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: P642945

Luminaire Tested: GWS-SA6D-830-U-T2-W-HSS

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:	P642945
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21315.5 lumens
Efficiency:	N/A
Efficacy:	86.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G3

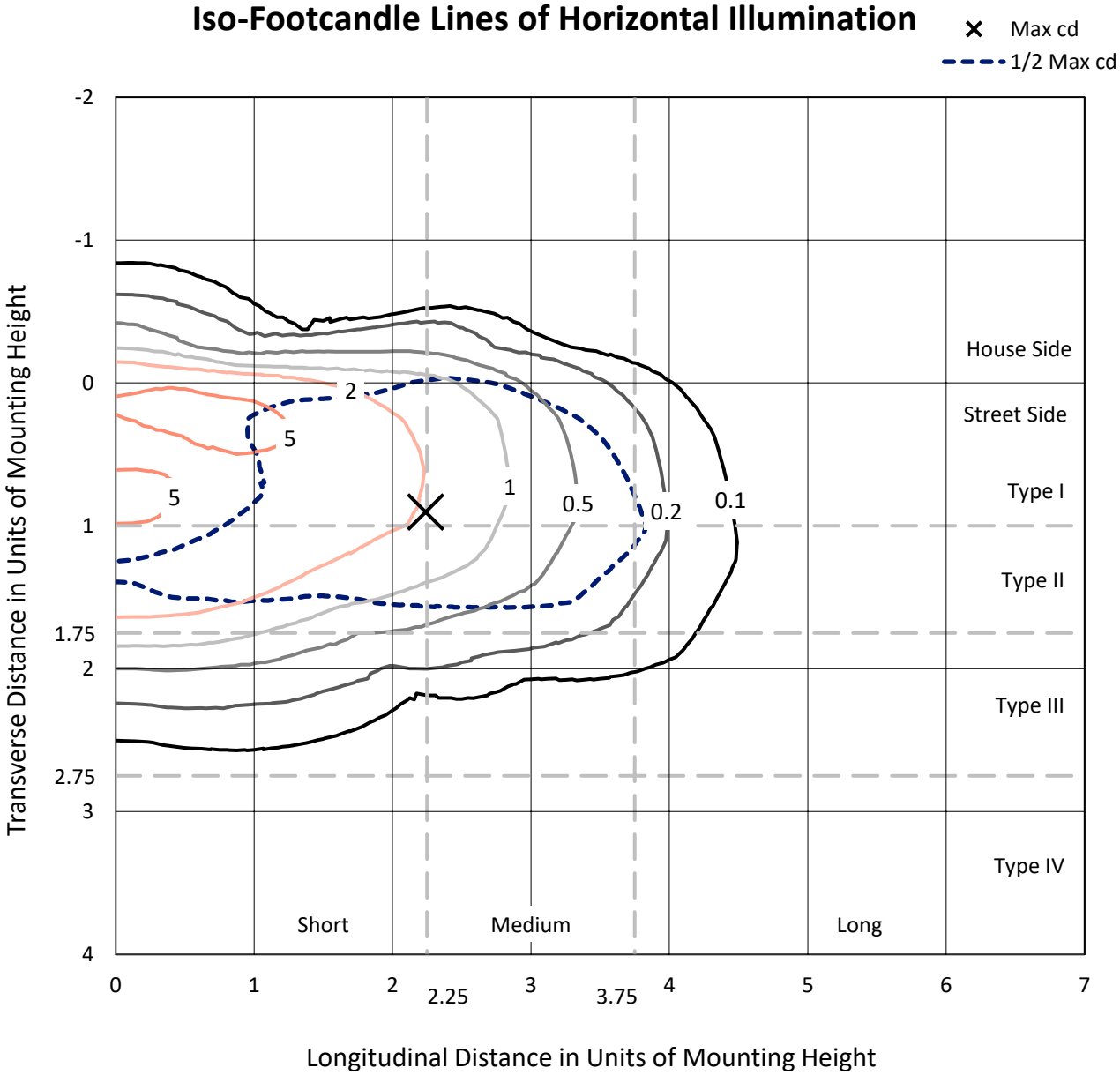
Input Watts (W):	245.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



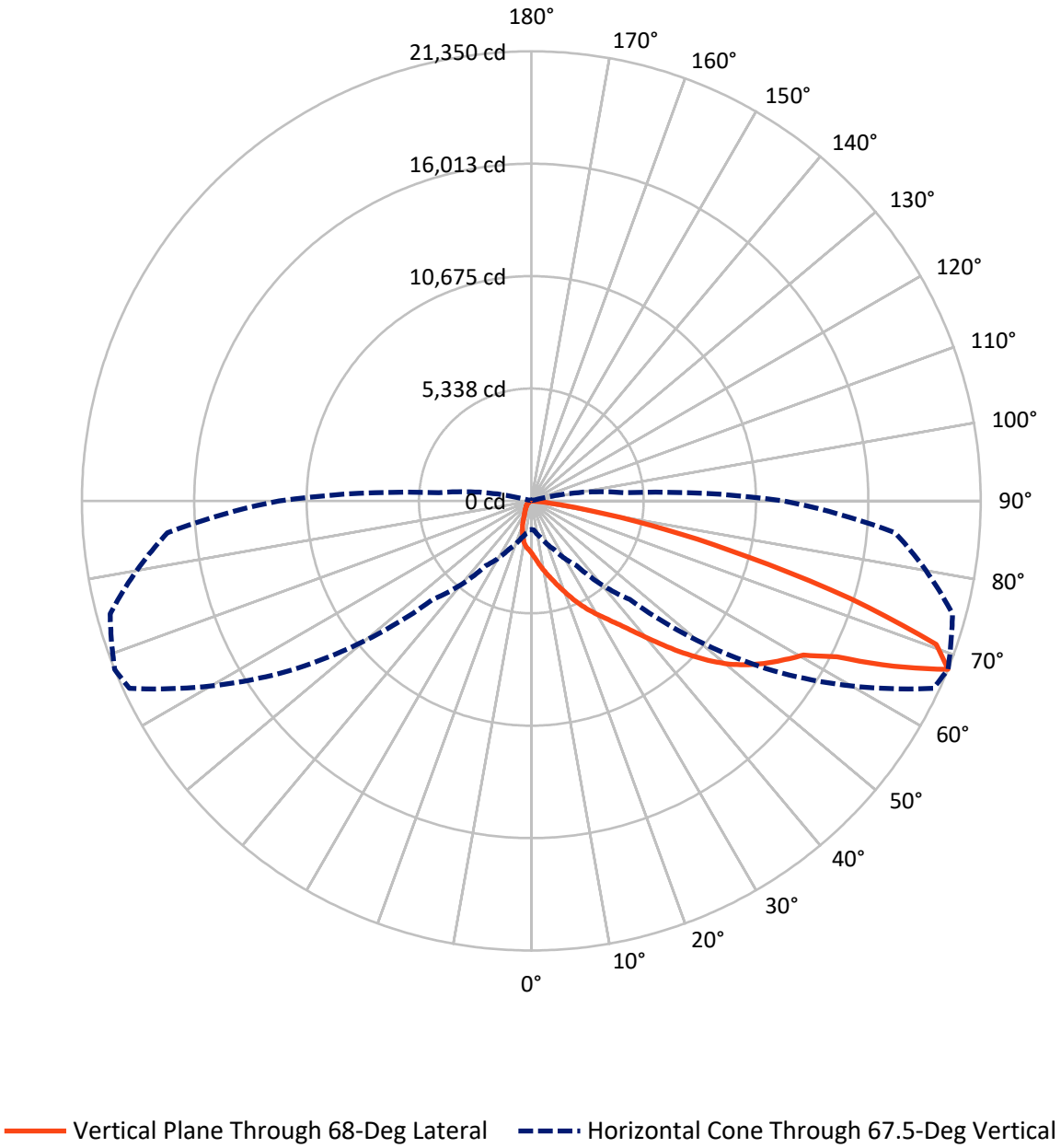
Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

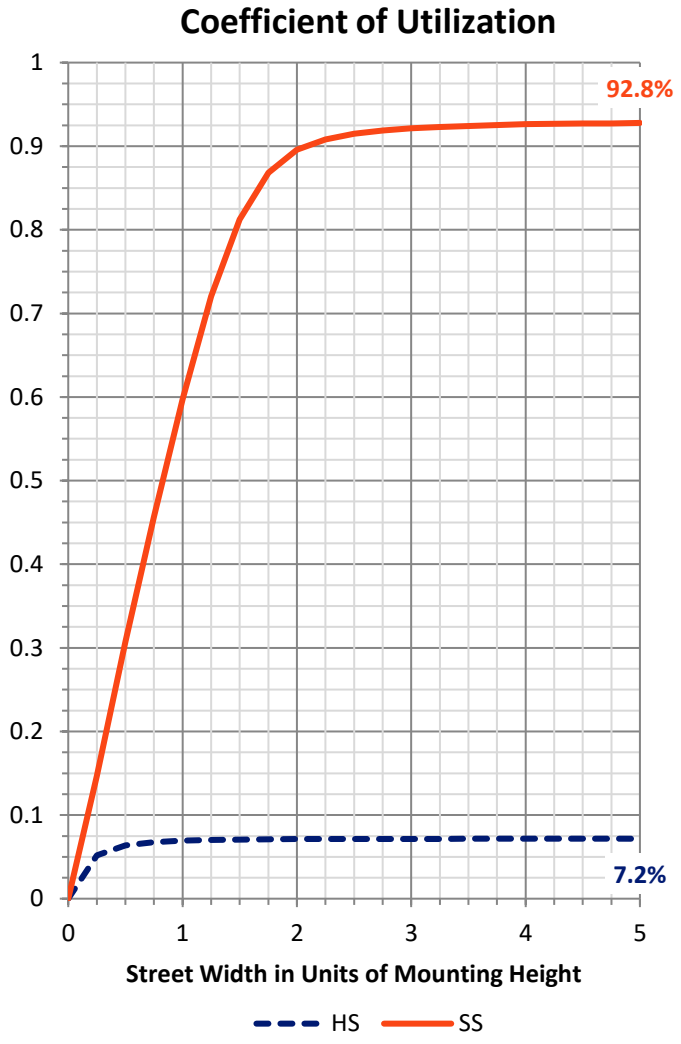
REPORT NUMBER: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.2	0.0	1539.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19776.3	0.0	19776.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	21315.5	0.0	21315.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.1
10°-20°	694.8	3.3
20°-30°	1193.9	5.6
30°-40°	2075.8	9.7
40°-50°	3622.1	17.0
50°-60°	5463.0	25.6
60°-70°	5478.0	25.7
70°-80°	2416.9	11.3
80°-90°	129.1	0.6
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°	21315.5	100.0
0°-180°	21315.5	100.0



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

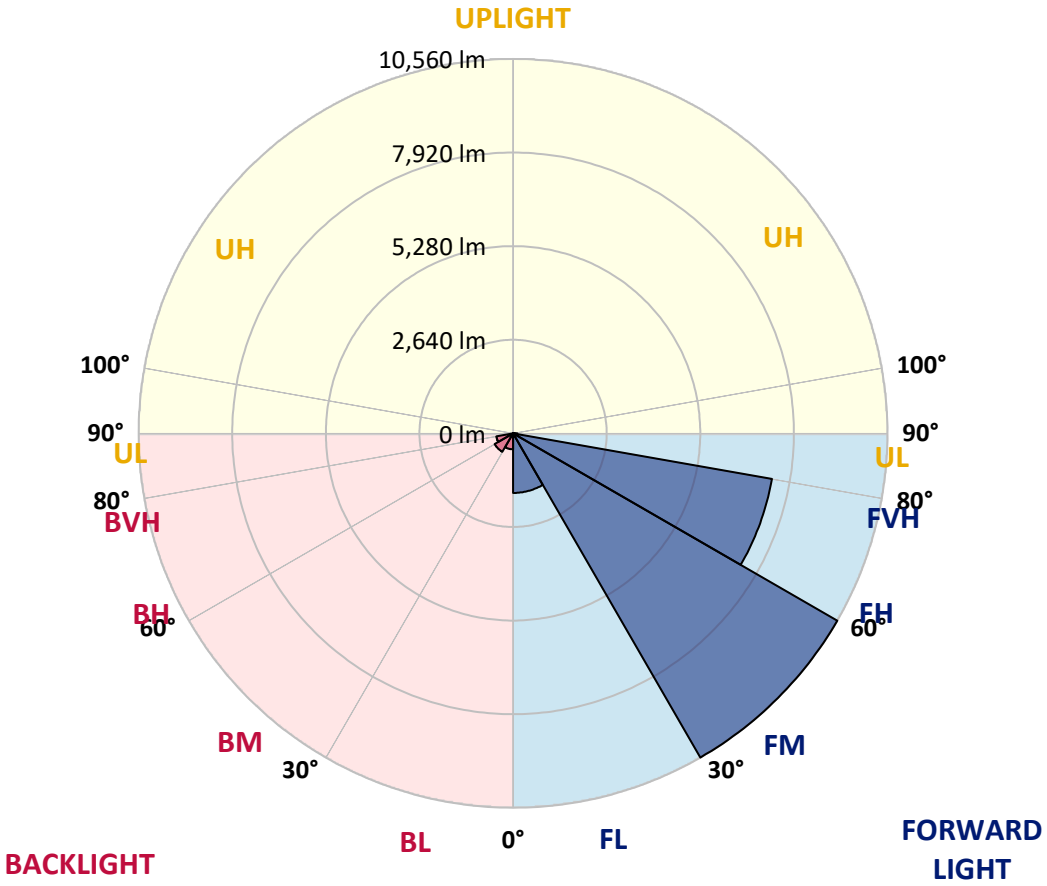
Scaled Data Report

REPORT NUMBER: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1680.3	7.9			
FM	(30°-60°)	10559.7	49.5			
FH	(60°-80°)	7414.5	34.8			G3/7500
FVH	(80°-90°)	121.8	0.6			G2/225
BL	(0°-30°)	450.3	2.1	B1/500		
BM	(30°-60°)	601.3	2.8	B1/1000		
BH	(60°-80°)	480.4	2.3	B1/500		G1/500
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type II Short



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

Scaled Data Report

REPORT NUMBER: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	*2480.6*	2480.6	2480.6
2.5°	2888.6	2906.9	2888.6	2892.7	2839.6	2815.1	2762.1	2688.7	*2670.3*	2623.4	2552.0
5°	3241.5	3257.8	3239.4	3235.4	3174.2	3129.3	3041.6	2915.1	*2878.4*	2786.6	2645.8
7.5°	3433.2	3443.4	3449.6	3459.8	3437.3	3400.6	3321.0	3164.0	*3125.2*	2976.3	2778.4
10°	3453.6	3461.8	3492.4	3553.6	3598.5	3620.9	3576.0	3431.2	*3370.0*	3225.2	2941.6
12.5°	3396.5	3408.8	3457.7	3559.7	3684.2	3798.4	3827.0	3700.5	*3645.4*	3459.8	3133.4
15°	3321.0	3331.2	3398.6	3537.3	3725.0	3935.1	4053.4	3998.3	*3937.1*	3743.3	3345.5
17.5°	3204.8	3219.0	3312.9	3500.6	3743.3	4043.2	4298.2	4316.5	*4273.7*	4063.6	3580.1
20°	3139.5	3149.7	3233.3	3427.1	3731.1	4122.7	4526.7	4700.1	*4653.1*	4432.8	3849.4
22.5°	3194.6	3202.7	3257.8	3408.8	3690.3	4167.6	4738.8	5083.6	*5057.0*	4828.6	4132.9
25°	3484.2	3510.8	3478.1	3504.6	3708.6	4192.1	4910.2	5467.1	*5473.2*	5242.7	4426.7
27.5°	4071.7	4037.1	3959.5	3827.0	3851.4	4257.4	5057.0	5828.1	*5881.2*	5646.6	4687.8
30°	4669.5	4649.1	4602.1	4396.1	4224.7	4402.2	5181.5	6197.4	*6281.0*	6044.4	4920.4
32.5°	5340.6	5361.0	5277.4	5030.5	4738.8	4696.0	5310.0	6548.2	*6705.3*	6495.2	5193.7
35°	6142.3	6148.4	5983.2	5709.8	5379.4	5181.5	5540.5	6935.8	*7225.5*	7070.5	5558.9
37.5°	6923.6	6960.3	6870.6	6440.1	6146.4	5785.3	5922.0	7433.6	*7841.6*	7780.4	6017.9
40°	7615.1	7672.3	7643.7	7227.6	6842.0	6538.0	6513.6	8017.0	*8586.2*	8655.5	6623.7
42.5°	8165.9	8202.6	8225.1	7929.3	7588.6	7417.3	7243.9	8694.3	*9465.4*	9748.9	7366.3
45°	8747.3	8759.6	8806.5	8606.6	8308.7	8323.0	8106.8	9516.4	*10391.5*	10960.7	8219.0
47.5°	9487.8	9528.6	9506.2	9296.1	9026.8	9187.9	8998.2	10363.0	*11305.4*	12254.0	9092.1
50°	10389.5	10432.3	10411.9	10167.1	9867.3	9934.6	9816.3	11185.1	*12186.7*	13473.9	9818.3
52.5°	10854.6	10889.3	11142.2	11252.4	11095.3	10666.9	10513.9	12088.8	*12931.3*	14477.5	10485.4
55°	10630.2	10654.7	11205.5	11670.6	12245.8	11817.4	11215.7	12786.4	*13588.1*	15260.9	10981.1
57.5°	9700.0	9832.6	10581.2	11368.7	12578.3	12953.7	12354.0	13545.3	*14220.5*	15805.6	11468.6
60°	7792.6	7786.5	8859.5	10273.2	11929.6	13265.8	13961.4	14571.4	*14854.9*	16223.7	12121.4
62.5°	4306.3	4345.1	5773.1	7635.5	10126.3	12458.0	15167.0	16344.1	*16301.3*	16954.0	13143.4
65°	2144.0	2221.5	2996.7	4373.7	6738.0	10295.6	15375.1	19049.1	*18926.7*	18673.7	15254.8
67.5°	*1360.6*	*1391.2*	*1819.6*	*2541.8*	*3745.4*	*6617.6*	*14079.8*	*21066.6*	*21350.1*	*20713.7*	*17349.8*
70°	881.3	932.3	1264.8	1738.0	2260.3	3410.8	10314.0	19759.0	*20409.7*	20489.3	16044.2
72.5°	479.4	516.1	807.8	1240.3	1632.0	1705.4	5793.5	14828.4	*15874.9*	17380.4	12551.8
75°	273.4	299.9	442.7	842.5	1197.5	1038.3	2568.3	9926.4	*10593.5*	12421.3	8994.2
77.5°	165.2	187.7	248.9	410.0	750.7	693.6	971.0	6042.3	*6466.6*	7411.1	4720.5
80°	75.5	89.8	157.1	226.4	410.0	328.4	371.3	2817.2	*2909.0*	3041.6	1562.6
82.5°	34.7	40.8	71.4	134.6	232.6	189.7	142.8	650.7	*915.9*	867.0	397.8
85°	4.1	4.1	26.5	55.1	65.3	49.0	59.2	146.9	*185.6*	261.1	114.2
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	12.2	18.4	*26.5*	42.8	28.6
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: P642945
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6	2480.6
2.5°	2519.3	2462.2	2411.2	2335.7	2284.7	2227.6	2188.9	2142.0	2123.6	2109.3	2088.9
5°	2576.5	2484.7	2360.2	2221.5	2107.3	1999.2	1899.2	1833.9	1776.8	1768.6	1740.1
7.5°	2670.3	2533.6	2323.5	2097.1	1903.3	1723.8	1583.0	1468.8	1411.6	1393.3	1360.6
10°	2794.7	2607.1	2268.4	1921.6	1642.2	1428.0	1268.9	1140.3	1050.6	1017.9	993.5
12.5°	2933.5	2674.4	2180.7	1705.4	1387.2	1142.4	940.4	803.7	746.6	726.2	707.9
15°	3092.6	2737.6	2042.0	1489.2	1138.3	840.5	697.7	638.5	614.0	607.9	601.8
17.5°	3245.6	2778.4	1876.8	1264.8	875.1	652.8	585.5	563.0	556.9	550.8	546.7
20°	3419.0	2807.0	1683.0	1052.6	679.3	552.8	520.2	503.9	491.6	479.4	477.3
22.5°	3596.4	2807.0	1472.8	844.5	569.1	495.7	459.0	428.4	406.0	393.7	389.6
25°	3765.8	2768.2	1264.8	675.2	501.8	440.6	393.7	359.0	328.4	314.2	310.1
27.5°	3886.1	2668.3	1083.2	571.2	454.9	391.7	334.6	295.8	271.3	257.0	255.0
30°	3961.6	2519.3	915.9	510.0	414.1	340.7	283.6	250.9	232.6	222.4	218.3
32.5°	4018.7	2335.7	767.0	467.1	375.4	295.8	246.8	220.3	204.0	195.8	193.8
35°	4132.9	2162.3	656.9	428.4	334.6	259.1	216.2	195.8	183.6	173.4	171.4
37.5°	4292.1	2017.5	569.1	393.7	295.8	230.5	195.8	177.5	167.3	157.1	155.0
40°	4526.7	1925.7	503.9	359.0	261.1	208.1	179.5	163.2	148.9	138.7	136.7
42.5°	4887.7	1882.9	461.0	324.4	230.5	187.7	165.2	144.8	130.6	120.4	118.3
45°	5318.2	1905.3	424.3	289.7	210.1	173.4	146.9	126.5	112.2	102.0	100.0
47.5°	5779.2	1984.9	393.7	257.0	189.7	159.1	130.6	108.1	95.9	85.7	83.6
50°	6260.6	2115.4	367.2	226.4	173.4	142.8	112.2	93.8	81.6	73.4	71.4
52.5°	6678.8	2292.9	340.7	204.0	159.1	126.5	97.9	81.6	69.4	61.2	59.2
55°	7078.6	2460.2	320.3	183.6	142.8	110.2	85.7	69.4	59.2	51.0	49.0
57.5°	7513.1	2637.7	295.8	165.2	128.5	97.9	75.5	59.2	51.0	42.8	40.8
60°	8145.5	2900.8	259.1	151.0	112.2	85.7	65.3	53.0	44.9	34.7	32.6
62.5°	9057.4	3380.2	218.3	130.6	95.9	73.4	55.1	44.9	36.7	28.6	24.5
65°	10762.8	4196.2	179.5	108.1	77.5	61.2	46.9	36.7	28.6	20.4	18.4
67.5°	*11990.8*	*4408.3*	*144.8*	*87.7*	*63.2*	*46.9*	*38.8*	*28.6*	*20.4*	*14.3*	*12.2*
70°	10483.3	3166.0	112.2	71.4	53.0	36.7	30.6	22.4	14.3	10.2	8.2
72.5°	7898.7	2068.5	83.6	55.1	40.8	30.6	22.4	18.4	12.2	8.2	6.1
75°	5567.0	1195.4	61.2	40.8	28.6	22.4	18.4	14.3	10.2	6.1	6.1
77.5°	2853.9	493.7	42.8	28.6	20.4	14.3	12.2	8.2	8.2	6.1	4.1
80°	867.0	163.2	24.5	18.4	14.3	10.2	6.1	6.1	6.1	4.1	2.0
82.5°	197.9	53.0	14.3	14.3	10.2	8.2	6.1	2.0	2.0	0.0	0.0
85°	51.0	16.3	12.2	10.2	10.2	8.2	4.1	2.0	0.0	0.0	0.0
87.5°	18.4	10.2	10.2	10.2	8.2	6.1	4.1	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

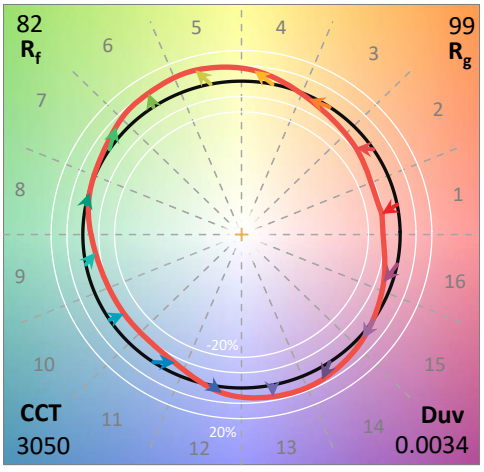
Test Information

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

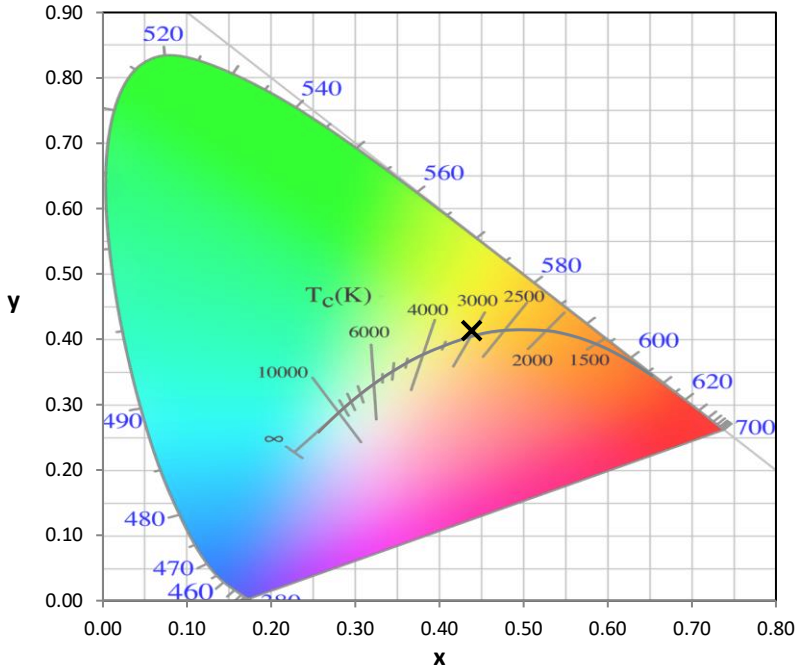
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

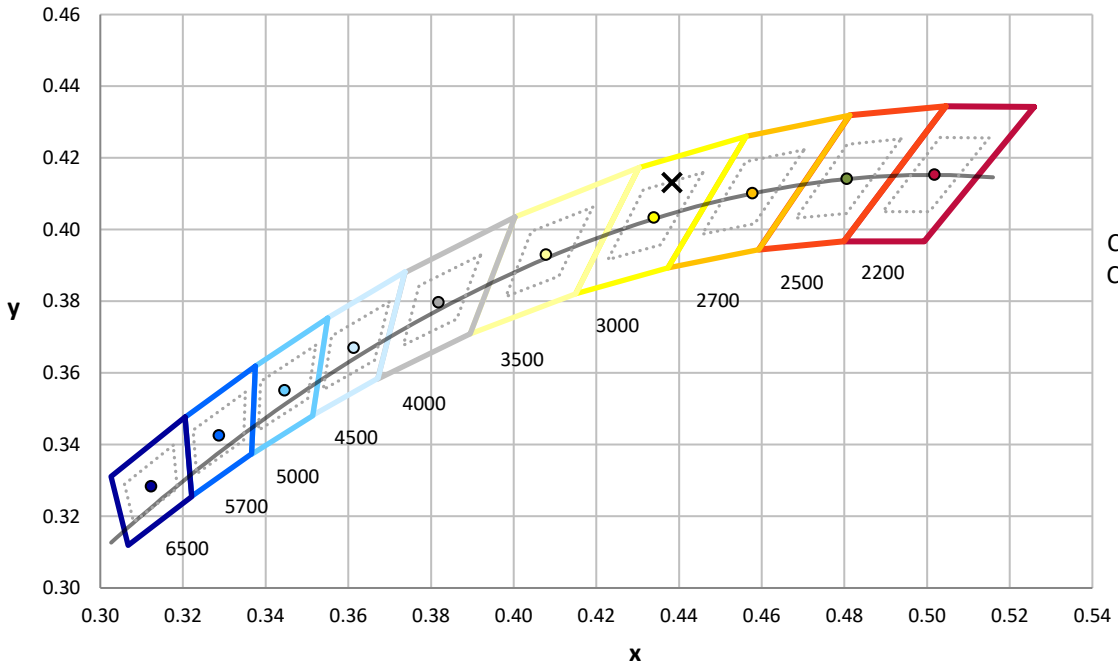
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

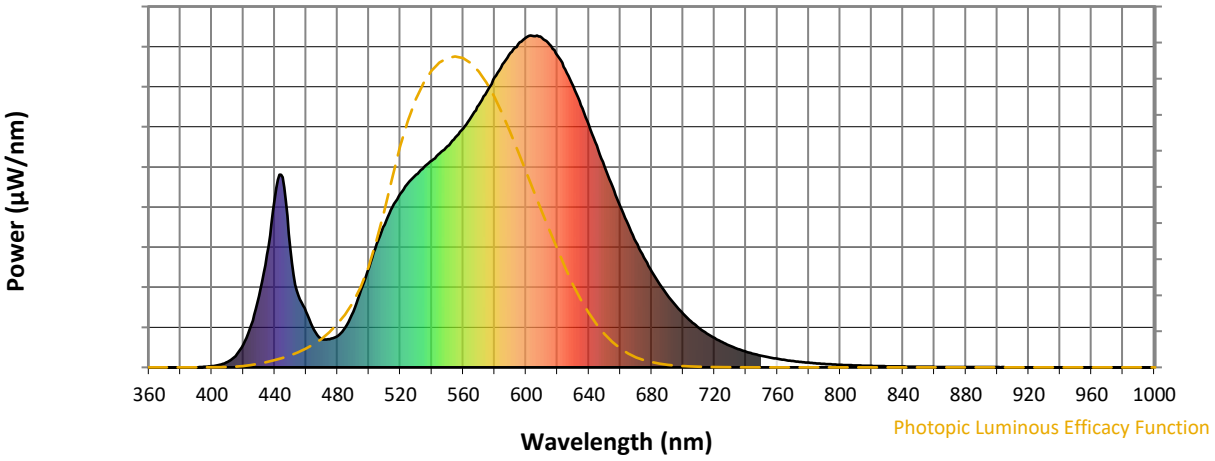


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

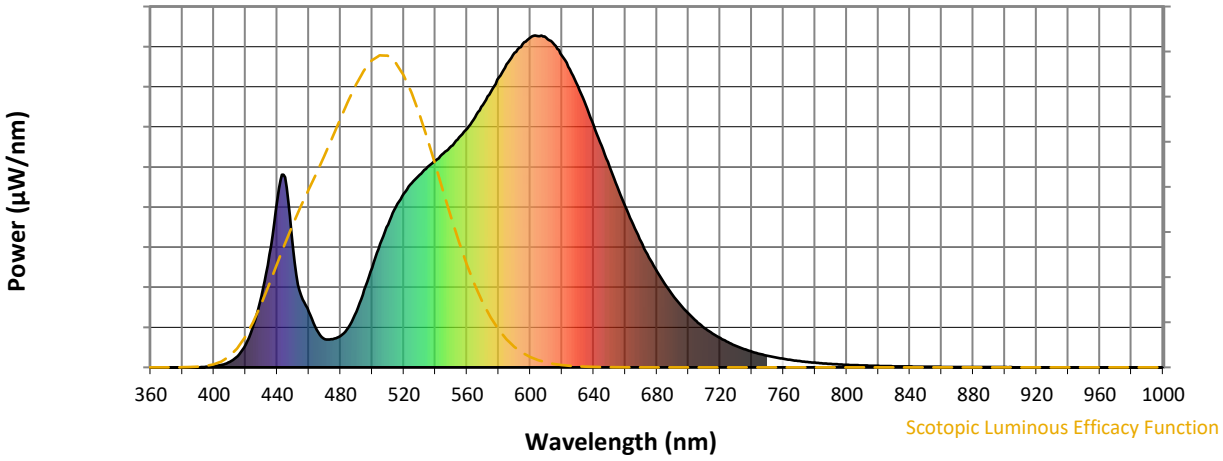


Photopic Lumens: NR

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

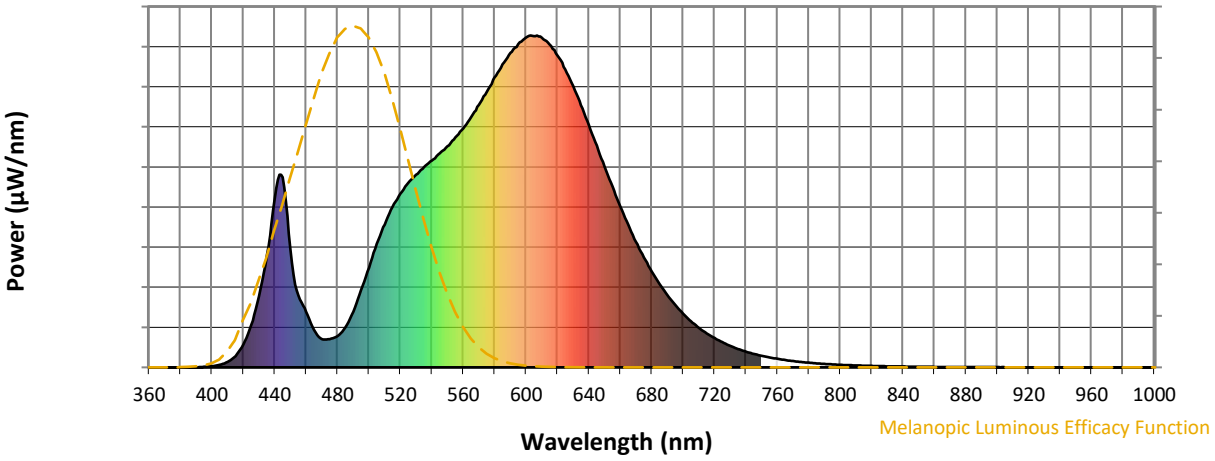


Scotopic Lumens: NR **S/P: 1.27**

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			

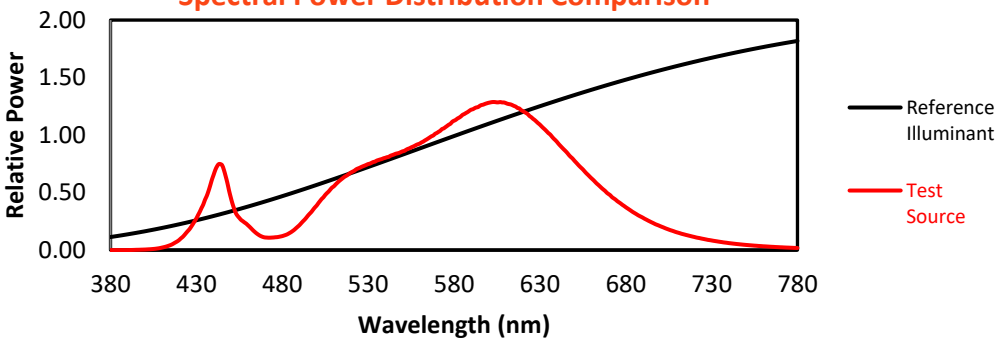
REPORT NUMBER: SP1-2408-195-9

TM-30-18

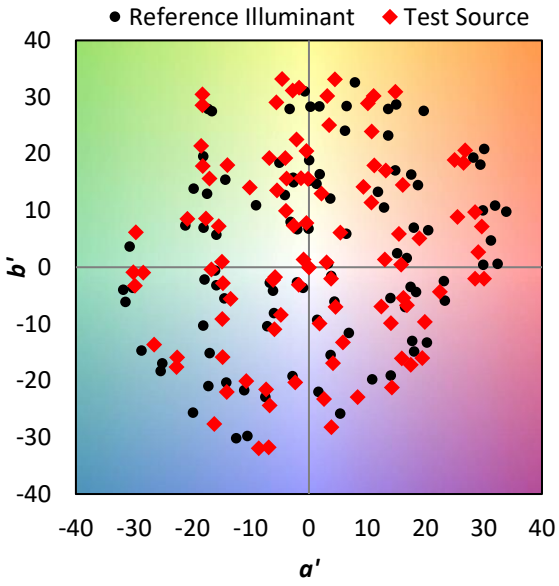
Summary

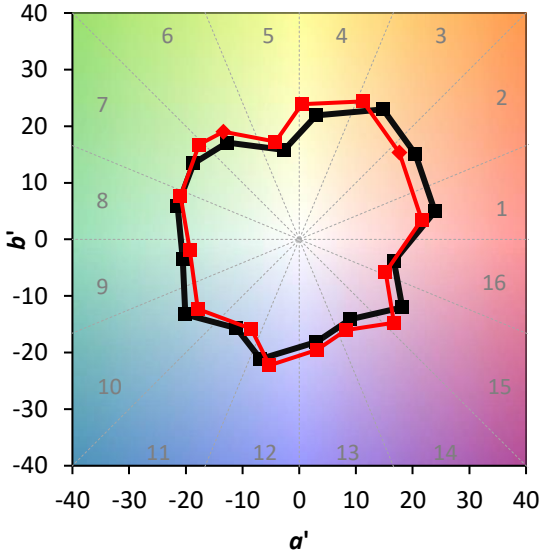
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

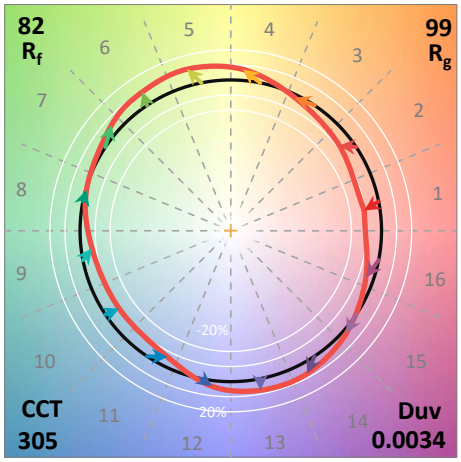
Spectral Power Distribution Comparison

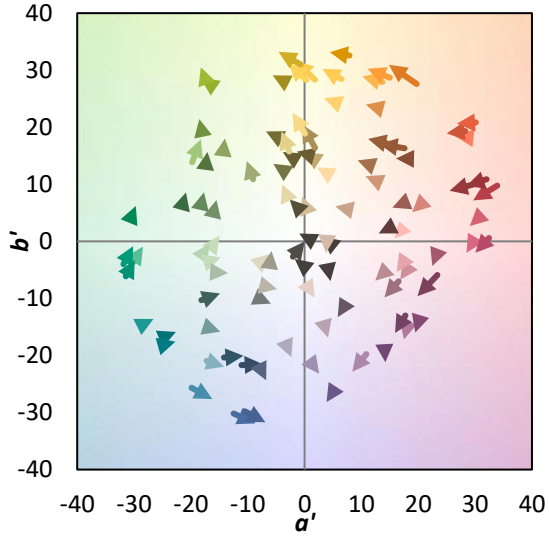


Color Vector Graphics







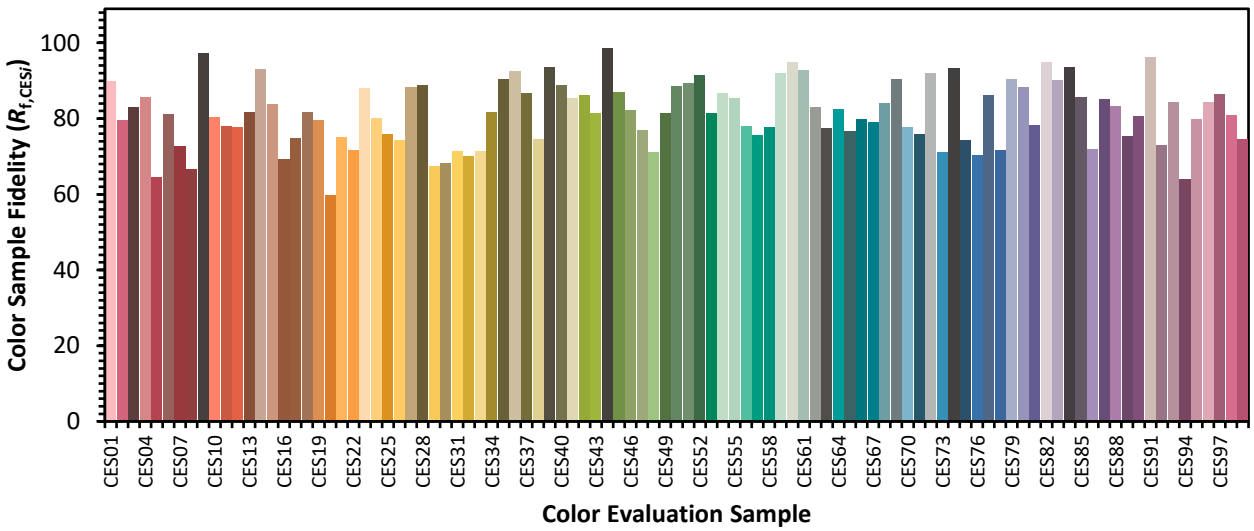


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

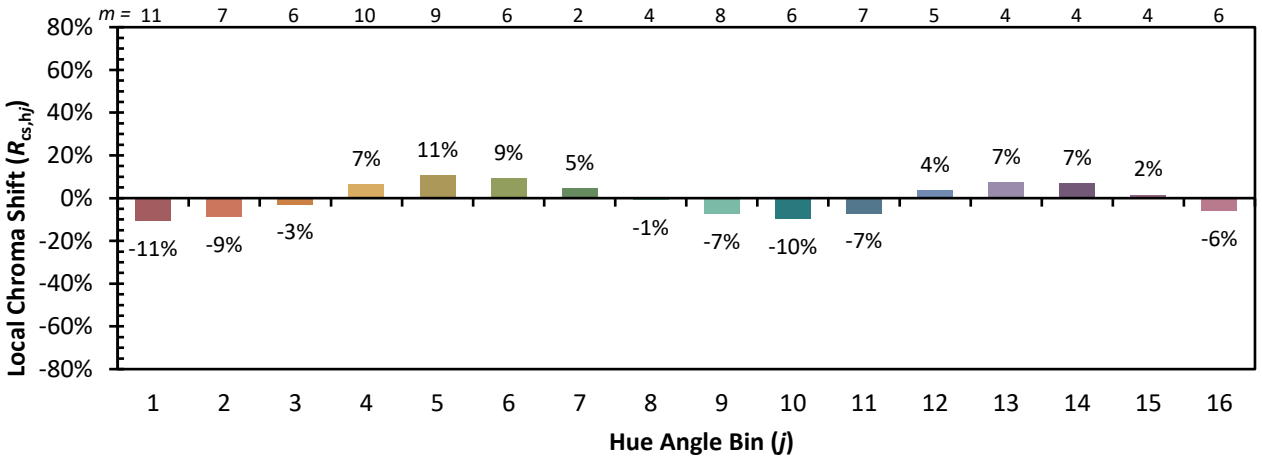
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

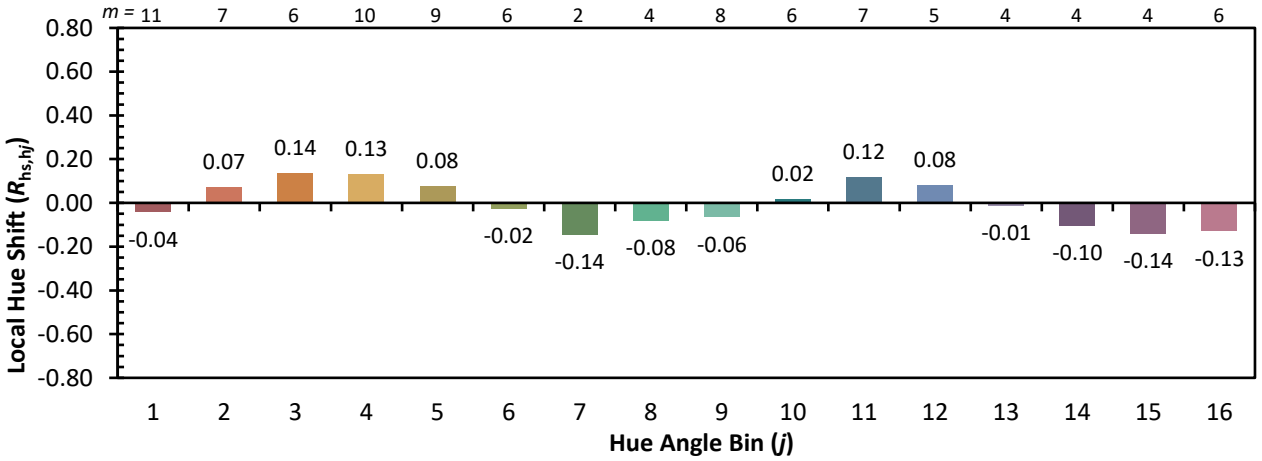


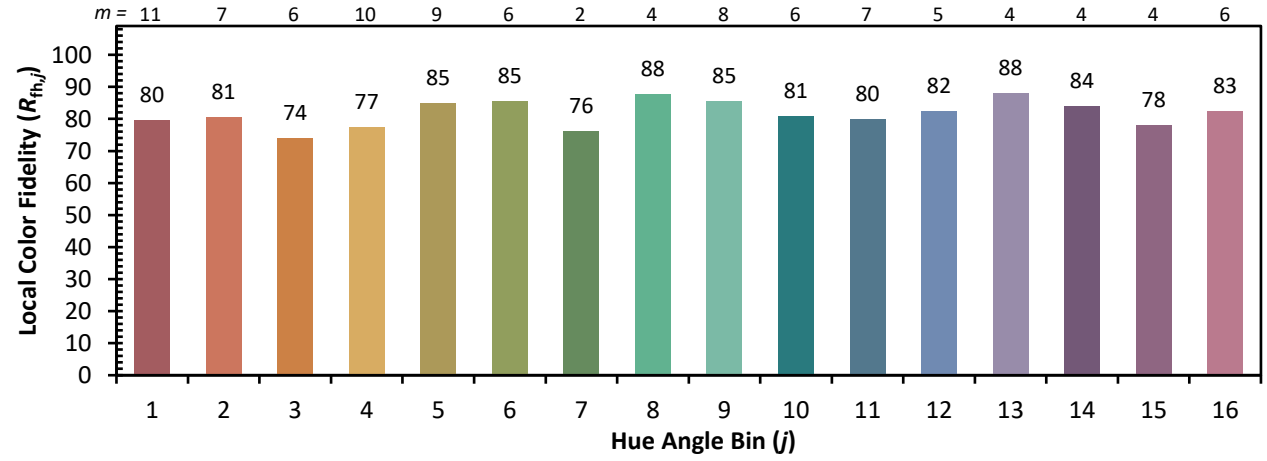
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



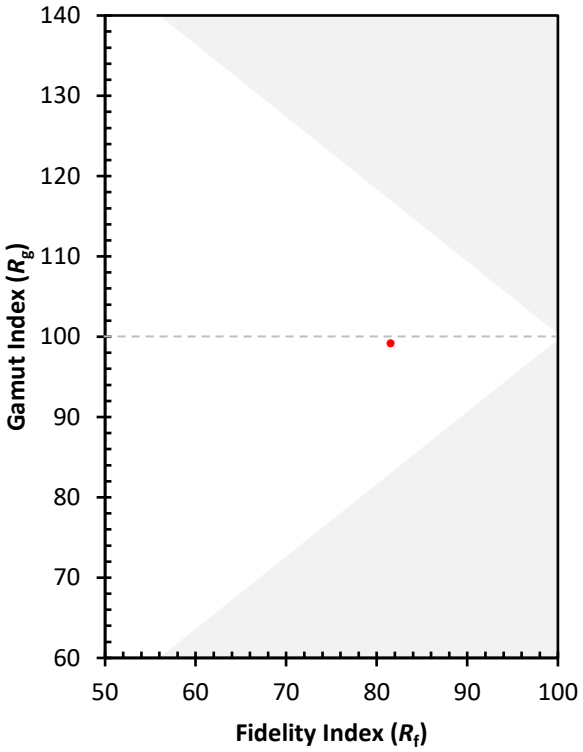


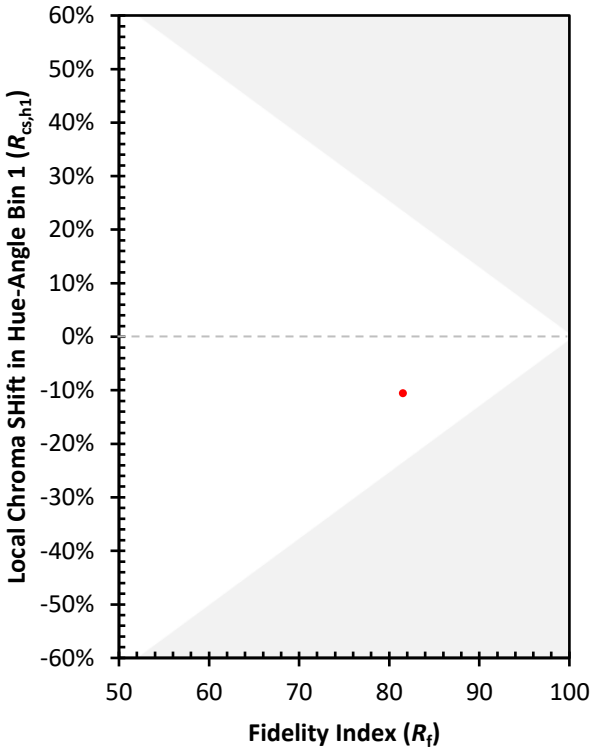


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)