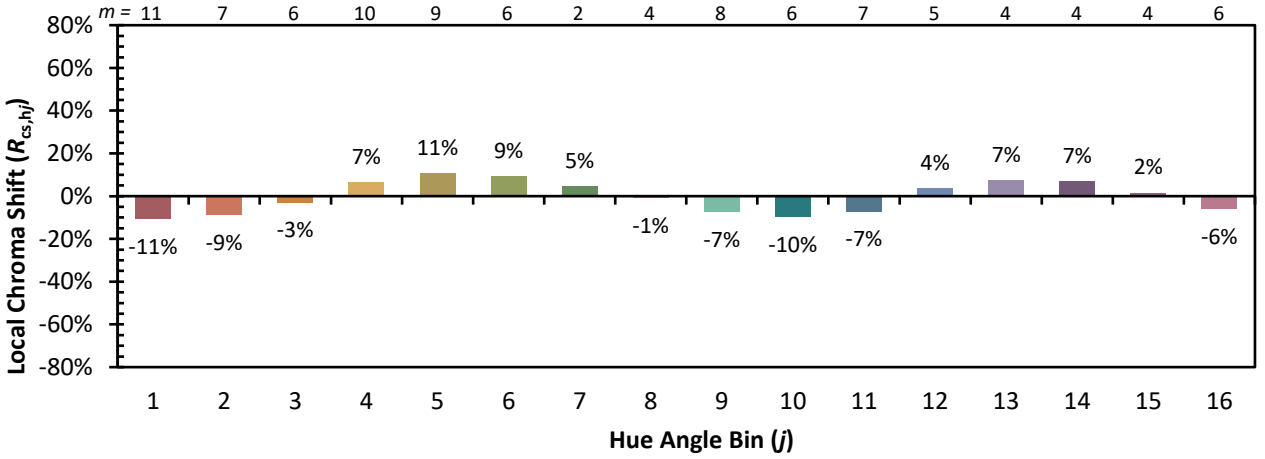
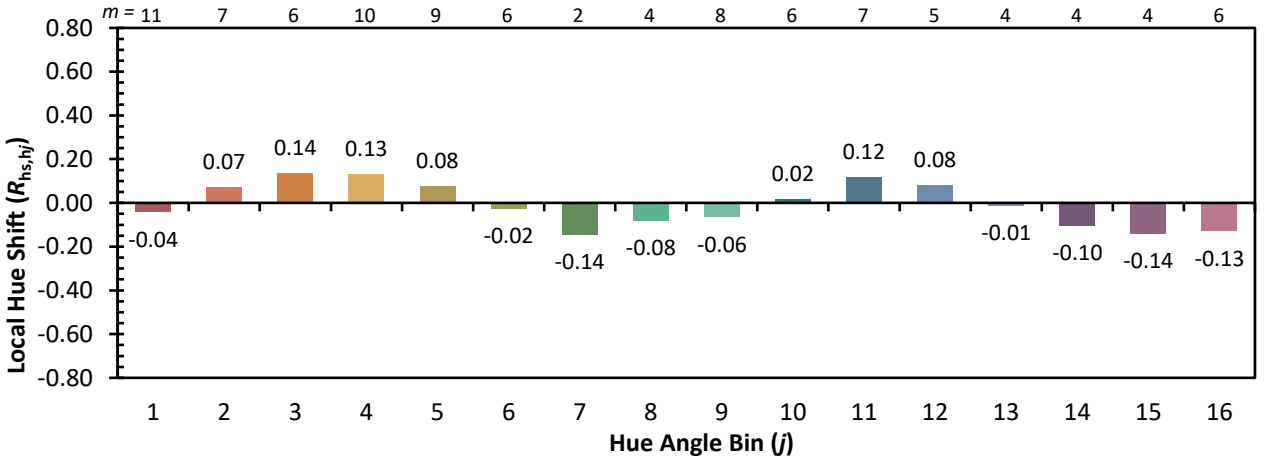
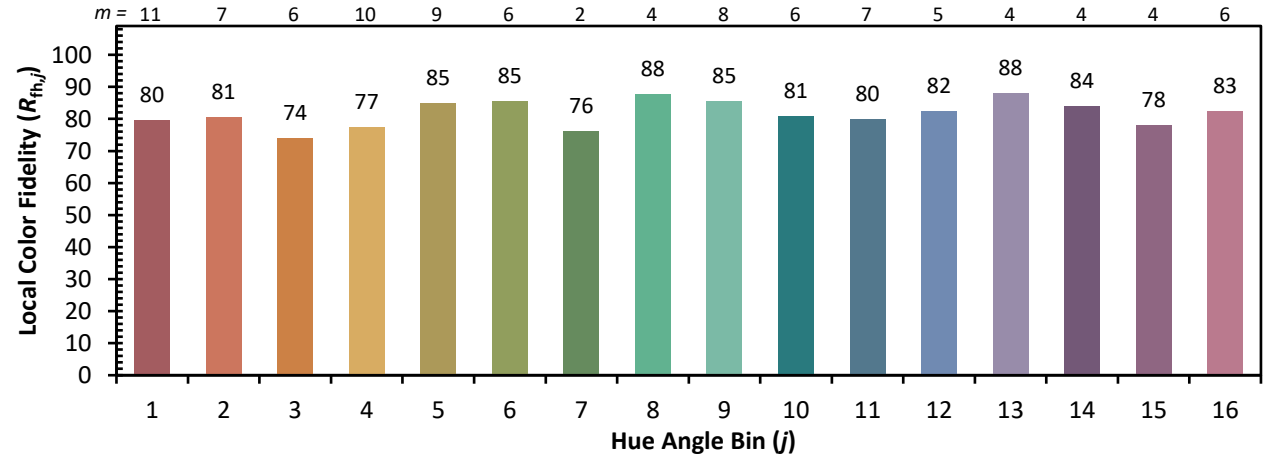
Color Rendition by Hue-Angle Bin







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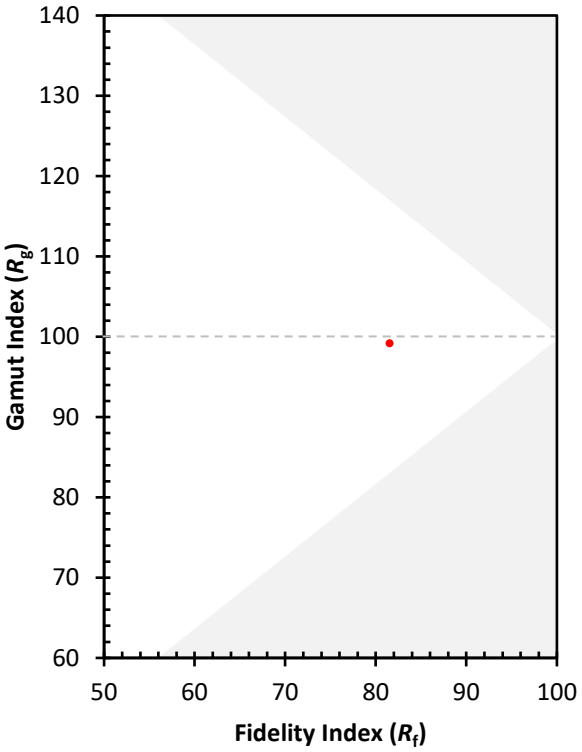
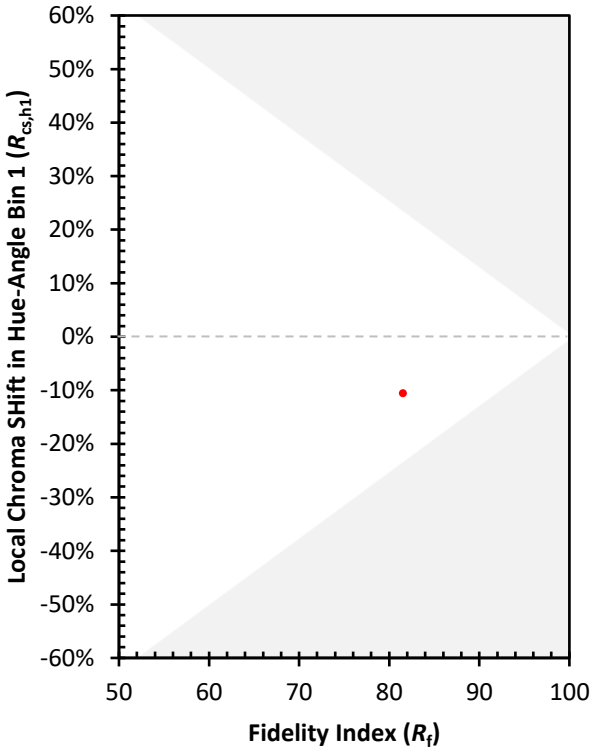
Measure Comparisons





(END OF REPORT)