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: P634021

Luminaire Tested: GWS-SA2F-830-U-SL3-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:	P634021
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
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
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12627 lumens
Efficiency:	N/A
Efficacy:	101.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

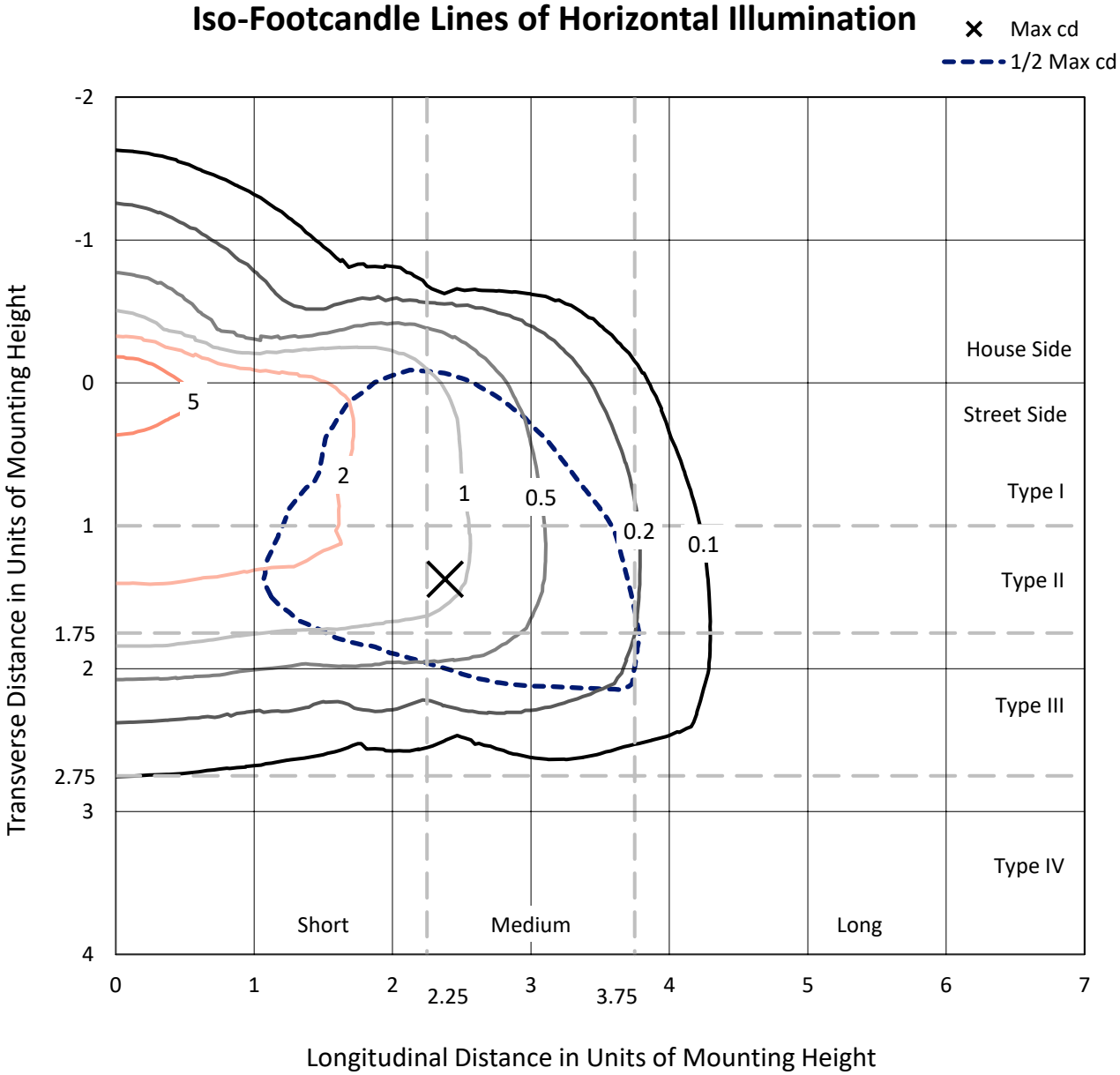
Input Watts (W):	124.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



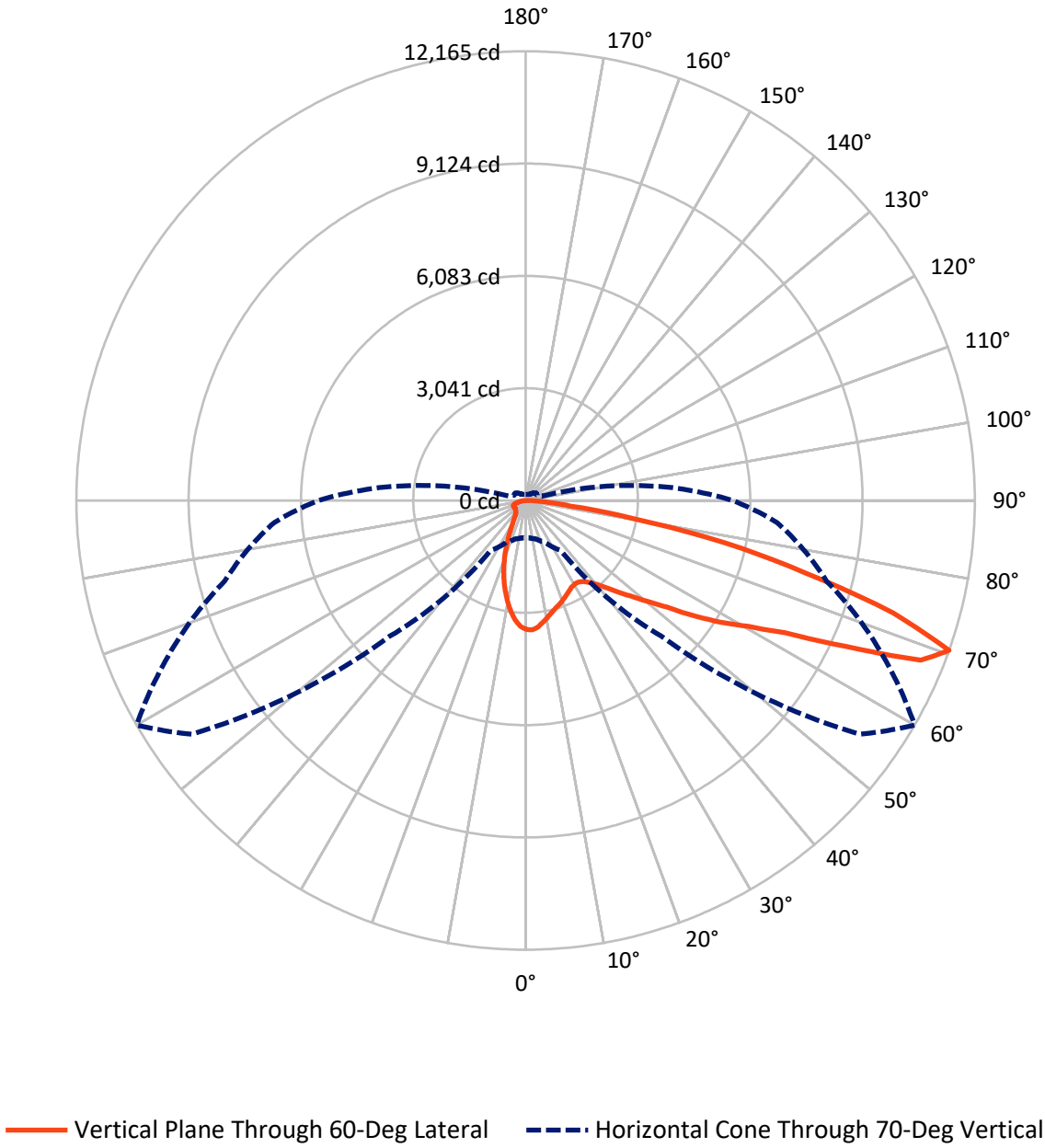
Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

Luminous Intensity Polar Plot



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

Scaled Data Report

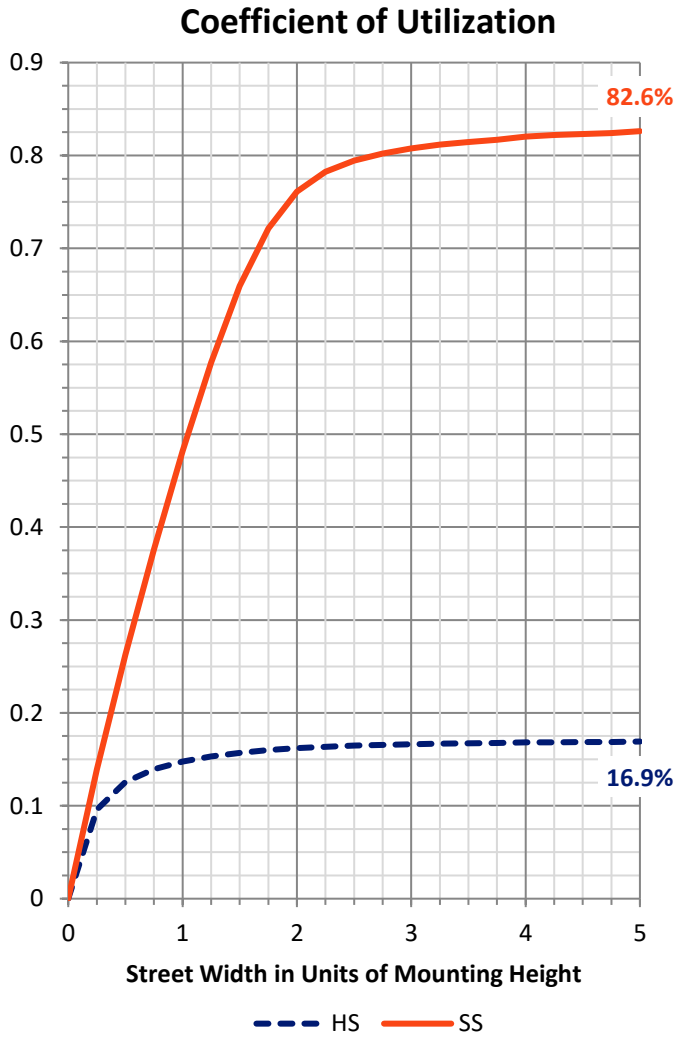
REPORT NUMBER: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2159.5	0.0	2159.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10467.5	0.0	10467.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	12627.0	0.0	12627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	2.4
10°-20°	674.7	5.3
20°-30°	864.1	6.8
30°-40°	1135.6	9.0
40°-50°	1647.6	13.0
50°-60°	2570.7	20.4
60°-70°	3365.5	26.7
70°-80°	1861.0	14.7
80°-90°	206.5	1.6
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°	12627.0	100.0
0°-180°	12627.0	100.0



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

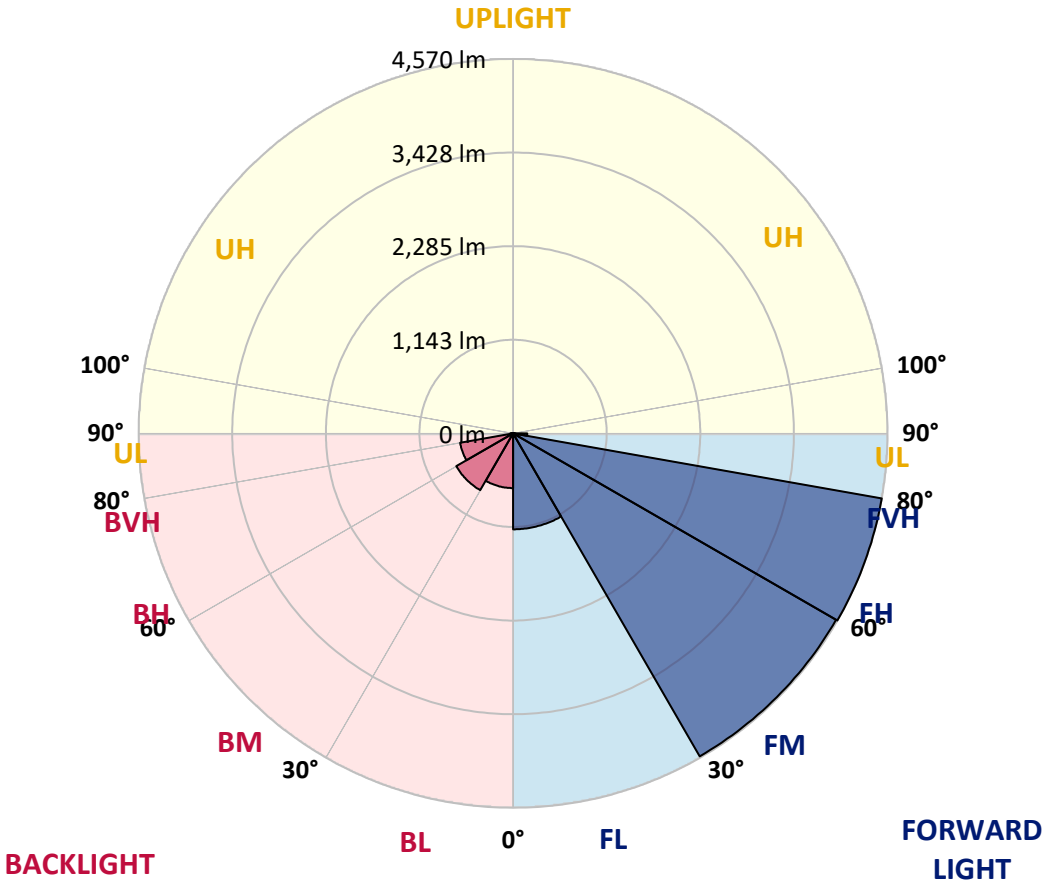
Scaled Data Report

REPORT NUMBER: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1171.9	9.3			
FM	(30°-60°)	4553.2	36.1			
FH	(60°-80°)	4570.3	36.2			G2/5000
FVH	(80°-90°)	172.1	1.4			G2/225
BL	(0°-30°)	668.1	5.3	B2/1000		
BM	(30°-60°)	800.7	6.3	B1/1000		
BH	(60°-80°)	656.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	34.4	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 III Medium



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

Scaled Data Report

REPORT NUMBER: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1
2.5°	3445.1	3448.8	3458.9	3473.7	3488.5	3495.9	3514.4	3508.8	3505.1	3497.7	3488.5
5°	3292.7	3300.0	3309.3	3337.9	3370.3	3396.1	3437.7	3442.3	3444.2	3447.9	3433.1
7.5°	3098.6	3100.5	3122.7	3160.5	3203.0	3247.4	3316.7	3336.1	3352.7	3371.2	3359.2
10°	2884.3	2888.9	2905.6	2960.1	3033.0	3098.6	3192.0	3224.3	3259.4	3300.0	3283.4
12.5°	2708.8	2709.7	2736.5	2794.7	2874.1	2962.8	3079.2	3118.0	3164.2	3228.0	3213.2
15°	2569.3	2569.3	2594.2	2644.1	2735.6	2840.0	2978.5	3028.4	3091.2	3177.2	3151.3
17.5°	2458.4	2459.3	2475.0	2527.7	2609.0	2724.5	2888.9	2956.4	3025.7	3139.3	3100.5
20°	2400.2	2395.6	2398.4	2430.7	2500.0	2611.8	2799.3	2877.8	2971.1	3113.4	3054.3
22.5°	2397.4	2389.1	2377.1	2379.9	2420.5	2512.9	2703.2	2798.4	2915.7	3092.2	3007.2
25°	2444.5	2435.3	2414.1	2390.0	2386.3	2441.8	2612.7	2720.8	2858.4	3082.9	2961.9
27.5°	2524.0	2517.5	2489.8	2453.8	2415.9	2414.1	2544.3	2657.0	2816.9	3092.2	2929.6
30°	2629.3	2618.2	2600.7	2554.5	2497.2	2438.1	2517.5	2622.9	2789.1	3121.7	2915.7
32.5°	2748.5	2742.0	2725.4	2679.2	2618.2	2524.0	2538.8	2630.2	2789.1	3173.5	2918.5
35°	2875.1	2874.1	2874.1	2843.7	2776.2	2658.9	2622.9	2693.1	2831.6	3256.6	2948.1
37.5°	2997.9	2997.0	3026.6	3037.7	2961.0	2834.4	2766.0	2818.7	2925.0	3379.5	3021.0
40°	3097.7	3101.4	3166.1	3221.5	3179.0	3061.7	2965.6	2992.4	3076.5	3554.1	3148.5
42.5°	3198.4	3208.6	3305.6	3403.5	3420.1	3318.5	3221.5	3237.2	3293.6	3785.1	3338.8
45°	3308.4	3313.0	3448.8	3585.5	3665.9	3605.8	3526.4	3547.6	3560.6	4070.5	3622.5
47.5°	3414.6	3426.6	3602.1	3789.7	3942.1	3936.6	3892.2	3885.8	3888.5	4417.9	3957.8
50°	3559.6	3577.2	3783.2	4009.6	4233.1	4335.7	4348.6	4299.7	4279.3	4804.1	4375.4
52.5°	3835.0	3835.0	4019.7	4242.4	4542.6	4796.7	4883.5	4803.2	4738.5	5212.4	4818.9
55°	4179.6	4194.3	4341.2	4521.4	4902.0	5281.7	5575.5	5486.8	5303.9	5656.8	5283.6
57.5°	4332.9	4351.4	4584.2	4864.1	5372.3	5833.3	6240.7	6209.3	5942.3	6118.8	5765.8
60°	4055.8	4094.6	4415.1	4884.5	5798.2	6723.0	7010.3	6918.8	6537.3	6603.8	6288.7
62.5°	3383.2	3425.7	3781.4	4436.4	5739.0	7684.7	8223.3	7886.1	7280.0	7216.3	6985.3
65°	2018.6	2016.8	2444.5	3313.0	5010.1	7951.7	10143.1	9514.0	8427.5	8057.0	7702.3
67.5°	1283.2	1280.5	1370.1	1755.3	3334.2	7297.6	11377.4	11540.9	9986.0	8675.1	7761.4
70°	1012.6	1011.6	1076.3	1251.8	1649.1	5193.0	11033.7	12165.4	10927.5	8439.5	6833.8
72.5°	738.2	740.0	839.8	1048.6	1272.2	2607.1	8934.7	10409.2	10050.7	7450.0	5547.8
75°	530.3	533.1	593.1	802.8	1173.3	1425.5	5941.4	7827.0	7646.8	5971.9	3816.5
77.5°	337.2	340.9	393.6	562.6	947.9	1151.1	3602.1	5525.6	5087.7	3364.7	1357.2
80°	206.0	218.0	262.4	419.4	757.6	863.8	1800.6	2911.1	2548.0	922.9	456.4
82.5°	106.2	115.5	158.0	259.6	522.0	758.5	1019.0	1223.2	789.0	386.2	243.0
85°	33.3	38.8	55.4	105.3	248.5	470.2	674.4	607.9	362.2	182.0	112.7
87.5°	8.3	8.3	9.2	9.2	10.2	21.2	130.3	137.7	96.1	57.3	46.2
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: P634021
CATALOG NUMBER: GWS-SA2F-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1
2.5°	3470.0	3447.9	3438.6	3437.7	3414.6	3381.3	3359.2	3343.5	3334.2	3332.4	3332.4
5°	3408.1	3379.5	3341.6	3313.0	3251.1	3188.3	3135.6	3106.0	3071.8	3067.2	3066.3
7.5°	3325.9	3284.3	3212.3	3131.9	3023.8	2919.4	2830.7	2770.7	2710.6	2699.5	2695.8
10°	3237.2	3180.9	3058.0	2916.6	2755.0	2598.8	2463.0	2356.8	2286.6	2236.7	2227.4
12.5°	3149.5	3074.6	2894.5	2683.8	2462.1	2248.7	2044.5	1870.8	1745.2	1672.2	1659.3
15°	3067.2	2962.8	2716.2	2447.3	2159.1	1867.1	1578.0	1352.5	1176.1	1113.3	1098.5
17.5°	2992.4	2862.1	2543.4	2202.5	1843.1	1461.6	1132.7	932.2	828.7	797.3	789.9
20°	2917.6	2758.7	2367.9	1944.7	1507.7	1080.0	827.8	733.5	694.7	682.7	679.0
22.5°	2837.2	2645.0	2176.6	1690.7	1168.7	808.4	677.2	635.6	623.6	624.5	623.6
25°	2756.8	2529.5	1976.1	1414.4	870.3	655.9	591.3	575.6	578.3	586.7	588.5
27.5°	2690.3	2427.0	1779.4	1111.4	680.0	564.5	534.0	533.1	543.2	554.3	556.2
30°	2642.3	2335.5	1585.4	854.6	559.9	501.7	489.6	495.2	507.2	515.5	518.3
32.5°	2608.1	2257.0	1378.4	671.6	490.6	457.3	451.8	457.3	464.7	473.0	474.9
35°	2596.1	2199.7	1175.2	547.9	443.5	425.0	421.3	424.1	427.7	432.4	434.2
37.5°	2622.9	2171.1	962.7	476.7	414.8	403.7	398.2	396.3	397.3	399.1	400.0
40°	2702.3	2184.0	789.0	435.1	396.3	386.2	376.9	373.2	372.3	374.2	373.2
42.5°	2839.0	2238.5	663.3	411.1	381.6	366.8	356.6	352.9	352.9	357.5	357.5
45°	3039.5	2345.7	572.8	393.6	368.6	350.1	339.1	337.2	340.9	348.3	349.2
47.5°	3333.3	2502.7	518.3	380.6	356.6	335.4	324.3	323.4	330.7	342.8	343.7
50°	3681.6	2729.1	488.7	371.4	348.3	323.4	312.3	313.2	321.5	334.4	337.2
52.5°	4101.0	3037.7	490.6	367.7	343.7	316.0	304.9	303.0	311.3	324.3	327.0
55°	4534.3	3412.8	526.6	368.6	337.2	312.3	297.5	291.0	298.4	307.6	308.6
57.5°	5011.0	3835.9	616.2	366.8	328.9	308.6	291.0	276.2	280.9	286.4	289.2
60°	5548.7	4333.8	809.3	370.5	325.2	300.3	278.1	258.7	257.8	261.5	262.4
62.5°	6267.5	5011.0	1026.4	376.9	333.5	290.1	258.7	238.4	234.7	236.5	237.4
65°	6817.2	5334.4	958.0	371.4	351.1	282.7	240.2	219.0	211.6	209.7	209.7
67.5°	6593.6	4906.6	667.0	356.6	359.4	283.6	225.4	198.6	189.4	184.8	183.8
70°	*5610.6*	*3985.6*	*463.8*	*341.8*	*350.1*	*281.8*	*209.7*	*182.0*	*170.0*	*163.5*	*162.6*
72.5°	4432.7	3043.2	375.1	312.3	317.8	254.1	186.6	163.5	153.4	145.0	145.0
75°	2852.9	1857.0	313.2	278.1	259.6	197.7	161.7	146.0	135.8	127.5	127.5
77.5°	959.9	689.2	243.0	235.6	194.0	148.7	135.8	125.6	117.3	109.9	109.0
80°	389.9	327.0	178.3	178.3	135.8	113.6	106.2	101.6	96.1	86.8	86.8
82.5°	226.3	198.6	124.7	108.1	90.5	78.5	73.9	69.3	69.3	62.8	62.8
85°	109.0	109.9	74.8	66.5	51.7	45.3	43.4	40.7	39.7	36.0	35.1
87.5°	59.1	60.1	37.9	29.6	20.3	17.6	14.8	13.9	12.9	12.0	12.0
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

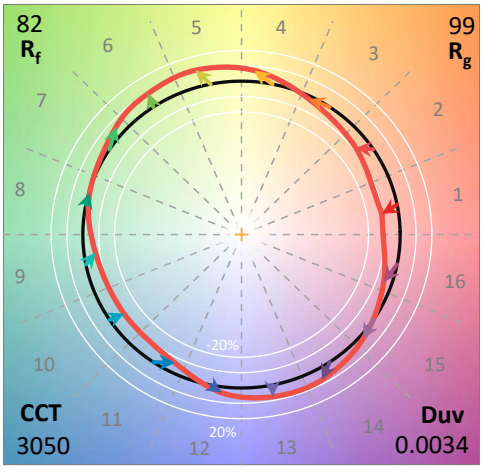
Test Information

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

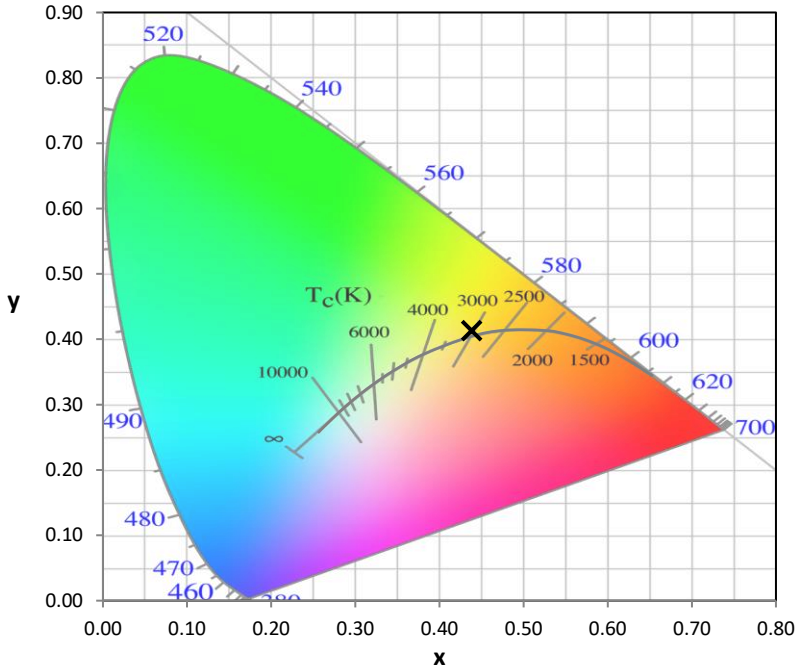
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

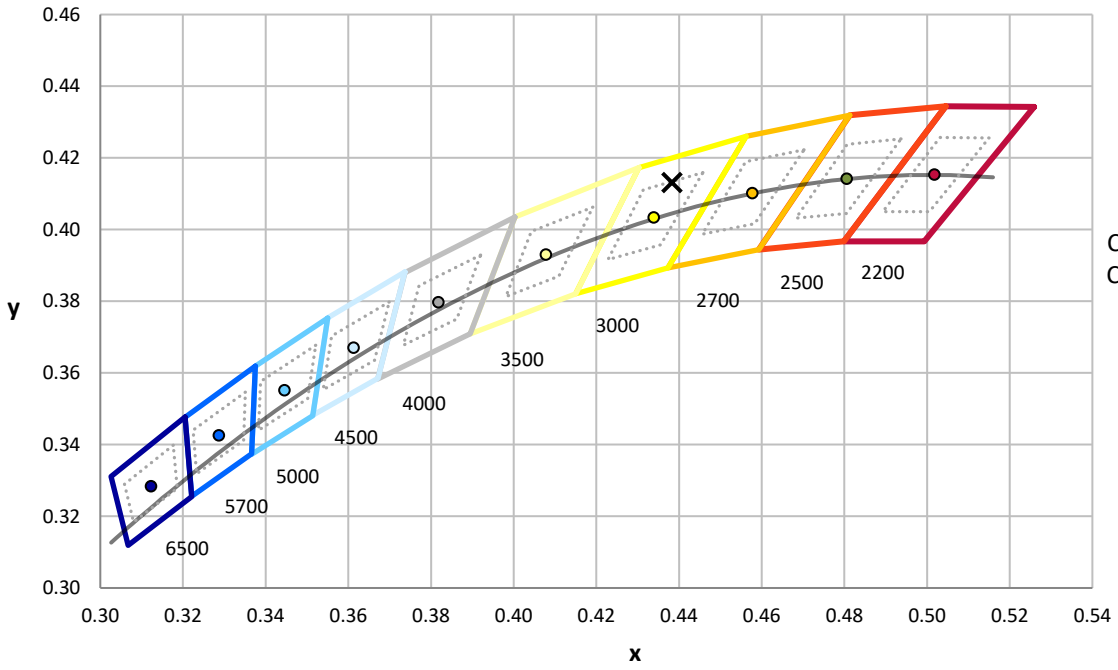
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

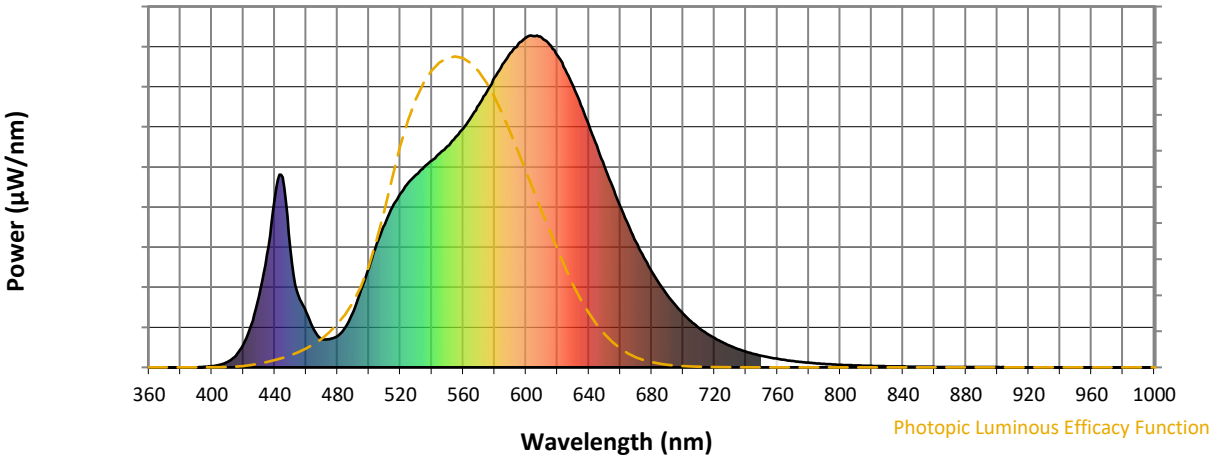


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

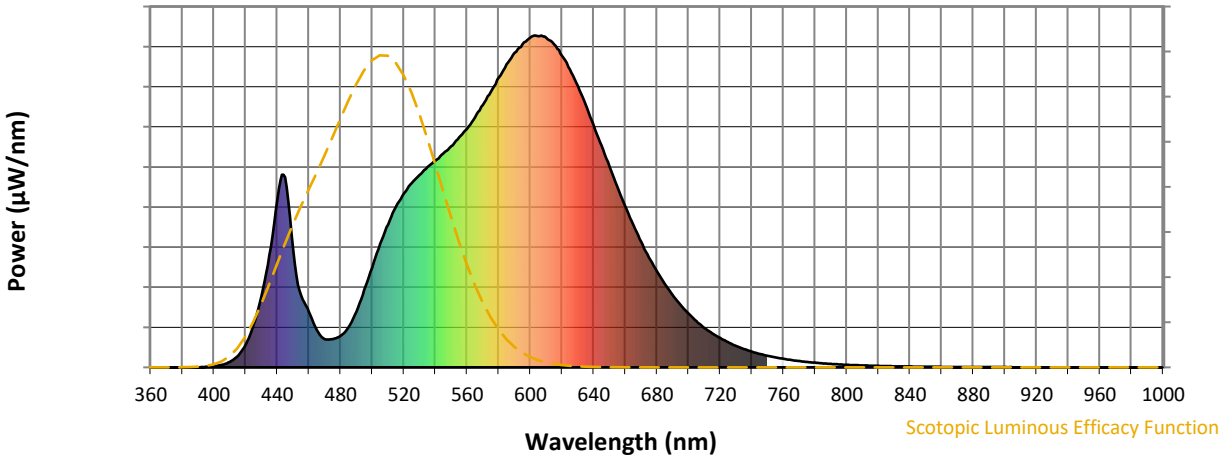


Photopic Lumens: NR

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

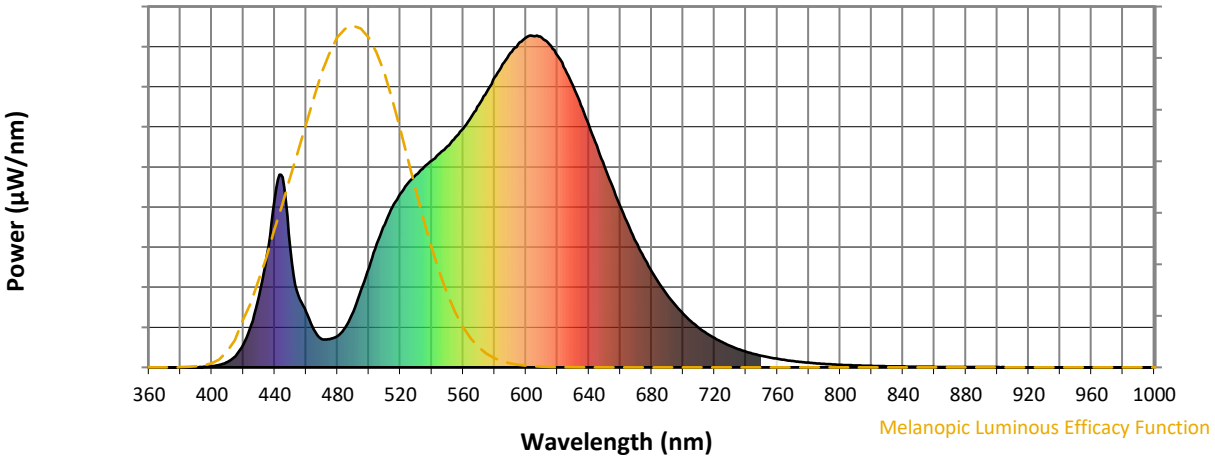


Scotopic Lumens: NR **S/P: 1.27**

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			

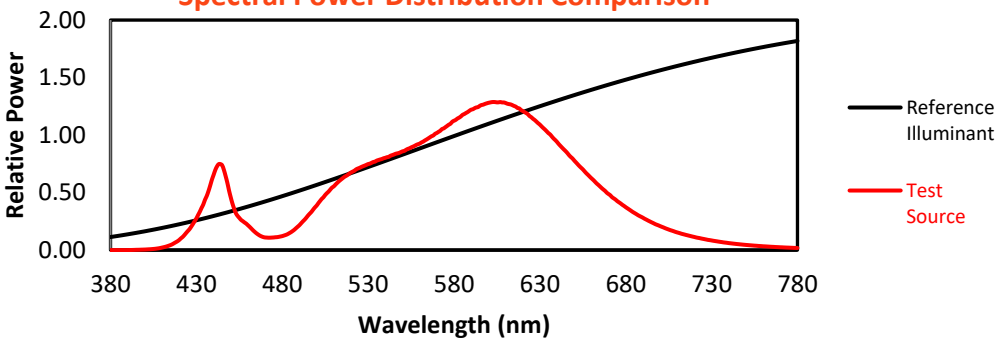
REPORT NUMBER: SP1-2408-195-9

TM-30-18

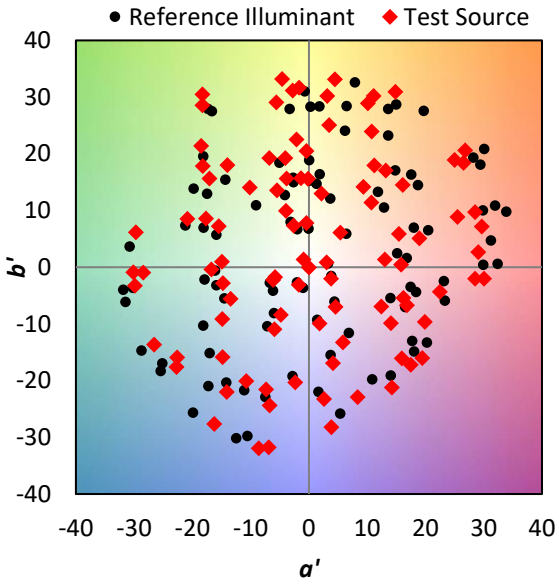
Summary

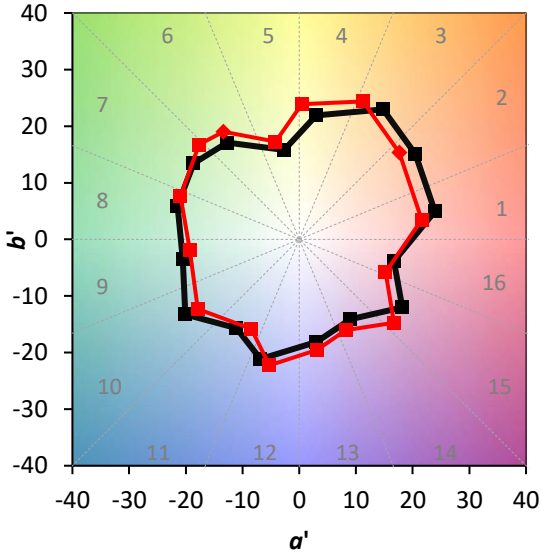
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

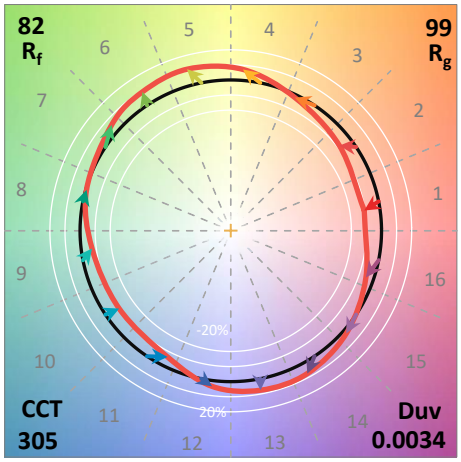
Spectral Power Distribution Comparison

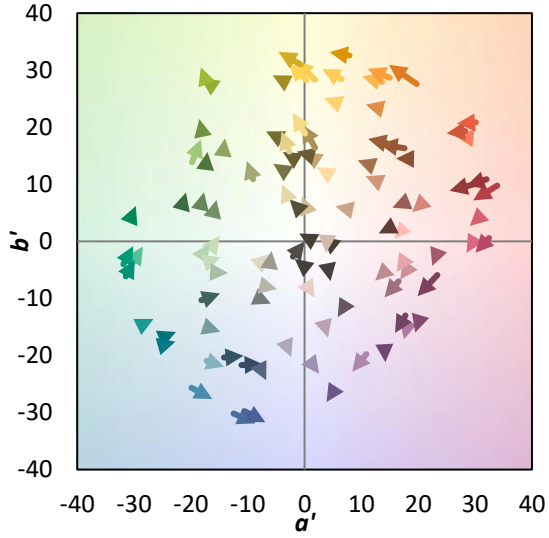


Color Vector Graphics







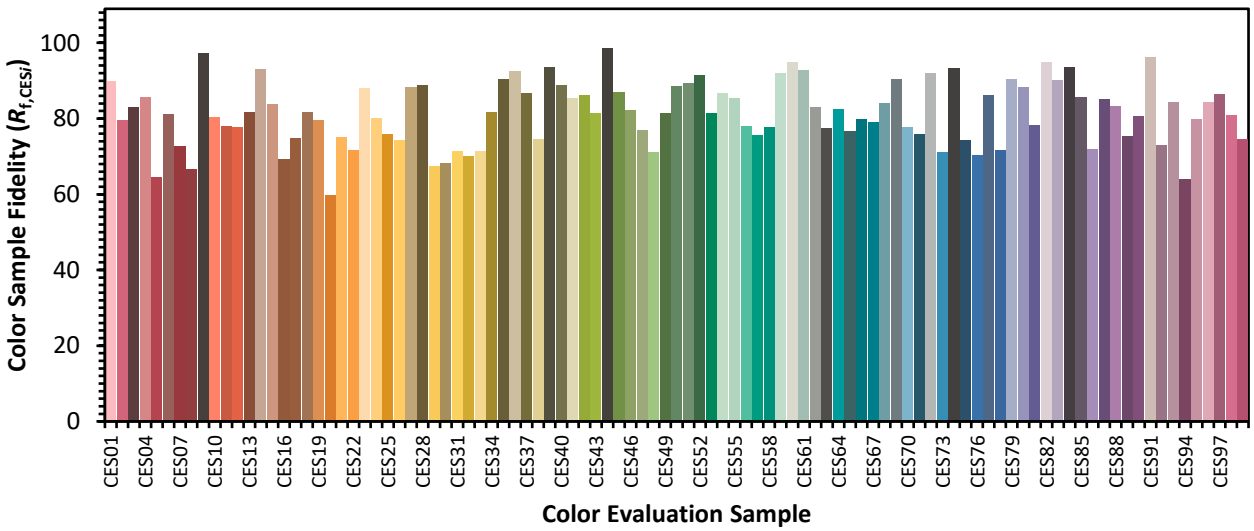


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

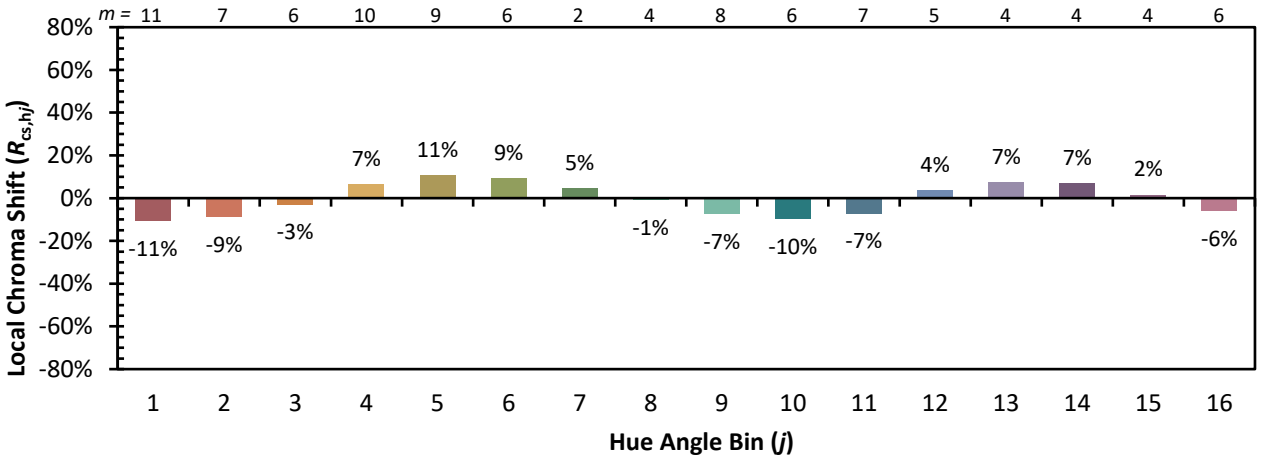
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

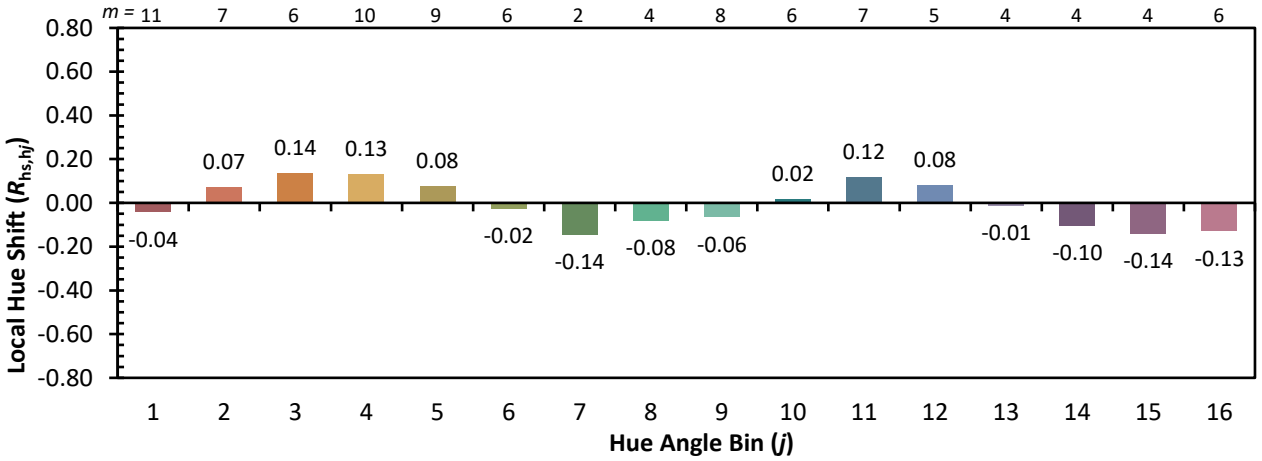


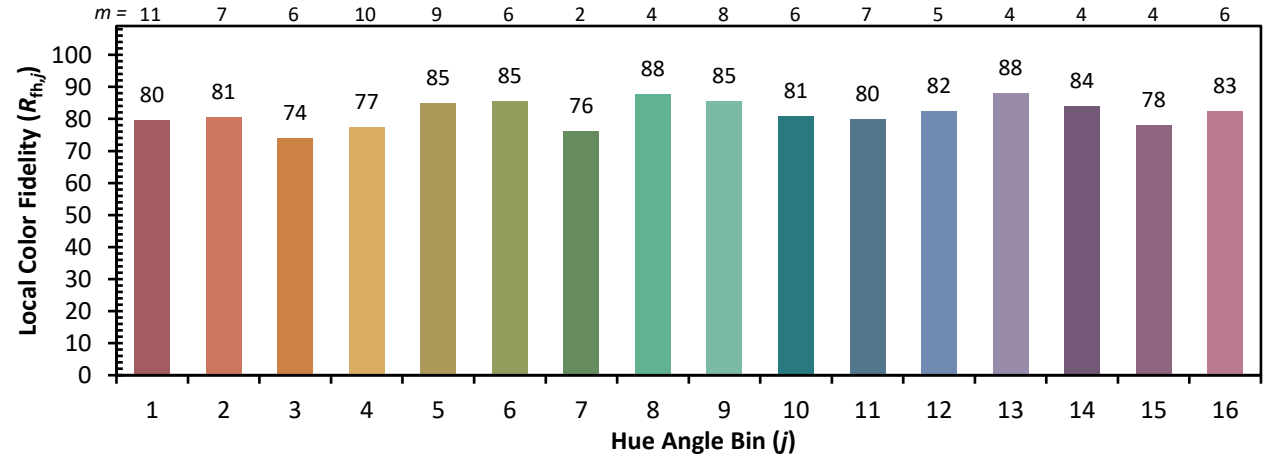
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



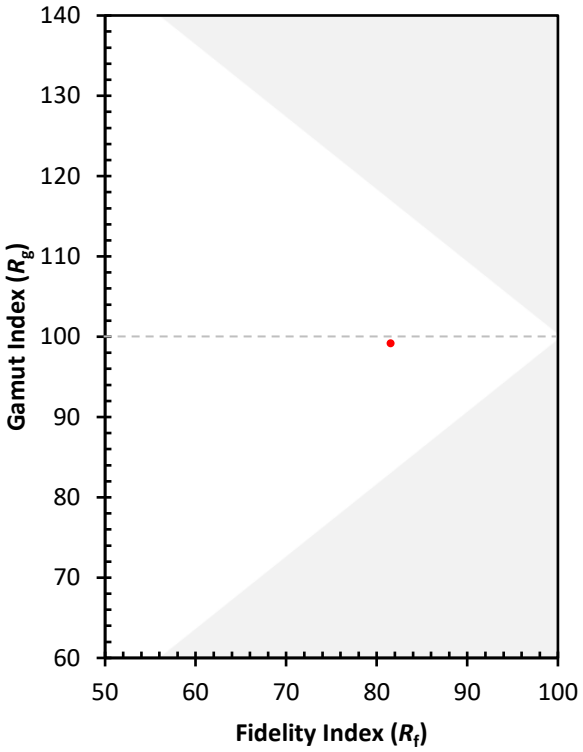


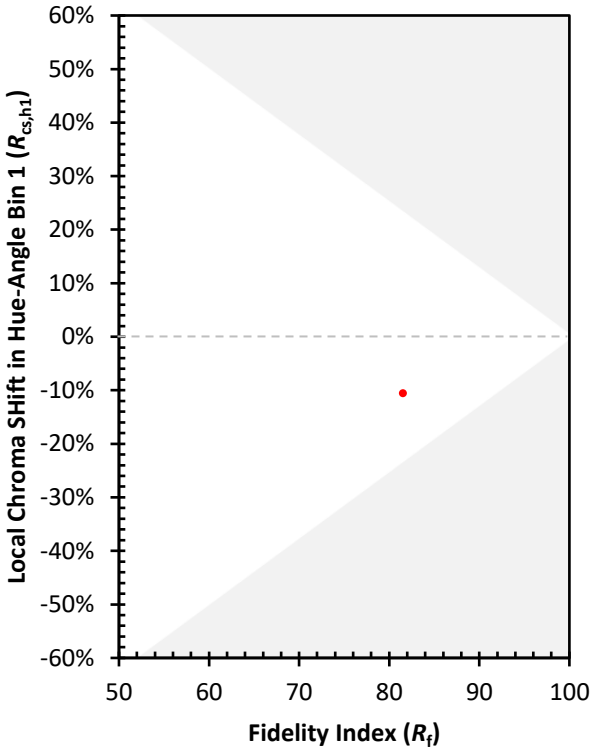


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)