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: P641954

Luminaire Tested: GWS-SA6B-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:	P641954
	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-SA6B-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:	14022.6 lumens
Efficiency:	N/A
Efficacy:	101.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

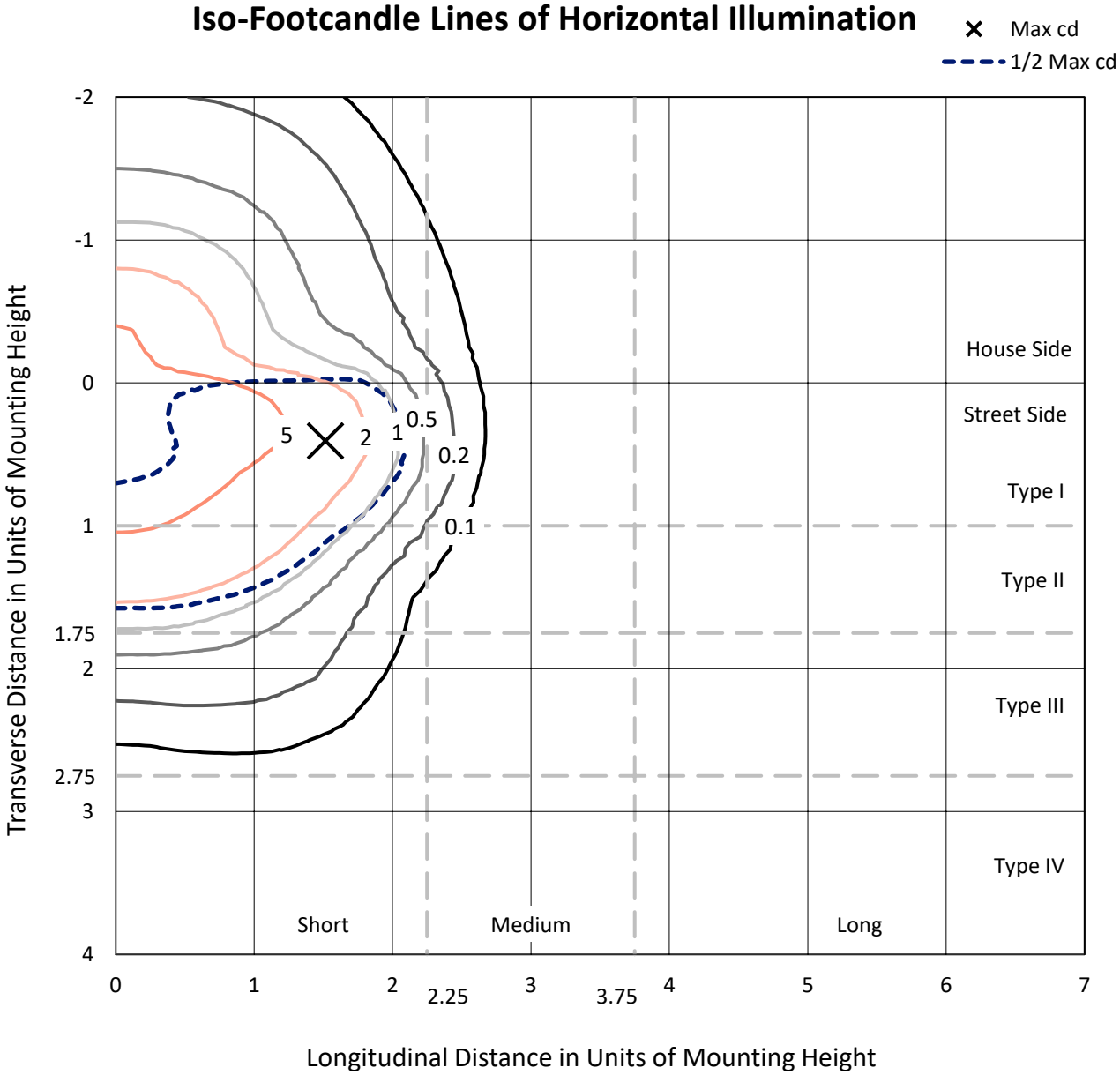
Input Watts (W):	138.9
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P641954
CATALOG NUMBER: GWS-SA6B-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



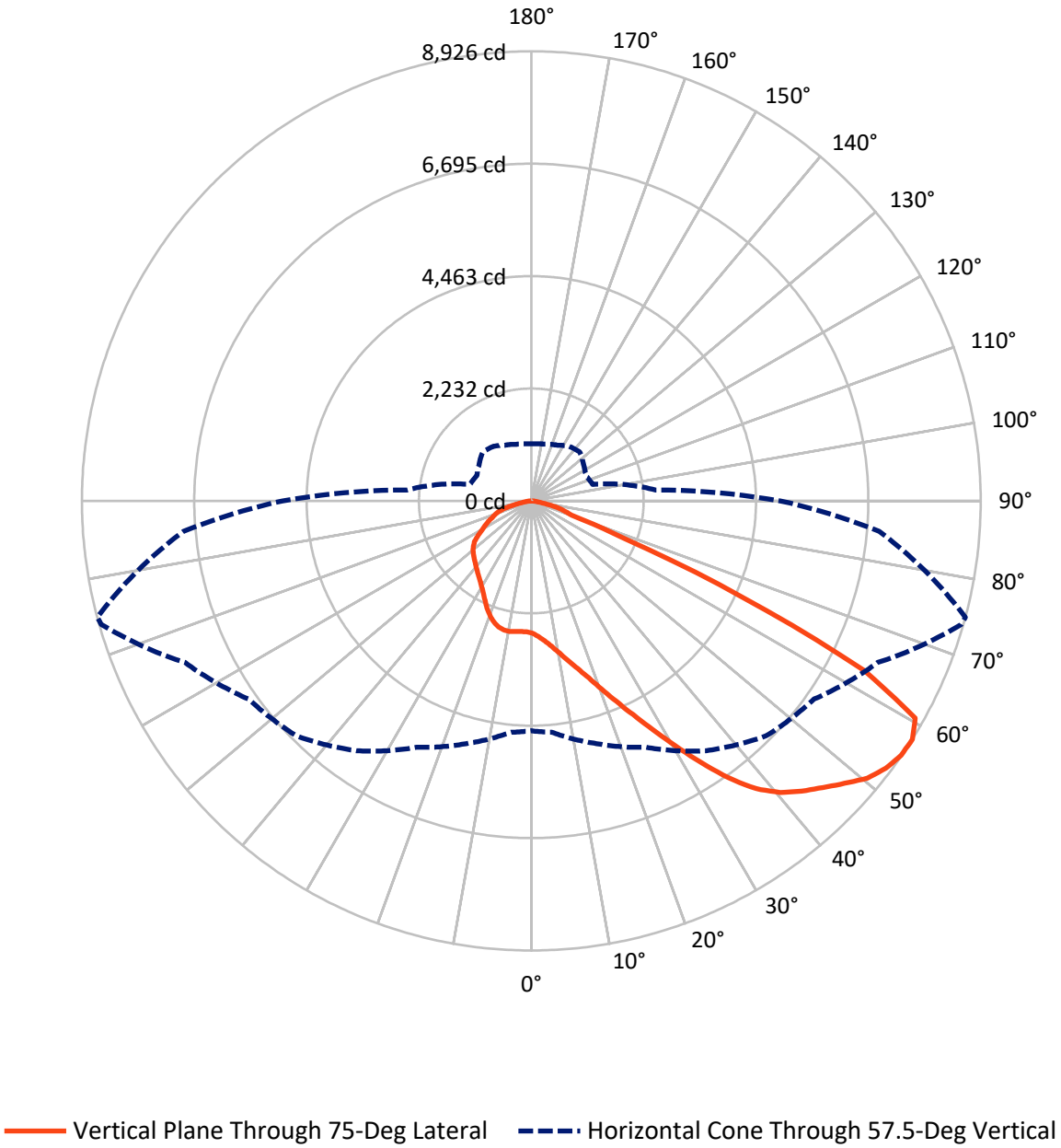
Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P641954
CATALOG NUMBER: GWS-SA6B-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

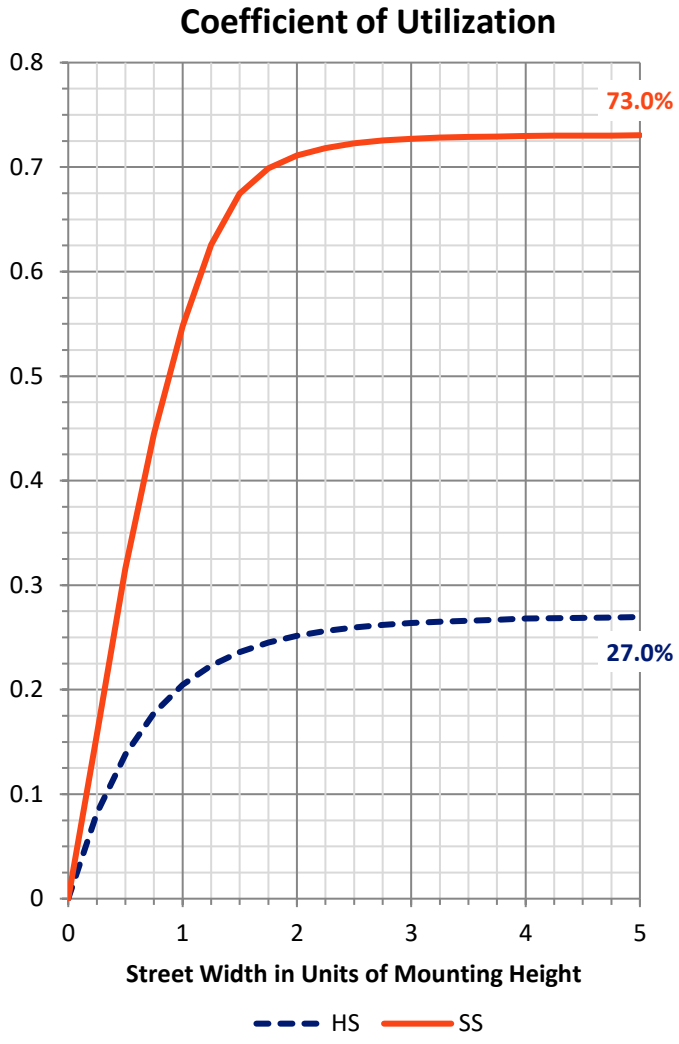
REPORT NUMBER: P641954
CATALOG NUMBER: GWS-SA6B-830-U-T2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3793.4	0.0	3793.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10229.2	0.0	10229.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	14022.6	0.0	14022.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	1.9
10°-20°	836.7	6.0
20°-30°	1483.8	10.6
30°-40°	2271.5	16.2
40°-50°	3162.8	22.6
50°-60°	3624.0	25.8
60°-70°	1862.1	13.3
70°-80°	468.8	3.3
80°-90°	50.1	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°	14022.6	100.0
0°-180°	14022.6	100.0



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

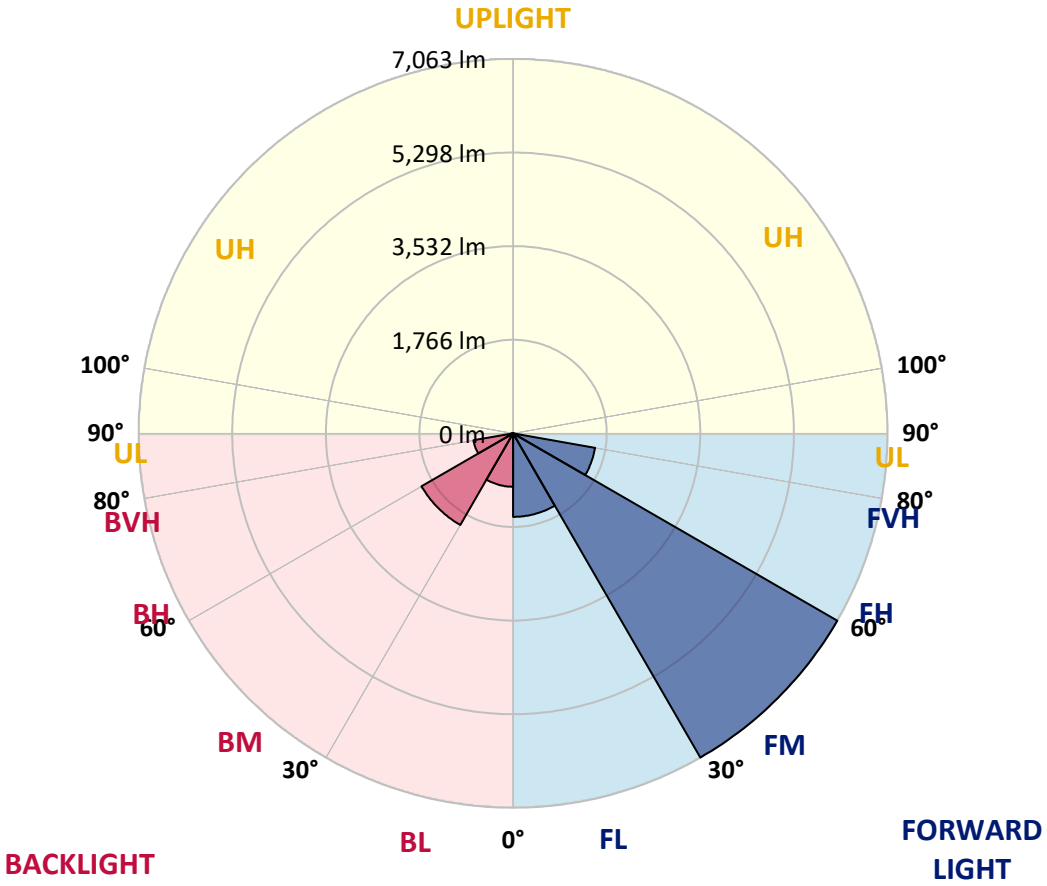
Scaled Data Report

REPORT NUMBER: P641954
CATALOG NUMBER: GWS-SA6B-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°)	1575.5	11.2			
FM	(30°-60°)	7063.3	50.4			
FH	(60°-80°)	1571.8	11.2			G1/1800
FVH	(80°-90°)	18.5	0.1			G1/100
BL	(0°-30°)	1007.8	7.2	B3/2500		
BM	(30°-60°)	1995.0	14.2	B2/2500		
BH	(60°-80°)	759.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	31.6	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-G2
Type II Short



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

Scaled Data Report

REPORT NUMBER: P641954
CATALOG NUMBER: GWS-SA6B-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	*2626.1*	2626.1
2.5°	2821.4	2828.7	2821.4	2833.5	2809.4	2798.5	2772.0	2732.2	2700.9	*2696.0*	2661.1
5°	3040.9	3056.5	3046.9	3042.1	3009.5	2985.4	2945.6	2866.0	2800.9	*2791.3*	2722.6
7.5°	3181.9	3192.8	3192.8	3196.4	3184.4	3156.6	3114.4	3020.4	2928.7	*2914.3*	2810.6
10°	3229.0	3237.4	3253.1	3283.2	3307.3	3315.8	3288.0	3197.6	3085.5	*3071.0*	2926.3
12.5°	3239.8	3249.5	3273.6	3329.0	3395.4	3455.6	3460.5	3394.2	3268.8	*3253.1*	3060.2
15°	3260.3	3270.0	3302.5	3371.2	3468.9	3584.7	3655.8	3610.0	3471.3	*3454.4*	3212.1
17.5°	3257.9	3268.8	3317.0	3408.6	3540.0	3707.6	3845.1	3864.4	3720.9	*3692.0*	3384.5
20°	3251.9	3261.5	3313.4	3425.5	3588.3	3818.6	4067.0	4167.0	4012.7	*3986.2*	3585.9
22.5°	3300.1	3311.0	3350.7	3443.6	3613.6	3904.2	4271.9	4513.1	4358.7	*4321.4*	3817.4
25°	3408.6	3424.3	3448.4	3512.3	3659.4	3980.1	4481.7	4904.9	4747.0	*4702.4*	4069.4
27.5°	3576.2	3595.5	3629.3	3659.4	3761.9	4076.6	4690.3	5343.8	5185.9	*5138.9*	4335.8
30°	3781.2	3806.5	3849.9	3870.4	3940.4	4218.9	4917.0	5796.0	5704.3	*5639.2*	4636.1
32.5°	4064.5	4099.5	4140.5	4146.5	4188.7	4434.7	5141.3	6244.5	6243.3	*6197.5*	4977.3
35°	4433.5	4470.9	4479.3	4487.8	4508.3	4731.3	5412.6	6653.3	6811.2	*6758.2*	5348.7
37.5°	4836.2	4890.5	4903.7	4866.4	4895.3	5088.2	5717.6	6981.2	7305.6	*7248.9*	5708.0
40°	5266.7	5288.4	5324.5	5265.5	5301.6	5497.0	6016.6	7191.0	7674.5	*7614.2*	5991.3
42.5°	5575.3	5615.1	5669.4	5647.7	5668.2	5846.6	6226.4	7292.3	7937.4	*7877.1*	6195.1
45°	5910.5	5922.6	5957.5	5952.7	5964.8	6131.2	6377.1	7336.9	8172.5	*8118.2*	6368.7
47.5°	6202.3	6220.4	6243.3	6216.8	6190.3	6298.8	6500.1	7375.5	8443.8	*8378.7*	6550.8
50°	6483.3	6498.9	6526.7	6449.5	6350.6	6378.4	6560.4	7428.5	8698.2	*8652.4*	6694.3
52.5°	6535.1	6552.0	6682.2	6697.9	6571.3	6473.6	6666.5	7545.5	8847.7	*8818.8*	6746.1
55°	5882.8	5912.9	6172.2	6470.0	6782.3	6750.9	6836.5	7607.0	8906.8	*8914.0*	6838.9
57.5°	*4566.1*	*4609.5*	*4988.1*	*5396.9*	*6054.0*	*6597.8*	*6858.2*	*7591.3*	*8886.3*	*8926.1*	*6934.2*
60°	2995.1	3020.4	3468.9	3927.1	4608.3	5360.7	6138.4	7309.2	8704.2	*8760.9*	6910.1
62.5°	1808.6	1837.5	2198.1	2545.3	2946.8	3449.6	4163.4	5874.4	7295.9	*7422.5*	5534.3
65°	1262.4	1301.0	1616.9	1902.7	2041.3	1937.6	2108.8	3280.8	4545.6	*4598.7*	3382.1
67.5°	915.2	941.7	1200.9	1540.9	1694.1	1368.5	1043.0	1452.9	1979.8	*1999.1*	1395.0
70°	599.3	629.4	864.5	1173.2	1383.0	1109.3	780.1	786.1	833.2	*842.8*	810.3
72.5°	329.2	347.3	534.1	778.9	817.5	663.2	608.9	653.5	686.1	*686.1*	694.5
75°	170.0	185.7	218.2	256.8	309.9	362.9	438.9	505.2	540.2	*542.6*	539.0
77.5°	86.8	92.8	117.0	126.6	138.7	161.6	209.8	268.9	300.2	*312.3*	309.9
80°	41.0	43.4	49.4	57.9	71.1	90.4	113.3	135.0	154.3	*156.7*	170.0
82.5°	21.7	24.1	26.5	31.3	38.6	48.2	66.3	79.6	91.6	*94.0*	104.9
85°	8.4	9.6	10.9	12.1	16.9	20.5	27.7	37.4	45.8	*45.8*	54.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	6.0	8.4	*8.4*	14.5
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: P641954
CATALOG NUMBER: GWS-SA6B-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2652.6	2617.7	2602.0	2576.7	2556.2	2533.3	2515.2	2501.9	2493.5	2488.6	2483.8
5°	2696.0	2643.0	2600.8	2550.1	2515.2	2481.4	2453.7	2434.4	2424.7	2417.5	2412.7
7.5°	2763.6	2692.4	2612.8	2534.5	2473.0	2418.7	2383.7	2363.2	2350.0	2345.2	2341.5
10°	2856.4	2757.5	2626.1	2501.9	2410.3	2351.2	2327.1	2317.4	2318.6	2316.2	2315.0
12.5°	2961.3	2826.2	2622.5	2444.0	2342.7	2307.8	2309.0	2324.7	2342.7	2347.6	2348.8
15°	3074.6	2893.8	2587.5	2369.3	2289.7	2293.3	2324.7	2362.0	2395.8	2409.1	2411.5
17.5°	3197.6	2950.4	2523.6	2287.3	2246.3	2284.9	2342.7	2404.2	2453.7	2475.4	2481.4
20°	3335.1	2998.7	2433.2	2206.5	2205.3	2269.2	2353.6	2434.4	2497.1	2526.0	2530.8
22.5°	3481.0	3028.8	2322.3	2131.7	2163.1	2248.7	2345.2	2429.6	2495.9	2524.8	2530.8
25°	3628.1	3038.5	2200.5	2063.0	2119.7	2216.1	2304.2	2371.7	2434.4	2459.7	2464.5
27.5°	3765.5	3010.7	2084.7	2003.9	2079.9	2167.9	2227.0	2263.2	2306.6	2325.9	2329.5
30°	3905.4	2955.3	1987.1	1956.9	2035.3	2101.6	2128.1	2130.5	2147.4	2147.4	2149.8
32.5°	4046.5	2873.3	1901.4	1911.1	1979.8	2023.2	2026.8	1999.1	1978.6	1944.9	1943.6
35°	4209.2	2790.1	1831.5	1859.2	1914.7	1941.2	1930.4	1877.3	1827.9	1772.4	1770.0
37.5°	4359.9	2704.5	1772.4	1806.2	1841.2	1860.5	1835.1	1771.2	1730.2	1673.6	1665.1
40°	4484.1	2627.3	1715.8	1750.7	1767.6	1784.5	1743.5	1691.6	1697.7	1666.3	1665.1
42.5°	4556.5	2552.5	1662.7	1689.2	1700.1	1712.1	1676.0	1637.4	1669.9	1645.8	1647.0
45°	4609.5	2487.4	1614.5	1624.1	1650.7	1668.7	1635.0	1591.6	1598.8	1506.0	1484.3
47.5°	4669.8	2451.3	1568.7	1559.0	1606.0	1637.4	1585.5	1522.8	1479.4	1387.8	1379.4
50°	4733.7	2438.0	1520.4	1493.9	1550.6	1580.7	1520.4	1442.1	1385.4	1336.0	1331.1
52.5°	4755.4	2436.8	1460.1	1415.5	1472.2	1514.4	1463.8	1384.2	1316.7	1268.4	1266.0
55°	4841.0	2471.8	1383.0	1308.2	1361.3	1448.1	1410.7	1296.2	1241.9	1220.2	1217.8
57.5°	*4941.1*	*2477.8*	*1261.2*	*1191.3*	*1264.8*	*1367.3*	*1320.3*	*1221.4*	*1162.3*	*1135.8*	*1133.4*
60°	4900.1	2329.5	1131.0	1102.0	1182.8	1291.3	1247.9	1162.3	1093.6	1068.3	1065.9
62.5°	3734.2	1644.6	1035.7	1024.9	1094.8	1181.6	1173.2	1084.0	1018.8	1000.8	998.4
65°	2246.3	1155.1	944.1	942.9	992.3	1075.5	1086.4	1014.0	945.3	920.0	920.0
67.5°	1110.5	883.8	840.4	834.4	865.7	924.8	970.6	911.5	853.7	829.5	825.9
70°	784.9	778.9	764.4	747.6	753.6	777.7	797.0	747.6	686.1	661.9	657.1
72.5°	678.8	680.0	670.4	657.1	652.3	635.4	618.5	582.4	545.0	519.7	522.1
75°	526.9	529.3	535.3	530.5	517.3	499.2	481.1	435.3	405.1	381.0	376.2
77.5°	307.5	319.5	338.8	334.0	336.4	311.1	303.8	259.2	231.5	214.6	211.0
80°	173.6	180.9	189.3	195.3	188.1	177.2	161.6	137.5	129.0	117.0	114.5
82.5°	104.9	112.1	115.8	120.6	118.2	103.7	91.6	76.0	68.7	62.7	61.5
85°	53.1	57.9	61.5	63.9	56.7	47.0	42.2	33.8	28.9	25.3	25.3
87.5°	13.3	14.5	16.9	14.5	13.3	6.0	4.8	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

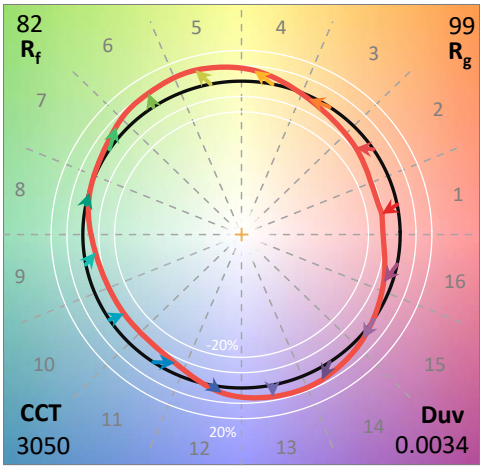
Test Information

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

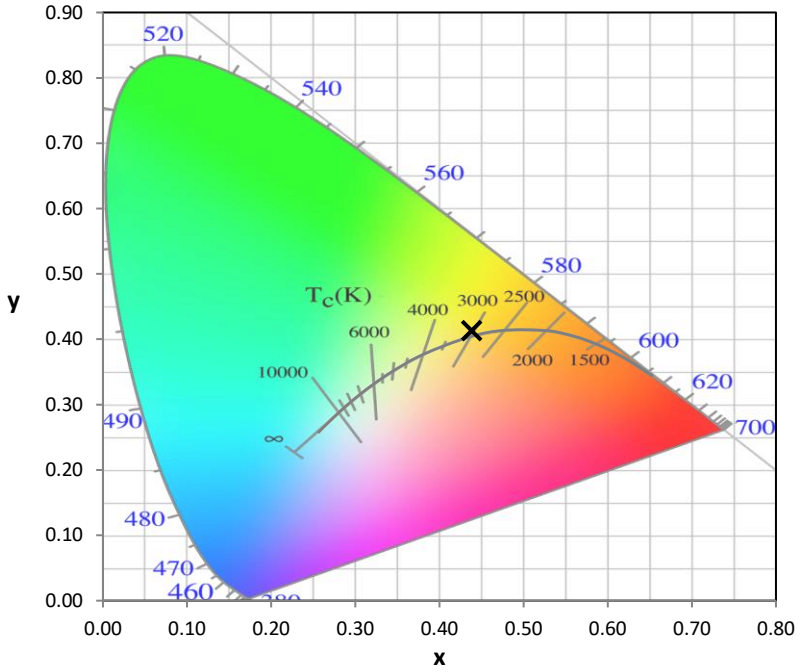
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

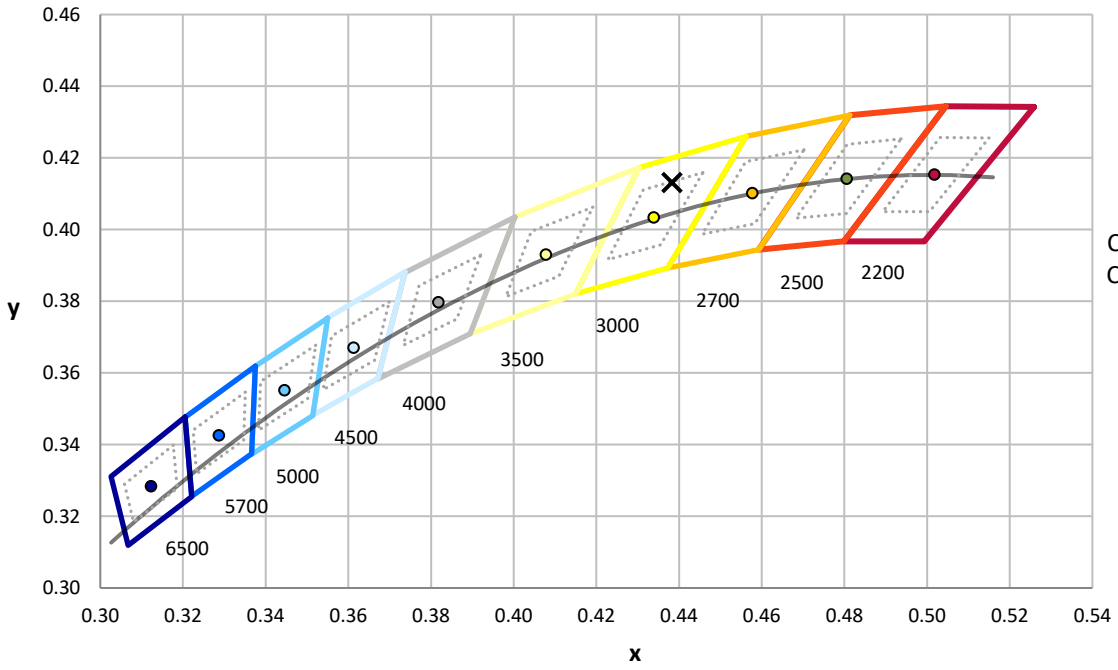
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

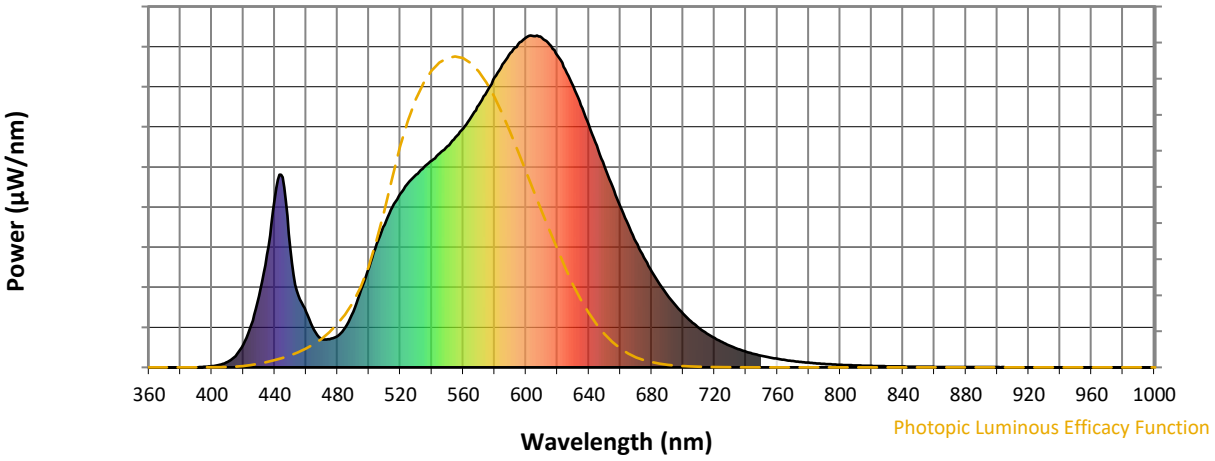


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

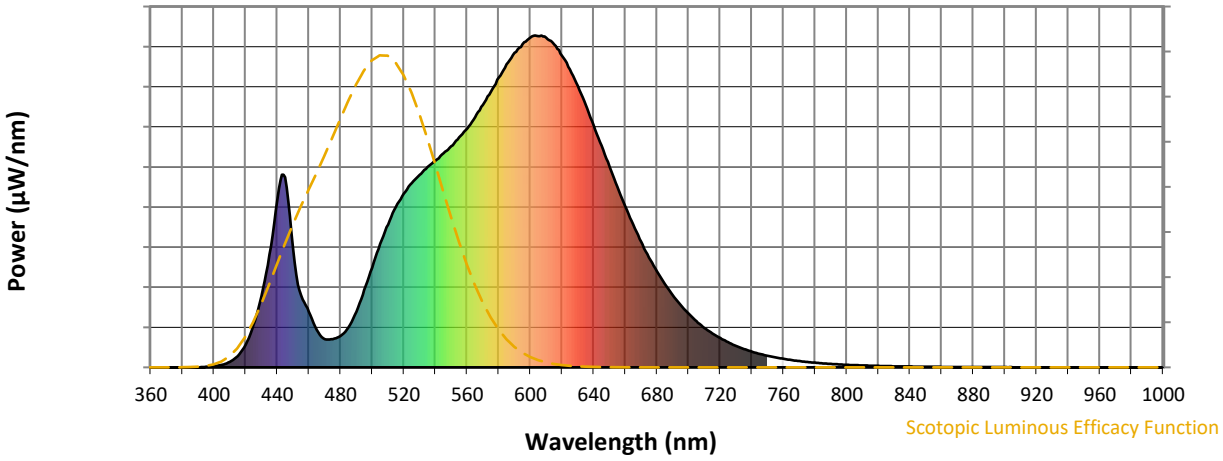


Photopic Lumens: NR

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

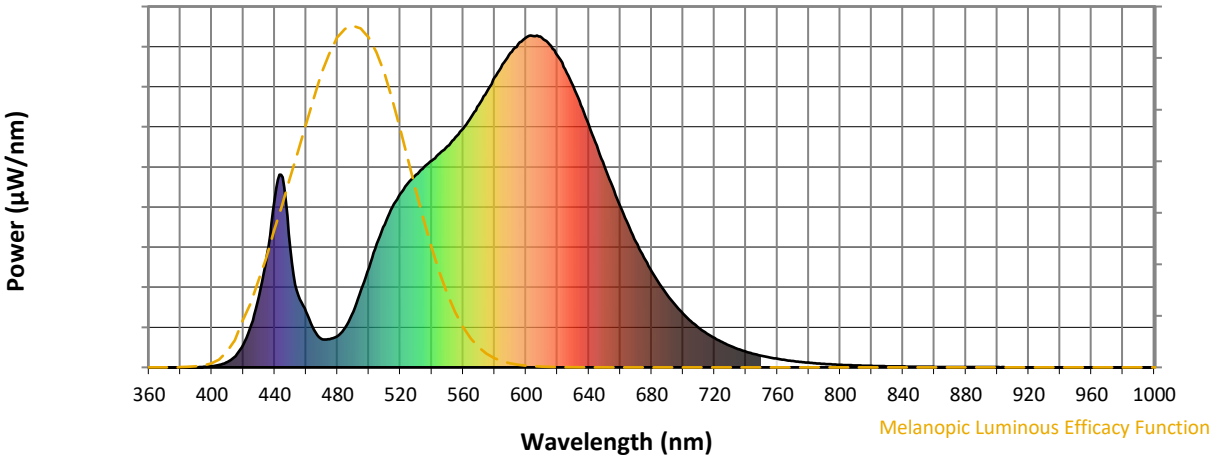


Scotopic Lumens: NR **S/P: 1.27**

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			

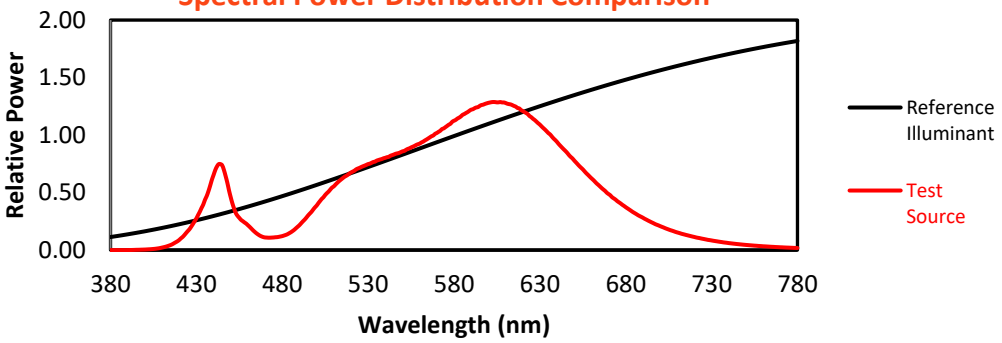
REPORT NUMBER: SP1-2408-195-9

TM-30-18

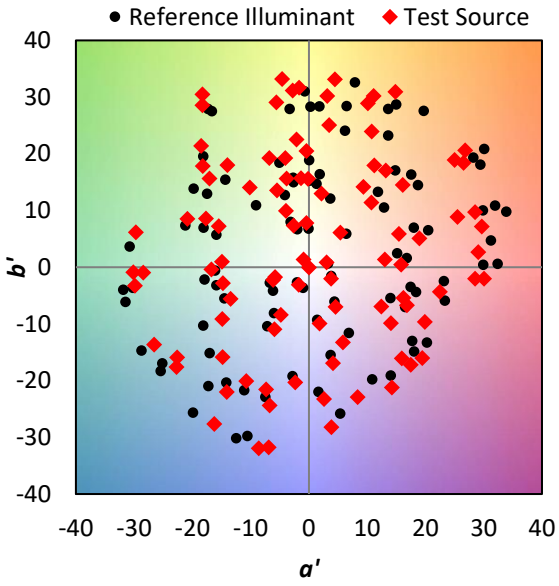
Summary

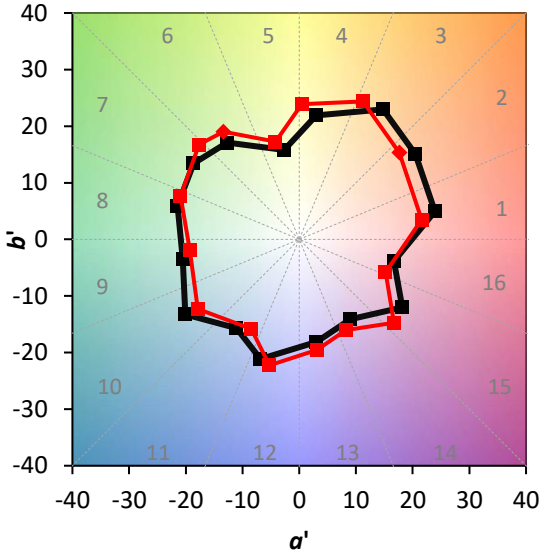
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

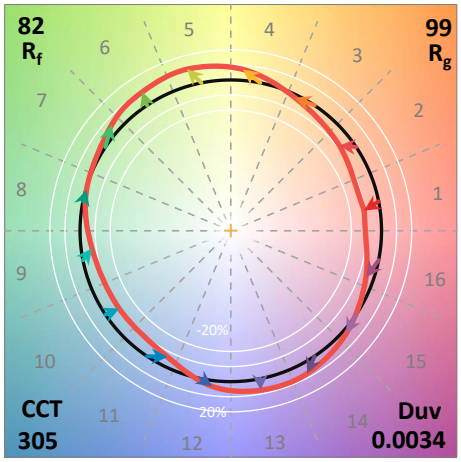
Spectral Power Distribution Comparison

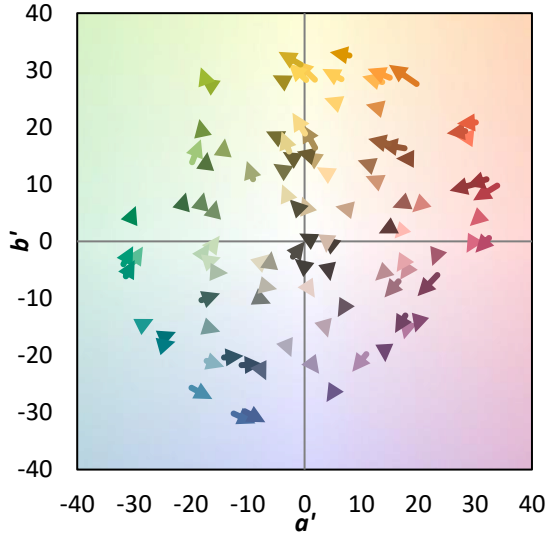


Color Vector Graphics







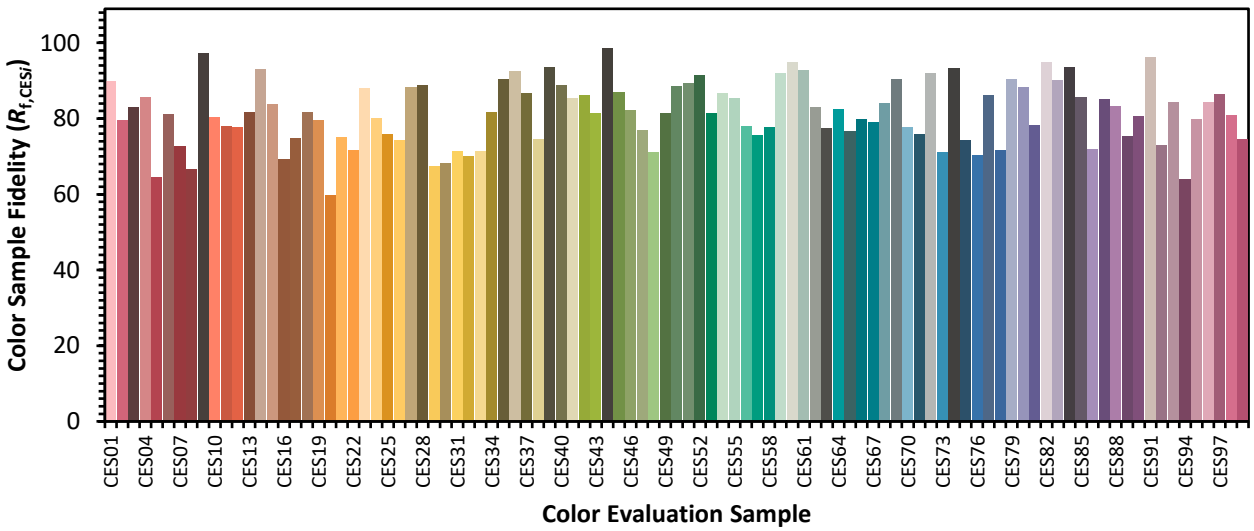


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

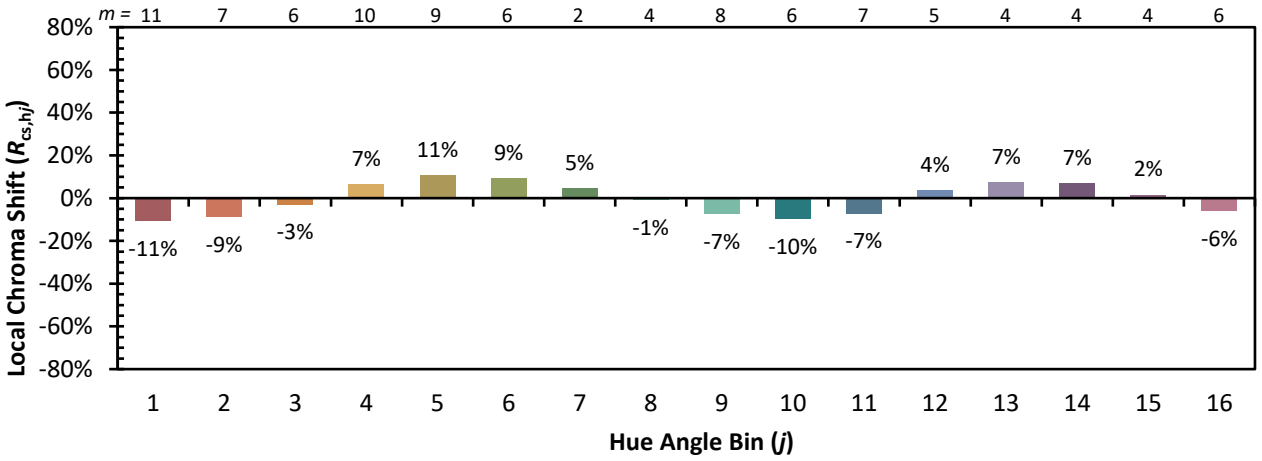
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

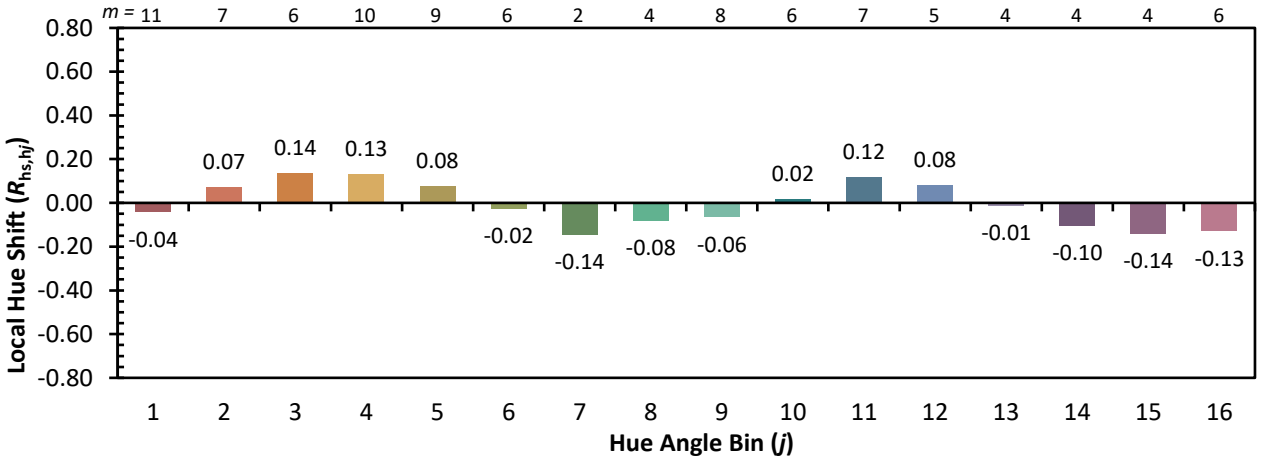


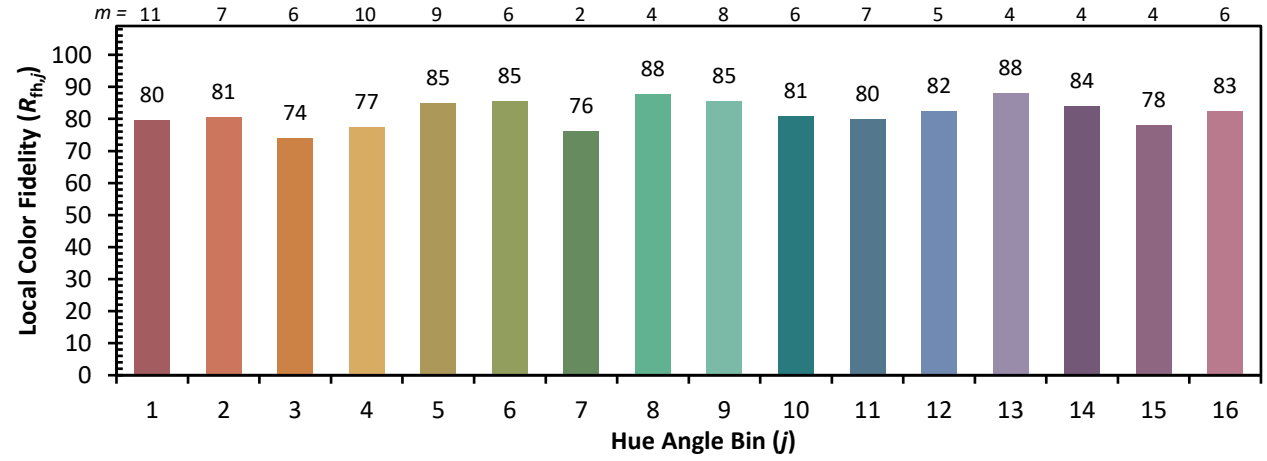
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



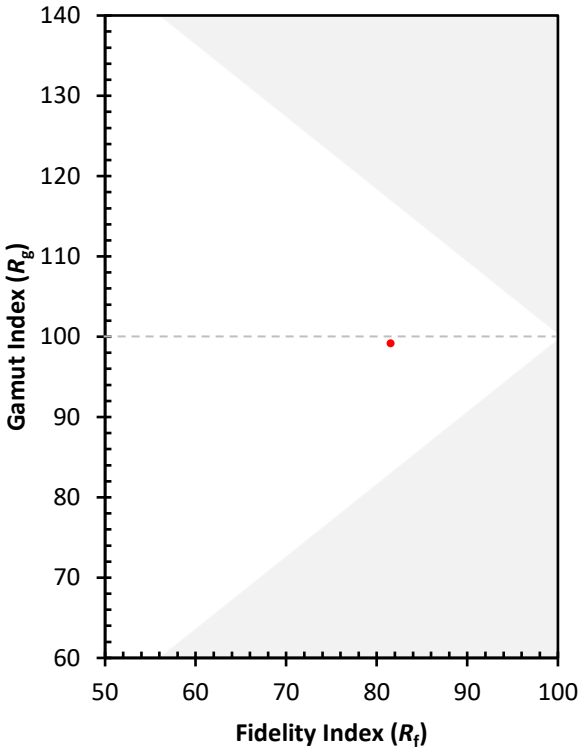


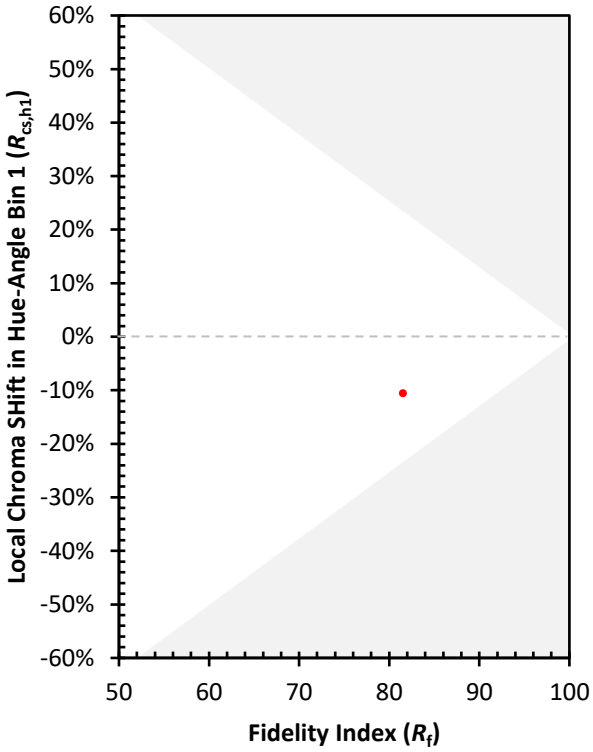


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)