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: P642960

Luminaire Tested: GWS-SA6D-830-U-T4FT-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:	P642960
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T4FT-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27486.3 lumens
Efficiency:	N/A
Efficacy:	111.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G4

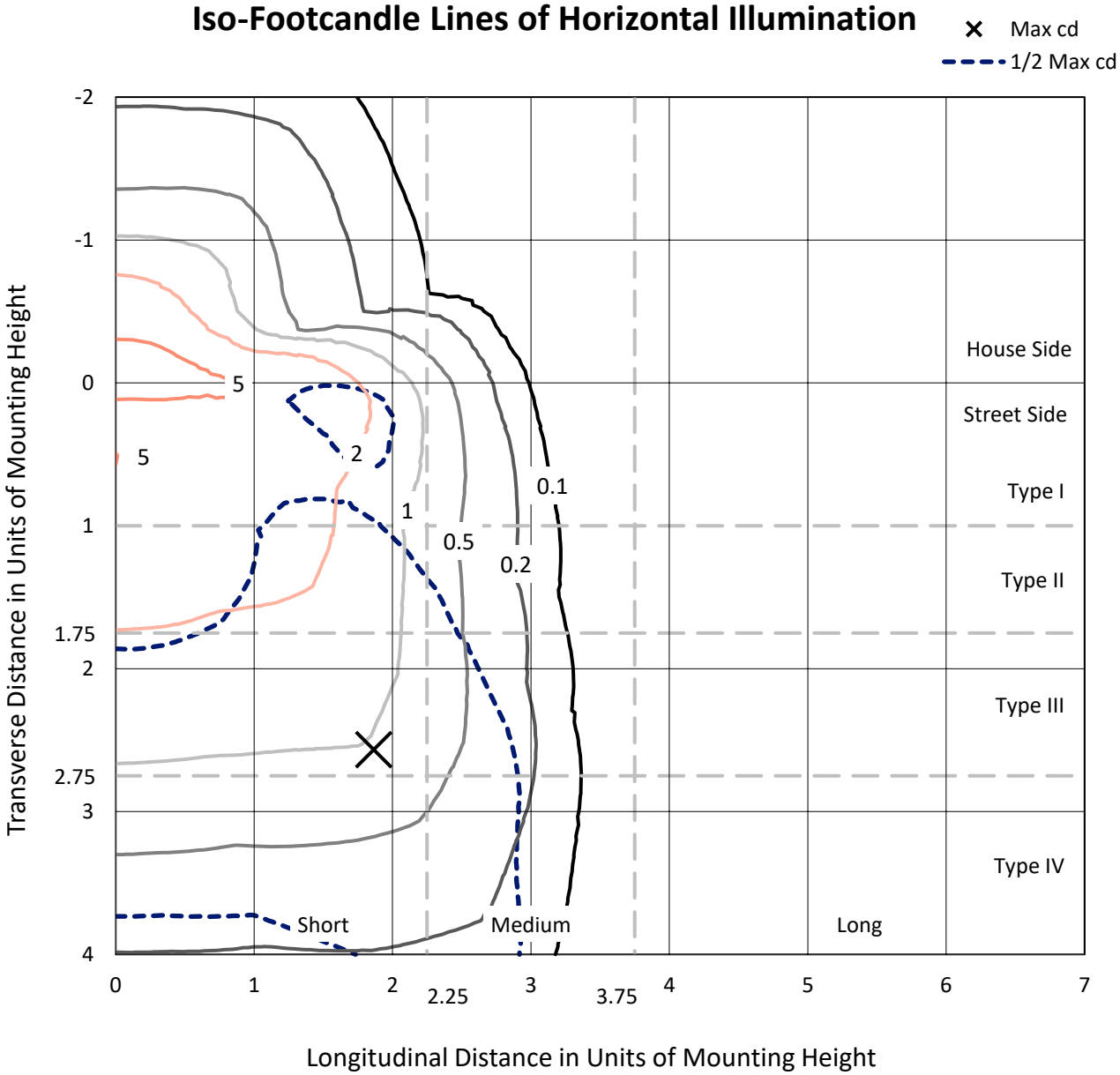
Input Watts (W):	245.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination



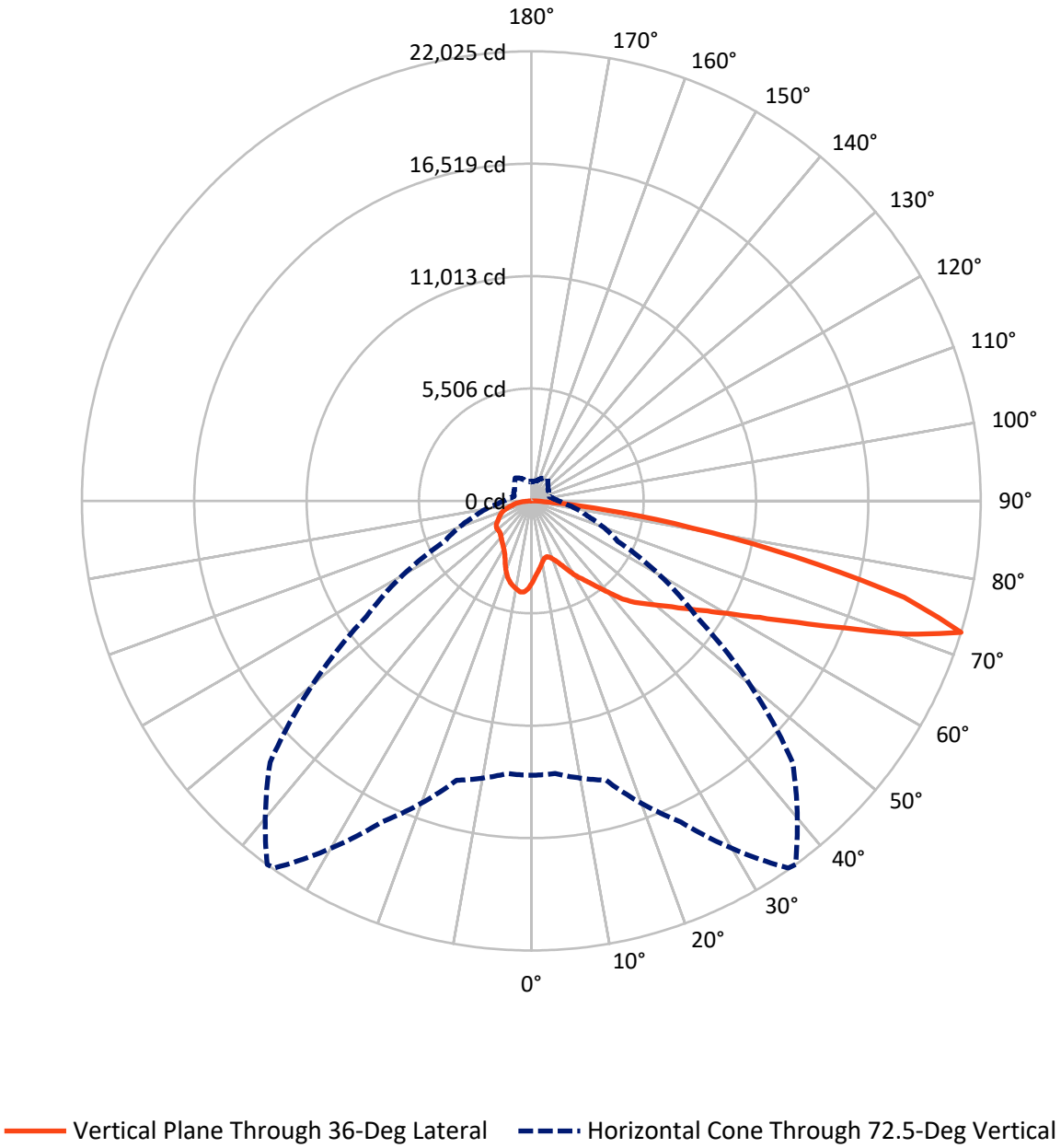
Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

Luminous Intensity Polar Plot



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

Scaled Data Report

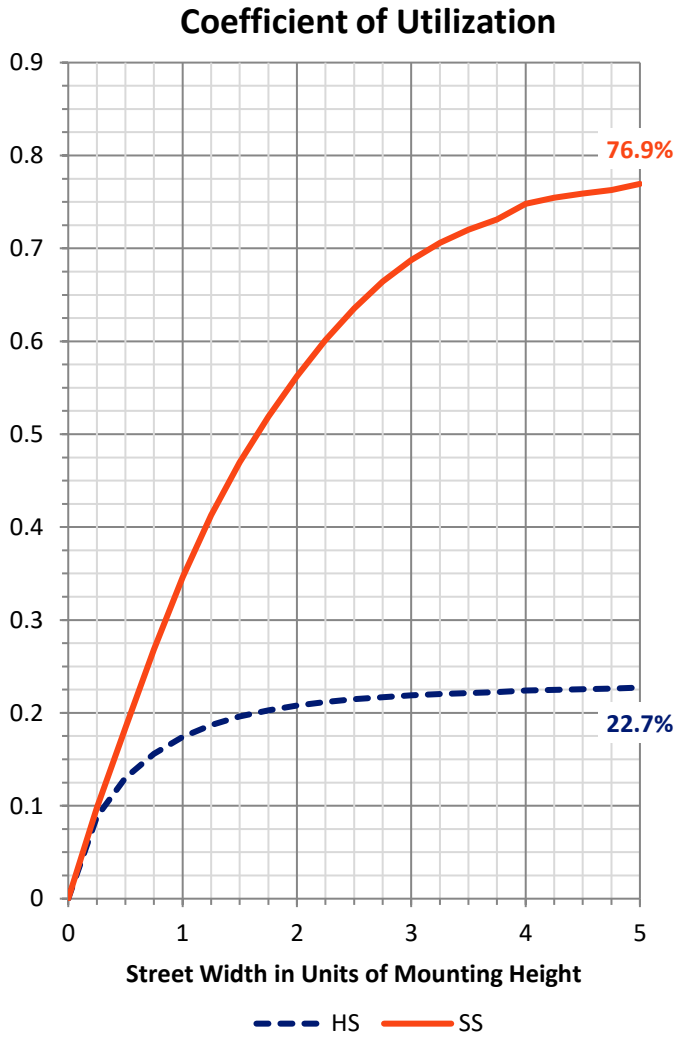
REPORT NUMBER: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6336.8	0.0	6336.8
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	21149.5	0.0	21149.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	27486.3	0.0	27486.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.0	1.4
10°-20°	1060.9	3.9
20°-30°	1757.0	6.4
30°-40°	2631.2	9.6
40°-50°	3838.7	14.0
50°-60°	5463.7	19.9
60°-70°	6902.9	25.1
70°-80°	4918.9	17.9
80°-90°	537.0	2.0
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°	27486.3	100.0
0°-180°	27486.3	100.0



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

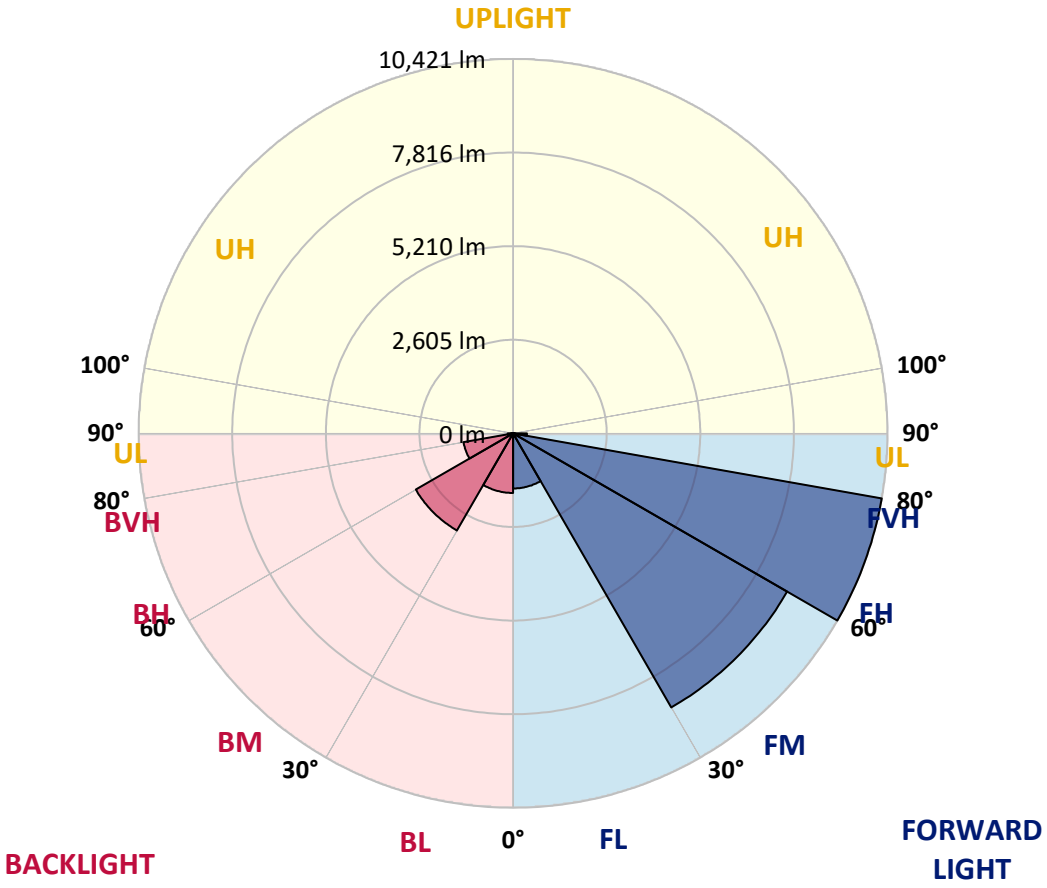
Scaled Data Report

REPORT NUMBER: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1534.5	5.6			
FM	(30°-60°)	8808.7	32.0			
FH	(60°-80°)	10421.0	37.9			G4/12000
FVH	(80°-90°)	385.4	1.4			G3/500
BL	(0°-30°)	1659.4	6.0	B3/2500		
BM	(30°-60°)	3124.9	11.4	B3/5000		
BH	(60°-80°)	1400.9	5.1	B3/2500		G3/2500
BVH	(80°-90°)	151.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4022.7	4022.7	4022.7	4022.7	4022.7	*4022.7*	4022.7	4022.7	4022.7	4022.7	4022.7
2.5°	3669.8	3663.7	3651.5	3688.2	3724.9	*3720.8*	3771.8	3820.8	3873.8	3928.9	4002.3
5°	3376.1	3372.0	3361.8	3416.9	3472.0	*3469.9*	3553.6	3633.1	3741.2	3859.5	4006.4
7.5°	3082.3	3072.1	3086.4	3155.8	3233.3	*3241.4*	3355.7	3486.2	3643.3	3820.8	4028.9
10°	2823.3	2821.2	2827.3	2904.9	3021.1	*3029.3*	3176.2	3357.7	3565.8	3802.4	4079.9
12.5°	2755.9	2751.9	2735.5	2774.3	2862.0	*2874.3*	3035.4	3257.8	3512.8	3812.6	4149.2
15°	2866.1	2855.9	2798.8	2780.4	2823.3	*2833.5*	2970.1	3198.6	3482.2	3831.0	4236.9
17.5°	3055.8	3049.7	2941.6	2866.1	2894.7	*2902.8*	3004.8	3188.4	3474.0	3867.7	4345.1
20°	3333.2	3306.7	3137.4	3023.2	3023.2	*3035.4*	3096.6	3233.3	3484.2	3912.6	4467.4
22.5°	3700.4	3647.4	3408.7	3253.7	3212.9	*3229.2*	3255.7	3345.5	3527.0	3988.1	4620.4
25°	4112.5	4063.5	3780.0	3561.7	3504.6	*3510.7*	3488.3	3504.6	3620.9	4092.1	4810.2
27.5°	4551.1	4518.4	4216.5	3939.1	3849.3	*3849.3*	3769.8	3731.0	3751.4	4210.4	5022.3
30°	4942.8	4897.9	4642.9	4338.9	4220.6	*4220.6*	4069.7	3986.0	3937.1	4355.3	5305.9
32.5°	5148.8	5122.3	4953.0	4720.4	4575.6	*4553.1*	4422.6	4324.7	4210.4	4569.4	5689.4
35°	5418.1	5411.9	5309.9	5128.4	4944.8	*4912.2*	4822.4	4744.9	4547.0	4836.7	6199.3
37.5°	5756.7	5746.5	5730.2	5622.0	5401.7	*5395.6*	5316.1	5222.2	4965.2	5222.2	6817.4
40°	6136.1	6117.8	6097.4	6095.3	5962.7	*5940.3*	5934.2	5828.1	5469.1	5687.3	7462.1
42.5°	6658.3	6595.1	6403.3	6489.0	6586.9	*6566.5*	6644.1	6484.9	6097.4	6240.1	8072.0
45°	7300.9	7145.9	6766.4	6790.9	7037.8	*7078.6*	7347.8	7309.1	6788.9	6878.6	8714.6
47.5°	7686.5	7551.8	7198.9	7178.5	7486.5	*7537.5*	8123.0	8196.4	7533.5	7647.7	9508.1
50°	8002.6	7908.8	7619.1	7647.7	7974.1	*8025.1*	8892.1	9049.1	8235.2	8435.1	10430.2
52.5°	8384.1	8249.5	8025.1	8159.7	8559.5	*8620.7*	9746.8	9916.1	8867.6	9300.0	11384.9
55°	8598.3	8543.2	8547.3	8753.3	9255.2	*9338.8*	10642.3	10613.8	9446.9	10040.5	12102.9
57.5°	9092.0	9071.6	9259.2	9336.8	10067.1	*10175.2*	11537.8	11293.1	9973.2	10613.8	12447.7
60°	9963.0	9912.0	10075.2	10193.5	11070.7	*11223.7*	12537.4	11958.1	10330.2	11040.1	12331.4
62.5°	11187.0	11123.7	11129.9	11317.5	12415.0	*12576.2*	13649.2	12512.9	10440.4	11105.4	11595.0
65°	12708.8	12617.0	12512.9	12767.9	14200.0	*14334.6*	14858.9	12916.8	10177.2	10477.1	10056.9
67.5°	14314.2	14238.7	14116.3	14650.8	16511.2	*16592.8*	16215.4	12882.2	9342.9	8796.2	7054.1
70°	14408.0	14426.4	15005.7	16939.6	19528.3	*19548.7*	17498.5	12184.5	7566.1	5701.6	3514.8
72.5°	*13441.1*	*13410.5*	*14165.3*	*17357.8*	*21955.8*	*22025.1*	*18104.4*	*9871.2*	*4675.5*	*2843.7*	*1648.3*
75°	10917.7	10970.7	11764.3	15187.3	18818.4	*18879.6*	14758.9	5819.9	2221.5	1391.2	1054.6
77.5°	4700.0	4995.8	6560.4	10699.4	13477.8	*13288.1*	7606.9	2358.2	1185.2	991.4	807.8
80°	1356.6	1472.8	2337.8	5087.6	8076.1	*7933.3*	3010.9	883.3	826.2	744.6	579.3
82.5°	438.6	485.5	856.8	2025.7	3618.8	*3614.8*	1142.4	522.2	540.6	505.9	373.3
85°	122.4	140.8	263.2	614.0	1119.9	*1097.5*	330.5	246.8	287.6	291.7	185.6
87.5°	0.0	0.0	2.0	4.1	4.1	*4.1*	8.2	36.7	83.6	106.1	75.5
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: P642960
CATALOG NUMBER: GWS-SA6D-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7	4022.7
2.5°	4047.2	4041.1	4124.7	4190.0	4251.2	4292.0	4304.3	4312.4	4328.7	4336.9	4328.7
5°	4075.8	4106.4	4245.1	4347.1	4428.7	4477.6	4479.7	4475.6	4487.8	4477.6	4471.5
7.5°	4137.0	4196.1	4371.6	4479.7	4532.7	4534.8	4485.8	4428.7	4400.1	4375.7	4367.5
10°	4218.6	4306.3	4498.0	4569.4	4553.1	4477.6	4369.5	4279.8	4228.8	4192.1	4183.9
12.5°	4330.8	4428.7	4610.2	4608.2	4506.2	4371.6	4245.1	4137.0	4063.5	4020.7	4006.4
15°	4436.8	4561.3	4691.8	4596.0	4434.8	4271.6	4108.4	3963.6	3865.7	3798.4	3786.1
17.5°	4567.4	4700.0	4751.0	4557.2	4345.1	4134.9	3916.7	3727.0	3594.4	3514.8	3508.7
20°	4718.4	4836.7	4779.6	4489.9	4228.8	3953.4	3657.6	3445.4	3302.6	3225.1	3231.3
22.5°	4893.8	4979.5	4787.7	4398.1	4067.6	3696.4	3365.9	3161.9	3066.0	3025.2	3027.3
25°	5081.5	5136.5	4773.4	4273.7	3820.8	3382.2	3066.0	2972.2	2964.0	2953.8	2957.9
27.5°	5303.8	5291.6	4730.6	4098.2	3488.3	3017.1	2855.9	2880.4	2913.0	2908.9	2913.0
30°	5601.6	5485.4	4675.5	3855.5	3092.5	2711.1	2731.5	2800.8	2843.7	2847.7	2860.0
32.5°	5942.3	5699.6	4587.8	3525.0	2715.1	2539.7	2615.2	2698.8	2749.8	2760.0	2776.3
35°	6348.3	5944.4	4432.8	3112.9	2443.8	2437.7	2507.1	2564.2	2619.3	2623.4	2623.4
37.5°	6815.4	6189.1	4185.9	2658.0	2276.6	2350.0	2415.3	2427.5	2441.8	2429.6	2435.7
40°	7243.8	6425.8	3835.1	2243.9	2139.9	2272.5	2327.6	2286.8	2241.9	2211.3	2217.4
42.5°	7602.8	6586.9	3370.0	1954.3	2001.2	2203.1	2246.0	2162.3	2074.6	2017.5	2025.7
45°	8006.7	6735.9	2823.3	1758.4	1882.9	2154.2	2182.7	2074.6	1962.4	1876.7	1864.5
47.5°	8563.6	7039.8	2337.8	1621.7	1799.2	2127.6	2174.6	2027.7	1880.8	1752.3	1738.0
50°	9251.1	7470.2	1931.8	1532.0	1760.5	2113.4	2172.5	1976.7	1801.3	1650.3	1640.1
52.5°	10001.8	7890.5	1631.9	1462.6	1721.7	2070.5	2162.3	1919.6	1717.6	1554.4	1542.2
55°	10501.6	8055.7	1430.0	1397.4	1658.5	2003.2	2121.5	1864.5	1591.1	1442.2	1423.9
57.5°	10648.4	7843.5	1289.2	1338.2	1576.9	1909.4	2044.0	1748.2	1513.6	1395.3	1381.0
60°	10395.5	7309.1	1201.5	1289.2	1487.1	1789.0	1909.4	1680.9	1452.4	1346.4	1336.2
62.5°	9681.5	6484.9	1134.2	1238.2	1395.3	1662.5	1823.7	1599.3	1385.1	1301.5	1287.2
65°	8245.4	5318.1	1079.1	1185.2	1307.6	1542.2	1729.9	1517.7	1311.7	1248.4	1232.1
67.5°	5766.9	3735.1	1020.0	1122.0	1219.9	1425.9	1631.9	1442.2	1236.2	1189.3	1173.0
70°	2819.2	1980.8	948.6	1048.5	1126.0	1307.6	1534.0	1350.4	1136.2	1109.7	1087.3
72.5°	*1342.3*	*1107.7*	*864.9*	*948.6*	*997.5*	*1150.5*	*1370.8*	*1217.8*	*1017.9*	*960.8*	*922.0*
75°	899.6	787.4	754.8	830.3	842.5	964.9	1175.0	1050.6	897.6	832.3	799.7
77.5°	681.3	601.8	634.4	701.7	677.3	793.5	966.9	936.3	809.9	750.7	734.4
80°	479.4	438.6	503.9	544.7	526.3	675.2	871.1	801.7	667.1	601.8	589.5
82.5°	301.9	293.8	371.3	377.4	383.5	534.5	716.0	630.3	518.1	426.3	395.7
85°	151.0	167.3	222.4	222.4	220.3	275.4	408.0	354.9	279.5	222.4	216.2
87.5°	51.0	71.4	95.9	77.5	59.2	46.9	53.0	65.3	69.4	67.3	67.3
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

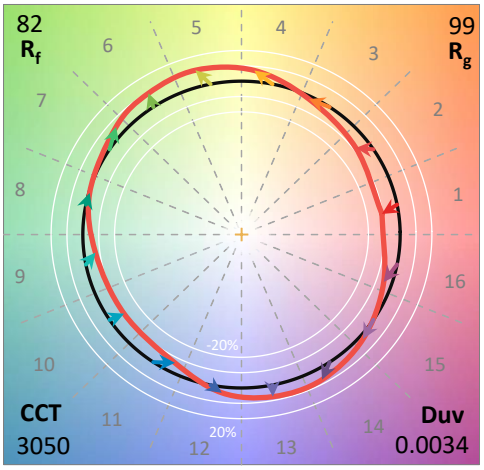
Test Information

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

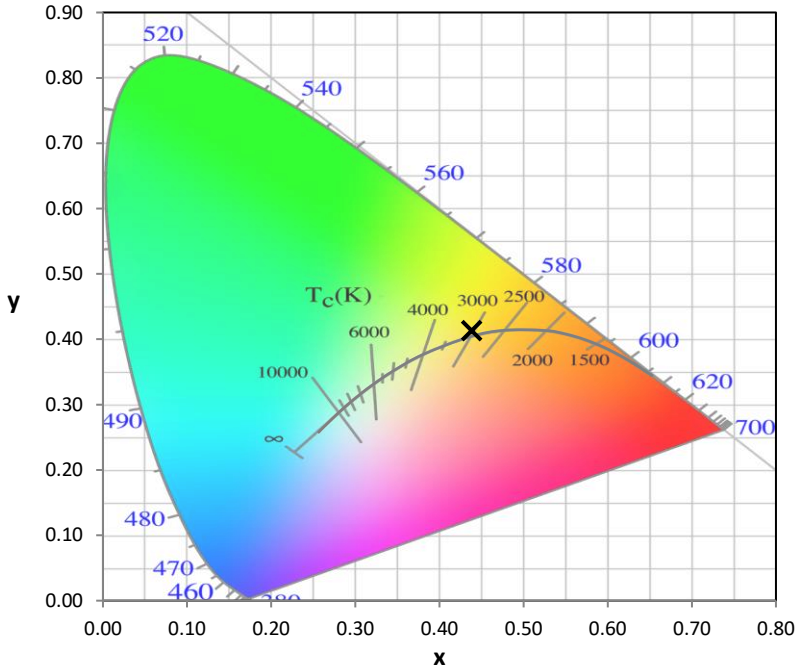
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

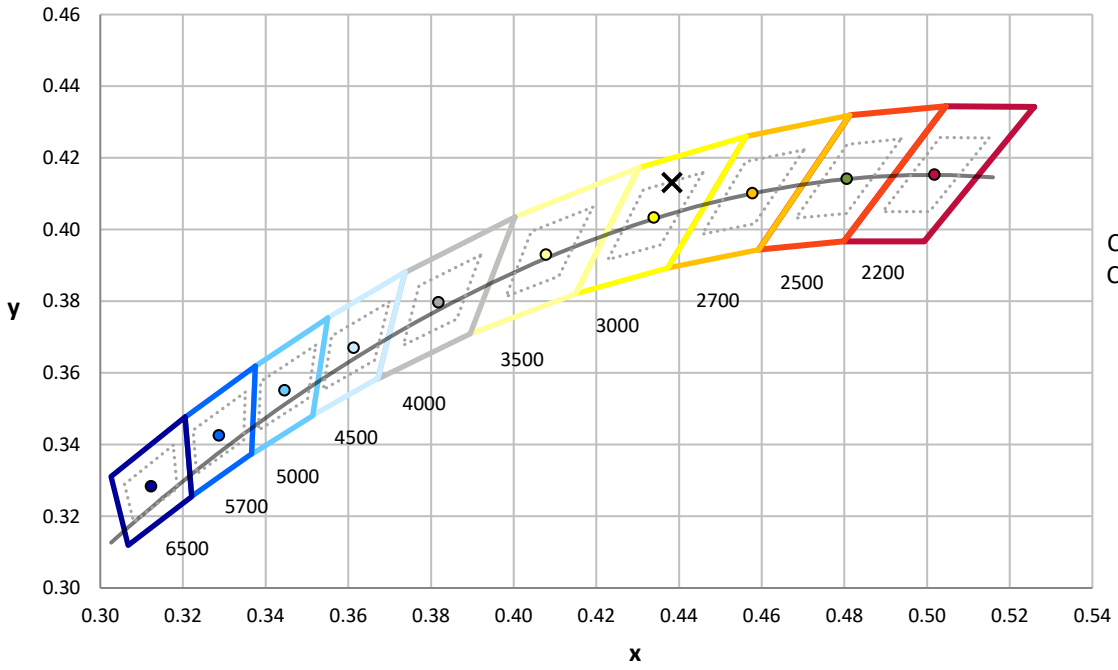
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

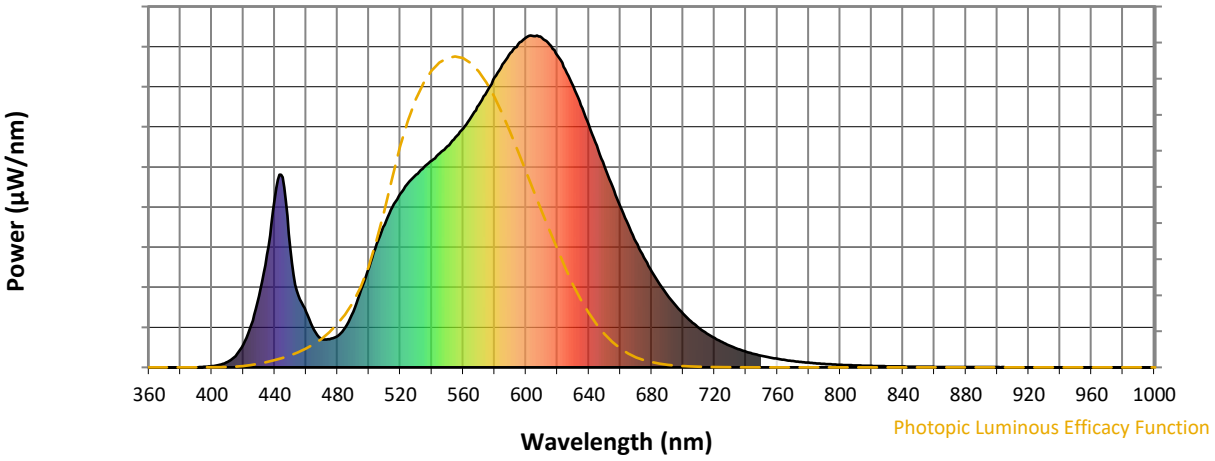


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

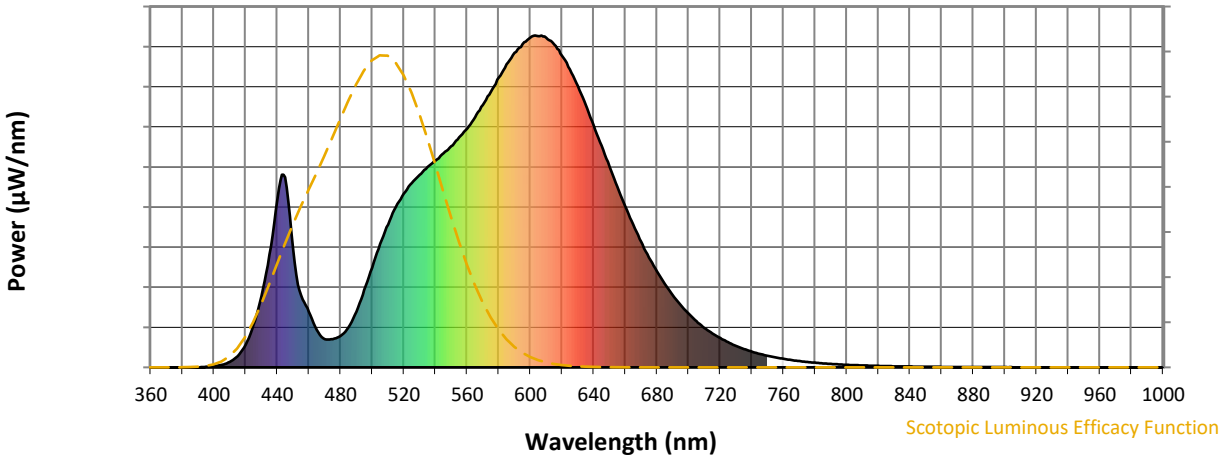


Photopic Lumens: NR

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

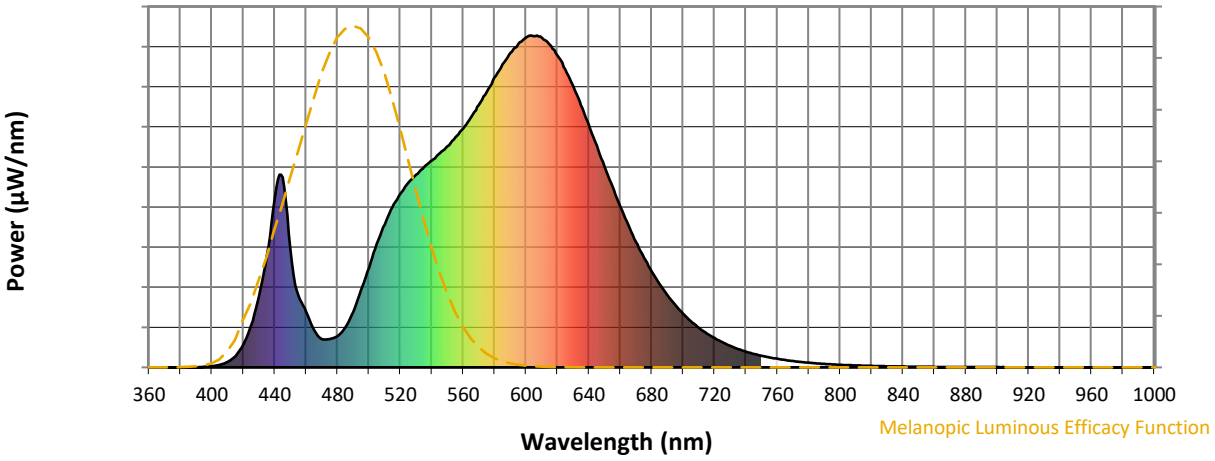


Scotopic Lumens: NR **S/P: 1.27**

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			

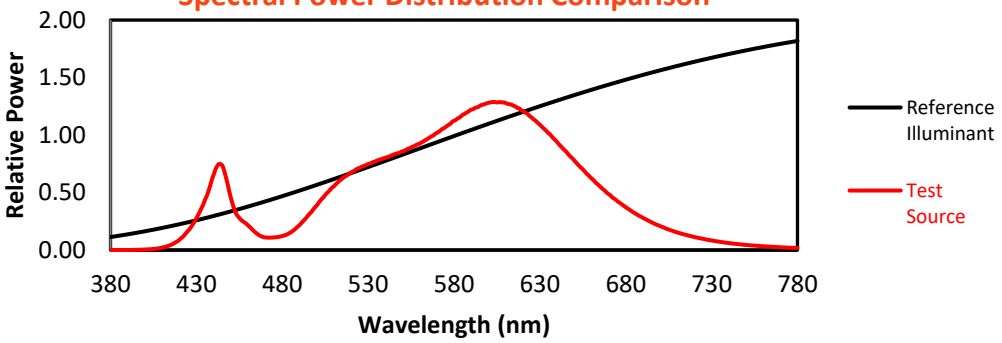
REPORT NUMBER: SP1-2408-195-9

TM-30-18

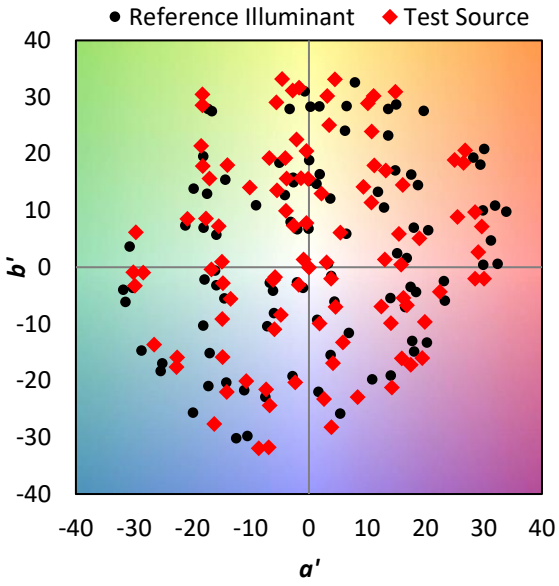
Summary

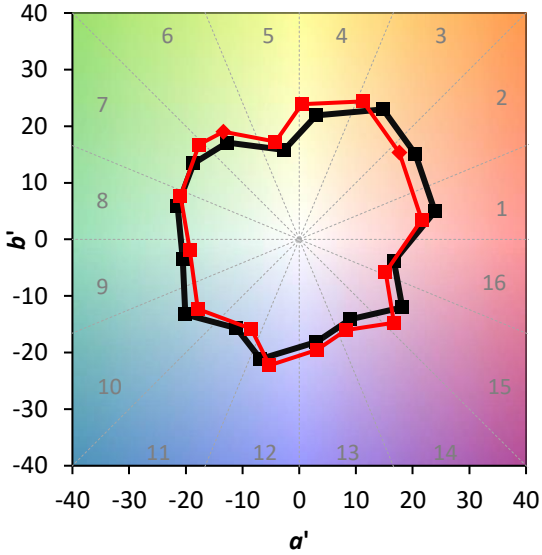
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

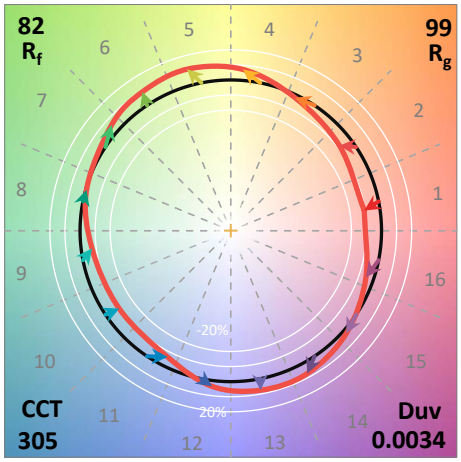
Spectral Power Distribution Comparison

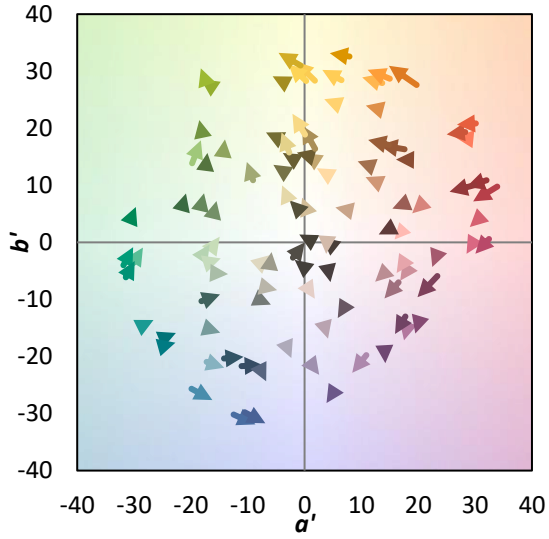


Color Vector Graphics







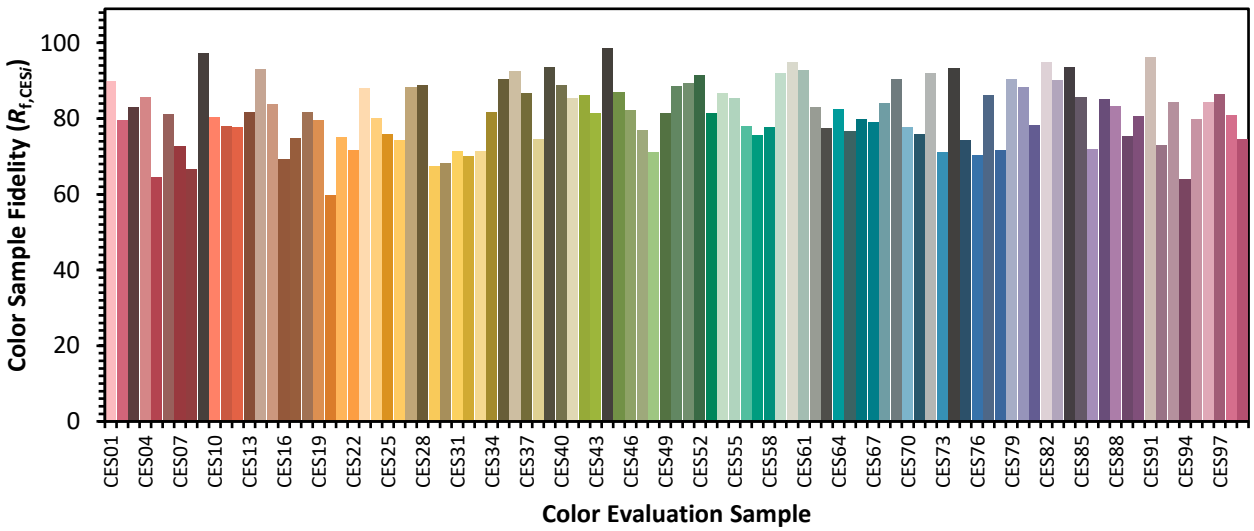


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

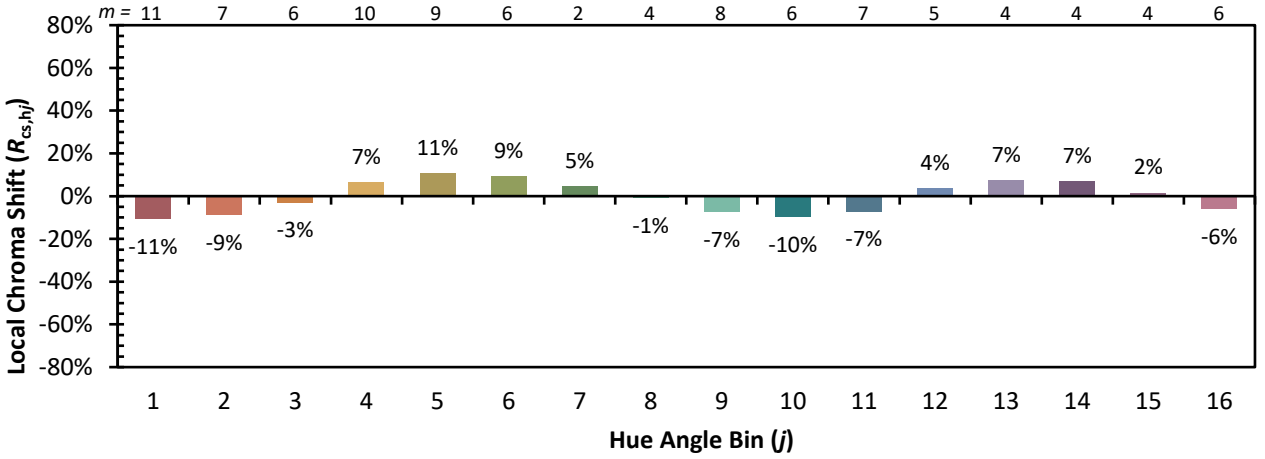
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

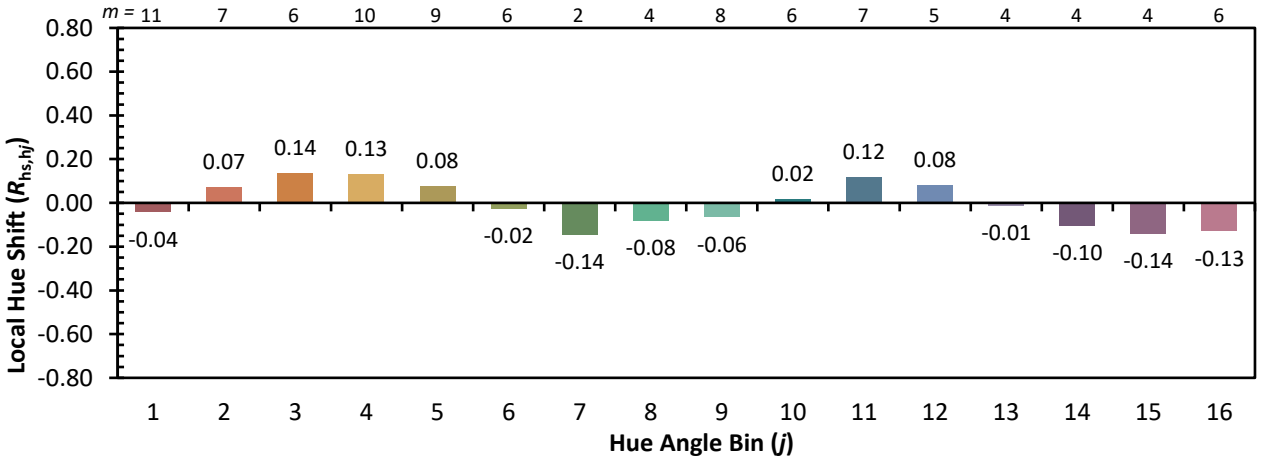


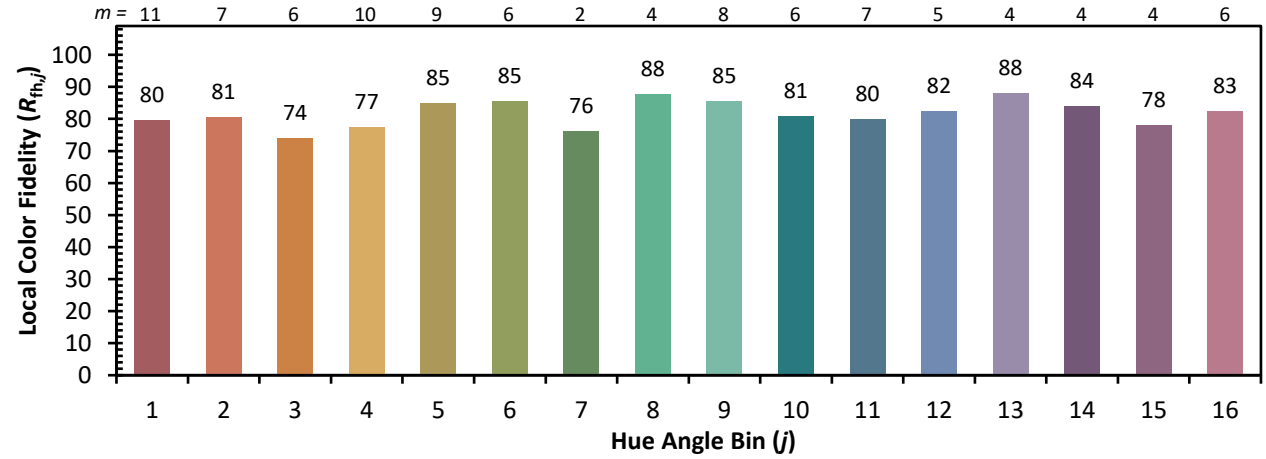
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



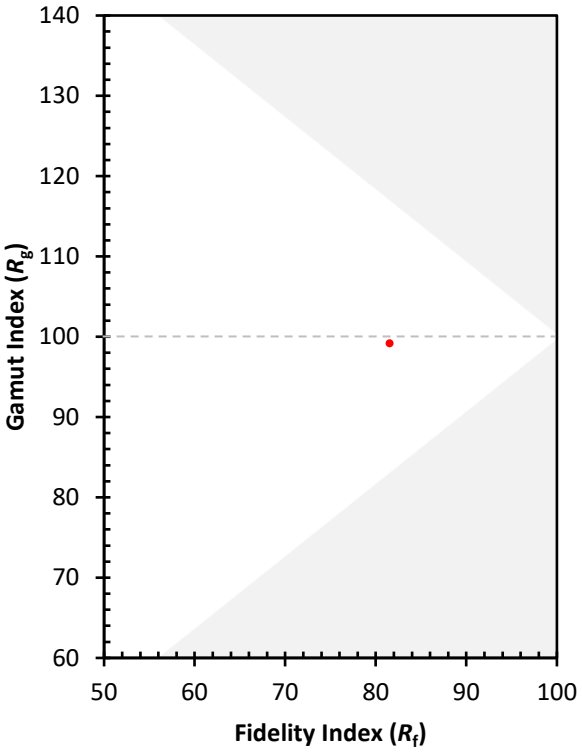


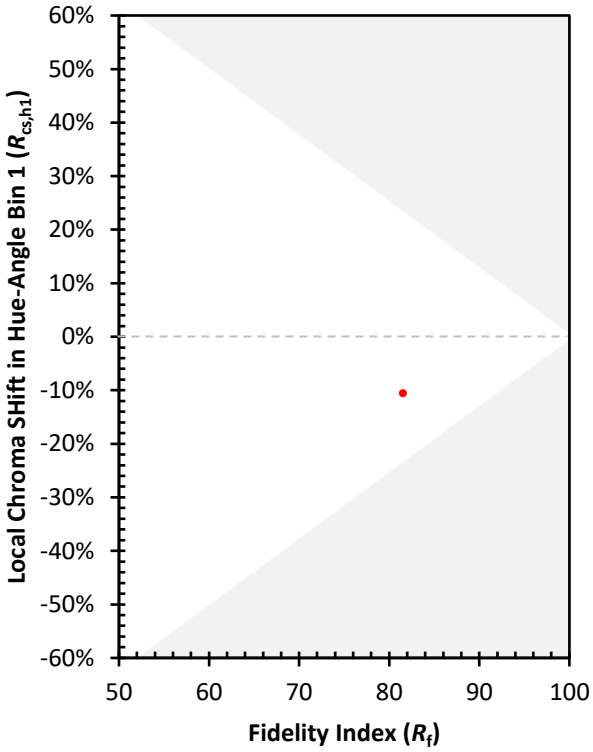


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)