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: P633515

Luminaire Tested: GWS-SA2E-830-U-AFL-W

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:	P633515
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11803.3 lumens
Efficiency:	N/A
Efficacy:	109.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

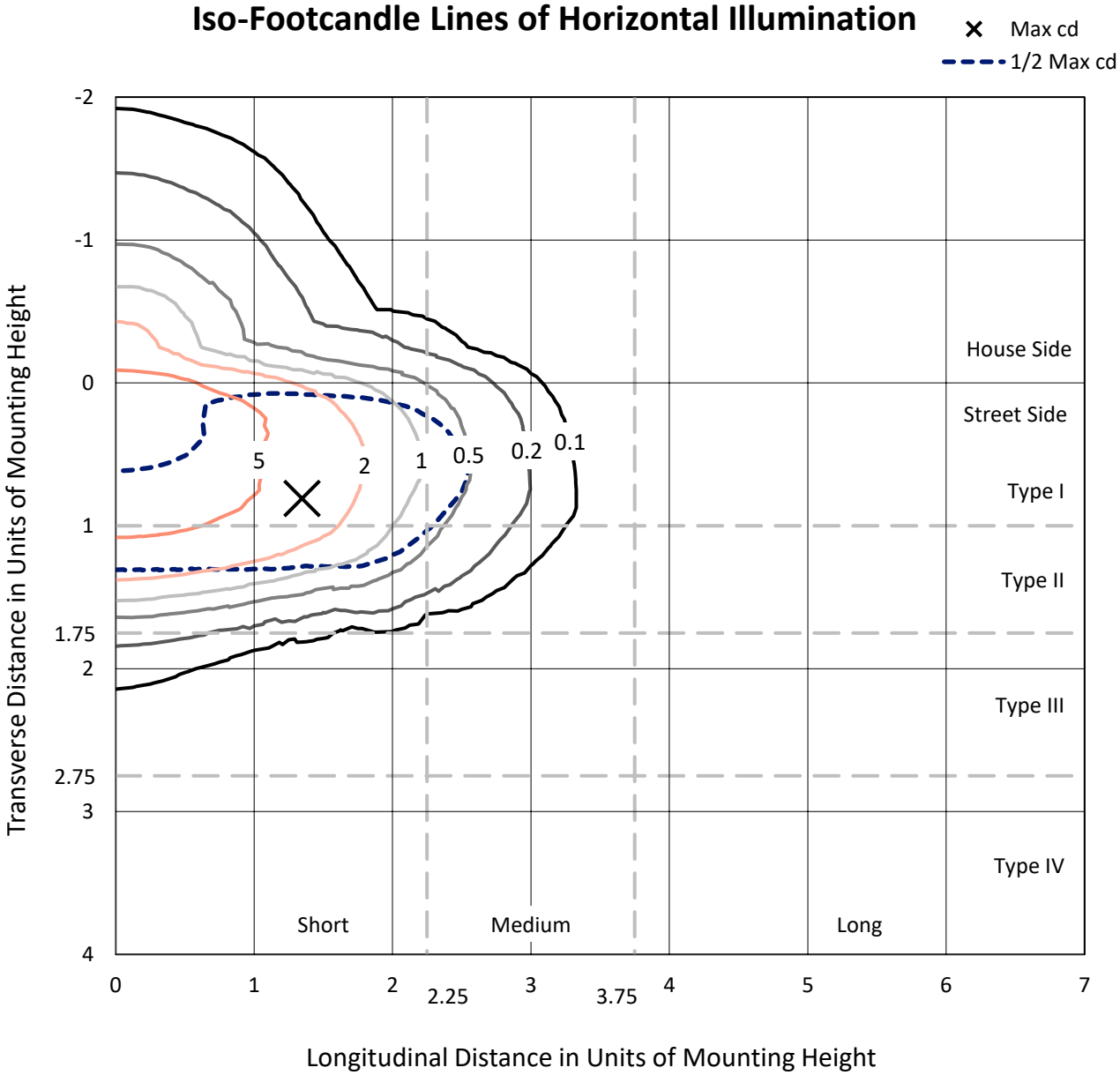
Input Watts (W):	108.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



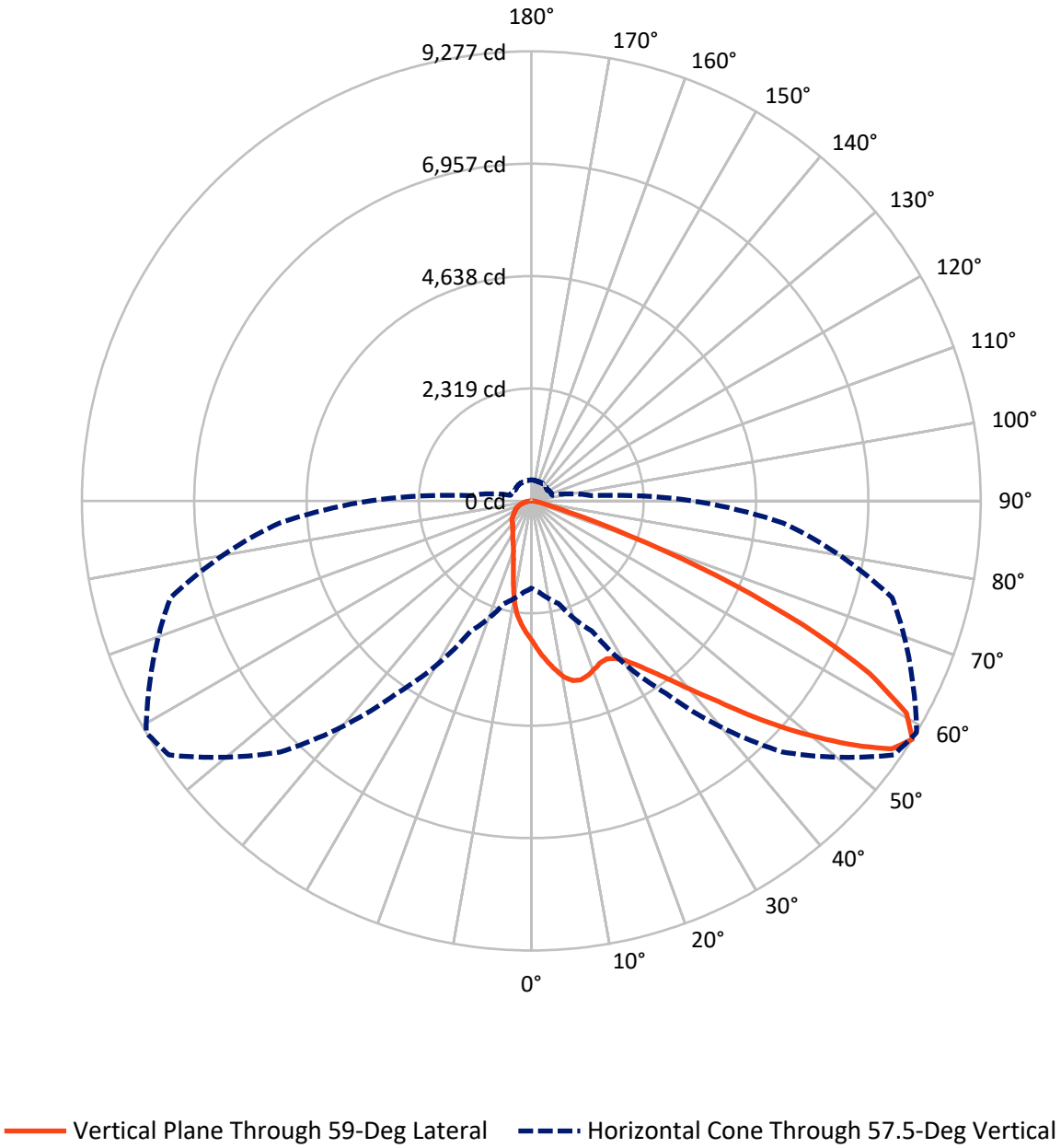
Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

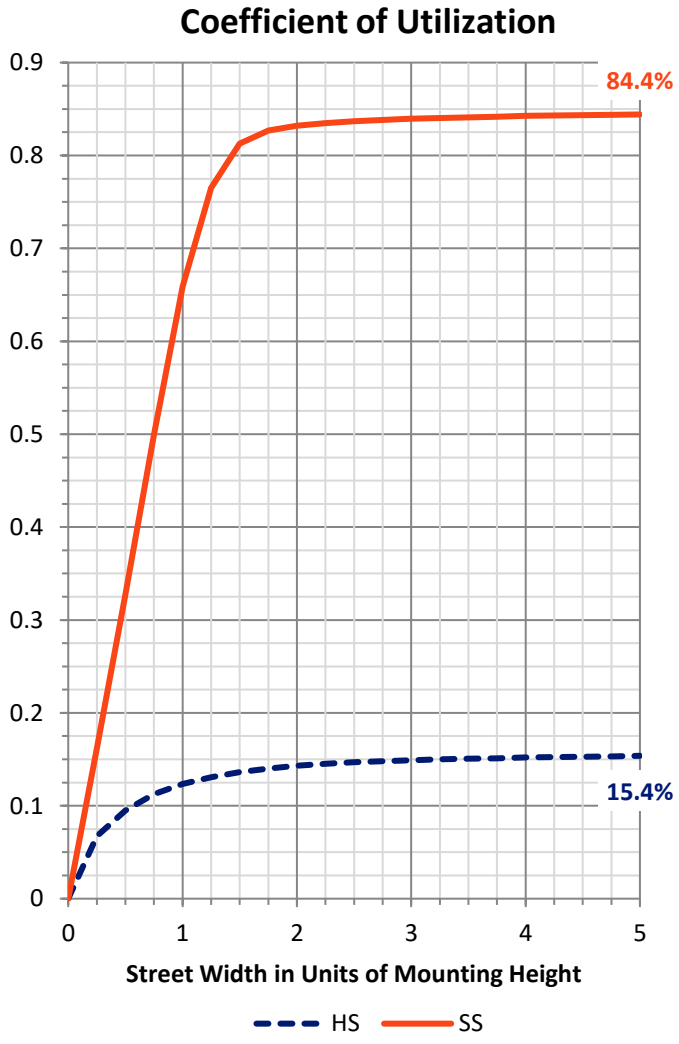
REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1831.8	0.0	1831.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9971.5	0.0	9971.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	11803.3	0.0	11803.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	2.3
10°-20°	681.7	5.8
20°-30°	1105.1	9.4
30°-40°	1777.7	15.1
40°-50°	2760.6	23.4
50°-60°	2973.5	25.2
60°-70°	1725.7	14.6
70°-80°	450.5	3.8
80°-90°	59.3	0.5
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°	11803.3	100.0
0°-180°	11803.3	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

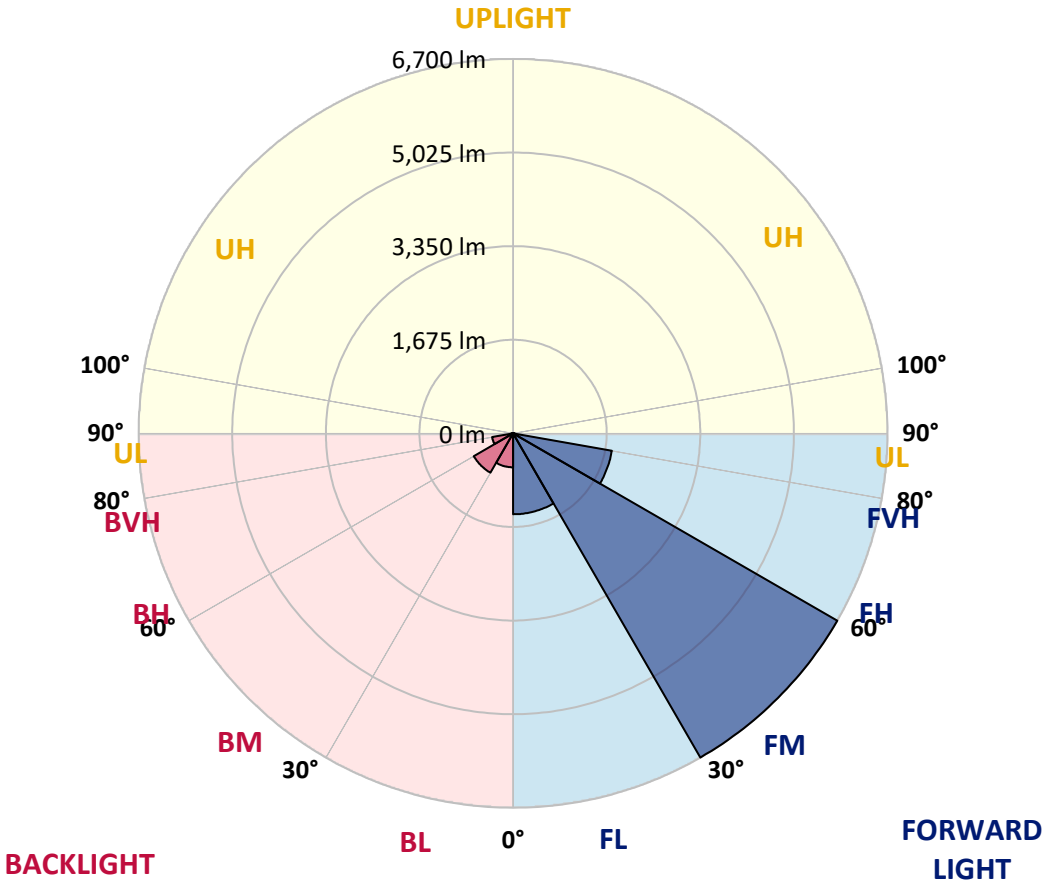
Scaled Data Report

REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1448.2	12.3			
FM	(30°-60°)	6699.7	56.8			
FH	(60°-80°)	1795.2	15.2			G1/1800
FVH	(80°-90°)	28.4	0.2			G1/100
BL	(0°-30°)	607.7	5.1	B2/1000		
BM	(30°-60°)	812.1	6.9	B1/1000		
BH	(60°-80°)	381.0	3.2	B1/500		G1/500
BVH	(80°-90°)	30.9	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-G1
Type II Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5
2.5°	3286.4	3258.9	3278.0	3244.0	3229.8	3192.5	3144.3	3111.9	3062.0	2997.2	2940.7
5°	3612.9	3593.8	3598.0	3561.4	3529.0	3466.7	3367.8	3312.9	3228.2	3097.7	2976.4
7.5°	3602.9	3625.4	3637.8	3669.4	3678.6	3672.7	3583.8	3507.4	3414.3	3218.2	3035.4
10°	3229.8	3272.2	3310.4	3418.5	3549.8	3715.9	3736.7	3691.0	3597.1	3371.9	3106.0
12.5°	2823.5	2855.9	2890.0	3019.6	3220.7	3553.1	3778.3	3806.5	3769.1	3524.0	3185.8
15°	2624.1	2639.1	2671.5	2757.0	2917.4	3286.4	3706.0	3829.8	3897.1	3685.2	3275.6
17.5°	2615.8	2622.4	2638.2	2683.9	2795.3	3080.3	3575.5	3783.3	3997.6	3855.5	3380.2
20°	2787.8	2770.3	2760.4	2759.5	2814.4	3011.3	3449.2	3708.5	4045.0	4030.0	3492.4
22.5°	3026.3	3032.1	3010.5	2957.3	2950.7	3060.3	3386.1	3632.9	4059.1	4184.6	3596.3
25°	3364.5	3393.5	3329.6	3228.2	3178.3	3202.4	3425.1	3609.6	4057.5	4313.4	3661.1
27.5°	3759.2	3781.6	3716.8	3583.8	3480.8	3422.6	3541.4	3678.6	4071.6	4424.7	3700.2
30°	4208.7	4216.2	4127.3	3987.7	3837.3	3712.6	3735.1	3820.6	4143.9	4571.0	3745.9
32.5°	4757.9	4789.5	4654.9	4433.9	4223.6	4064.1	3995.1	4050.0	4300.1	4743.8	3816.5
35°	5455.1	5465.9	5294.7	4978.1	4680.7	4459.6	4315.1	4344.1	4537.7	4985.6	3922.8
37.5°	6112.4	6123.2	5941.2	5647.0	5221.6	4919.1	4709.7	4696.5	4841.9	5327.1	4096.5
40°	6529.5	6560.2	6478.8	6294.3	5888.0	5480.0	5195.8	5150.1	5240.7	5745.1	4338.3
42.5°	6753.8	6767.1	6765.5	6789.6	6547.8	6142.3	5744.3	5652.9	5713.5	6196.3	4582.6
45°	6755.5	6788.7	6877.7	7109.5	7120.3	6867.7	6437.3	6294.3	6238.7	6650.8	4837.7
47.5°	6453.0	6488.8	6733.1	7189.3	7525.8	7583.1	7267.4	6980.7	6746.4	7042.2	5047.1
50°	5537.4	5627.1	6092.4	6899.3	7605.6	8156.5	8059.2	7670.4	7197.6	7344.6	5178.4
52.5°	4742.2	4738.8	5025.5	6080.0	7272.4	8409.1	8825.4	8380.0	7643.8	7536.6	5211.6
55°	3472.5	3491.6	3784.9	4649.9	6383.3	8164.8	9246.7	9033.1	8155.6	7638.8	5198.3
57.5°	1800.6	1895.4	2196.2	2967.3	4850.2	7323.9	9134.5	9276.6	8675.8	7711.1	5215.8
60°	909.9	891.6	999.6	1416.7	2810.2	5720.2	8443.1	8896.0	8769.7	7767.6	5226.6
62.5°	607.4	602.4	572.5	656.4	1148.4	3387.7	7197.6	7832.4	8117.4	7634.6	5088.7
65°	526.0	516.0	461.2	457.8	557.6	1405.1	5275.6	6157.2	6709.0	7043.8	4758.8
67.5°	473.6	458.7	403.0	375.6	400.5	617.4	2973.1	4129.8	4954.0	5957.0	4035.9
70°	422.9	415.5	359.8	319.9	317.4	376.4	1095.2	2131.4	3031.3	4064.1	2950.7
72.5°	378.9	365.6	318.2	280.0	260.9	266.7	475.3	821.0	1568.8	2535.2	1764.9
75°	328.2	318.2	276.7	238.5	215.2	195.3	290.0	379.7	715.4	1204.9	833.4
77.5°	253.4	246.8	218.5	189.5	176.2	145.4	176.2	239.3	330.7	507.7	433.7
80°	147.1	151.2	162.9	147.9	129.6	103.9	114.7	137.9	198.6	275.0	246.0
82.5°	74.0	78.9	105.5	85.6	77.3	60.7	68.1	81.4	103.9	152.1	96.4
85°	5.8	5.8	19.1	21.6	26.6	21.6	27.4	33.2	47.4	60.7	32.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.2	7.5	14.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P633515
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5	2897.5
2.5°	2902.5	2860.1	2809.4	2767.8	2703.9	2669.8	2626.6	2573.4	2551.8	2541.8	2536.0
5°	2908.3	2833.5	2725.5	2625.8	2515.2	2428.0	2330.8	2229.4	2171.2	2157.1	2147.1
7.5°	2929.9	2825.2	2653.2	2488.7	2283.4	2093.1	1907.8	1724.2	1630.3	1594.6	1591.2
10°	2959.8	2821.9	2580.1	2306.7	1960.2	1659.4	1442.5	1298.8	1238.1	1218.2	1211.5
12.5°	2997.2	2819.4	2483.7	2054.1	1587.1	1302.9	1179.1	1155.8	1164.1	1162.5	1162.5
15°	3044.5	2822.7	2367.3	1768.2	1283.8	1130.9	1133.4	1160.8	1186.6	1190.7	1190.7
17.5°	3096.1	2819.4	2198.7	1481.6	1101.8	1090.2	1128.4	1166.6	1189.9	1193.2	1193.2
20°	3151.7	2803.6	1985.9	1211.5	1022.1	1064.4	1106.0	1135.9	1150.0	1153.3	1153.3
22.5°	3185.0	2758.7	1754.9	1025.4	971.4	1023.7	1051.1	1081.9	1083.5	1057.0	1056.1
25°	3180.0	2674.8	1491.5	905.7	917.4	963.1	998.0	976.3	949.8	934.8	932.3
27.5°	3148.4	2548.5	1223.1	815.1	853.4	904.9	894.1	875.8	869.2	852.5	850.9
30°	3108.5	2393.1	982.2	744.5	786.9	834.3	817.6	816.0	809.3	791.1	791.1
32.5°	3070.3	2232.7	800.2	692.2	744.5	747.8	771.1	772.8	769.4	737.9	734.5
35°	3059.5	2072.4	677.2	650.6	703.0	701.3	734.5	733.7	676.4	632.3	631.5
37.5°	3091.9	1909.5	604.1	616.6	645.6	667.2	693.8	645.6	626.5	599.9	598.3
40°	3160.9	1759.1	566.7	596.6	609.1	640.7	599.1	602.4	597.4	577.5	575.0
42.5°	3252.3	1631.1	545.9	590.0	588.3	596.6	550.9	564.2	571.7	556.7	554.2
45°	3340.4	1519.8	535.1	565.0	573.3	525.2	516.0	528.5	540.1	534.3	531.8
47.5°	3405.2	1423.4	529.3	531.0	554.2	501.1	486.1	491.9	506.0	508.5	507.7
50°	3425.1	1341.1	522.7	502.7	497.7	477.0	465.3	463.7	480.3	491.9	493.6
52.5°	3386.9	1268.0	505.2	477.8	453.7	457.0	452.9	444.6	461.2	477.0	478.6
55°	3330.4	1226.5	477.8	453.7	425.4	438.7	440.4	432.9	443.7	454.5	454.5
57.5°	*3334.5*	*1250.6*	*451.2*	*431.3*	*400.5*	*418.0*	*427.1*	*423.8*	*423.8*	*432.1*	*432.9*
60°	3362.0	1285.5	433.7	403.0	375.6	393.9	414.6	411.3	403.8	414.6	414.6
62.5°	3283.0	1238.9	422.1	375.6	349.0	370.6	395.5	393.9	385.6	403.0	404.7
65°	3050.4	1114.3	408.8	341.5	322.4	347.3	368.9	374.8	367.3	390.5	394.7
67.5°	2556.8	937.3	383.1	309.1	295.8	319.1	339.9	348.2	342.3	369.8	373.1
70°	1906.2	758.6	342.3	273.4	263.4	284.2	303.3	306.6	307.4	339.9	343.2
72.5°	1215.7	590.0	288.3	233.5	226.0	241.8	255.9	269.2	275.0	305.8	305.0
75°	678.0	438.7	231.8	197.8	184.5	196.9	213.6	229.3	246.0	290.8	295.8
77.5°	390.5	308.3	183.6	158.7	142.9	156.2	170.3	192.8	242.6	281.7	276.7
80°	220.2	200.3	138.8	116.3	106.4	116.3	127.1	169.5	191.1	207.7	210.2
82.5°	103.0	112.2	94.7	71.5	71.5	78.1	88.1	131.3	144.6	118.0	103.0
85°	37.4	50.7	46.5	36.6	32.4	31.6	54.8	74.8	46.5	41.5	35.7
87.5°	10.0	14.1	13.3	9.1	5.0	4.2	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

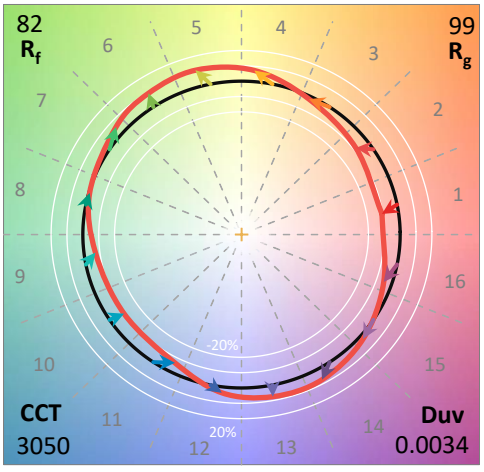
Test Information

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

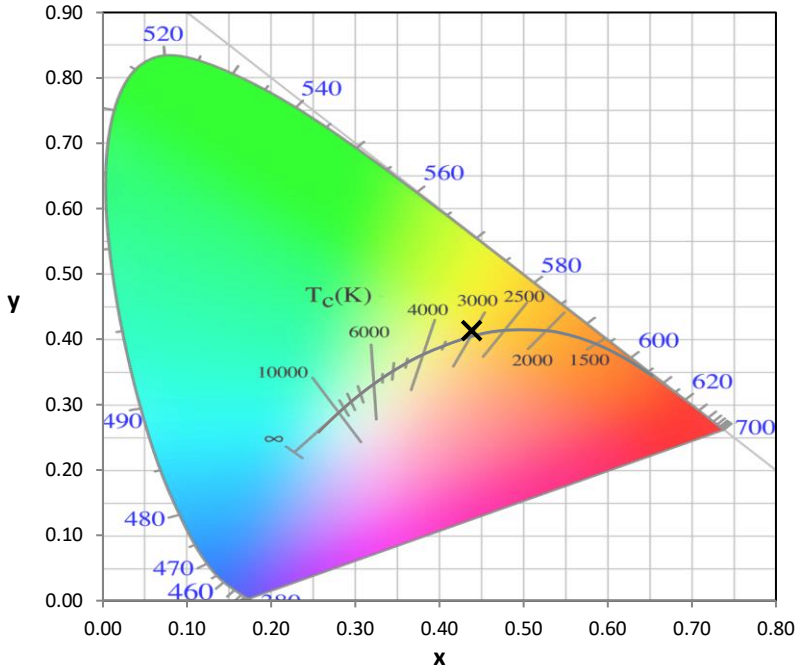
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

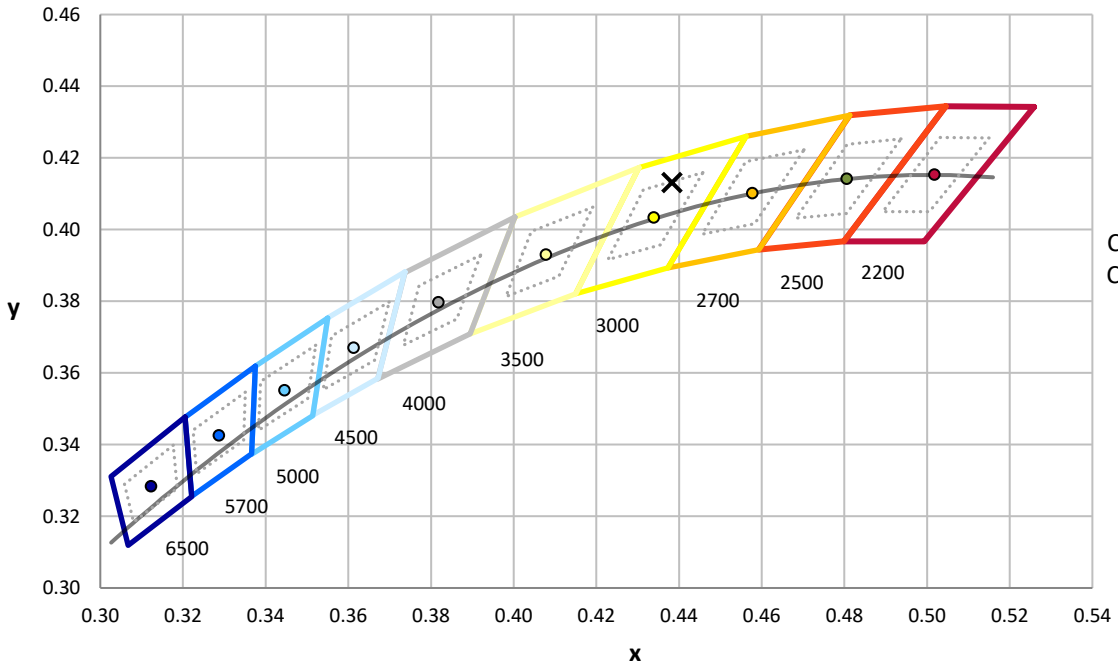
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

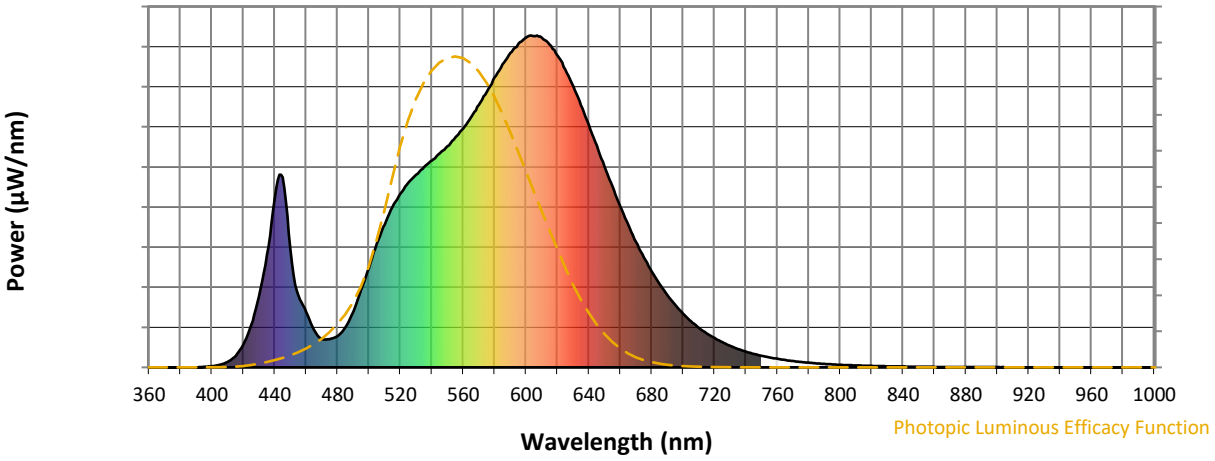


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

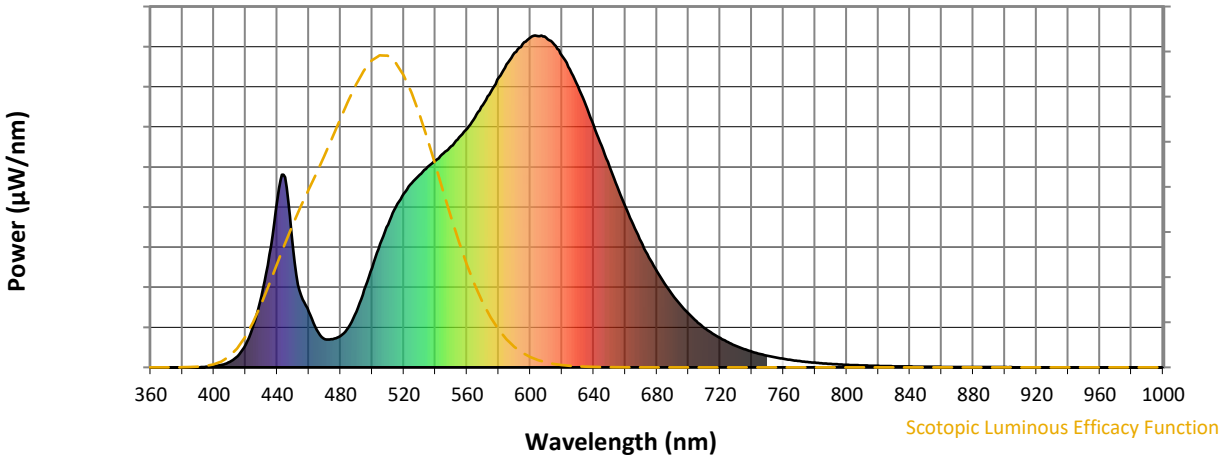


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

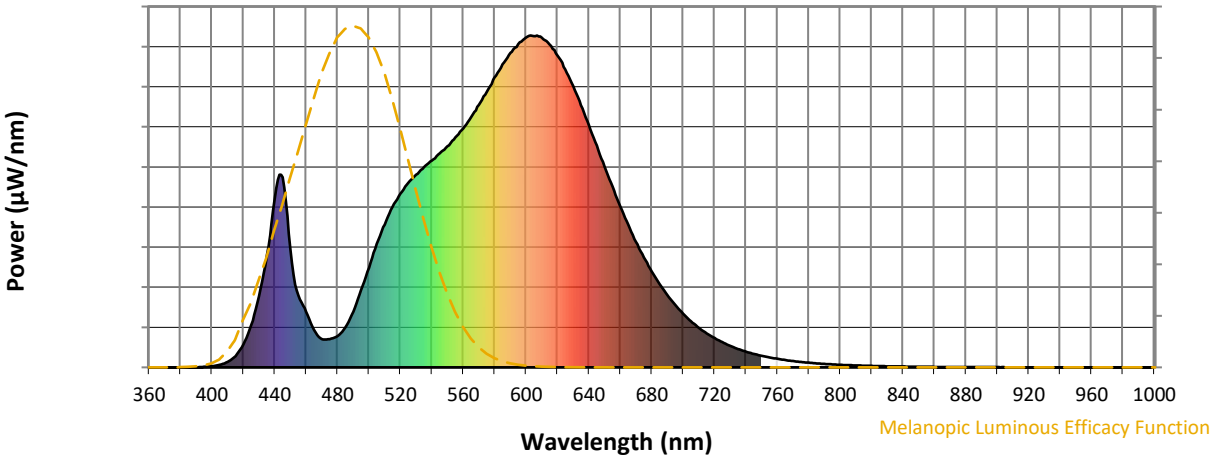


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

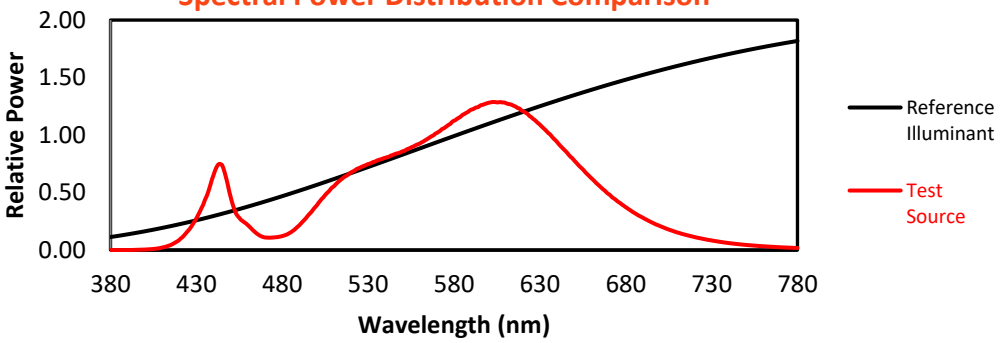
REPORT NUMBER: SP1-2408-195-9

TM-30-18

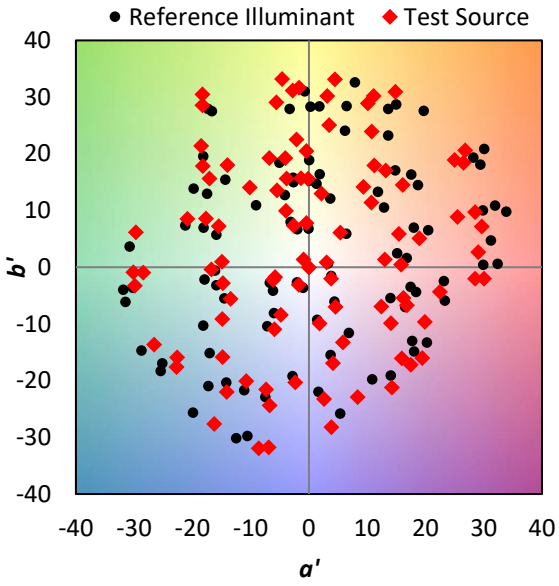
Summary

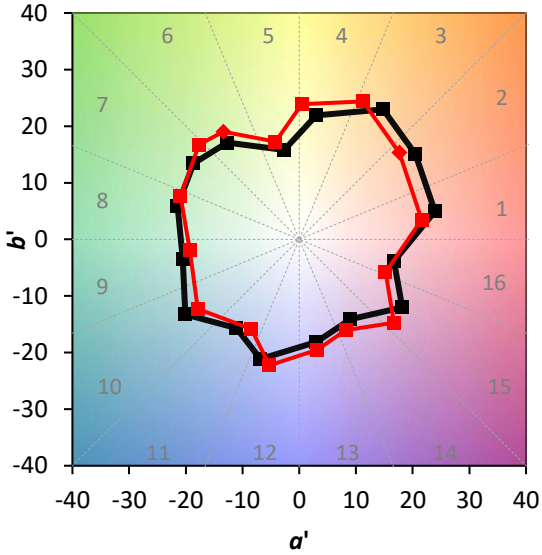
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

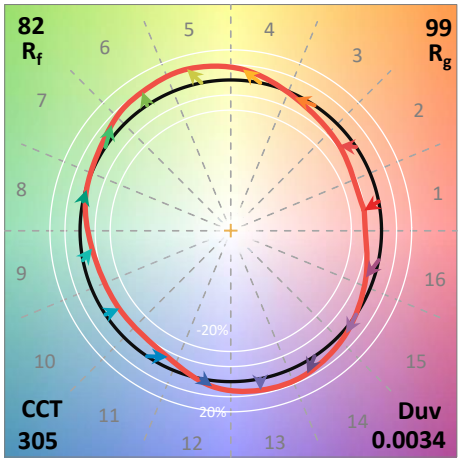
Spectral Power Distribution Comparison

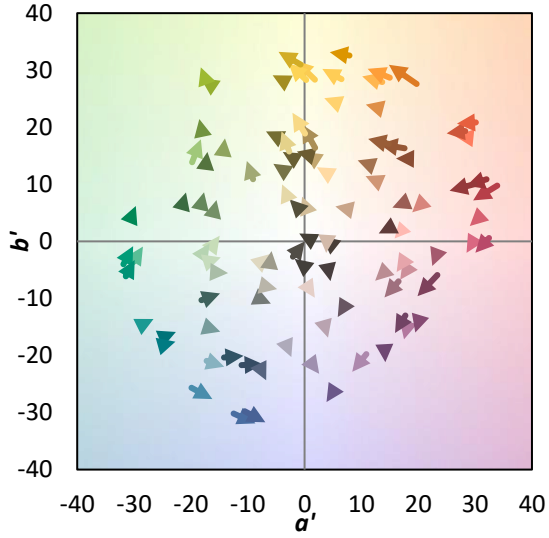


Color Vector Graphics







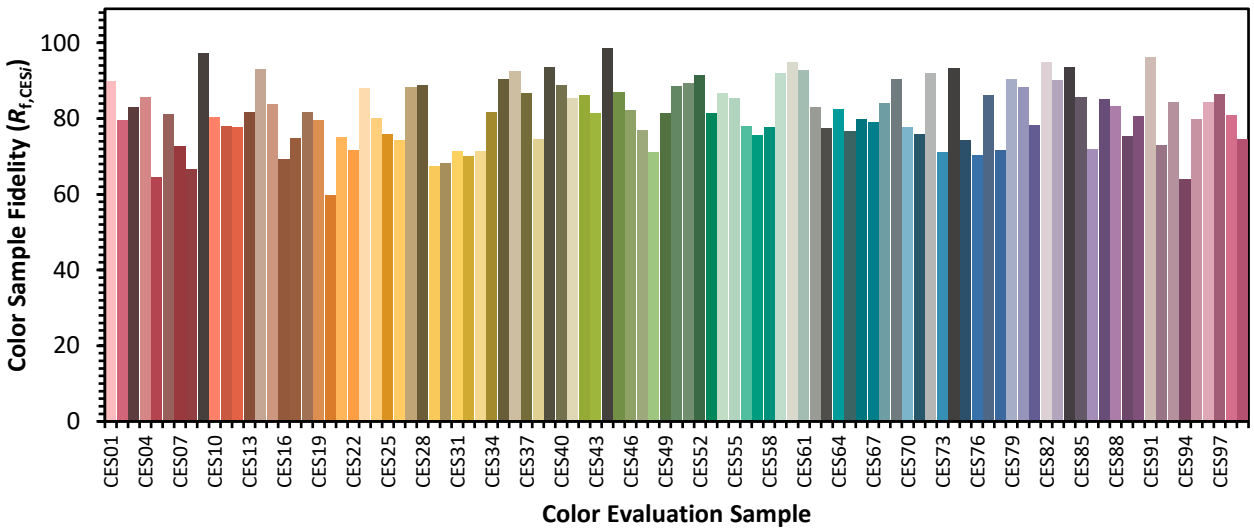


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

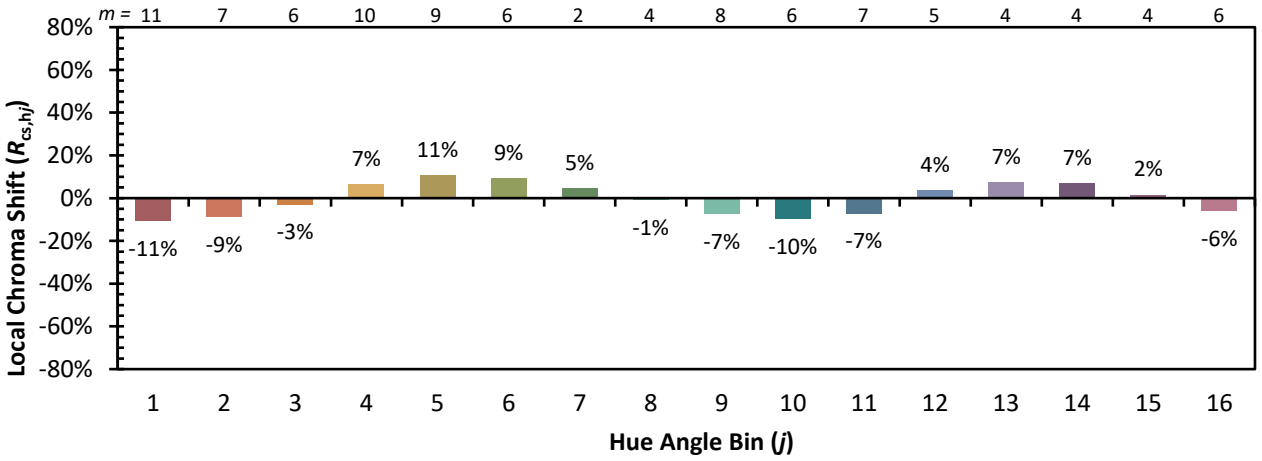
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

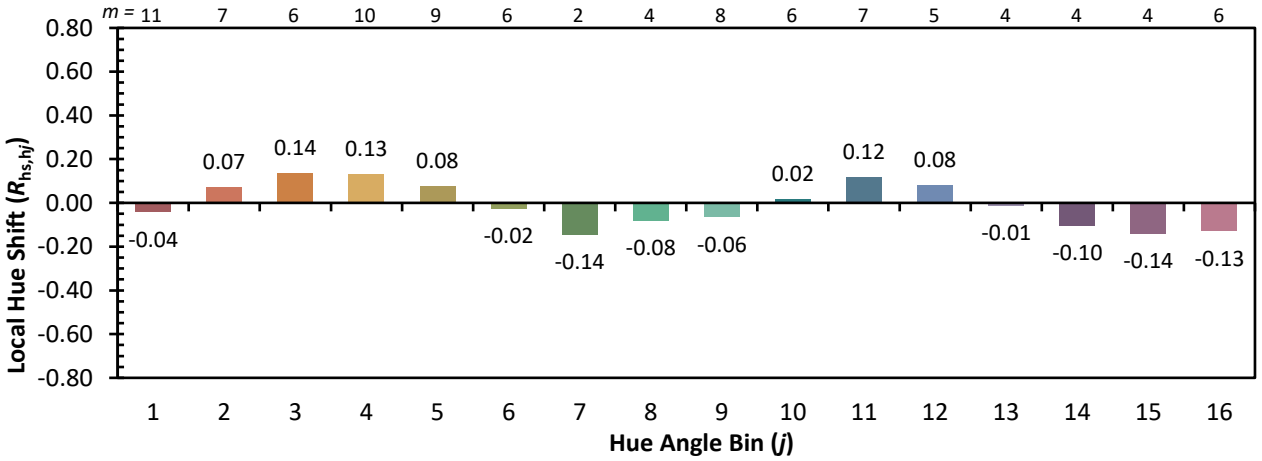


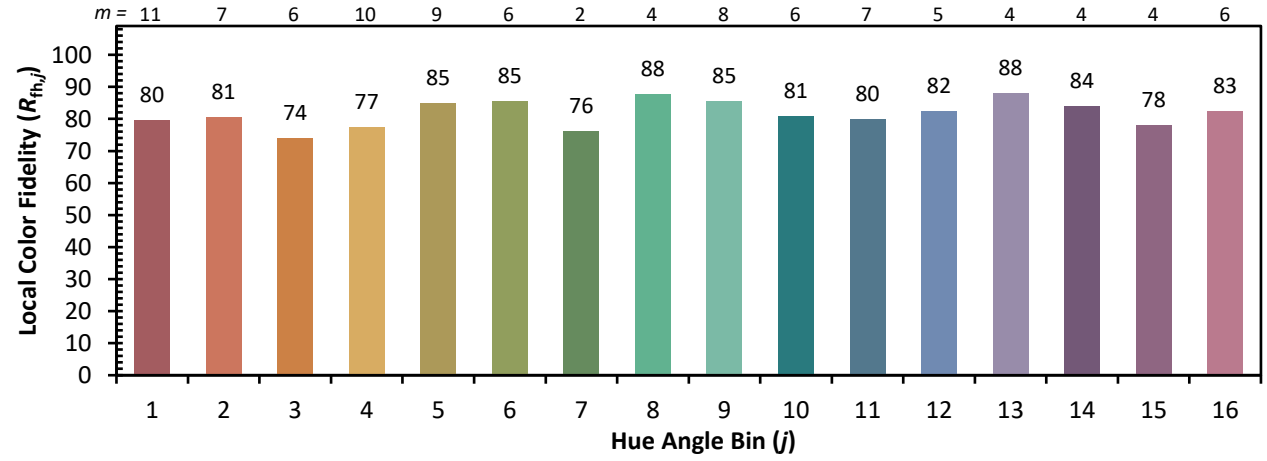
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



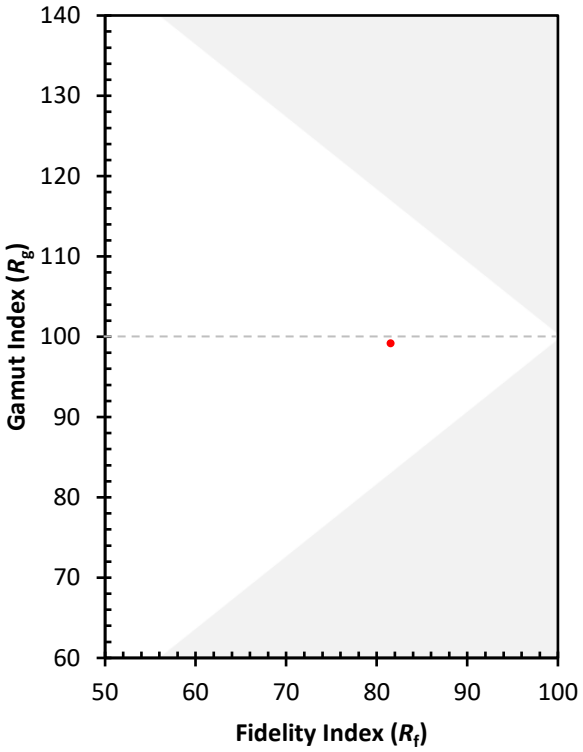


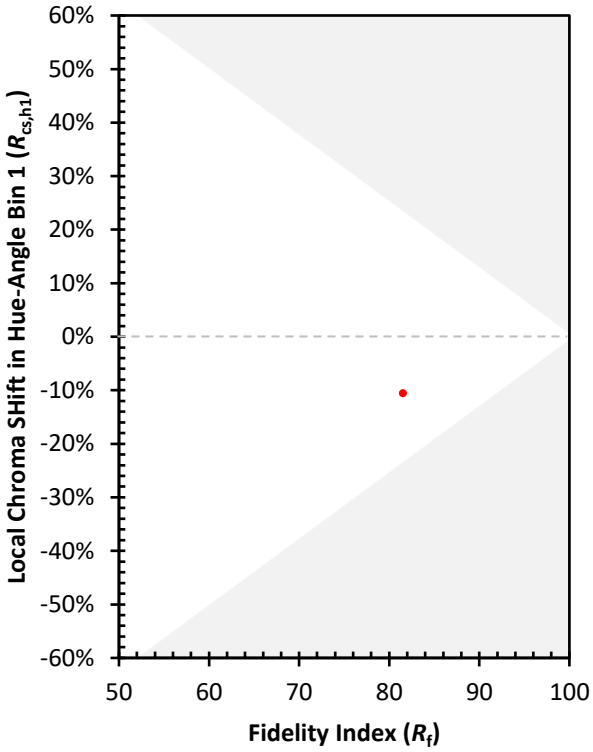


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)