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: P642449

Luminaire Tested: GWS-SA6C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P642449
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18805.8 lumens
Efficiency:	N/A
Efficacy:	99.4 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

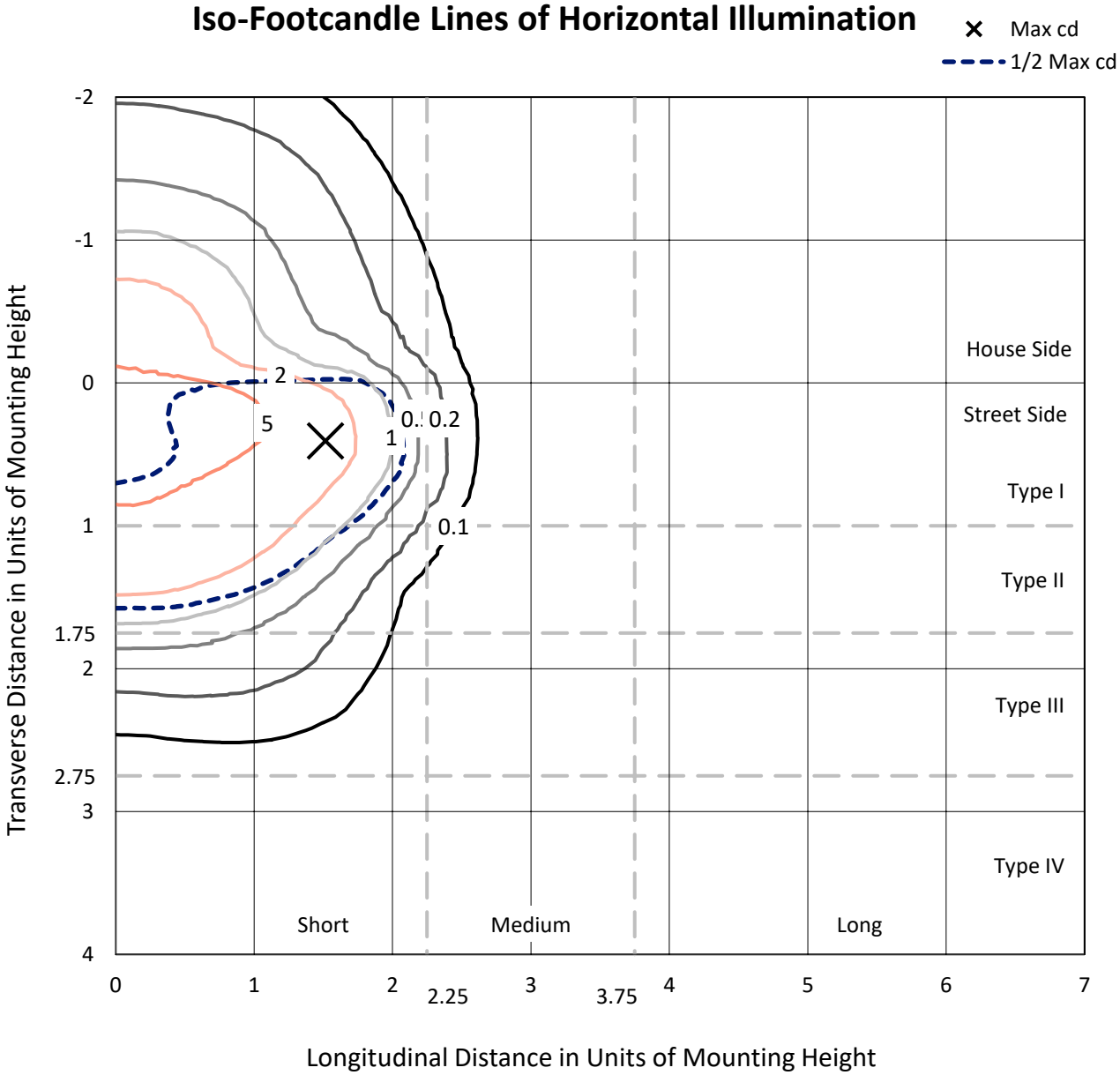
Input Watts (W):	189.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



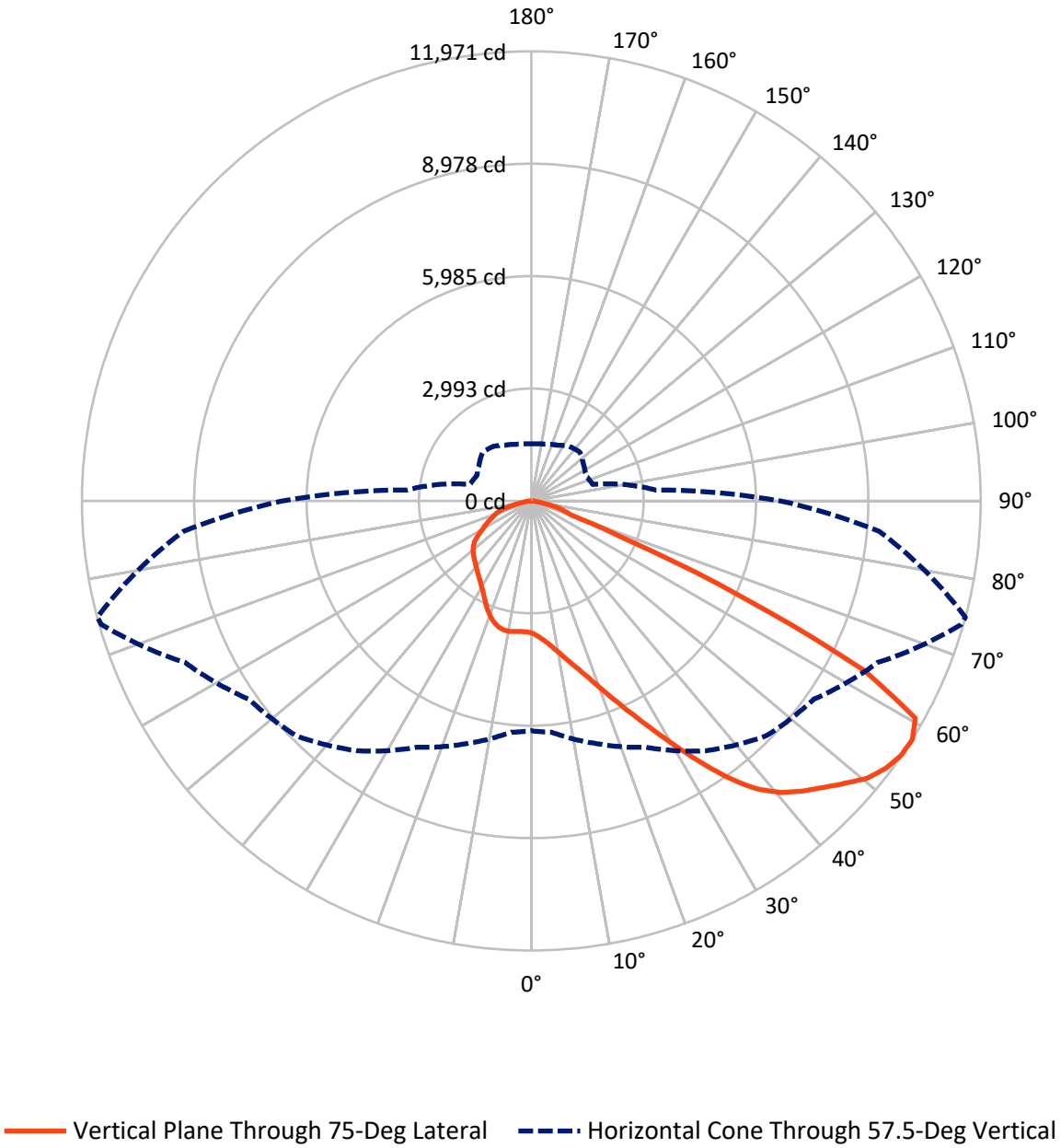
Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

Luminous Intensity Polar Plot



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

Scaled Data Report

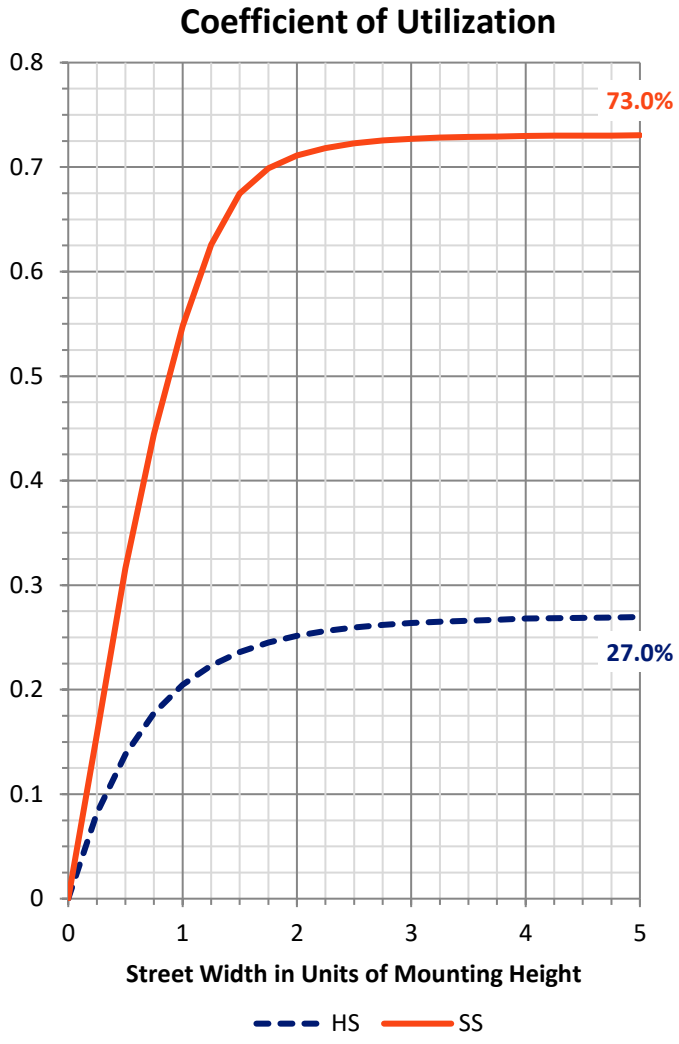
REPORT NUMBER: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5087.4	0.0	5087.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	13718.4	0.0	13718.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	18805.8	0.0	18805.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.9
10°-20°	1122.1	6.0
20°-30°	1990.0	10.6
30°-40°	3046.3	16.2
40°-50°	4241.7	22.6
50°-60°	4860.2	25.8
60°-70°	2497.2	13.3
70°-80°	628.7	3.3
80°-90°	67.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18805.8	100.0
0°-180°	18805.8	100.0



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

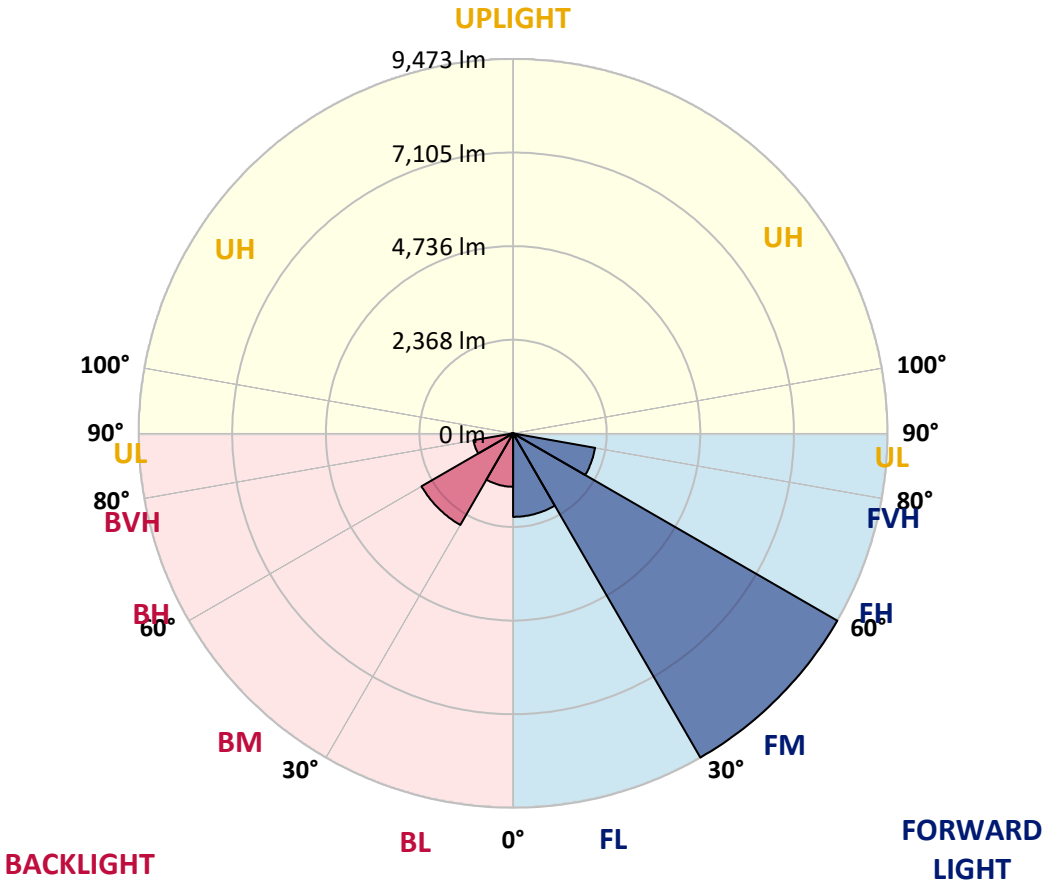
Scaled Data Report

REPORT NUMBER: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2112.9	11.2			
FM	(30°-60°)	9472.7	50.4			
FH	(60°-80°)	2107.9	11.2			G2/5000
FVH	(80°-90°)	24.9	0.1			G1/100
BL	(0°-30°)	1351.5	7.2	B3/2500		
BM	(30°-60°)	2675.5	14.2	B3/5000		
BH	(60°-80°)	1018.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	42.3	0.2			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: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	*3521.9*	3521.9
2.5°	3783.8	3793.5	3783.8	3800.0	3767.7	3753.1	3717.5	3664.2	3622.1	*3615.7*	3568.8
5°	4078.1	4099.2	4086.2	4079.7	4036.1	4003.7	3950.4	3843.7	3756.3	*3743.4*	3651.2
7.5°	4267.3	4281.9	4281.9	4286.7	4270.6	4233.4	4176.8	4050.6	3927.7	*3908.3*	3769.3
10°	4330.4	4341.7	4362.7	4403.2	4435.5	4446.8	4409.6	4288.3	4138.0	*4118.6*	3924.5
12.5°	4344.9	4357.9	4390.2	4464.6	4553.5	4634.4	4640.9	4551.9	4383.7	*4362.7*	4104.0
15°	4372.4	4385.4	4429.0	4521.2	4652.2	4807.4	4902.8	4841.4	4655.4	*4632.8*	4307.7
17.5°	4369.2	4383.7	4448.4	4571.3	4747.6	4972.3	5156.7	5182.6	4990.1	*4951.3*	4539.0
20°	4361.1	4374.0	4443.6	4594.0	4812.3	5121.1	5454.2	5588.4	5381.5	*5345.9*	4809.0
22.5°	4425.8	4440.3	4493.7	4618.2	4846.2	5235.9	5729.1	6052.5	5845.5	*5795.4*	5119.5
25°	4571.3	4592.3	4624.7	4710.4	4907.7	5337.8	6010.5	6578.0	6366.2	*6306.4*	5457.5
27.5°	4796.1	4822.0	4867.2	4907.7	5045.1	5467.2	6290.2	7166.6	6954.8	*6891.7*	5814.8
30°	5071.0	5104.9	5163.2	5190.6	5284.4	5658.0	6594.2	7773.0	7650.1	*7562.8*	6217.5
32.5°	5451.0	5497.9	5552.9	5560.9	5617.5	5947.4	6895.0	8374.6	8372.9	*8311.5*	6675.1
35°	5945.8	5995.9	6007.2	6018.6	6046.0	6345.2	7258.8	8922.7	9134.6	*9063.4*	7173.1
37.5°	6485.9	6558.6	6576.4	6526.3	6565.1	6823.8	7667.9	9362.6	9797.5	*9721.5*	7655.0
40°	7063.2	7092.3	7140.8	7061.5	7110.0	7372.0	8068.9	9643.9	10292.3	*10211.5*	8035.0
42.5°	7477.1	7530.5	7603.2	7574.1	7601.6	7840.9	8350.3	9779.8	10644.9	*10564.0*	8308.3
45°	7926.6	7942.8	7989.7	7983.2	7999.4	8222.6	8552.4	9839.6	10960.2	*10887.4*	8541.1
47.5°	8318.0	8342.2	8372.9	8337.4	8301.8	8447.3	8717.4	9891.3	11324.0	*11236.7*	8785.3
50°	8694.7	8715.8	8752.9	8649.5	8516.9	8554.0	8798.2	9962.5	11665.2	*11603.8*	8977.7
52.5°	8764.3	8786.9	8961.5	8982.6	8812.8	8681.8	8940.5	10119.3	11865.7	*11826.9*	9047.2
55°	7889.5	7929.9	8277.5	8676.9	9095.8	9053.7	9168.5	10201.8	11944.9	*11954.6*	9171.8
57.5°	*6123.7*	*6181.9*	*6689.6*	*7237.8*	*8119.1*	*8848.3*	*9197.6*	*10180.8*	*11917.5*	*11970.8*	*9299.5*
60°	4016.7	4050.6	4652.2	5266.6	6180.3	7189.3	8232.3	9802.4	11673.3	*11749.3*	9267.2
62.5°	2425.5	2464.3	2947.8	3413.5	3952.0	4626.3	5583.6	7878.1	9784.6	*9954.4*	7422.1
65°	1693.0	1744.8	2168.4	2551.7	2737.6	2598.6	2828.2	4399.9	6096.2	*6167.3*	4535.7
67.5°	1227.3	1262.9	1610.6	2066.6	2271.9	1835.3	1398.7	1948.5	2655.2	*2681.0*	1870.9
70°	803.7	844.1	1159.4	1573.4	1854.7	1487.7	1046.2	1054.3	1117.4	*1130.3*	1086.6
72.5°	441.4	465.7	716.3	1044.6	1096.3	889.4	816.6	876.4	920.1	*920.1*	931.4
75°	228.0	249.0	292.7	344.4	415.6	486.7	588.6	677.5	724.4	*727.7*	722.8
77.5°	116.4	124.5	156.9	169.8	186.0	216.7	281.4	360.6	402.6	*418.8*	415.6
80°	55.0	58.2	66.3	77.6	95.4	121.3	152.0	181.1	207.0	*210.2*	228.0
82.5°	29.1	32.3	35.6	42.0	51.7	64.7	88.9	106.7	122.9	*126.1*	140.7
85°	11.3	12.9	14.6	16.2	22.6	27.5	37.2	50.1	61.4	*61.4*	72.8
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	8.1	11.3	*11.3*	19.4
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: P642449
CATALOG NUMBER: GWS-SA6C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9
2.5°	3557.4	3510.6	3489.5	3455.6	3428.1	3397.4	3373.1	3355.3	3344.0	3337.5	3331.1
5°	3615.7	3544.5	3487.9	3420.0	3373.1	3327.8	3290.6	3264.8	3251.8	3242.1	3235.7
7.5°	3706.2	3610.8	3504.1	3399.0	3316.5	3243.7	3196.9	3169.4	3151.6	3145.1	3140.3
10°	3830.7	3698.1	3521.9	3355.3	3232.4	3153.2	3120.9	3107.9	3109.5	3106.3	3104.7
12.5°	3971.4	3790.3	3517.0	3277.7	3141.9	3095.0	3096.6	3117.6	3141.9	3148.3	3150.0
15°	4123.4	3880.9	3470.1	3177.4	3070.7	3075.6	3117.6	3167.7	3213.0	3230.8	3234.0
17.5°	4288.3	3956.9	3384.4	3067.5	3012.5	3064.3	3141.9	3224.3	3290.6	3319.7	3327.8
20°	4472.7	4021.5	3263.2	2959.2	2957.5	3043.2	3156.4	3264.8	3348.9	3387.7	3394.1
22.5°	4668.3	4062.0	3114.4	2858.9	2900.9	3015.7	3145.1	3258.3	3347.2	3386.0	3394.1
25°	4865.6	4074.9	2951.1	2766.7	2842.7	2972.1	3090.1	3180.7	3264.8	3298.7	3305.2
27.5°	5050.0	4037.7	2795.8	2687.5	2789.4	2907.4	2986.6	3035.2	3093.4	3119.2	3124.1
30°	5237.5	3963.3	2664.9	2624.4	2729.5	2818.5	2854.0	2857.3	2879.9	2879.9	2883.2
32.5°	5426.7	3853.4	2550.0	2563.0	2655.2	2713.4	2718.2	2681.0	2653.5	2608.3	2606.6
35°	5645.0	3741.8	2456.3	2493.4	2567.8	2603.4	2588.9	2517.7	2451.4	2377.0	2373.8
37.5°	5847.2	3627.0	2377.0	2422.3	2469.2	2495.1	2461.1	2375.4	2320.4	2244.4	2233.1
40°	6013.7	3523.5	2301.0	2347.9	2370.6	2393.2	2338.2	2268.7	2276.8	2234.7	2233.1
42.5°	6110.7	3423.2	2229.9	2265.4	2280.0	2296.2	2247.7	2195.9	2239.6	2207.2	2208.9
45°	6181.9	3335.9	2165.2	2178.1	2213.7	2238.0	2192.7	2134.5	2144.2	2019.7	1990.6
47.5°	6262.7	3287.4	2103.7	2090.8	2153.9	2195.9	2126.4	2042.3	1984.1	1861.2	1849.9
50°	6348.4	3269.6	2039.1	2003.5	2079.5	2119.9	2039.1	1934.0	1858.0	1791.7	1785.2
52.5°	6377.5	3268.0	1958.2	1898.4	1974.4	2031.0	1963.1	1856.3	1765.8	1701.1	1697.9
55°	6492.3	3314.9	1854.7	1754.5	1825.6	1942.0	1891.9	1738.3	1665.5	1636.4	1633.2
57.5°	*6626.6*	*3323.0*	*1691.4*	*1597.6*	*1696.3*	*1833.7*	*1770.6*	*1638.0*	*1558.8*	*1523.2*	*1520.0*
60°	6571.6	3124.1	1516.8	1478.0	1586.3	1731.8	1673.6	1558.8	1466.6	1432.7	1429.4
62.5°	5007.9	2205.6	1389.0	1374.5	1468.3	1584.7	1573.4	1453.7	1366.4	1342.1	1338.9
65°	3012.5	1549.1	1266.1	1264.5	1330.8	1442.4	1456.9	1359.9	1267.7	1233.8	1233.8
67.5°	1489.3	1185.3	1127.1	1119.0	1161.0	1240.3	1301.7	1222.5	1144.9	1112.5	1107.7
70°	1052.7	1044.6	1025.2	1002.6	1010.6	1043.0	1068.9	1002.6	920.1	887.7	881.3
72.5°	910.4	912.0	899.1	881.3	874.8	852.2	829.5	781.0	730.9	696.9	700.2
75°	706.6	709.9	718.0	711.5	693.7	669.4	645.2	583.7	543.3	511.0	504.5
77.5°	412.3	428.5	454.4	447.9	451.1	417.2	407.5	347.7	310.5	287.8	283.0
80°	232.9	242.6	253.9	262.0	252.3	237.7	216.7	184.3	173.0	156.9	153.6
82.5°	140.7	150.4	155.2	161.7	158.5	139.1	122.9	101.9	92.2	84.1	82.5
85°	71.1	77.6	82.5	85.7	76.0	63.1	56.6	45.3	38.8	34.0	34.0
87.5°	17.8	19.4	22.6	19.4	17.8	8.1	6.5	1.6	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

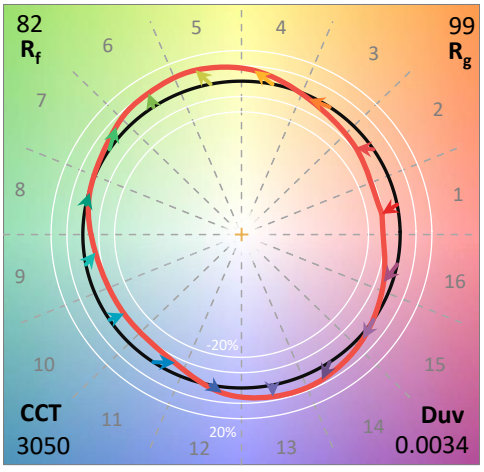
Test Information

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

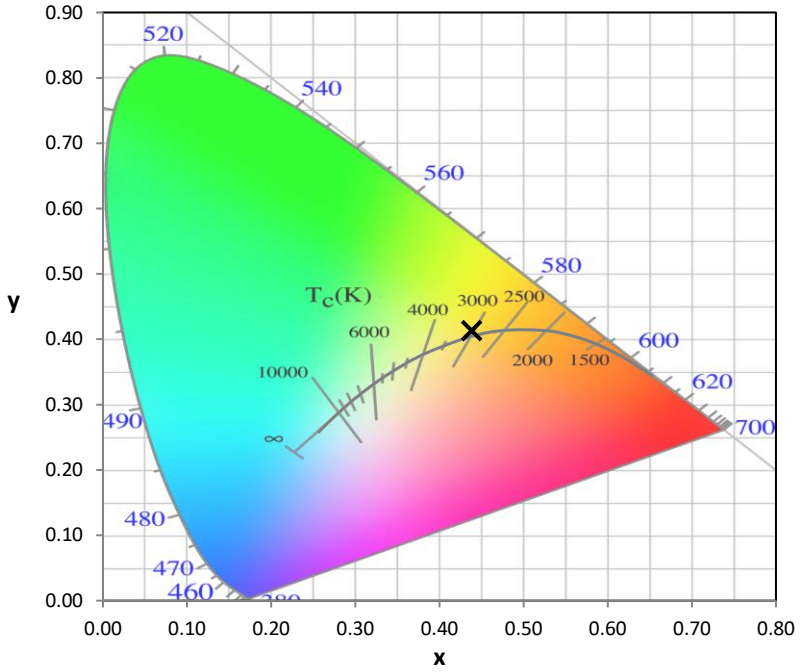
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

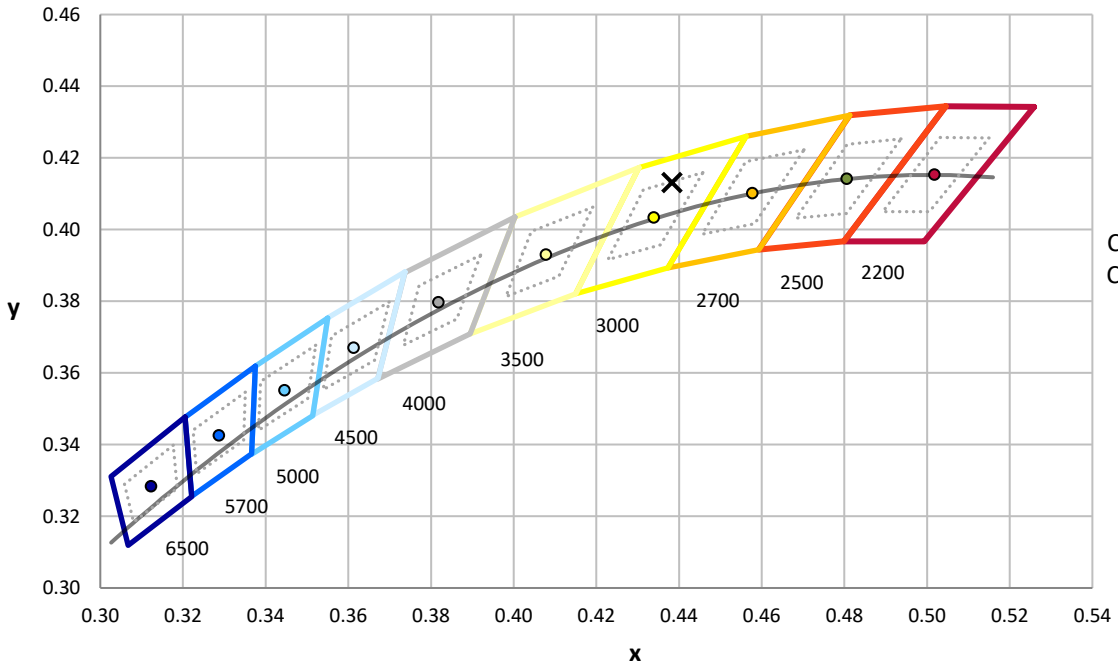
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

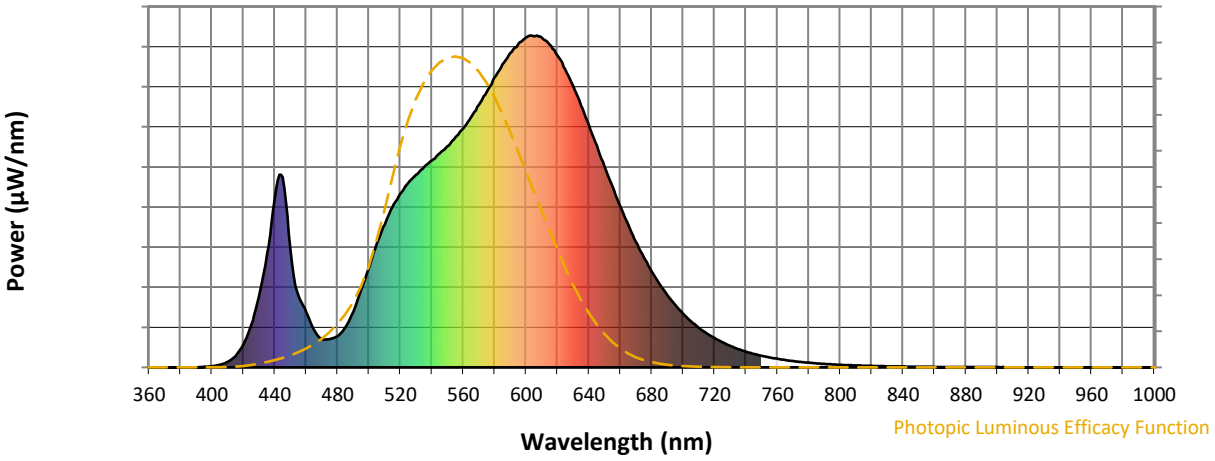


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

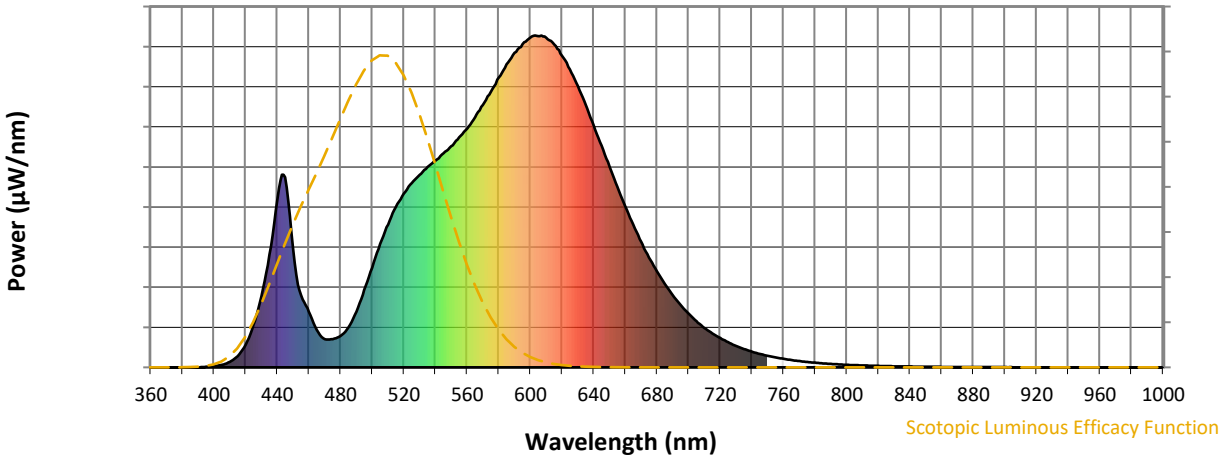


Photopic Lumens: NR

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

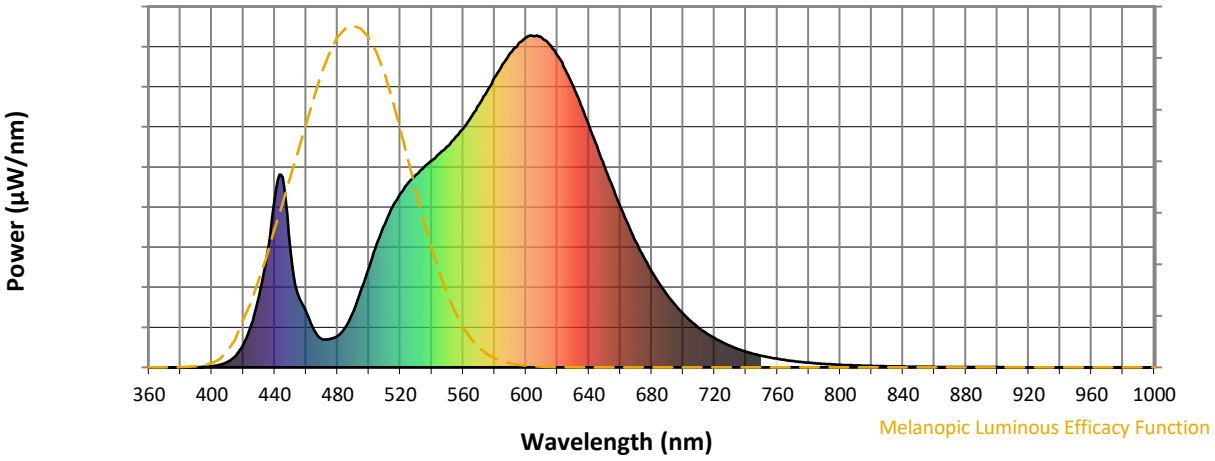


Scotopic Lumens: NR **S/P: 1.27**

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			

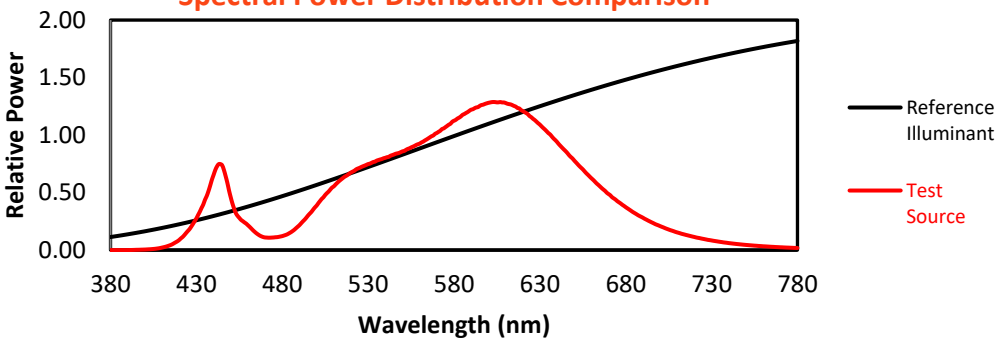
REPORT NUMBER: SP1-2408-195-9

TM-30-18

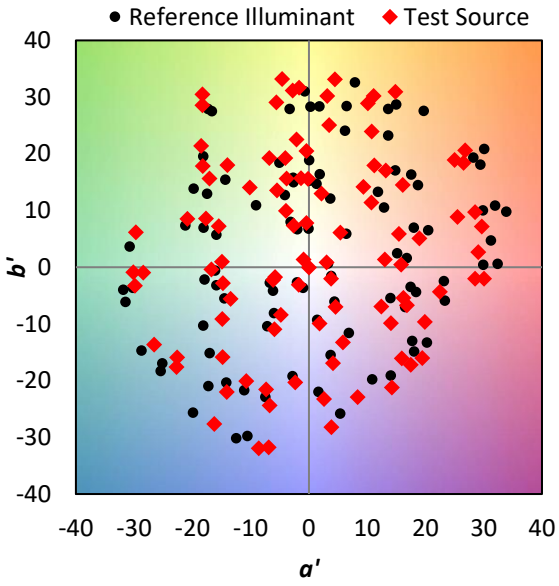
Summary

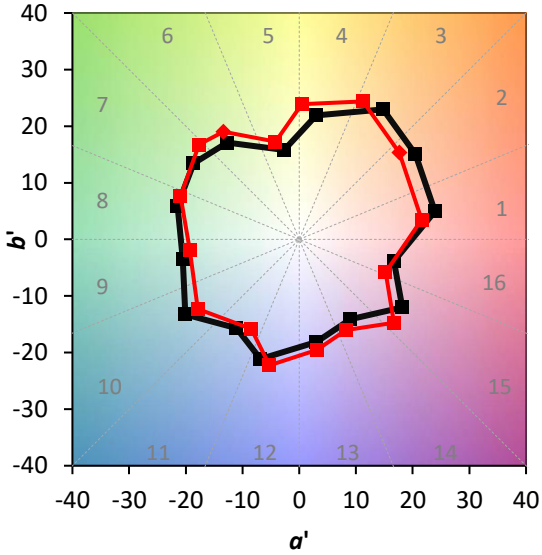
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

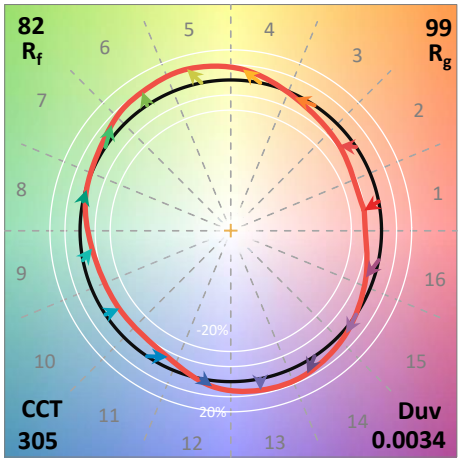
Spectral Power Distribution Comparison

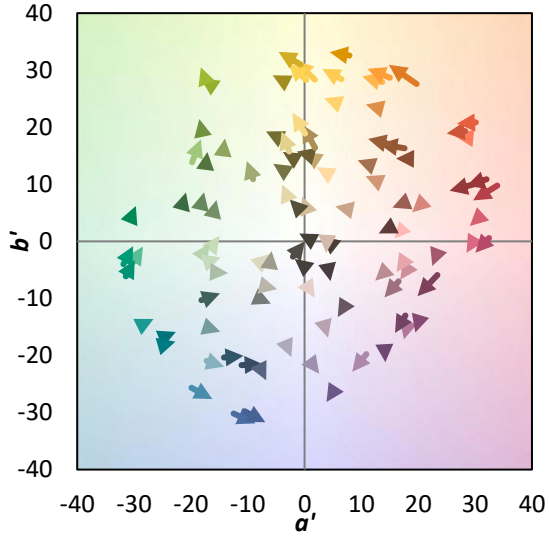


Color Vector Graphics







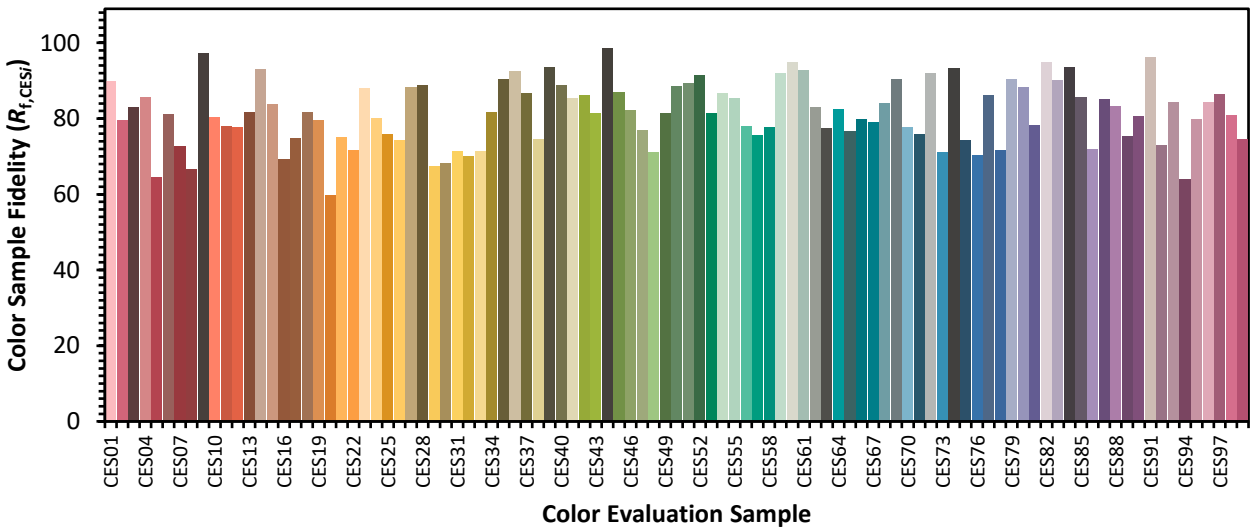


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

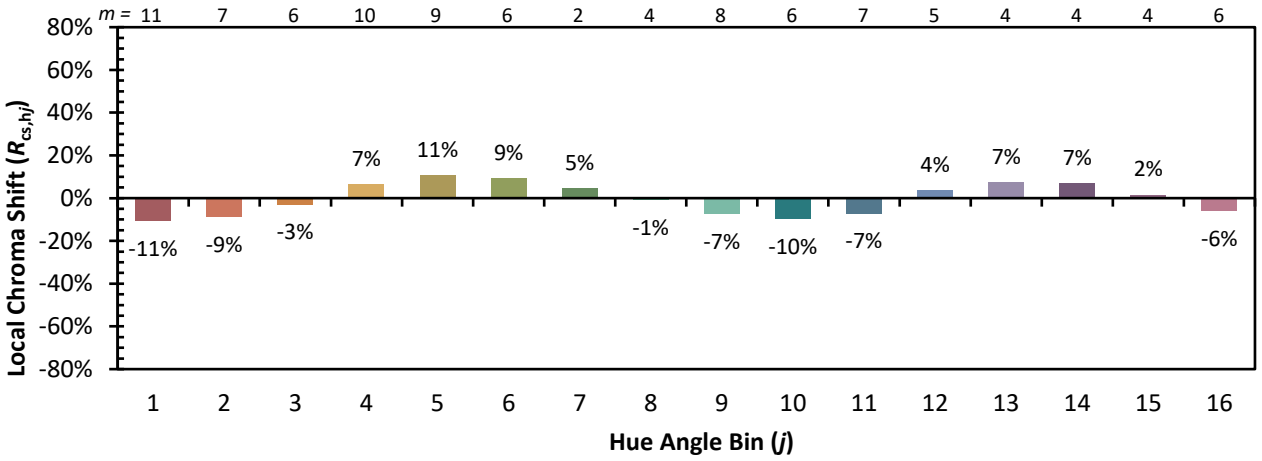
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

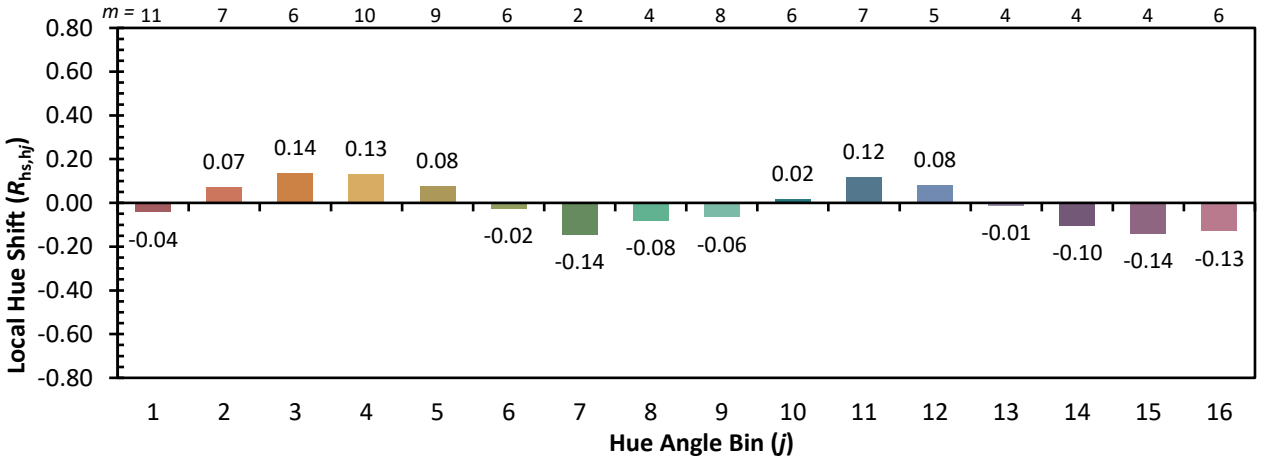


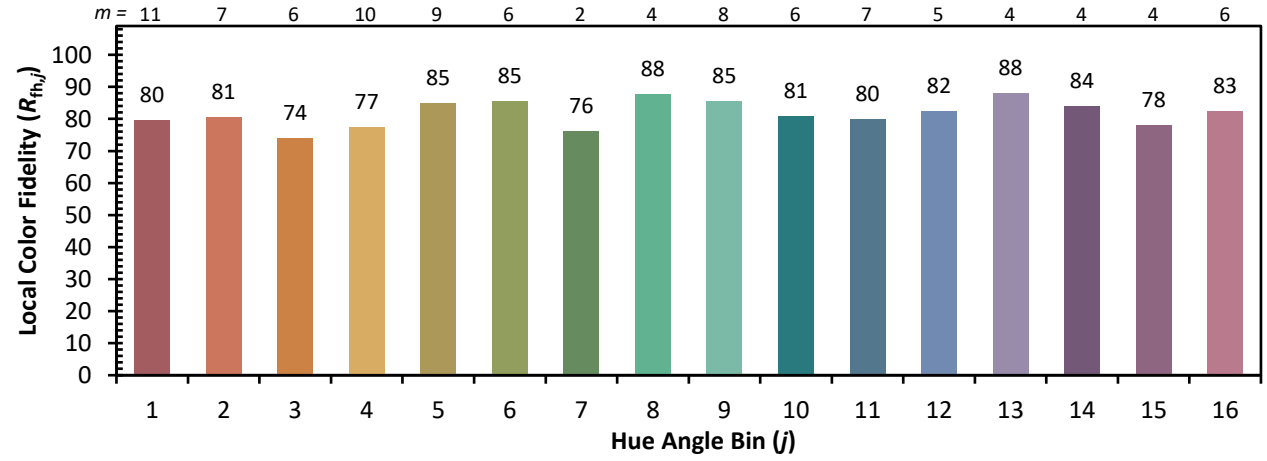
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



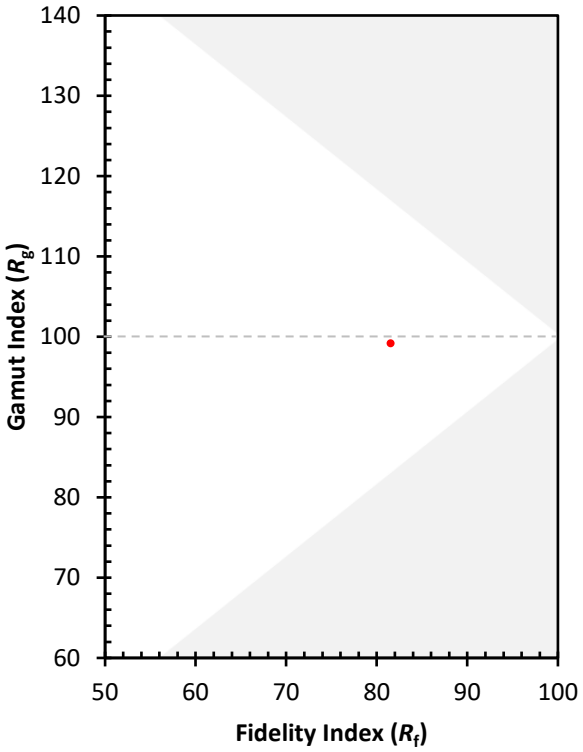


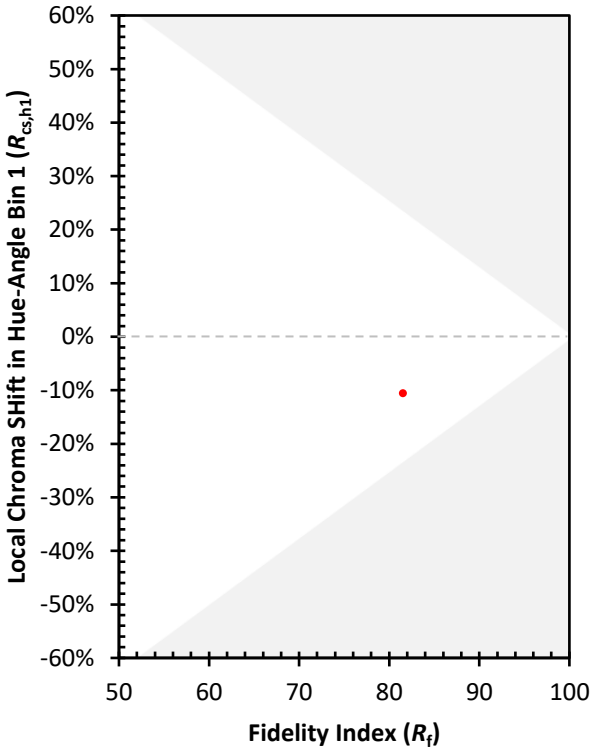


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)