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: P641937

Luminaire Tested: GWS-SA6B-830-U-SL2-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:	P641937
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16528 lumens
Efficiency:	N/A
Efficacy:	119.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

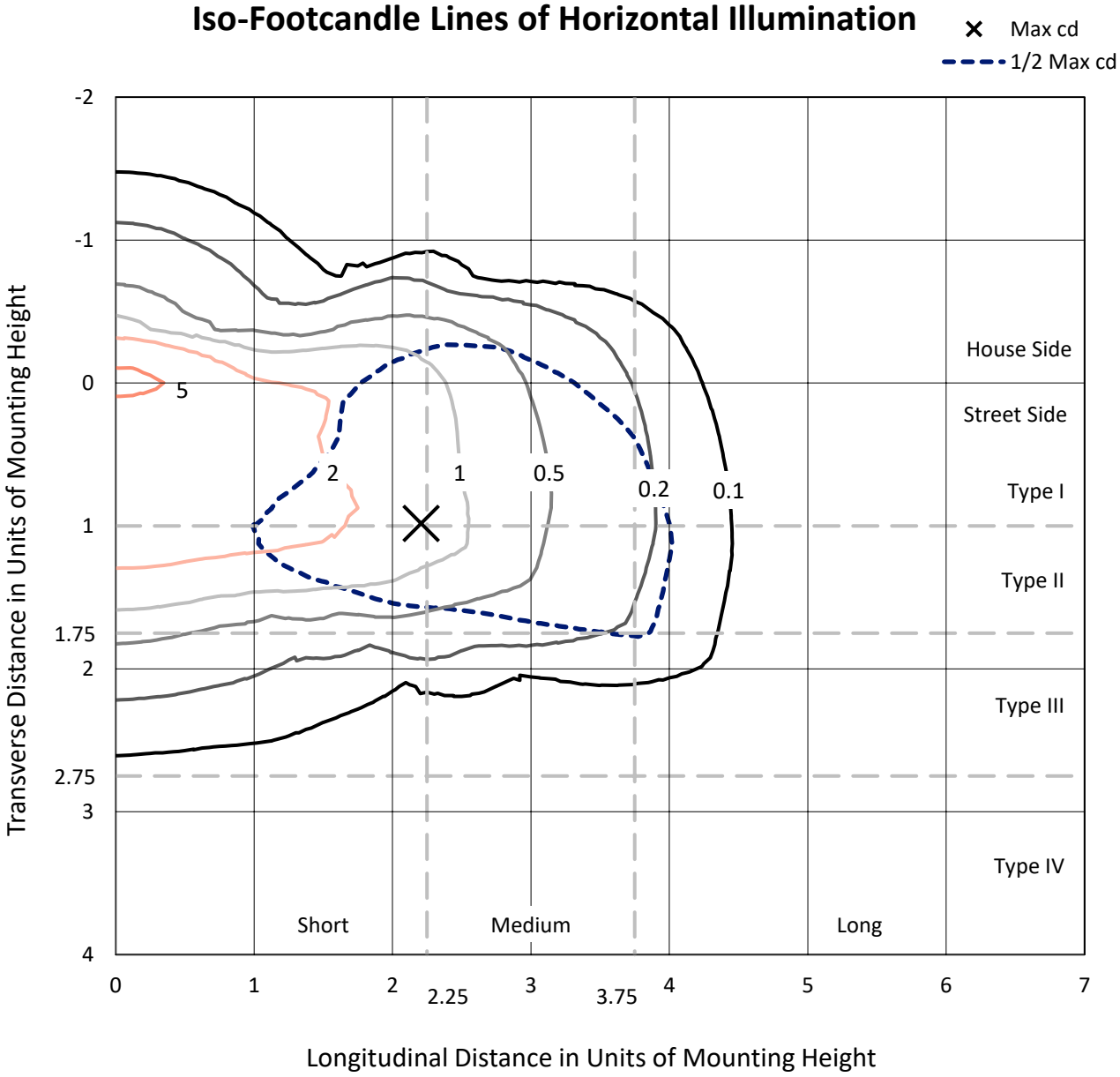
Input Watts (W):	138.9
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



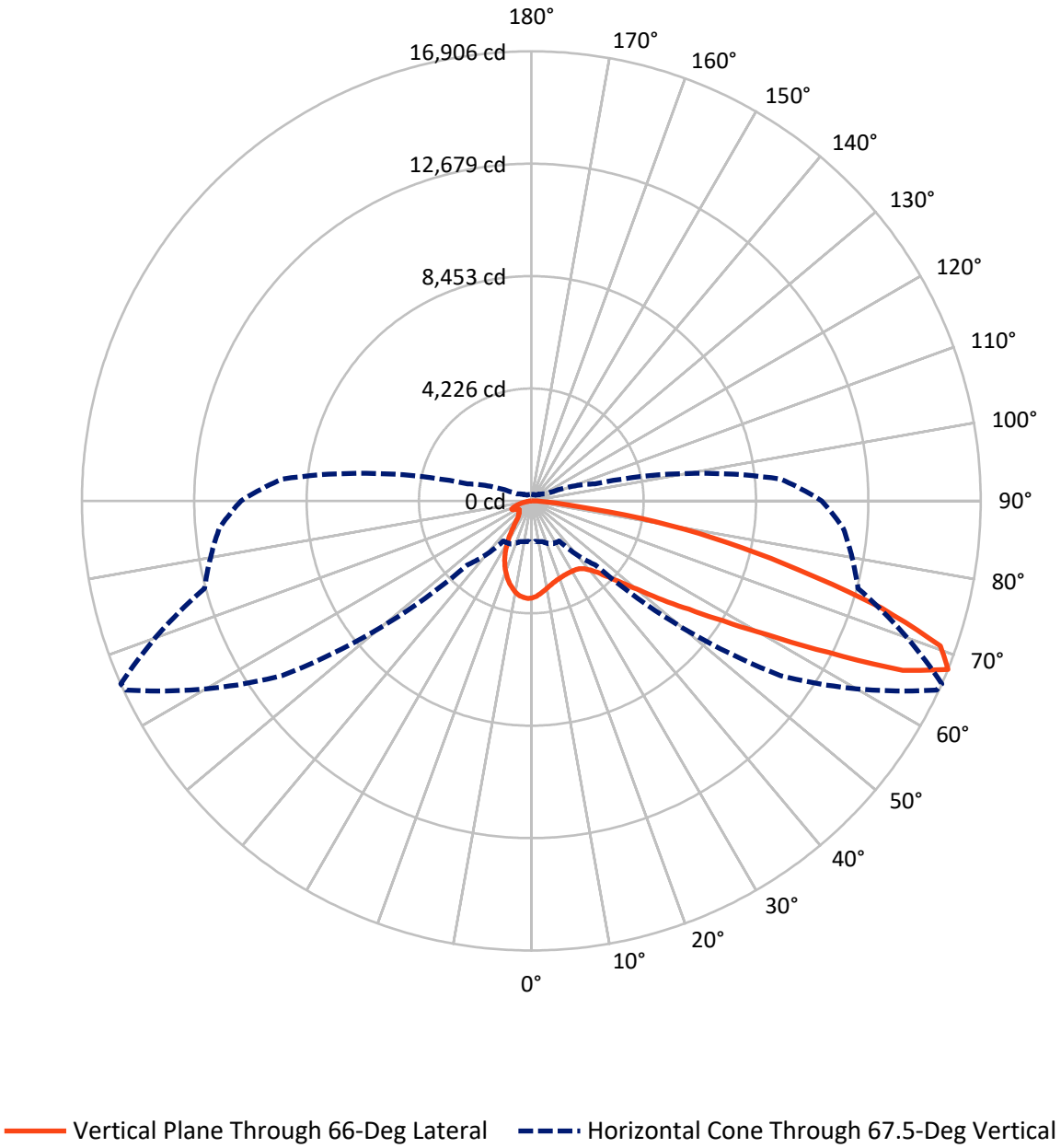
Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

Luminous Intensity Polar Plot



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

Scaled Data Report

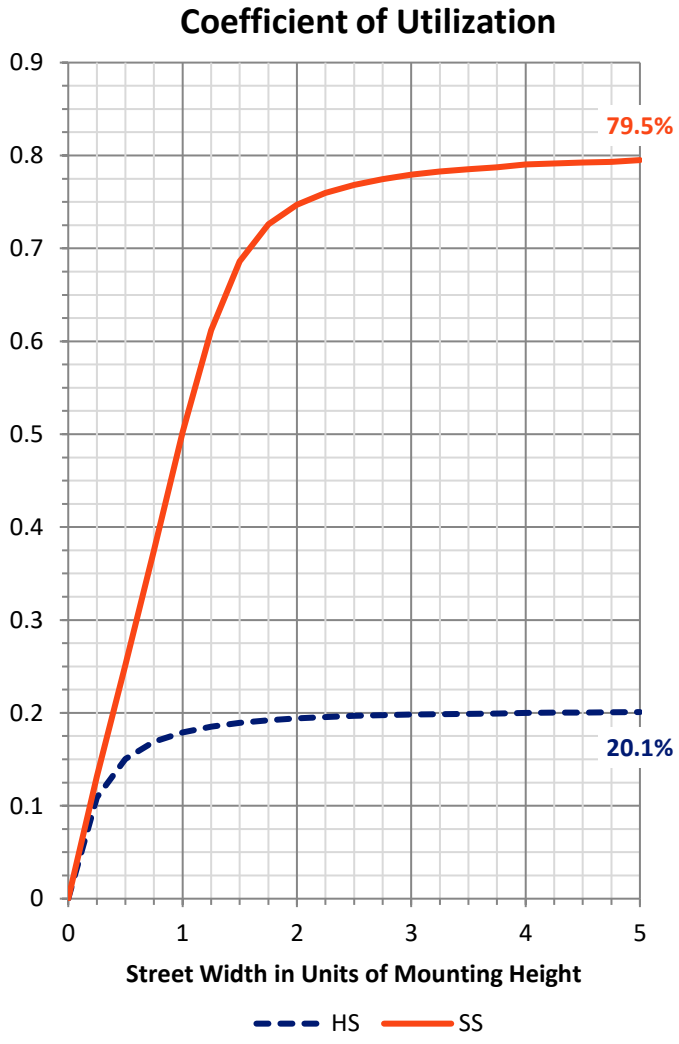
REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3353.9	0.0	3353.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13174.1	0.0	13174.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	16528.0	0.0	16528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	1.9
10°-20°	787.7	4.8
20°-30°	1082.8	6.6
30°-40°	1480.3	9.0
40°-50°	2243.1	13.6
50°-60°	3486.9	21.1
60°-70°	4245.3	25.7
70°-80°	2586.0	15.6
80°-90°	295.4	1.8
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°	16528.0	100.0
0°-180°	16528.0	100.0



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

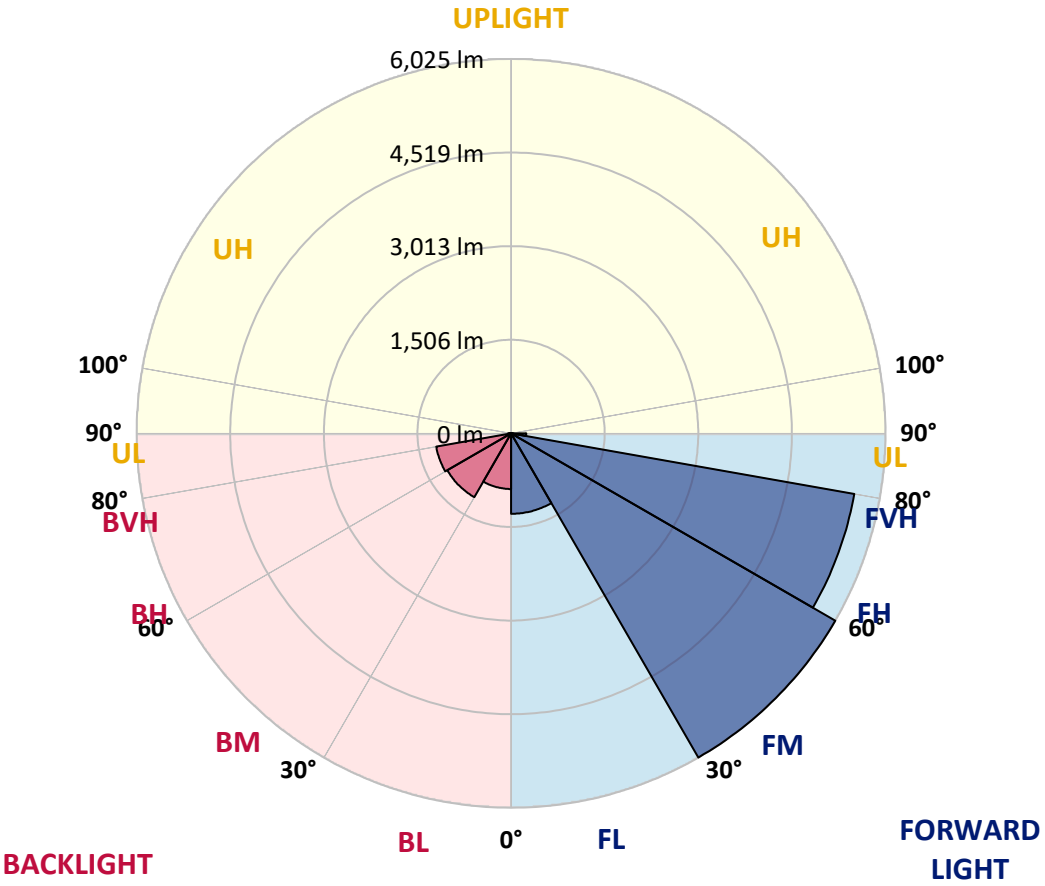
Scaled Data Report

REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1295.0	7.8			
FM	(30°-60°)	6025.1	36.5			
FH	(60°-80°)	5608.4	33.9			G3/7500
FVH	(80°-90°)	245.6	1.5			G3/500
BL	(0°-30°)	896.0	5.4	B2/1000		
BM	(30°-60°)	1185.2	7.2	B2/2500		
BH	(60°-80°)	1222.9	7.4	B3/2500		G3/2500
BVH	(80°-90°)	49.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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

Scaled Data Report

REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	*3652.2*	3652.2	3652.2
2.5°	3420.7	3432.8	3425.5	3471.4	3473.8	3531.6	3564.2	3591.9	*3594.3*	3630.5	3654.6
5°	3186.8	3194.0	3194.0	3237.4	3266.4	3343.5	3418.3	3497.9	*3503.9*	3590.7	3657.0
7.5°	2997.5	3004.7	2999.9	3057.8	3095.2	3180.8	3276.0	3397.8	*3409.9*	3549.7	3665.5
10°	2849.2	2846.8	2858.8	2911.9	2960.1	3062.6	3168.7	3307.4	*3325.5*	3502.7	3675.1
12.5°	2747.9	2750.3	2757.6	2813.0	2864.9	2966.1	3075.9	3226.6	*3245.9*	3448.4	3670.3
15°	2699.7	2694.9	2700.9	2751.5	2801.0	2890.2	3003.5	3159.1	*3178.4*	3400.2	3671.5
17.5°	2688.8	2685.2	2684.0	2720.2	2757.6	2840.7	2949.3	3107.2	*3127.7*	3368.9	3678.7
20°	2722.6	2717.8	2704.5	2720.2	2735.8	2805.8	2910.7	3069.8	*3092.8*	3348.4	3693.2
22.5°	2815.4	2807.0	2786.5	2767.2	2746.7	2788.9	2886.6	3042.1	*3065.0*	3335.1	3707.7
25°	2956.5	2949.3	2927.6	2884.2	2809.4	2802.2	2881.7	3030.1	*3053.0*	3325.5	3713.7
27.5°	3150.6	3139.8	3118.1	3055.4	2933.6	2851.6	2899.8	3028.8	*3050.5*	3314.6	3707.7
30°	3380.9	3373.7	3361.6	3285.7	3122.9	2956.5	2940.8	3038.5	*3055.4*	3308.6	3695.6
32.5°	3614.8	3607.6	3617.3	3581.1	3380.9	3130.1	3030.1	3065.0	*3077.1*	3307.4	3684.8
35°	3821.0	3829.5	3899.4	3905.4	3708.9	3365.3	3171.1	3126.5	*3128.9*	3331.5	3689.6
37.5°	4036.9	4069.4	4161.0	4239.4	4075.4	3676.3	3380.9	3242.3	*3239.9*	3393.0	3719.7
40°	4322.6	4337.1	4454.0	4601.1	4498.7	4103.2	3678.7	3431.6	*3414.7*	3518.4	3800.5
42.5°	4601.1	4636.1	4823.0	4991.8	4958.0	4584.3	4053.7	3714.9	*3684.8*	3740.2	3966.9
45°	4955.6	4989.4	5199.2	5416.2	5477.7	5128.1	4533.6	4117.6	*4087.5*	4074.2	4272.0
47.5°	5310.1	5345.1	5533.2	5846.7	6062.5	5808.1	5158.2	4649.4	*4599.9*	4548.1	4732.6
50°	5548.9	5589.9	5769.5	6145.7	6652.1	6656.9	5898.5	5346.3	*5283.6*	5201.6	5381.3
52.5°	5540.4	5567.0	5738.2	6172.2	7076.6	7632.4	6889.7	6233.7	*6183.1*	6004.6	6161.4
55°	5105.1	5144.9	5317.4	5859.9	7122.4	8557.2	8346.2	7280.3	*7189.9*	6870.4	7042.8
57.5°	4231.0	4264.7	4438.4	5107.6	6716.0	9031.1	10195.8	8613.9	*8489.7*	7813.3	8012.2
60°	3194.0	3153.0	3235.0	3821.0	5744.2	9043.1	11828.4	10422.5	*10215.1*	8821.3	8987.7
62.5°	2397.0	2356.0	2374.1	2539.3	3894.6	8312.4	12759.3	12896.7	*12554.3*	9959.5	9926.9
65°	1894.2	1871.3	1923.2	2036.5	2270.4	6330.2	12766.5	15572.3	*15356.4*	11278.6	10890.3
67.5°	*1543.4*	*1528.9*	*1581.9*	*1791.7*	*1841.2*	*3401.4*	*11447.4*	*16821.4*	*16905.8*	*12723.1*	*11783.8*
70°	1243.1	1221.4	1304.6	1580.7	1712.2	2058.2	8200.3	16184.8	*16321.0*	13584.0	11531.8
72.5°	858.5	859.7	901.9	1280.5	1653.1	1777.3	4638.5	13476.7	*13772.1*	12803.9	10138.0
75°	578.8	583.6	595.6	845.2	1522.9	1724.2	2471.8	10203.1	*10411.7*	10582.9	8380.0
77.5°	349.7	352.1	379.8	511.2	1050.2	1609.7	1674.8	7396.1	*7560.1*	6976.5	5194.4
80°	202.6	211.0	236.3	342.4	709.0	1209.4	1296.2	4534.8	*4720.5*	3101.2	1650.7
82.5°	89.2	95.3	129.0	198.9	413.6	1028.5	1011.6	1791.7	*1765.2*	864.5	572.7
85°	15.7	19.3	27.7	62.7	151.9	542.6	784.9	791.0	*743.9*	328.0	237.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	118.2	212.2	*211.0*	92.8	82.0
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

Scaled Data Report

REPORT NUMBER: P641937
CATALOG NUMBER: GWS-SA6B-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2
2.5°	3670.3	3637.7	3666.7	3670.3	3664.3	3659.5	3623.3	3591.9	3588.3	3554.6	3554.6
5°	3683.6	3653.4	3667.9	3640.2	3596.8	3552.1	3475.0	3421.9	3397.8	3354.4	3354.4
7.5°	3701.7	3670.3	3653.4	3584.7	3483.4	3385.7	3261.6	3157.9	3115.7	3054.2	3051.8
10°	3718.5	3678.7	3620.9	3487.0	3325.5	3169.9	2989.1	2842.0	2741.9	2668.3	2668.3
12.5°	3717.3	3665.5	3550.9	3353.2	3130.1	2904.7	2663.5	2441.6	2309.0	2194.5	2187.2
15°	3714.9	3643.8	3461.7	3197.7	2902.2	2590.0	2262.0	1972.6	1776.1	1663.9	1654.3
17.5°	3712.5	3616.0	3361.6	3020.4	2624.9	2199.3	1766.4	1452.9	1288.9	1220.2	1222.6
20°	3712.5	3584.7	3254.3	2816.6	2305.4	1731.5	1296.2	1068.3	1027.3	1030.9	1034.5
22.5°	3701.7	3546.1	3135.0	2594.8	1949.7	1273.3	956.2	879.0	900.7	934.5	939.3
25°	3676.3	3482.2	2996.3	2348.8	1526.5	927.2	780.1	765.7	805.4	847.6	859.7
27.5°	3636.5	3408.7	2840.7	2060.6	1123.8	745.2	686.1	684.9	716.2	747.6	758.4
30°	3594.3	3326.7	2676.8	1739.9	813.9	648.7	625.8	625.8	641.5	660.8	658.3
32.5°	3544.9	3243.5	2500.7	1405.9	663.2	594.4	587.2	583.6	586.0	593.2	593.2
35°	3502.7	3169.9	2319.9	1052.6	594.4	564.3	557.1	548.6	545.0	540.2	542.6
37.5°	3487.0	3112.0	2133.0	793.4	560.7	542.6	530.5	518.5	510.0	507.6	506.4
40°	3512.4	3087.9	1946.1	653.5	536.6	519.7	506.4	490.7	483.5	483.5	483.5
42.5°	3611.2	3106.0	1755.6	590.8	519.7	500.4	481.1	466.6	464.2	466.6	467.8
45°	3792.1	3175.9	1557.8	559.5	505.2	481.1	458.2	447.3	447.3	449.7	449.7
47.5°	4115.2	3359.2	1362.5	540.2	490.7	465.4	441.3	430.5	429.2	431.7	431.7
50°	4674.7	3689.6	1186.5	526.9	479.9	453.4	429.2	414.8	411.2	410.0	410.0
52.5°	5380.1	4262.3	1074.3	517.3	466.6	440.1	416.0	396.7	389.5	385.8	385.8
55°	6232.5	5025.6	1074.3	510.0	449.7	424.4	396.7	377.4	366.5	361.7	361.7
57.5°	7198.3	5914.2	1260.0	504.0	436.5	406.3	376.2	356.9	344.8	337.6	337.6
60°	8181.0	6853.5	1719.4	495.6	424.4	383.4	353.3	335.2	319.5	311.1	309.9
62.5°	9199.9	7888.0	2324.7	500.4	416.0	361.7	329.2	308.7	295.4	287.0	285.8
65°	10133.1	8873.1	2854.0	537.8	417.2	342.4	301.4	283.4	272.5	261.6	260.4
67.5°	*10925.3*	*9416.9*	*2482.6*	*613.7*	*442.5*	*319.5*	*273.7*	*255.6*	*246.0*	*238.7*	*237.5*
70°	10370.7	8587.4	1408.3	660.8	477.5	295.4	242.4	230.3	220.7	215.8	214.6
72.5°	8868.3	7270.7	941.7	583.6	435.3	264.1	213.4	203.8	196.5	190.5	189.3
75°	7183.9	5765.9	719.8	478.7	338.8	214.6	183.3	176.0	168.8	162.8	161.6
77.5°	4250.3	3331.5	530.5	378.6	238.7	167.6	151.9	145.9	138.7	133.8	132.6
80°	1356.5	1157.5	336.4	260.4	158.0	129.0	117.0	112.1	104.9	98.9	97.7
82.5°	517.3	447.3	178.5	132.6	104.9	88.0	78.4	73.6	68.7	62.7	61.5
85°	229.1	214.6	98.9	71.1	56.7	43.4	38.6	36.2	30.1	25.3	24.1
87.5°	80.8	80.8	42.2	20.5	12.1	6.0	3.6	1.2	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

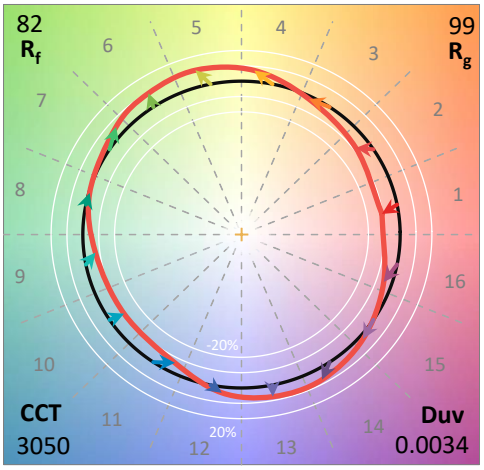
Test Information

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

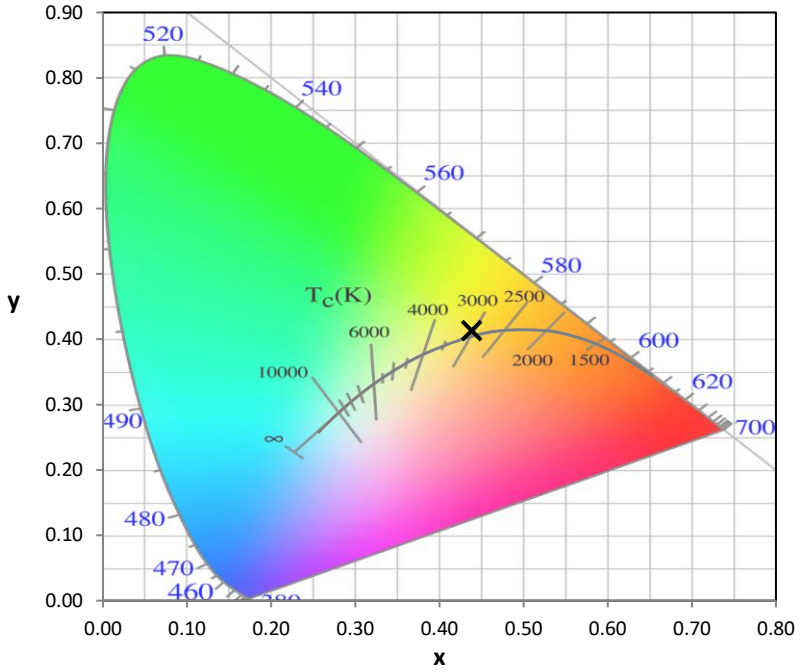
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

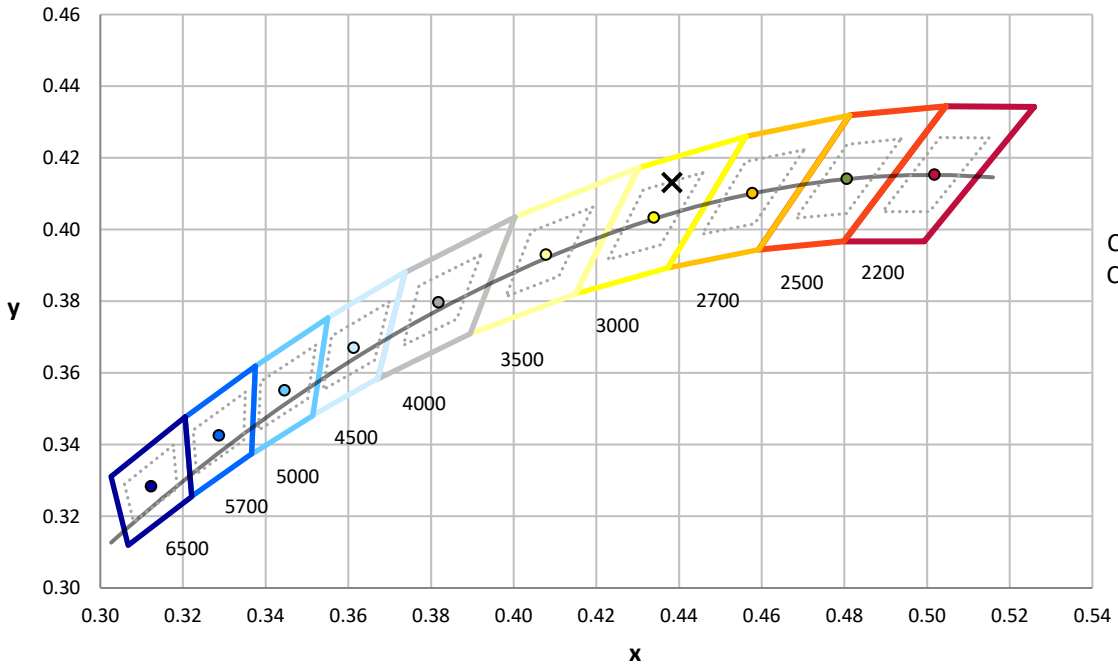
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

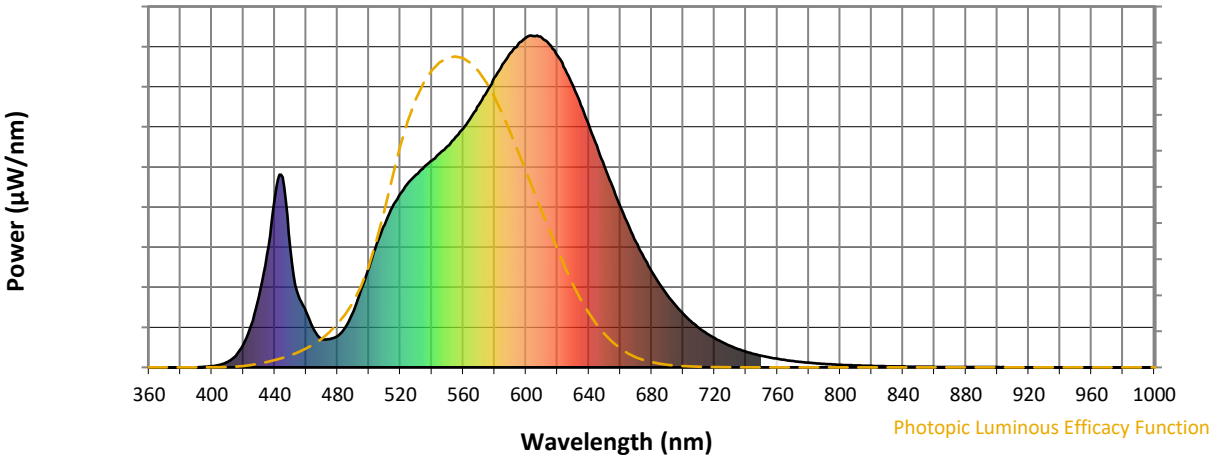


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

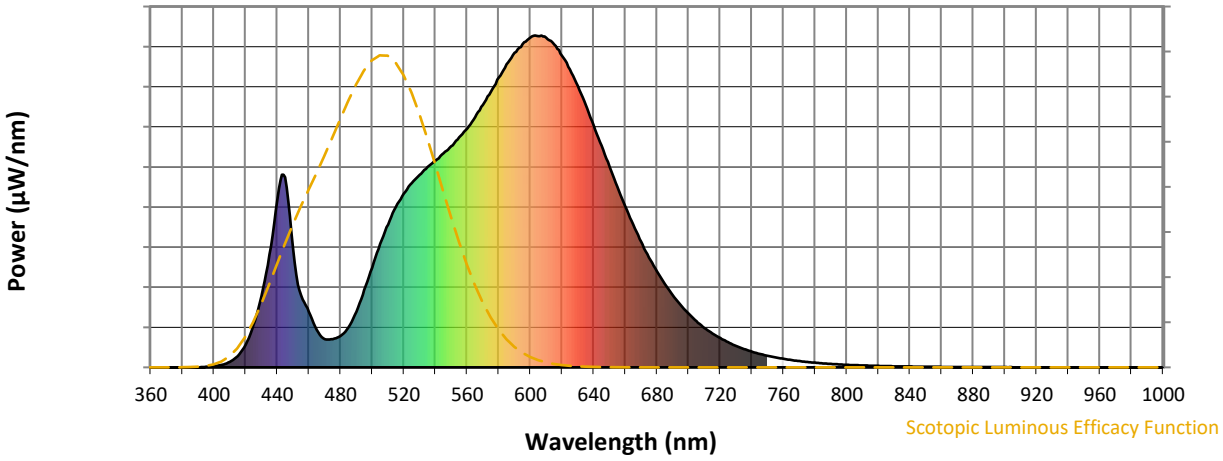


Photopic Lumens: NR

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

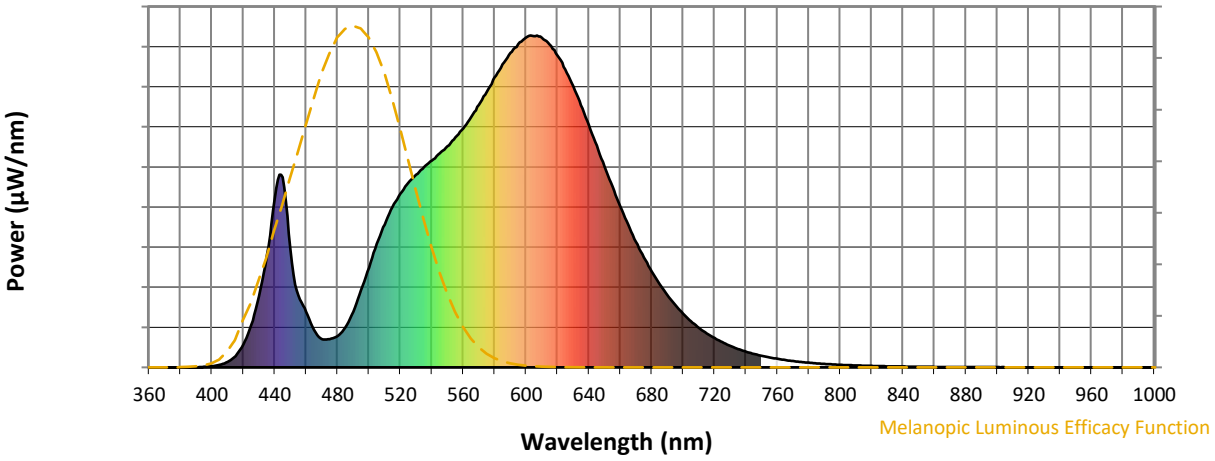


Scotopic Lumens: NR **S/P: 1.27**

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			

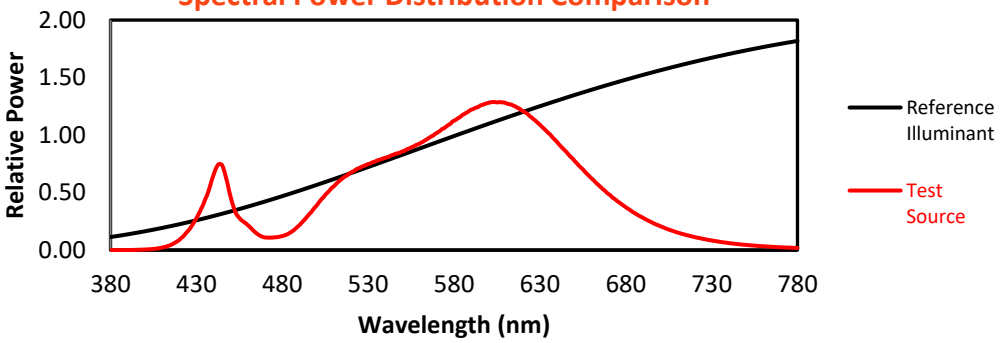
REPORT NUMBER: SP1-2408-195-9

TM-30-18

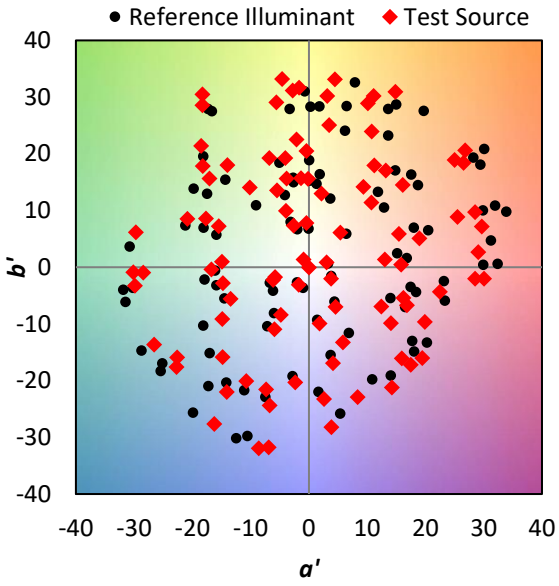
Summary

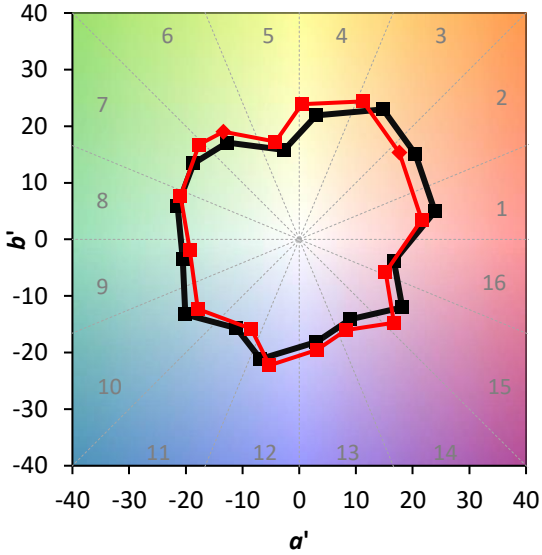
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

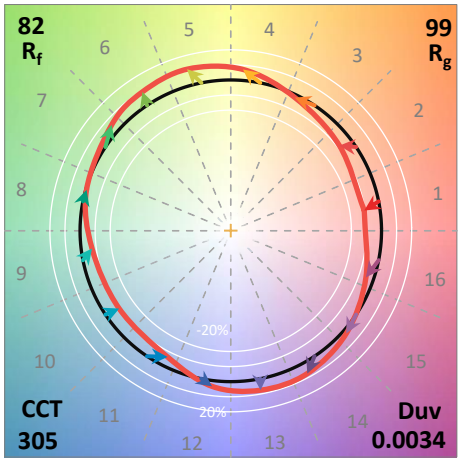
Spectral Power Distribution Comparison

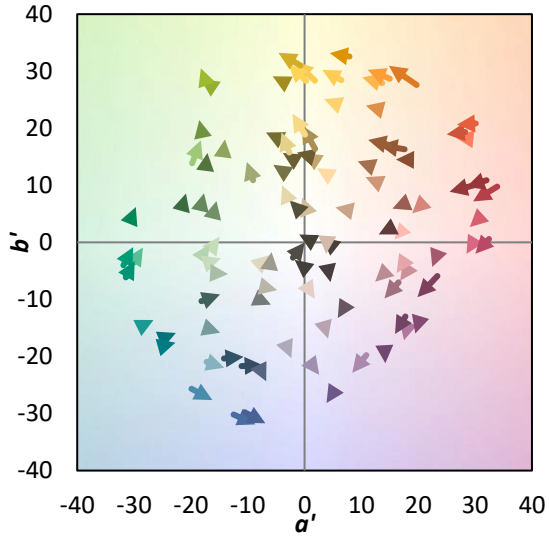


Color Vector Graphics







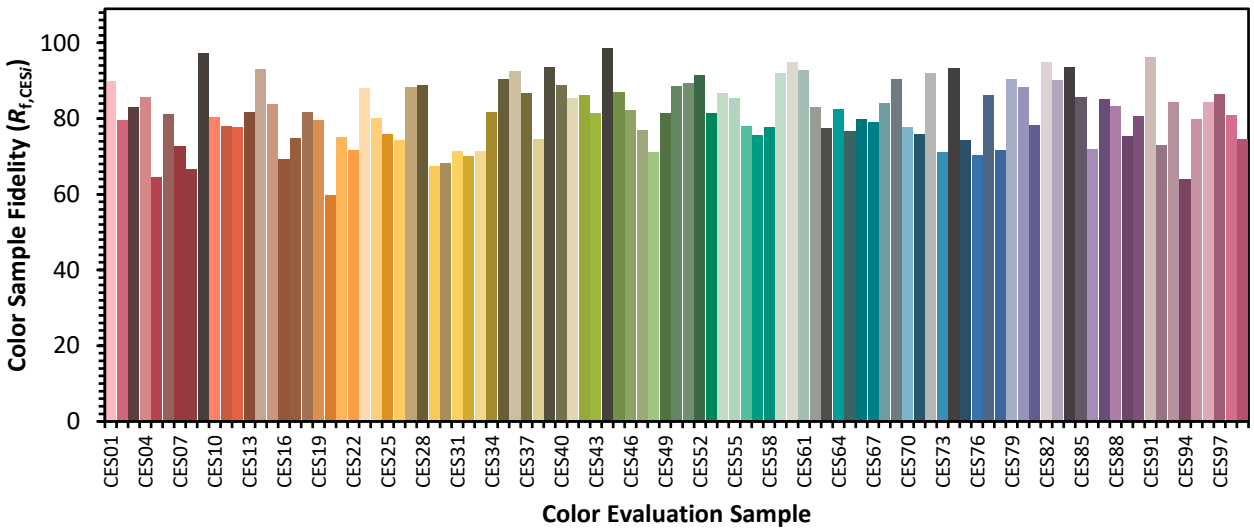


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

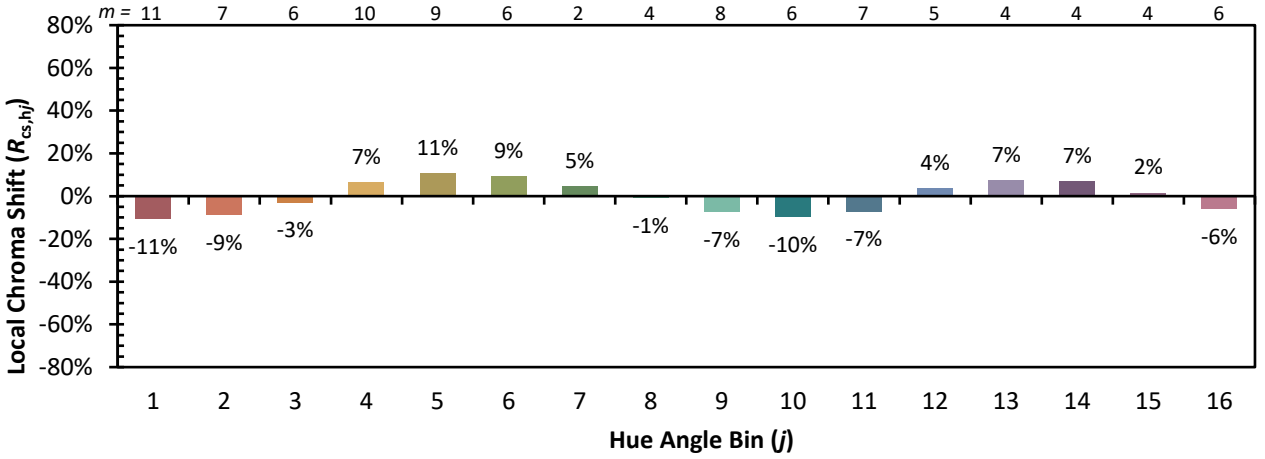
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

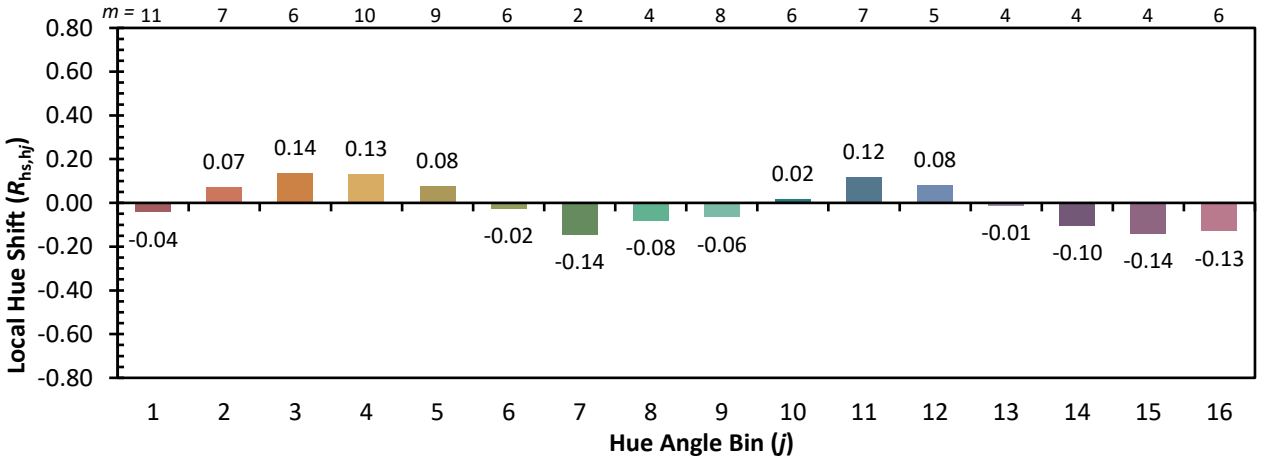


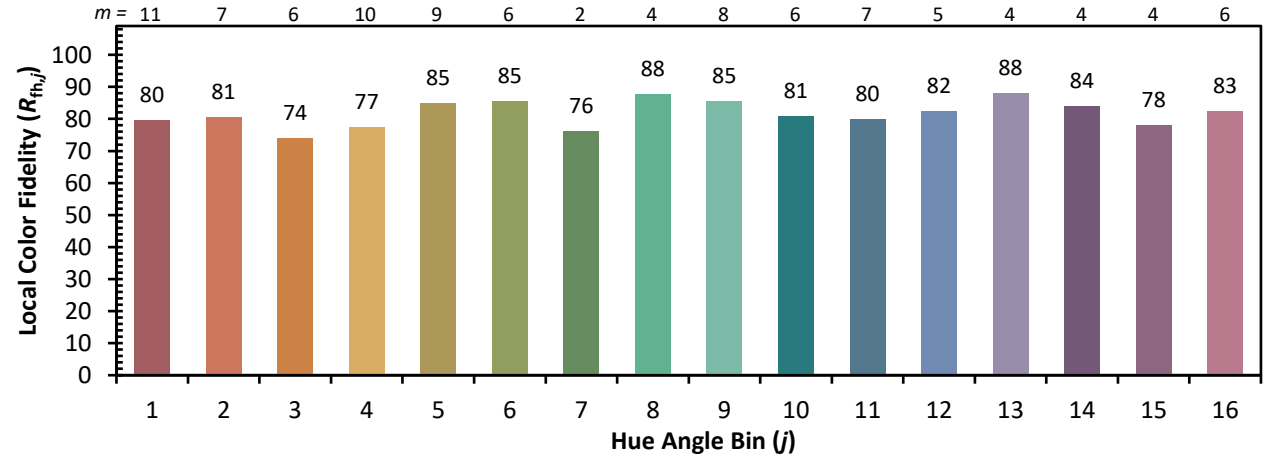
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



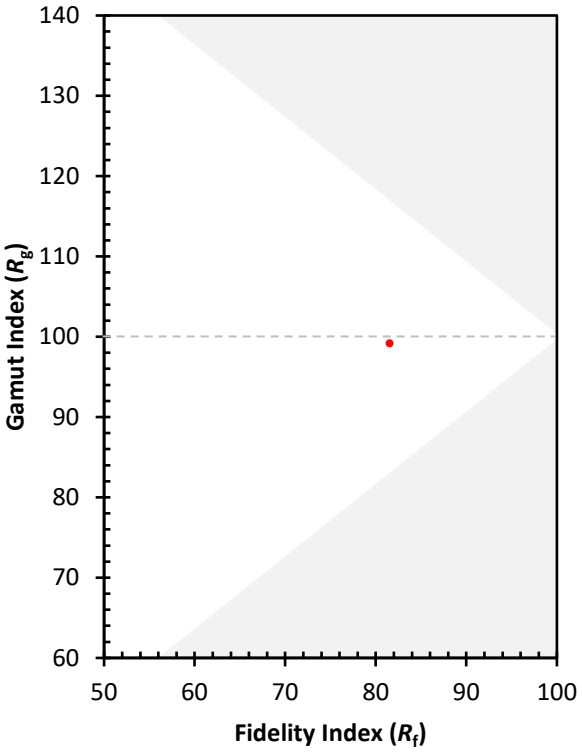


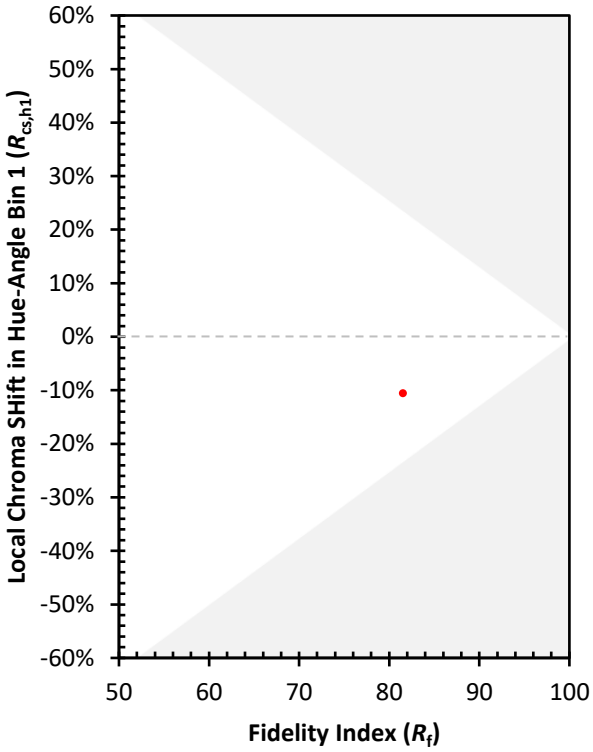


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)