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: P642947

Luminaire Tested: GWS-SA6D-830-U-T2R-W-GRSBK

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:	P642947
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19075.6 lumens
Efficiency:	N/A
Efficacy:	77.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

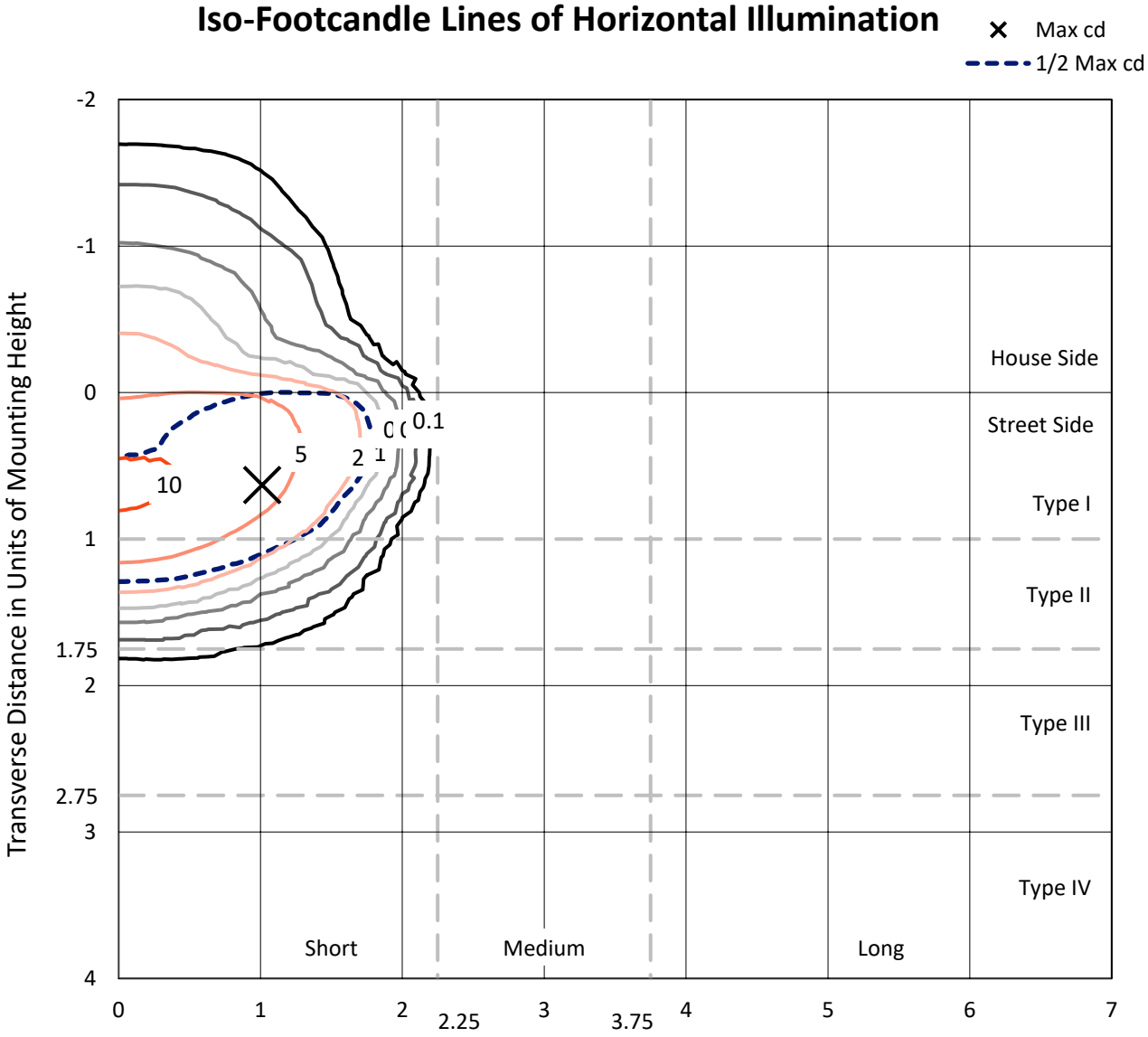
Input Watts (W):	245.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



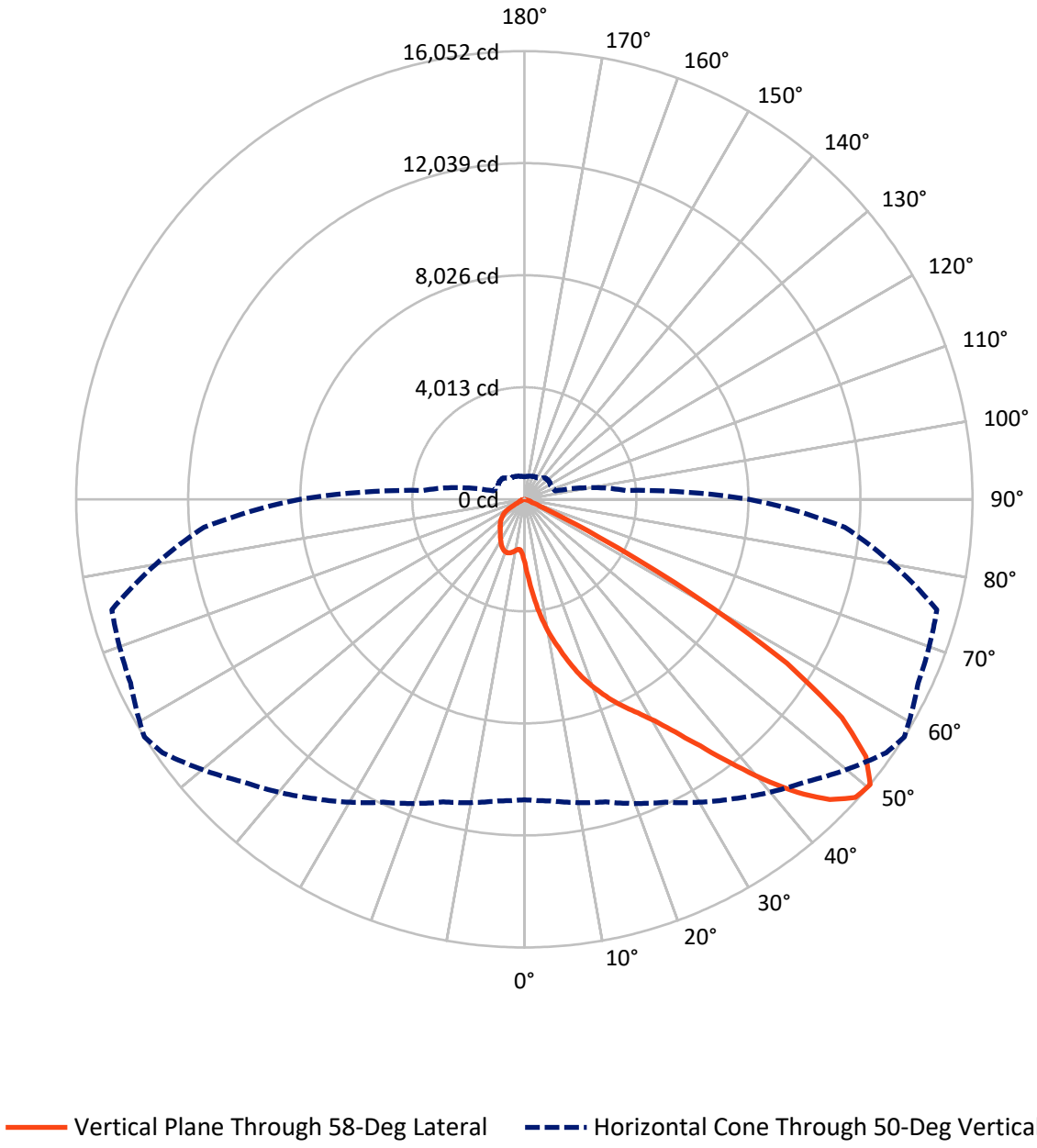
Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



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

Scaled Data Report

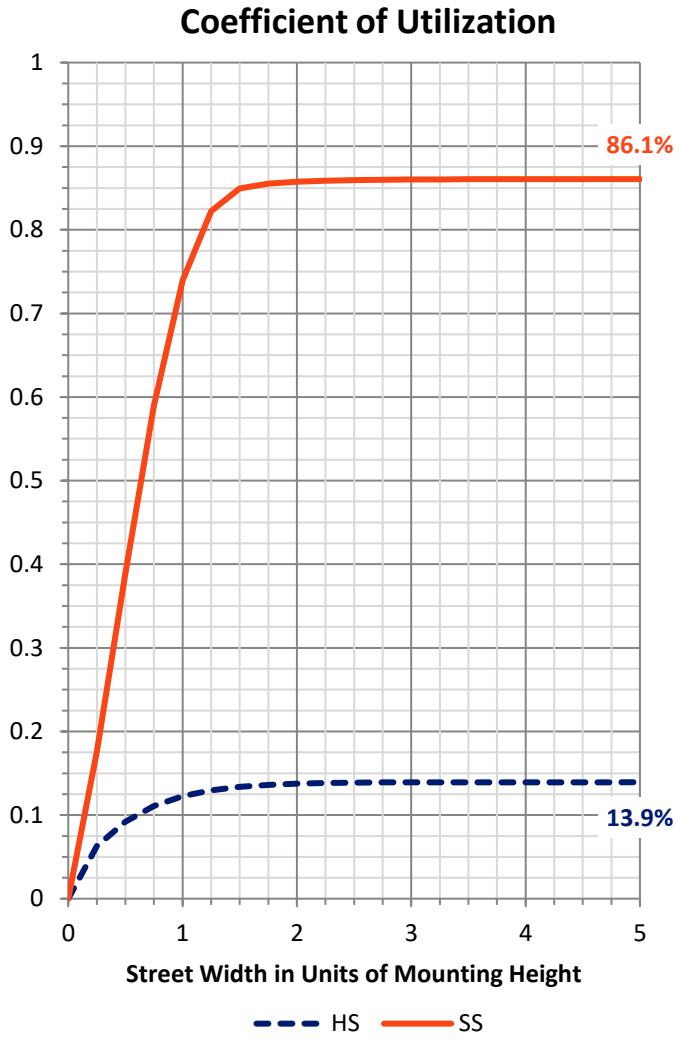
REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.8	0.0	2671.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16403.8	0.0	16403.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	19075.6	0.0	19075.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.5
10°-20°	1117.5	5.9
20°-30°	2261.2	11.9
30°-40°	4000.3	21.0
40°-50°	5831.6	30.6
50°-60°	4674.2	24.5
60°-70°	842.1	4.4
70°-80°	66.4	0.3
80°-90°	0.0	0.0
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°	19075.6	100.0
0°-180°	19075.6	100.0



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

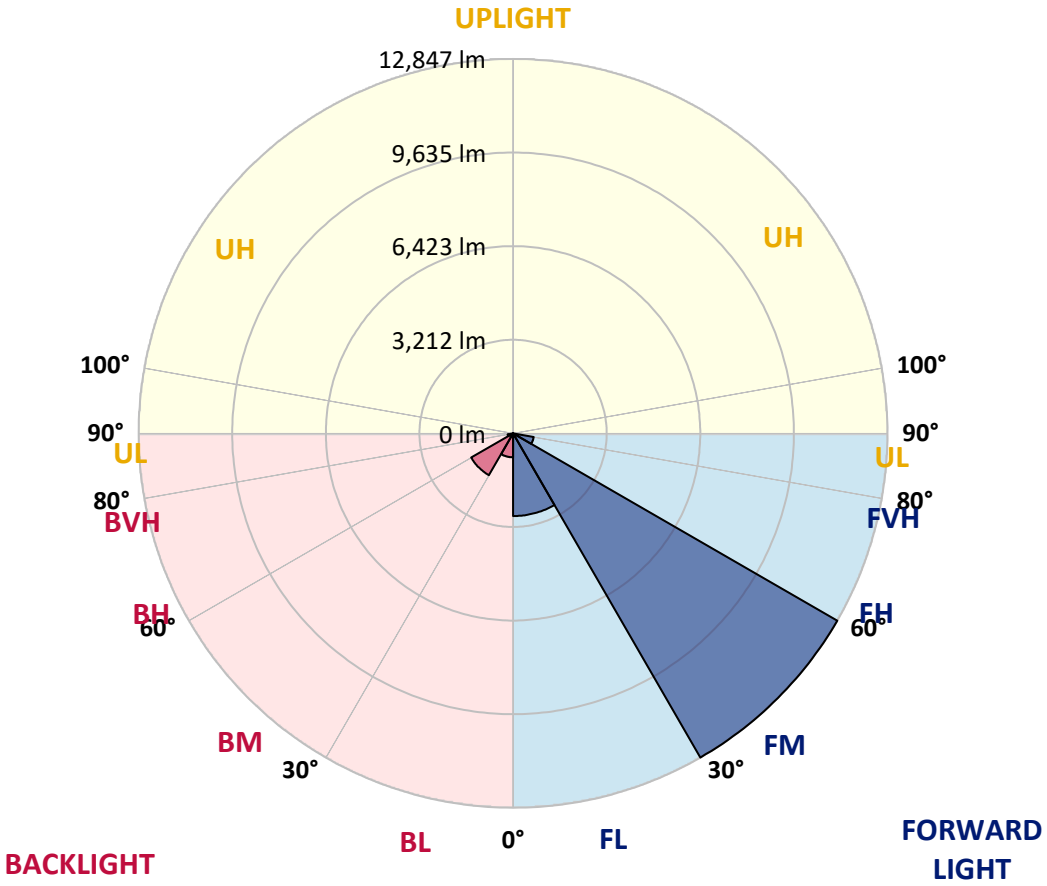
Scaled Data Report

REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2838.4	14.9			
FM	(30°-60°)	12846.8	67.3			
FH	(60°-80°)	718.6	3.8			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	822.5	4.3	B2/1000		
BM	(30°-60°)	1659.3	8.7	B2/2500		
BH	(60°-80°)	189.9	1.0	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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

Scaled Data Report

REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	3371.9	3318.9	3288.3	3263.8	3155.7	2984.3	2872.2	2813.0	2715.1	2549.9	2407.1
5°	4400.0	4361.3	4289.9	4240.9	4102.2	3859.5	3608.6	3508.6	3286.2	2913.0	2578.4
7.5°	5081.3	5052.8	5026.3	4961.0	4830.4	4610.1	4332.7	4228.7	3886.0	3355.6	2806.9
10°	5605.6	5583.2	5552.6	5550.5	5448.5	5250.7	4979.4	4871.2	4500.0	3837.0	3076.1
12.5°	6066.6	6048.2	6042.1	6099.2	6034.0	5887.1	5593.4	5458.7	5065.0	4328.6	3374.0
15°	6382.8	6378.7	6405.2	6517.4	6554.1	6486.8	6240.0	6095.2	5642.3	4822.3	3702.4
17.5°	6527.6	6539.9	6590.9	6784.6	6947.8	7005.0	6815.2	6692.9	6215.5	5322.1	4053.2
20°	6774.4	6770.4	6801.0	6984.6	7184.5	7388.5	7331.3	7227.3	6794.8	5850.4	4442.9
22.5°	7470.0	7410.9	7345.6	7374.2	7445.6	7684.2	7790.3	7737.3	7392.5	6393.0	4844.7
25°	8538.9	8477.7	8267.6	8063.7	7929.0	8037.1	8182.0	8208.5	7986.1	6949.9	5264.9
27.5°	9673.1	9618.0	9381.4	9075.4	8689.9	8502.2	8610.3	8663.4	8569.5	7612.8	5711.7
30°	10735.9	10662.5	10403.4	10024.0	9577.2	9289.6	9167.2	9203.9	9259.0	8398.2	6235.9
32.5°	11657.9	11602.8	11292.8	10893.0	10462.6	10162.7	9877.1	9938.3	10072.9	9359.0	6907.0
35°	12439.2	12410.6	12082.2	11684.4	11229.5	11076.6	10831.8	10844.0	10978.6	10519.7	7725.0
37.5°	13118.5	13069.5	12771.7	12402.5	12041.4	12016.9	11949.6	11955.7	12025.1	11872.1	8665.4
40°	13546.9	13502.0	13289.8	13061.4	12804.3	12808.4	13157.2	13183.8	13104.2	13200.1	9658.8
42.5°	13708.0	13675.4	13561.1	13563.2	13536.7	13657.0	14311.8	14360.8	14075.2	14242.5	10507.4
45°	13428.5	13414.3	13422.4	13716.2	14034.4	14405.6	15256.3	15341.9	14938.1	14934.0	11170.4
47.5°	12526.9	12498.4	12737.0	13236.8	13973.2	14695.3	15827.4	15960.0	15541.9	15329.7	11586.5
50°	10760.4	10842.0	11219.3	11970.0	13089.9	14297.5	15821.3	16051.8	15564.3	15295.0	11517.2
52.5°	7794.4	7778.1	8604.2	9636.4	10999.0	13024.6	14980.9	15317.5	15019.6	14954.4	11362.1
55°	4240.9	4389.8	4946.7	6313.4	8014.7	10615.5	13061.4	13795.7	14140.5	14829.9	11641.6
57.5°	1558.5	1623.7	1972.6	2939.5	4243.0	6601.1	9977.1	11084.7	12149.5	14483.2	11594.7
60°	628.3	640.5	779.2	1081.1	1782.9	3359.7	5985.0	6968.2	7971.9	11086.8	8898.0
62.5°	456.9	473.3	528.3	632.4	901.6	1468.7	2580.5	3000.7	3280.1	5491.4	4383.7
65°	369.2	381.5	426.3	473.3	595.6	789.4	832.3	801.7	797.6	1419.8	1005.7
67.5°	306.0	318.2	350.9	383.5	428.4	393.7	285.6	299.9	244.8	242.7	197.9
70°	224.4	238.7	271.3	306.0	257.0	106.1	165.2	244.8	185.6	155.0	151.0
72.5°	169.3	179.5	210.1	199.9	75.5	40.8	110.2	177.5	142.8	114.2	112.2
75°	126.5	132.6	106.1	32.6	8.2	10.2	40.8	73.4	79.6	65.3	65.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.1	8.2	10.2	12.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

Scaled Data Report

REPORT NUMBER: P642947
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	2325.5	2239.8	2117.4	2015.4	1937.9	1862.4	1805.3	1748.2	1746.1	1717.6	1711.5
5°	2423.4	2268.3	2044.0	1882.8	1784.9	1725.7	1684.9	1664.5	1654.3	1644.1	1640.1
7.5°	2564.1	2341.8	2031.7	1860.4	1778.8	1740.0	1711.5	1699.2	1693.1	1684.9	1682.9
10°	2737.5	2447.9	2076.6	1903.2	1831.8	1795.1	1764.5	1746.1	1735.9	1721.7	1717.6
12.5°	2945.6	2578.4	2148.0	1974.6	1899.1	1850.2	1809.4	1782.9	1768.6	1750.2	1746.1
15°	3170.0	2719.2	2227.6	2039.9	1950.1	1886.9	1835.9	1795.1	1768.6	1746.1	1740.0
17.5°	3402.5	2862.0	2298.9	2084.8	1974.6	1899.1	1825.7	1770.6	1738.0	1709.4	1701.3
20°	3663.6	3008.8	2345.9	2092.9	1966.4	1866.5	1780.8	1711.5	1678.8	1640.1	1631.9
22.5°	3937.0	3145.5	2366.3	2074.6	1921.6	1805.3	1713.5	1642.1	1595.2	1554.4	1542.2
25°	4202.2	3267.9	2356.1	2023.6	1854.3	1719.6	1625.8	1552.3	1501.4	1460.6	1450.4
27.5°	4483.7	3369.9	2319.3	1948.1	1762.5	1625.8	1536.0	1472.8	1425.9	1381.0	1370.8
30°	4799.8	3463.7	2260.2	1856.3	1654.3	1529.9	1460.6	1417.7	1366.7	1319.8	1305.5
32.5°	5181.3	3547.4	2174.5	1746.1	1558.5	1446.3	1407.5	1374.9	1315.7	1266.8	1256.6
35°	5617.8	3616.7	2066.4	1631.9	1464.6	1393.2	1385.1	1342.2	1264.7	1207.6	1195.4
37.5°	6123.7	3684.0	1937.9	1519.7	1395.3	1368.8	1370.8	1297.4	1203.5	1134.2	1126.0
40°	6668.4	3751.3	1795.1	1421.8	1332.0	1354.5	1336.1	1232.1	1079.1	1011.8	1003.6
42.5°	7235.5	3824.8	1650.3	1330.0	1279.0	1299.4	1272.9	1101.5	991.4	956.7	952.6
45°	7747.5	3912.5	1493.2	1238.2	1226.0	1219.8	1175.0	997.5	950.6	926.1	924.1
47.5°	8116.7	3898.2	1325.9	1150.5	1168.9	1148.5	1011.8	948.5	909.8	877.1	869.0
50°	*8049.4*	*3649.3*	*1152.5*	*1052.6*	*1095.4*	*1077.1*	*909.8*	*891.4*	*856.8*	*822.1*	*809.8*
52.5°	7878.0	3310.7	1001.6	948.5	1015.9	973.0	840.4	822.1	791.5	746.6	732.3
55°	7969.8	2992.5	883.3	864.9	934.3	805.8	762.9	734.4	701.7	652.8	646.6
57.5°	7674.0	2441.7	709.9	722.1	826.2	687.4	669.1	624.2	569.1	536.5	532.4
60°	5311.9	1311.6	444.7	459.0	597.7	577.3	599.7	558.9	491.6	461.0	454.9
62.5°	2439.7	526.3	242.7	232.5	314.1	391.7	514.1	510.0	426.3	377.4	373.3
65°	591.6	240.7	173.4	163.2	177.5	234.6	334.5	401.9	344.7	287.6	281.5
67.5°	191.7	195.8	159.1	148.9	157.1	175.4	199.9	222.3	220.3	201.9	197.9
70°	153.0	177.5	146.9	134.6	134.6	140.8	134.6	108.1	93.8	102.0	106.1
72.5°	114.2	134.6	116.3	104.0	100.0	97.9	83.6	61.2	42.8	38.8	36.7
75°	67.3	75.5	71.4	61.2	57.1	51.0	40.8	26.5	14.3	10.2	6.1
77.5°	12.2	14.3	16.3	12.2	10.2	8.2	6.1	2.0	0.0	0.0	0.0
80°	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

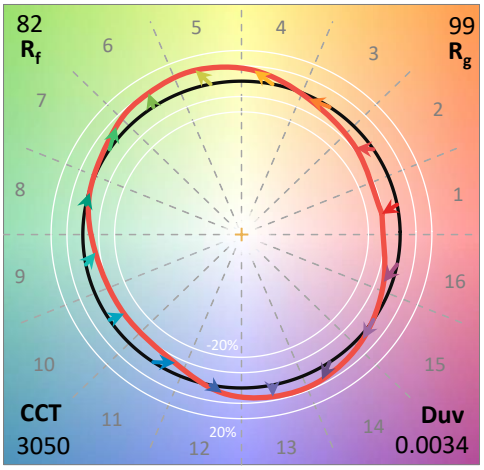
Test Information

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

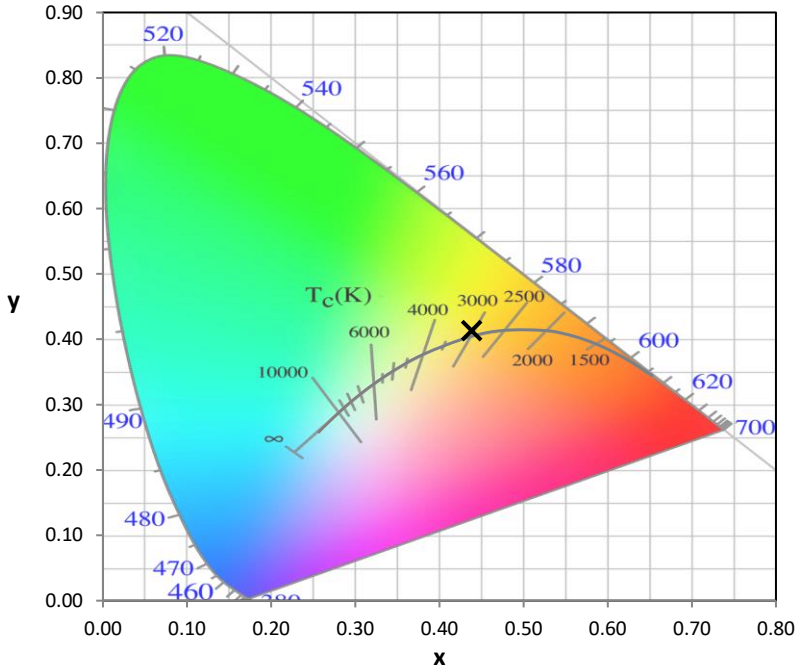
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

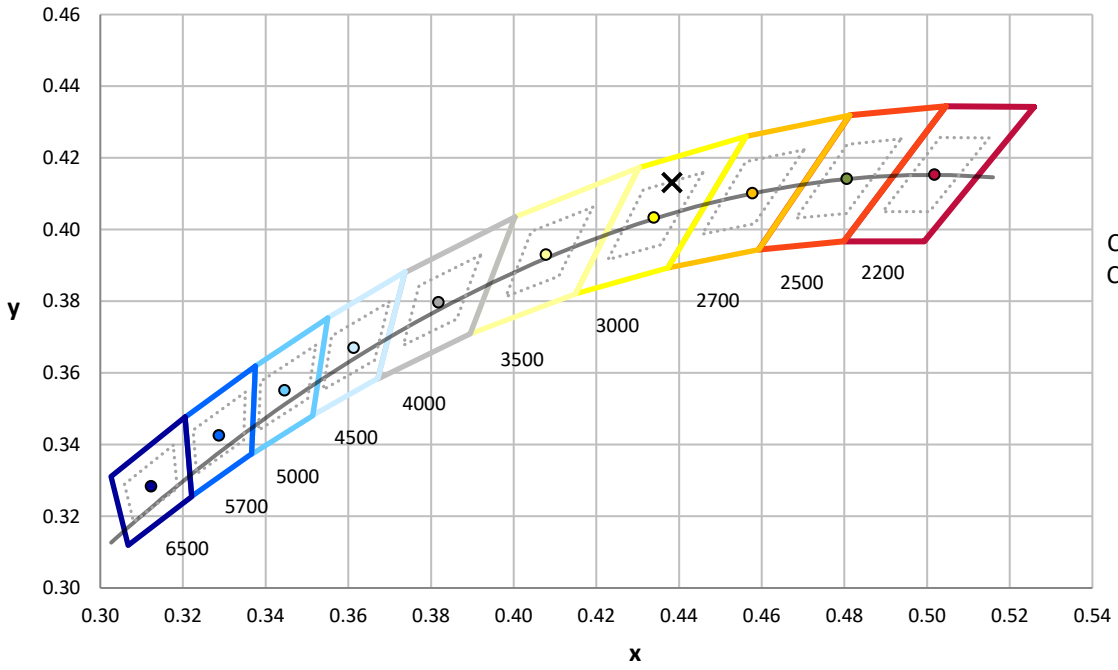
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

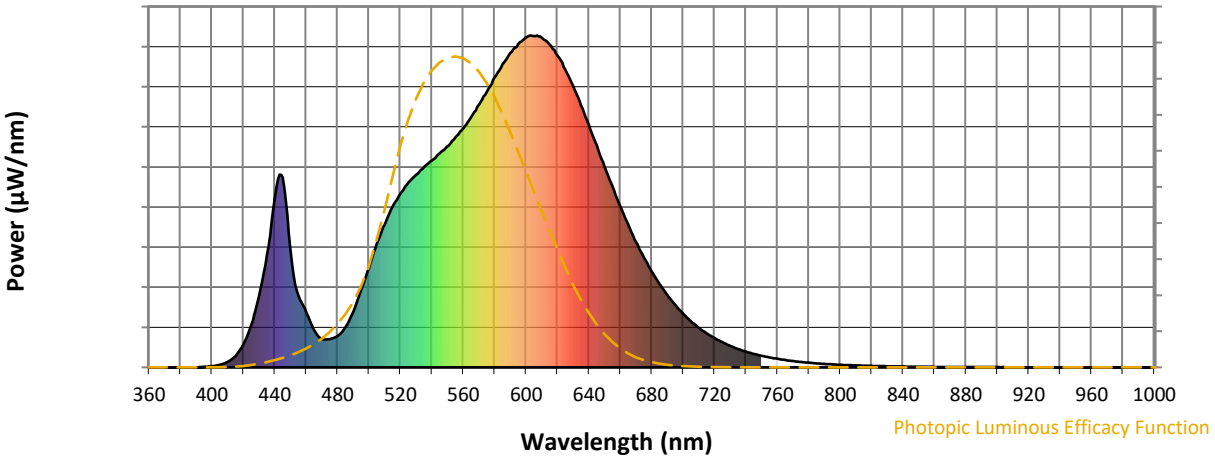


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

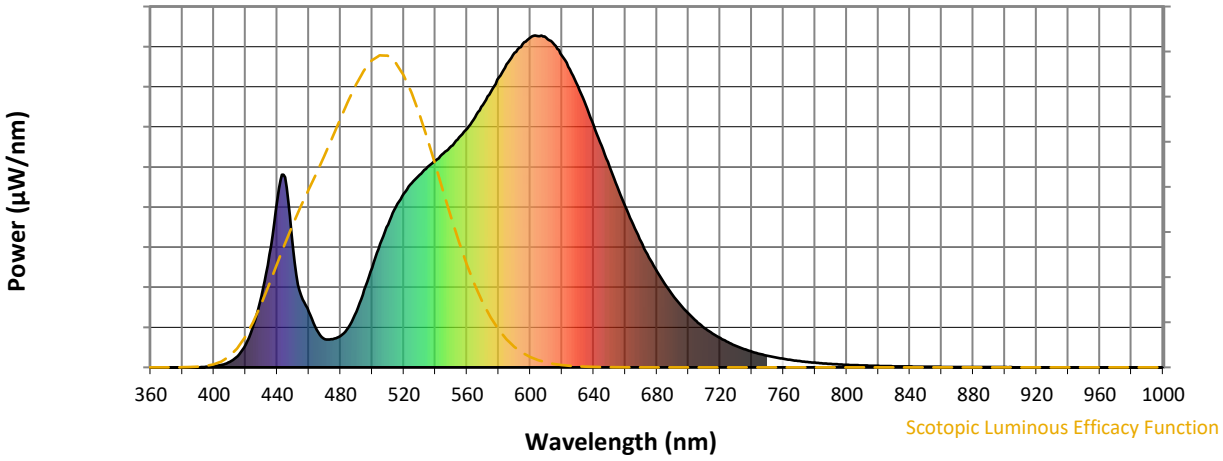


Photopic Lumens: NR

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

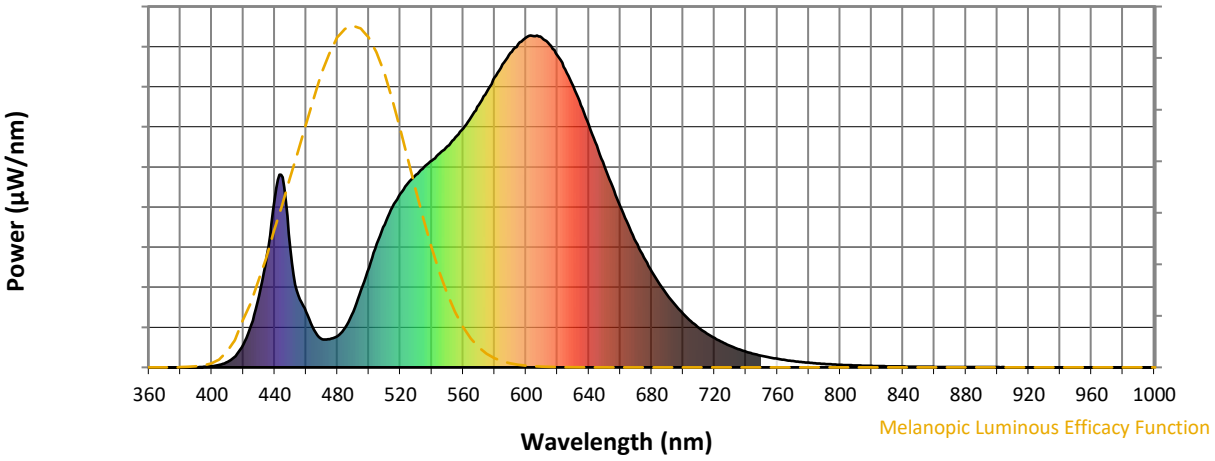


Scotopic Lumens: NR **S/P: 1.27**

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			

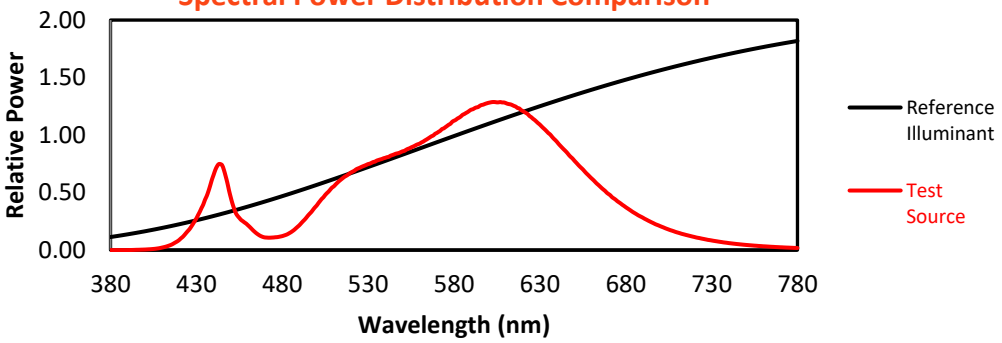
REPORT NUMBER: SP1-2408-195-9

TM-30-18

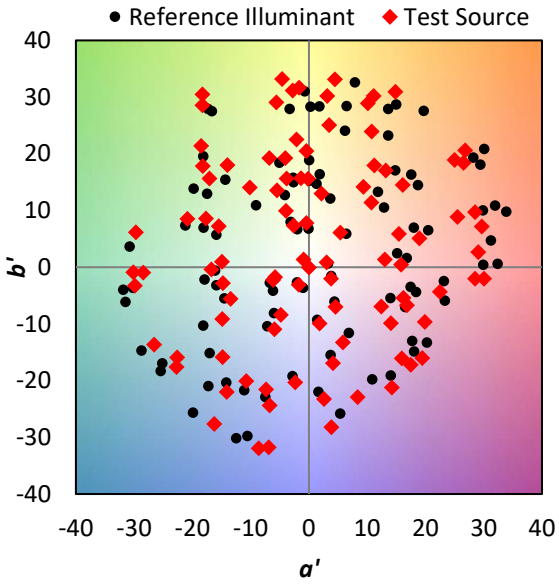
Summary

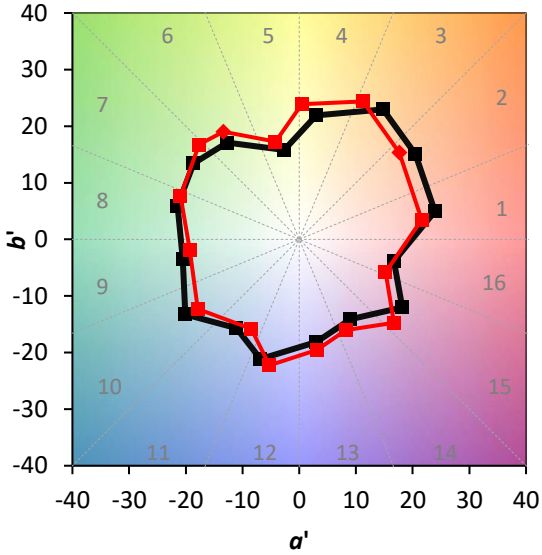
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

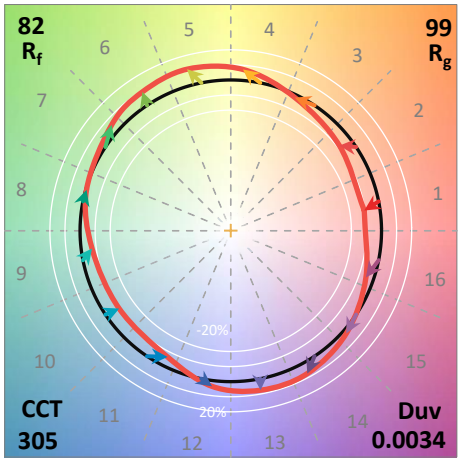
Spectral Power Distribution Comparison

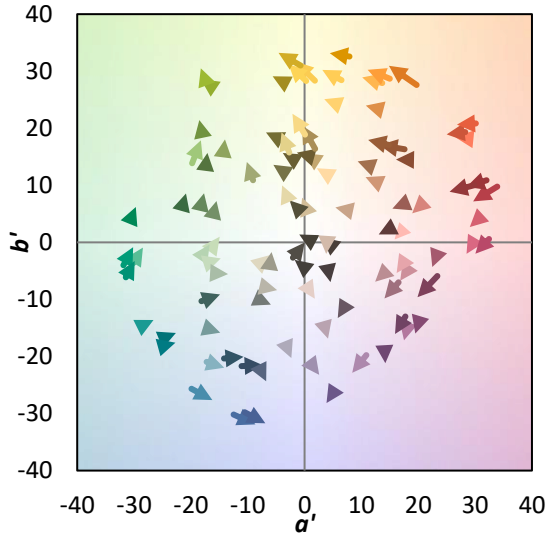


Color Vector Graphics







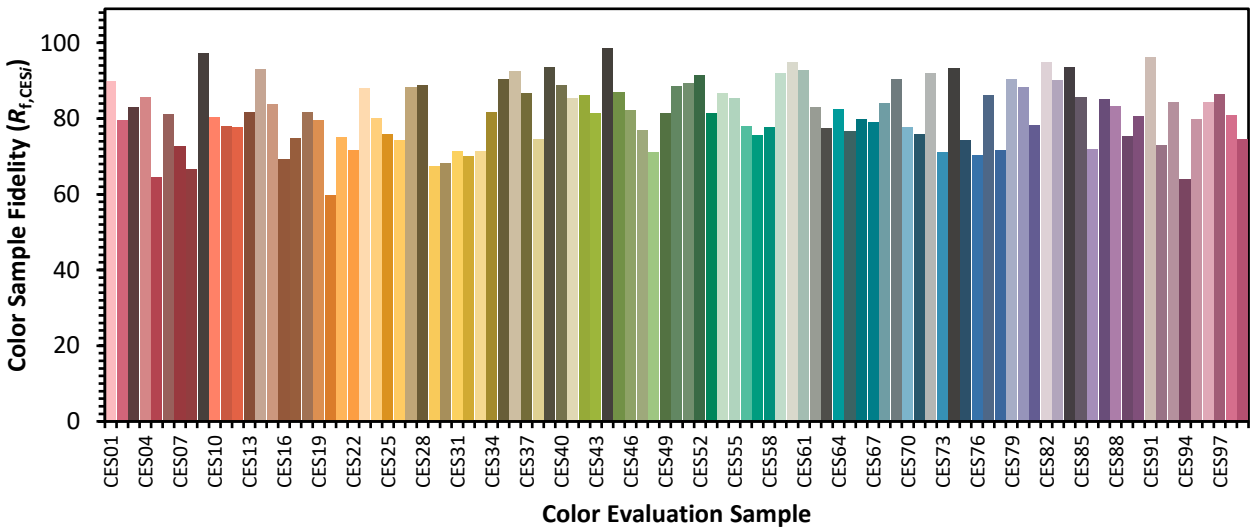


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

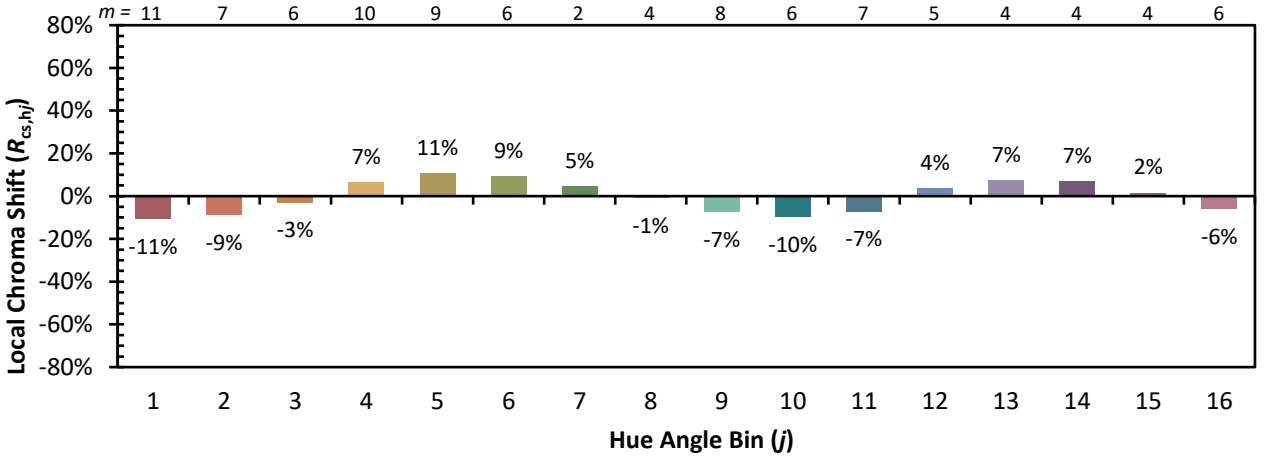
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

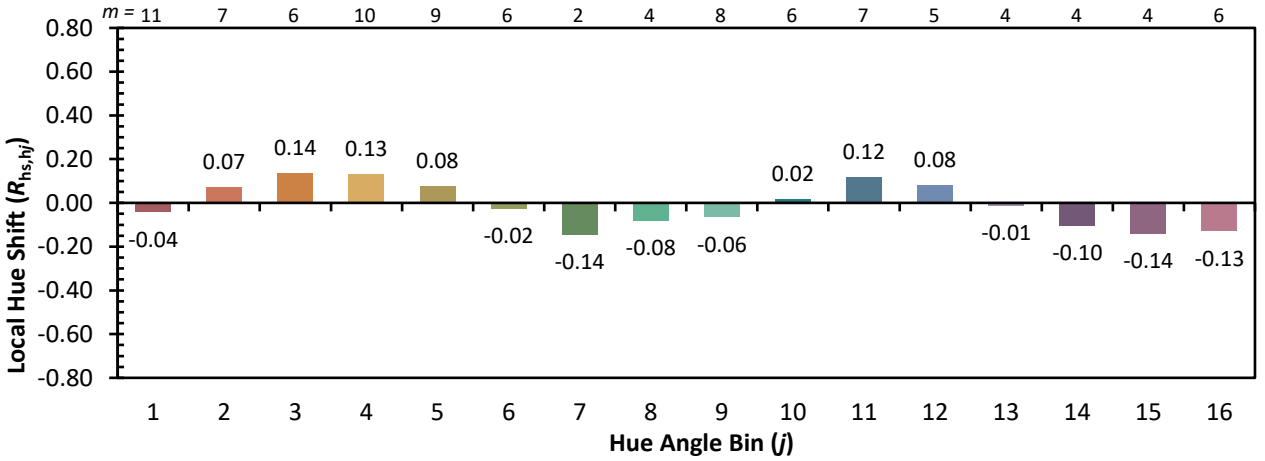


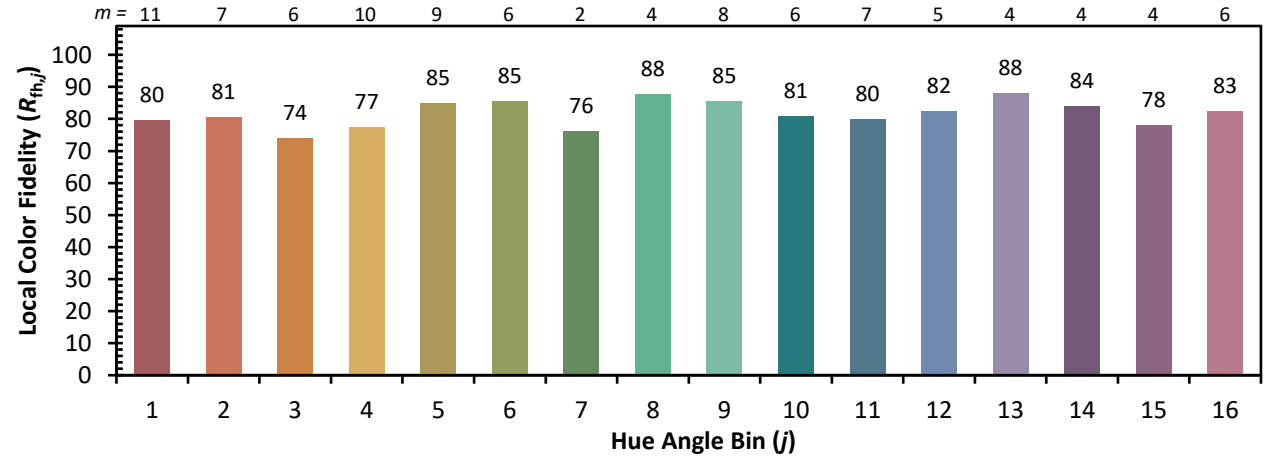
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



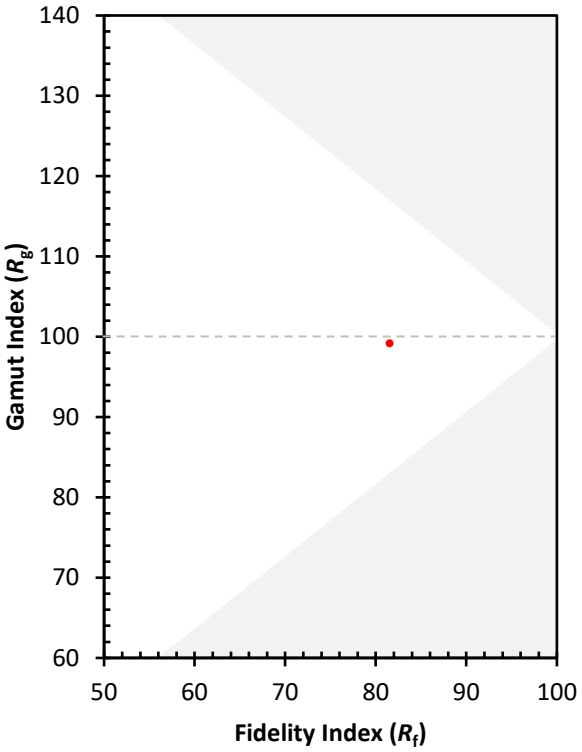


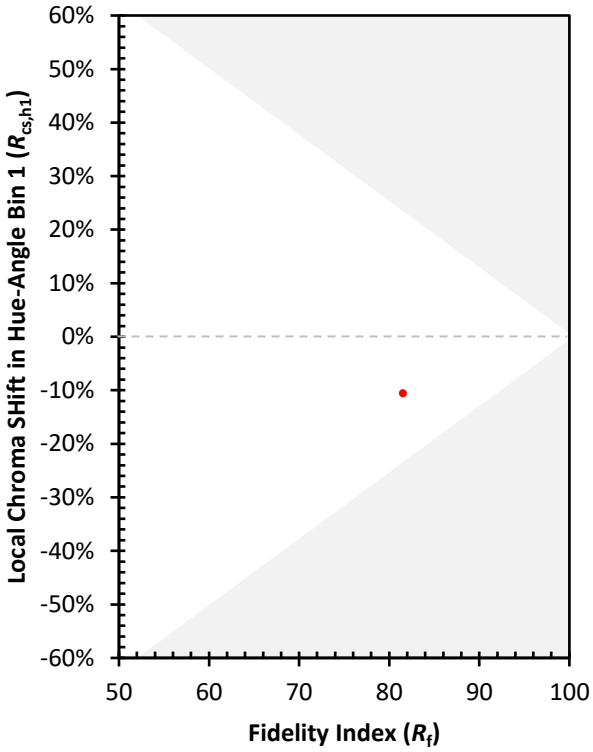


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)