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: P642452

Luminaire Tested: GWS-SA6C-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:	P642452
	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-SA6C-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:	15120.6 lumens
Efficiency:	N/A
Efficacy:	79.9 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):	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

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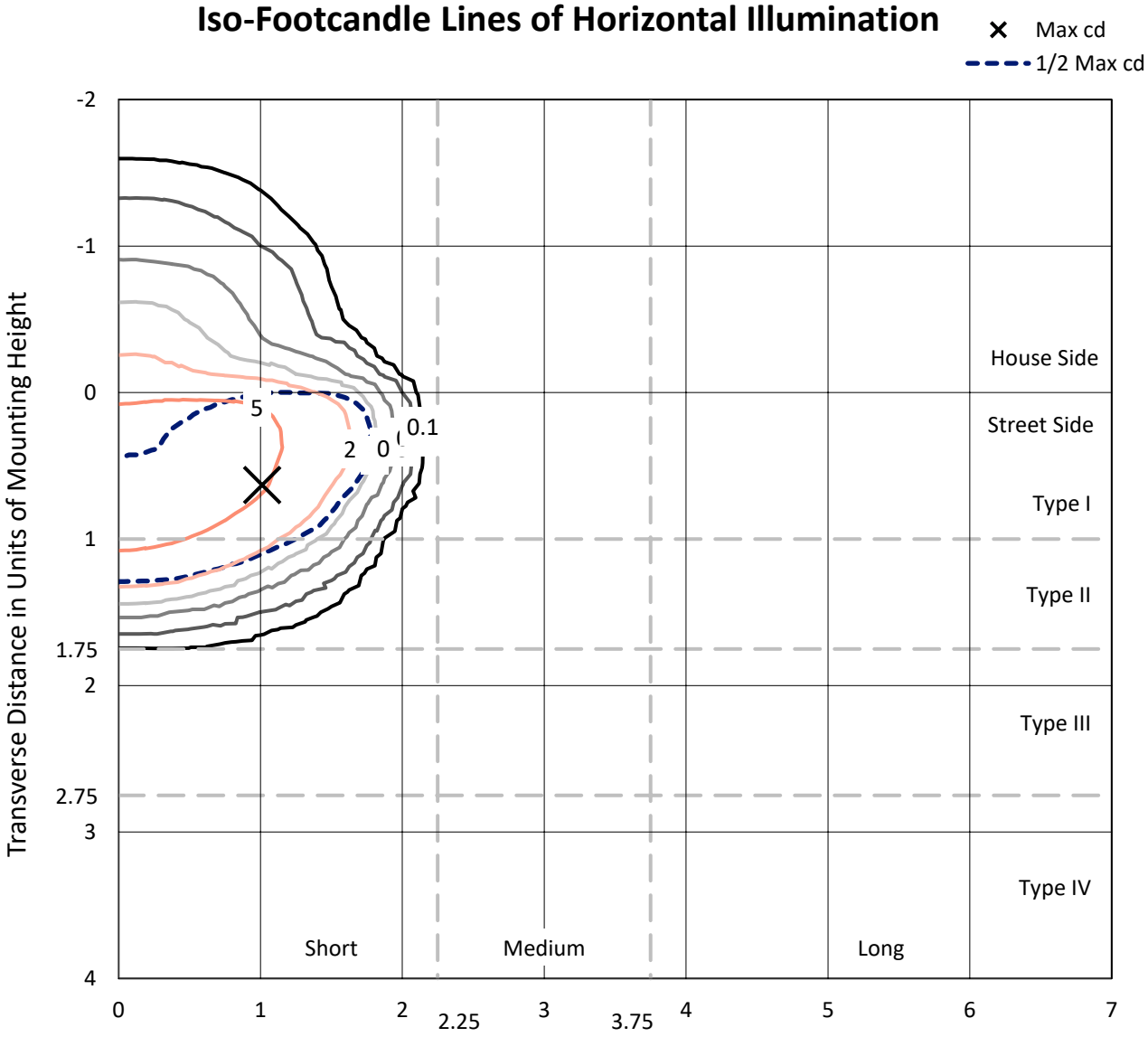
Scaled Data Report

REPORT NUMBER: P642452
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - N/A

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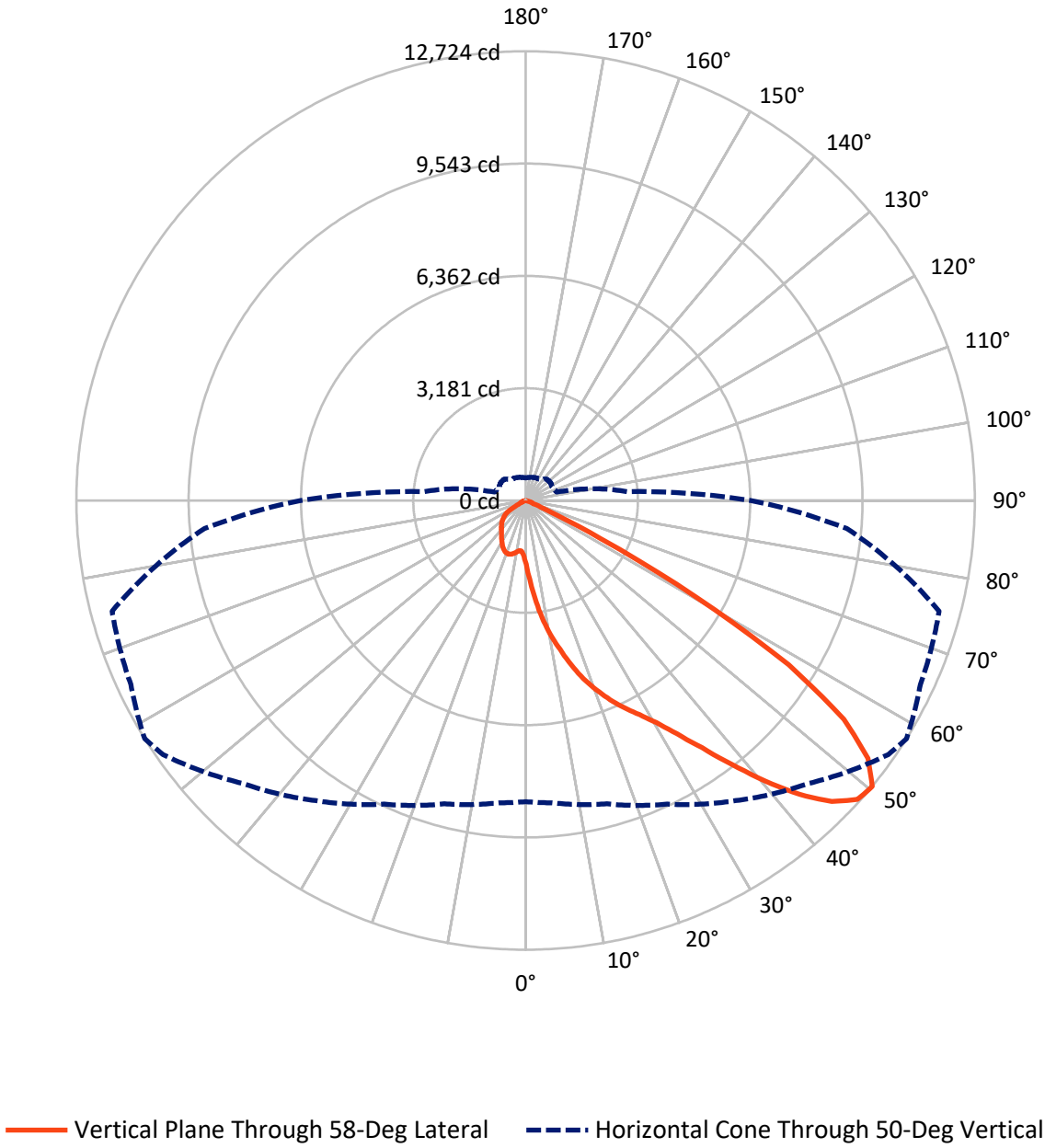
Luminous Intensity Polar Plot



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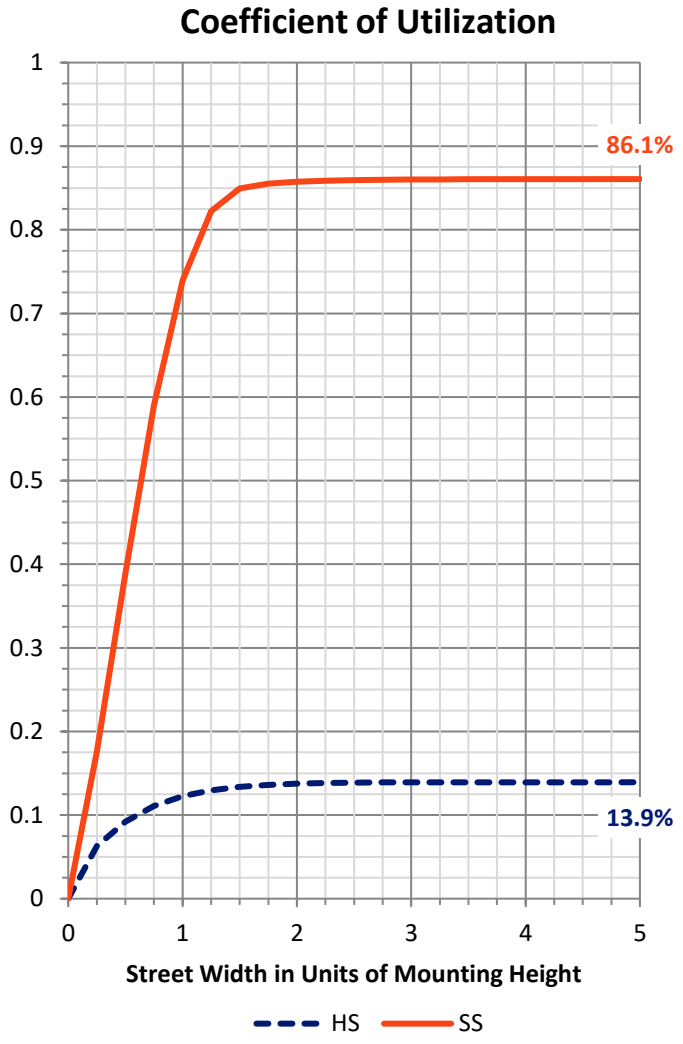
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2117.8	0.0	2117.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13002.8	0.0	13002.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	15120.6	0.0	15120.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.5
10°-20°	885.8	5.9
20°-30°	1792.4	11.9
30°-40°	3170.9	21.0
40°-50°	4622.5	30.6
50°-60°	3705.1	24.5
60°-70°	667.5	4.4
70°-80°	52.6	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°	15120.6	100.0
0°-180°	15120.6	100.0



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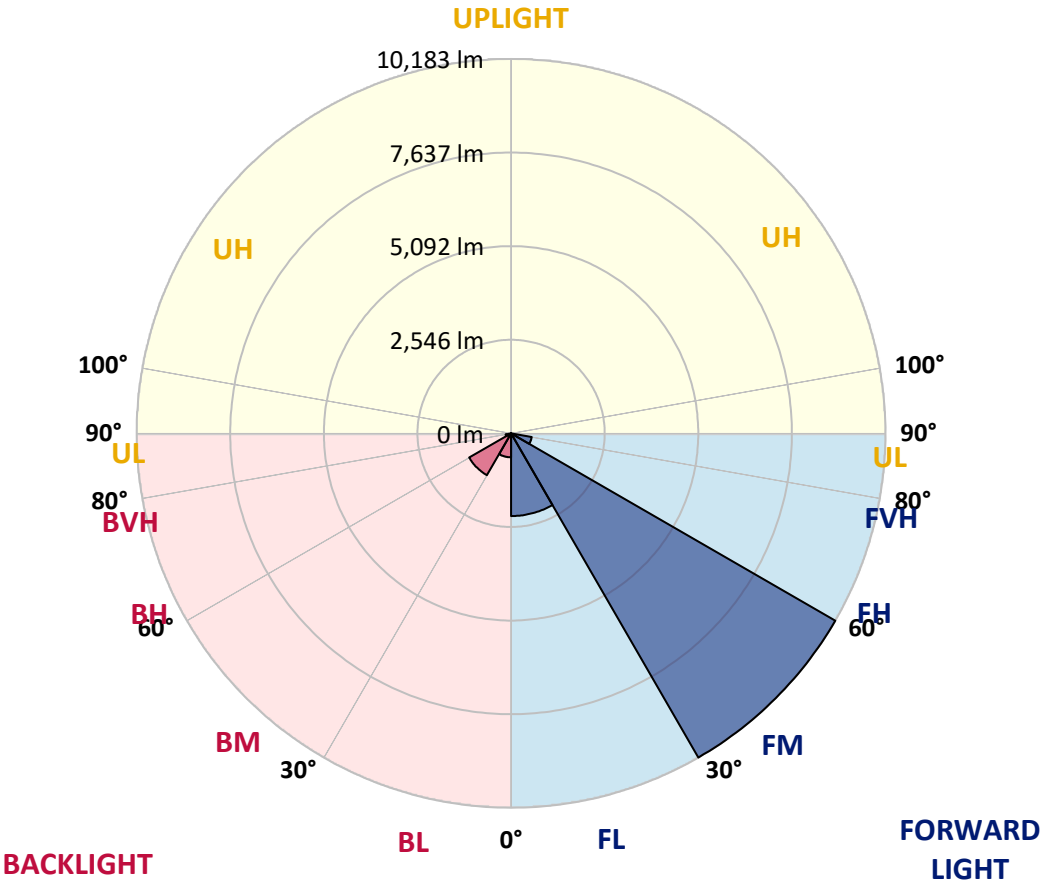
REPORT NUMBER: P642452
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2249.9	14.9			
FM	(30°-60°)	10183.3	67.3			
FH	(60°-80°)	569.6	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	652.0	4.3	B2/1000		
BM	(30°-60°)	1315.3	8.7	B2/2500		
BH	(60°-80°)	150.5	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



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REPORT NUMBER: P642452
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	*1806.1*	1806.1	1806.1	1806.1
2.5°	2672.8	2630.8	2606.5	2587.1	2501.4	2365.6	2276.7	*2229.8*	2152.2	2021.2	1908.0
5°	3487.8	3457.0	3400.4	3361.6	3251.7	3059.3	2860.4	*2781.1*	2604.9	2309.0	2043.8
7.5°	4027.8	4005.2	3984.2	3932.4	3828.9	3654.3	3434.4	*3351.9*	3080.3	2659.9	2224.9
10°	4443.4	4425.6	4401.3	4399.7	4318.9	4162.0	3947.0	*3861.3*	3567.0	3041.5	2438.4
12.5°	4808.8	4794.2	4789.4	4834.7	4782.9	4666.5	4433.7	*4326.9*	4014.9	3431.2	2674.4
15°	5059.4	5056.2	5077.2	5166.1	5195.3	5141.9	4946.2	*4831.4*	4472.5	3822.5	2934.8
17.5°	5174.2	5183.9	5224.4	5378.0	5507.3	5552.6	5402.2	*5305.2*	4926.8	4218.6	3212.9
20°	5369.9	5366.6	5390.9	5536.4	5694.9	5856.6	5811.3	*5728.8*	5386.1	4637.4	3521.7
22.5°	5921.3	5874.4	5822.6	5845.3	5901.9	6091.0	6175.1	*6133.1*	5859.8	5067.5	3840.2
25°	6768.5	6720.0	6553.5	6391.8	6285.1	6370.8	6485.6	*6506.6*	6330.3	5508.9	4173.3
27.5°	7667.6	7623.9	7436.3	7193.8	6888.2	6739.4	6825.1	*6867.2*	6792.8	6034.4	4527.5
30°	8510.0	8451.8	8246.4	7945.7	7591.6	7363.6	7266.6	*7295.7*	7339.3	6657.0	4943.0
32.5°	9240.9	9197.2	8951.4	8634.5	8293.3	8055.6	7829.3	*7877.8*	7984.5	7418.6	5475.0
35°	9860.1	9837.5	9577.2	9261.9	8901.3	8780.0	8586.0	*8595.7*	8702.4	8338.6	6123.4
37.5°	10398.6	10359.8	10123.7	9831.0	9544.8	9525.4	9472.1	*9476.9*	9531.9	9410.6	6868.8
40°	10738.1	10702.6	10534.4	10353.3	10149.6	10152.8	10429.3	*10450.3*	10387.3	10463.3	7656.2
42.5°	10865.9	10840.0	10749.5	10751.1	10730.1	10825.5	11344.5	*11383.3*	11156.9	11289.5	8328.9
45°	10644.4	10633.0	10639.5	10872.4	11124.6	11418.9	12093.1	*12161.1*	11840.9	11837.7	8854.4
47.5°	9929.7	9907.0	10096.2	10492.4	11076.1	11648.5	12545.9	*12651.0*	12319.5	12151.4	9184.3
50°	*8529.4*	*8594.1*	*8893.2*	*9488.2*	*10375.9*	*11333.2*	*12541.0*	*12723.8*	*12337.3*	*12123.9*	*9129.3*
52.5°	6178.4	6165.4	6820.3	7638.5	8718.6	10324.2	11874.9	*12141.7*	11905.6	11853.8	9006.4
55°	3361.6	3479.7	3921.1	5004.5	6353.0	8414.6	10353.3	*10935.4*	11208.7	11755.2	9227.9
57.5°	1235.3	1287.1	1563.6	2330.0	3363.2	5232.4	7908.5	*8786.5*	9630.5	11480.3	9190.7
60°	498.0	507.7	617.7	857.0	1413.2	2663.1	4744.1	*5523.5*	6319.0	8788.1	7053.1
62.5°	362.2	375.1	418.8	501.3	714.7	1164.2	2045.4	*2378.5*	2600.1	4352.8	3474.8
65°	292.7	302.4	337.9	375.1	472.1	625.8	659.7	*635.5*	632.2	1125.4	797.2
67.5°	242.5	252.2	278.1	304.0	339.6	312.1	226.4	*237.7*	194.0	192.4	156.8
70°	177.9	189.2	215.1	242.5	203.7	84.1	131.0	*194.0*	147.1	122.9	119.7
72.5°	134.2	142.3	166.5	158.5	59.8	32.3	87.3	*140.7*	113.2	90.5	88.9
75°	100.3	105.1	84.1	25.9	6.5	8.1	32.3	*58.2*	63.1	51.7	51.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	*4.9*	6.5	8.1	9.7
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

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Scaled Data Report

REPORT NUMBER: P642452
CATALOG NUMBER: GWS-SA6C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	1843.3	1775.4	1678.4	1597.5	1536.1	1476.3	1431.0	1385.7	1384.1	1361.5	1356.6
5°	1920.9	1798.0	1620.2	1492.4	1414.8	1367.9	1335.6	1319.4	1311.3	1303.3	1300.0
7.5°	2032.5	1856.3	1610.5	1474.7	1410.0	1379.3	1356.6	1346.9	1342.1	1335.6	1334.0
10°	2169.9	1940.3	1646.1	1508.6	1452.0	1422.9	1398.7	1384.1	1376.0	1364.7	1361.5
12.5°	2334.9	2043.8	1702.6	1565.2	1505.4	1466.6	1434.2	1413.2	1401.9	1387.3	1384.1
15°	2512.7	2155.4	1765.7	1616.9	1545.8	1495.7	1455.3	1422.9	1401.9	1384.1	1379.3
17.5°	2697.1	2268.6	1822.3	1652.5	1565.2	1505.4	1447.2	1403.5	1377.6	1355.0	1348.5
20°	2904.0	2385.0	1859.5	1659.0	1558.7	1479.5	1411.6	1356.6	1330.7	1300.0	1293.6
22.5°	3120.7	2493.3	1875.7	1644.4	1523.2	1431.0	1358.2	1301.6	1264.5	1232.1	1222.4
25°	3330.9	2590.3	1867.6	1604.0	1469.8	1363.1	1288.7	1230.5	1190.1	1157.7	1149.6
27.5°	3554.0	2671.2	1838.5	1544.2	1397.0	1288.7	1217.6	1167.4	1130.2	1094.7	1086.6
30°	3804.7	2745.6	1791.6	1471.4	1311.3	1212.7	1157.7	1123.8	1083.4	1046.2	1034.8
32.5°	4107.0	2811.9	1723.7	1384.1	1235.3	1146.4	1115.7	1089.8	1042.9	1004.1	996.0
35°	4453.1	2866.8	1638.0	1293.6	1161.0	1104.4	1097.9	1064.0	1002.5	957.2	947.5
37.5°	4854.1	2920.2	1536.1	1204.6	1106.0	1085.0	1086.6	1028.4	954.0	899.0	892.6
40°	5285.8	2973.6	1422.9	1127.0	1055.9	1073.7	1059.1	976.6	855.4	802.0	795.5
42.5°	5735.3	3031.8	1308.1	1054.2	1013.8	1030.0	1009.0	873.2	785.8	758.3	755.1
45°	6141.2	3101.3	1183.6	981.5	971.8	966.9	931.4	790.7	753.5	734.1	732.5
47.5°	6433.8	3090.0	1051.0	912.0	926.5	910.3	802.0	751.9	721.2	695.3	688.8
50°	*6380.5*	*2892.7*	*913.6*	*834.3*	*868.3*	*853.7*	*721.2*	*706.6*	*679.1*	*651.6*	*641.9*
52.5°	6244.6	2624.3	793.9	751.9	805.2	771.3	666.2	651.6	627.4	591.8	580.5
55°	6317.4	2372.1	700.1	685.6	740.6	638.7	604.7	582.1	556.2	517.4	512.6
57.5°	6083.0	1935.5	562.7	572.4	654.9	544.9	530.4	494.8	451.1	425.3	422.0
60°	4210.5	1039.7	352.5	363.8	473.8	457.6	475.4	443.0	389.7	365.4	360.6
62.5°	1933.9	417.2	192.4	184.3	249.0	310.5	407.5	404.2	337.9	299.1	295.9
65°	468.9	190.8	137.4	129.4	140.7	185.9	265.2	318.5	273.3	228.0	223.1
67.5°	152.0	155.2	126.1	118.0	124.5	139.1	158.5	176.2	174.6	160.1	156.8
70°	121.3	140.7	116.4	106.7	106.7	111.6	106.7	85.7	74.4	80.8	84.1
72.5°	90.5	106.7	92.2	82.5	79.2	77.6	66.3	48.5	34.0	30.7	29.1
75°	53.4	59.8	56.6	48.5	45.3	40.4	32.3	21.0	11.3	8.1	4.9
77.5°	9.7	11.3	12.9	9.7	8.1	6.5	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	1.6	1.6	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

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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

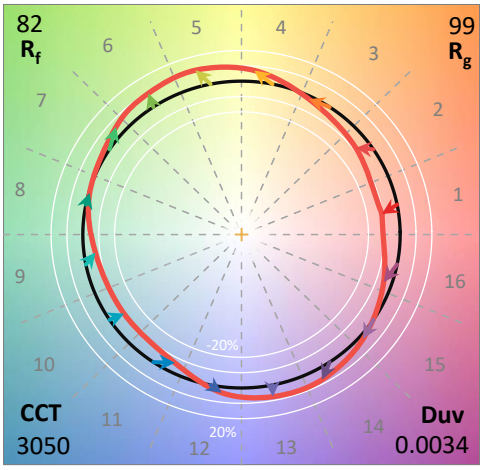
Test Information

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

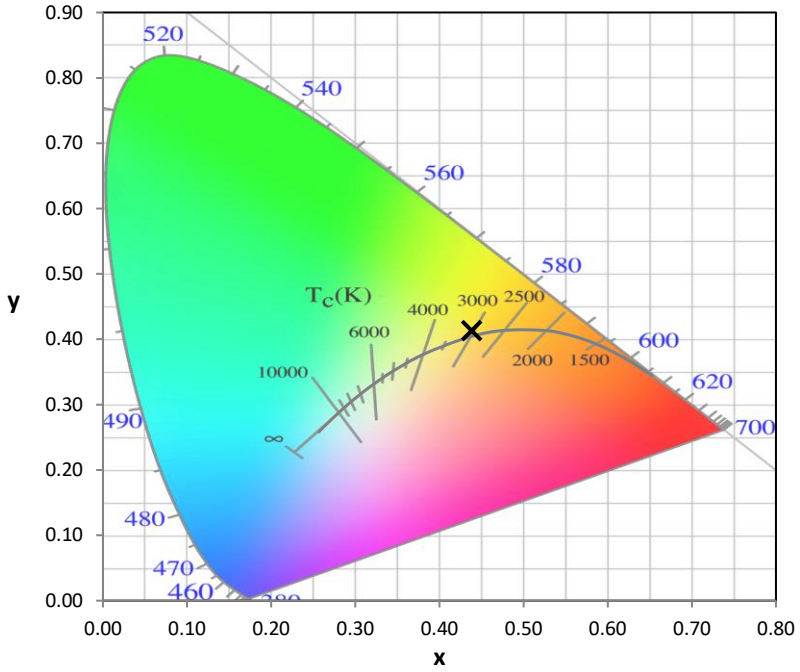
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

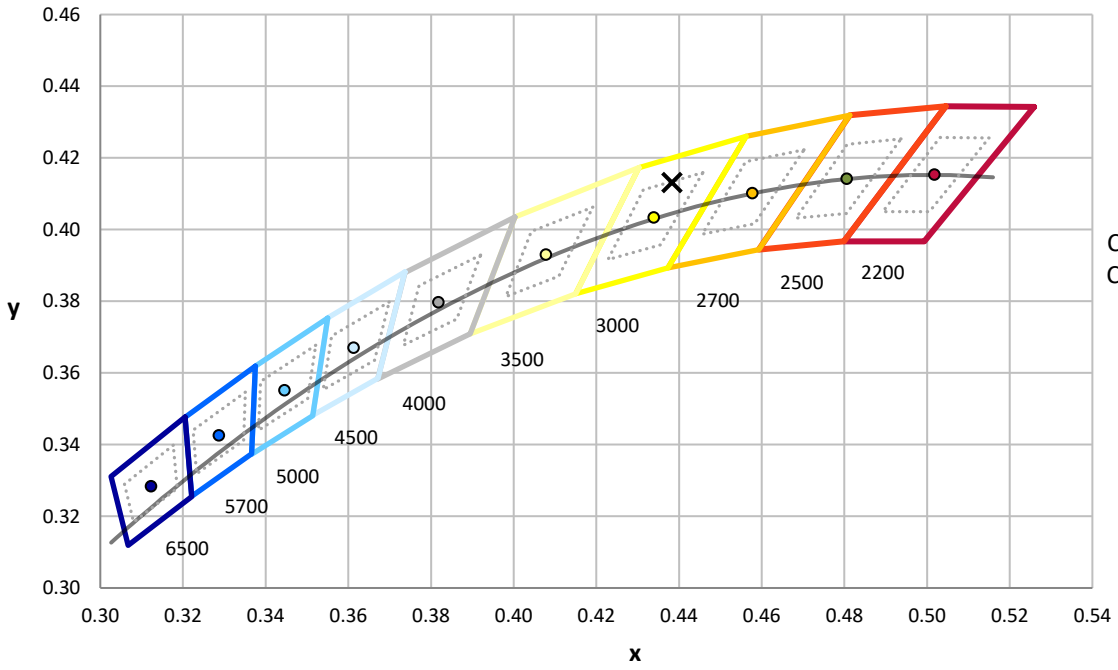
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

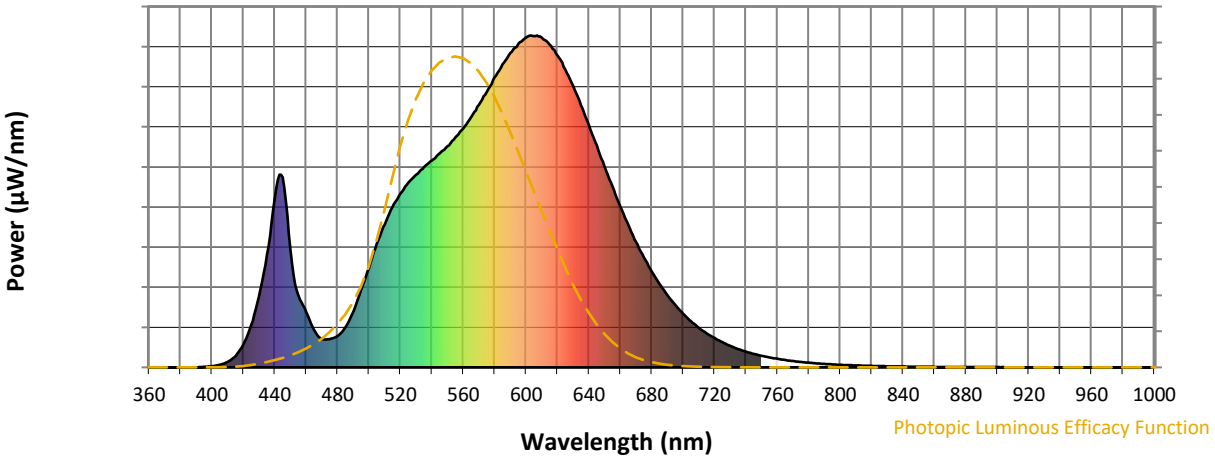


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

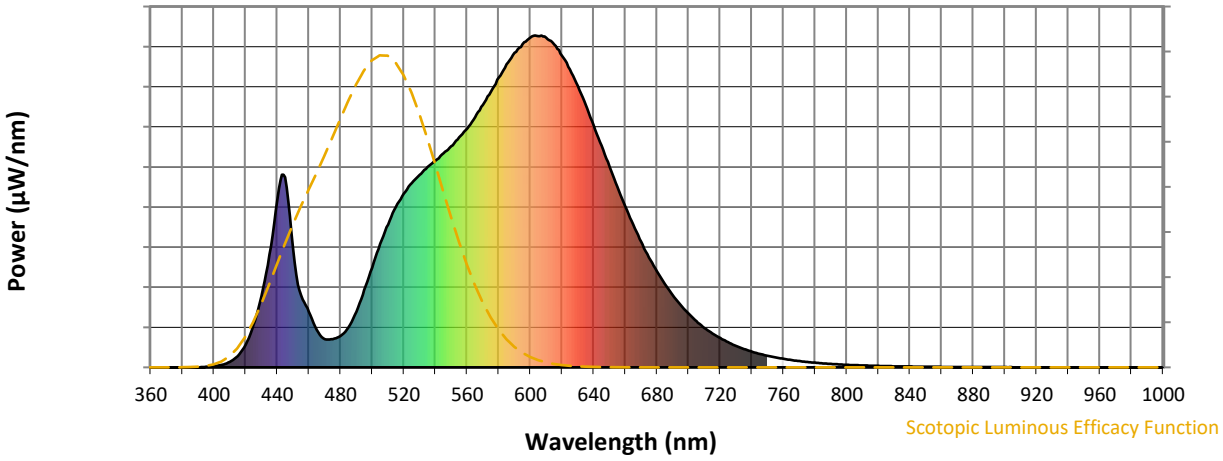


Photopic Lumens: NR

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

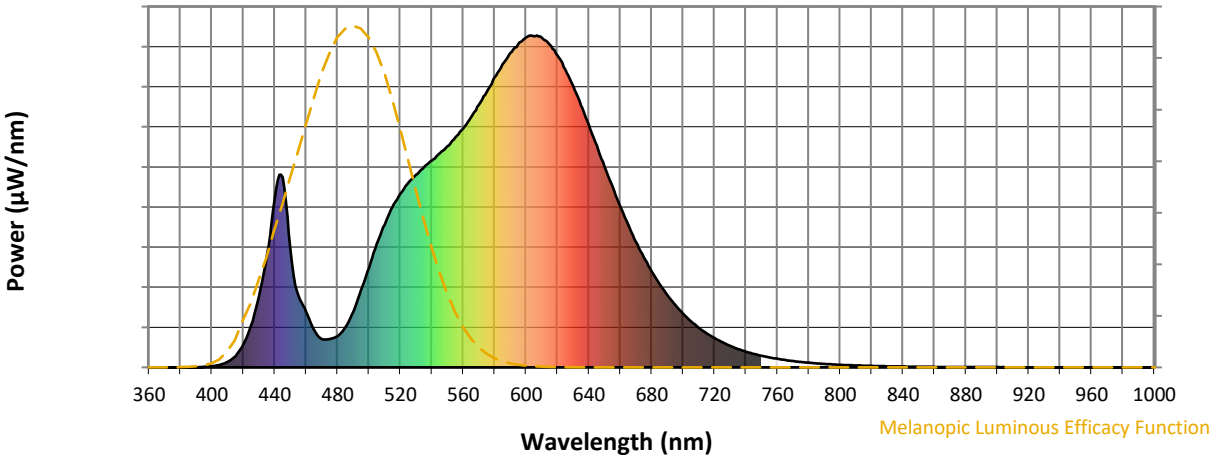


Scotopic Lumens: NR **S/P: 1.27**

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			

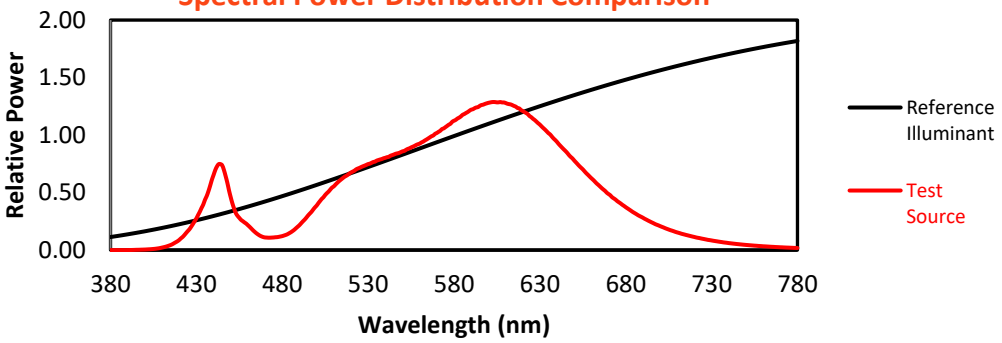
REPORT NUMBER: SP1-2408-195-9

TM-30-18

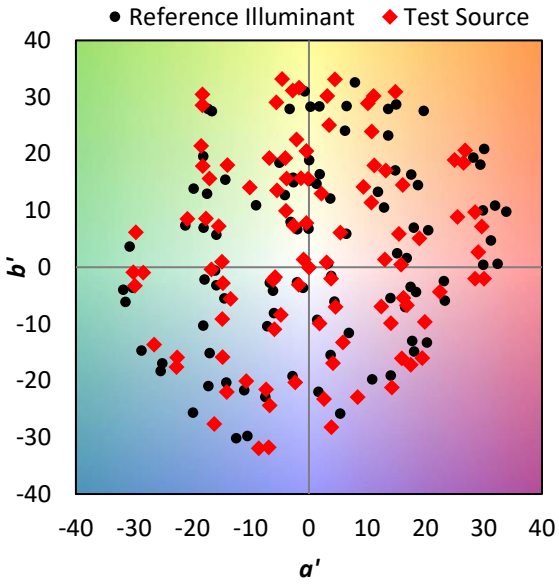
Summary

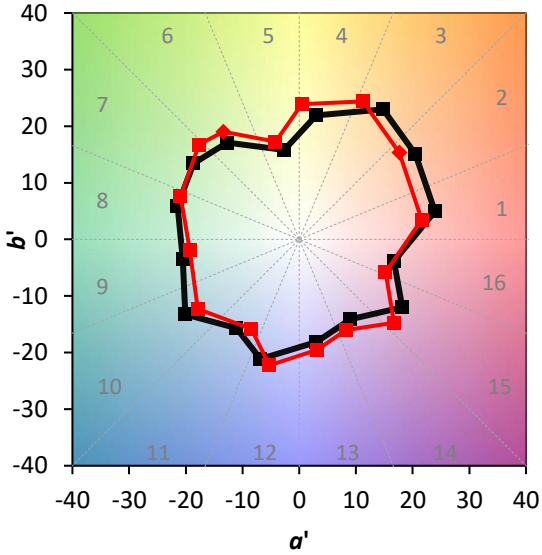
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

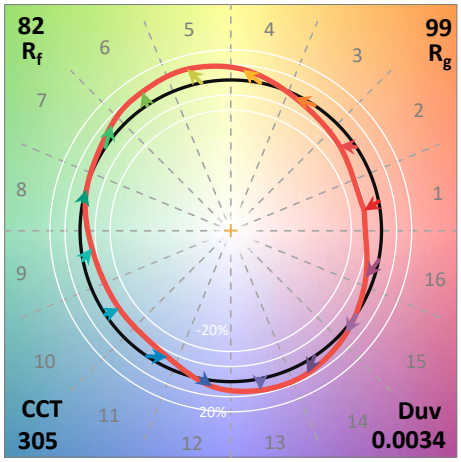
Spectral Power Distribution Comparison

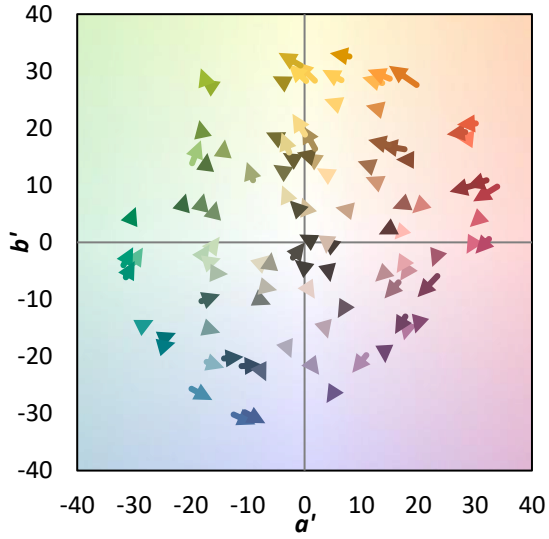


Color Vector Graphics







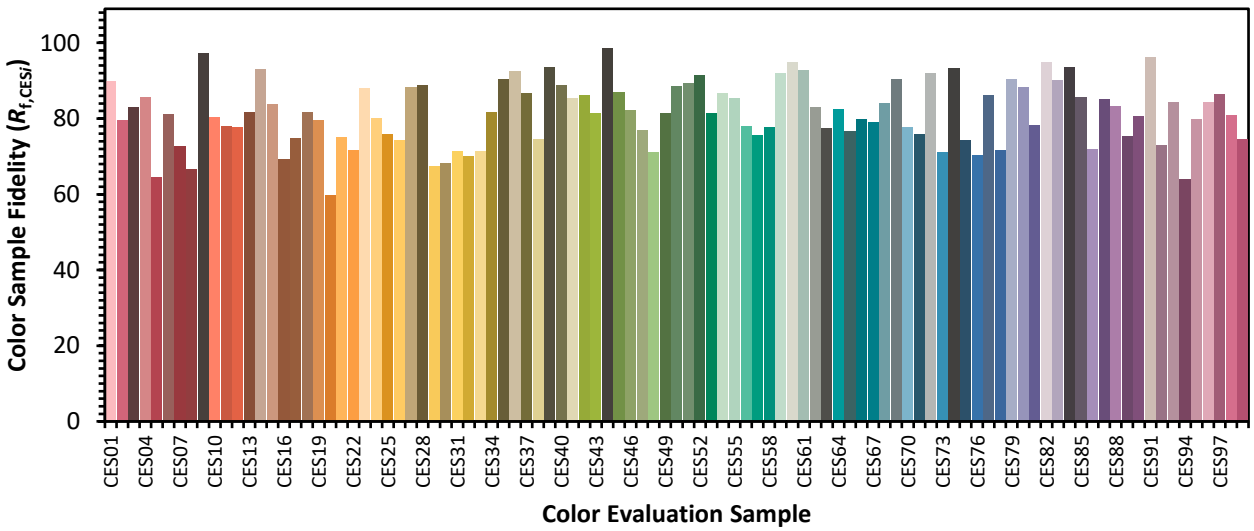


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

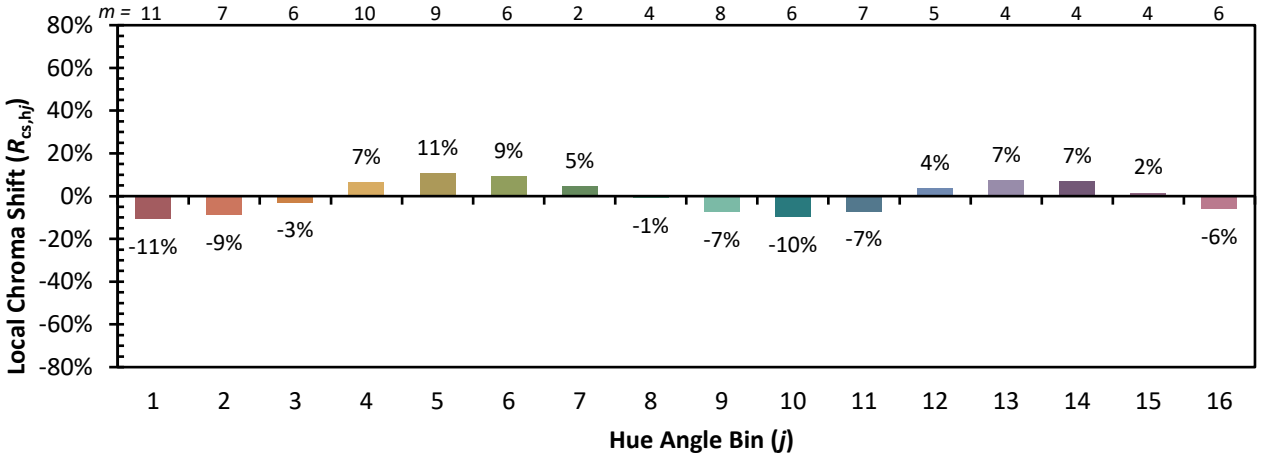
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

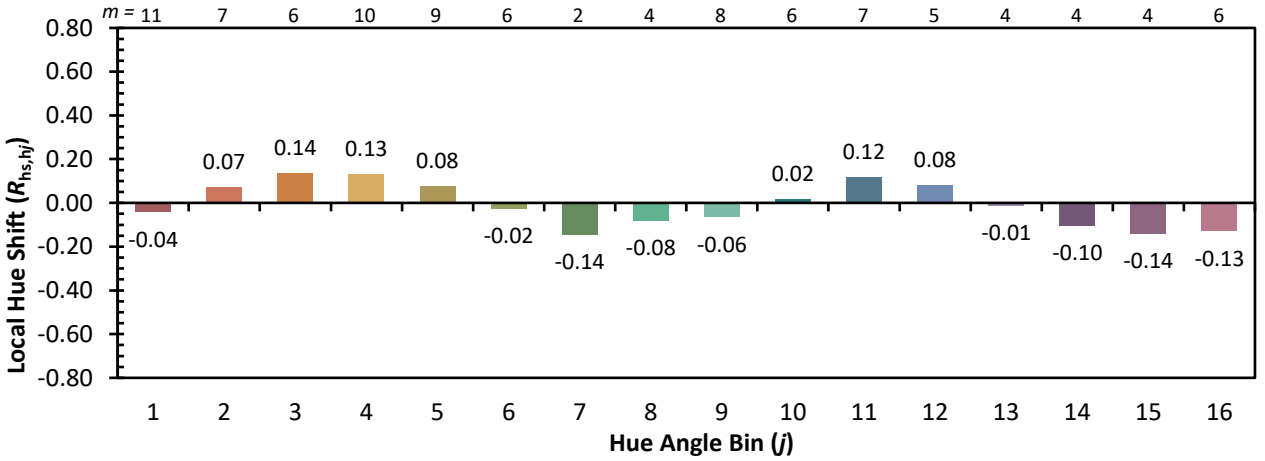


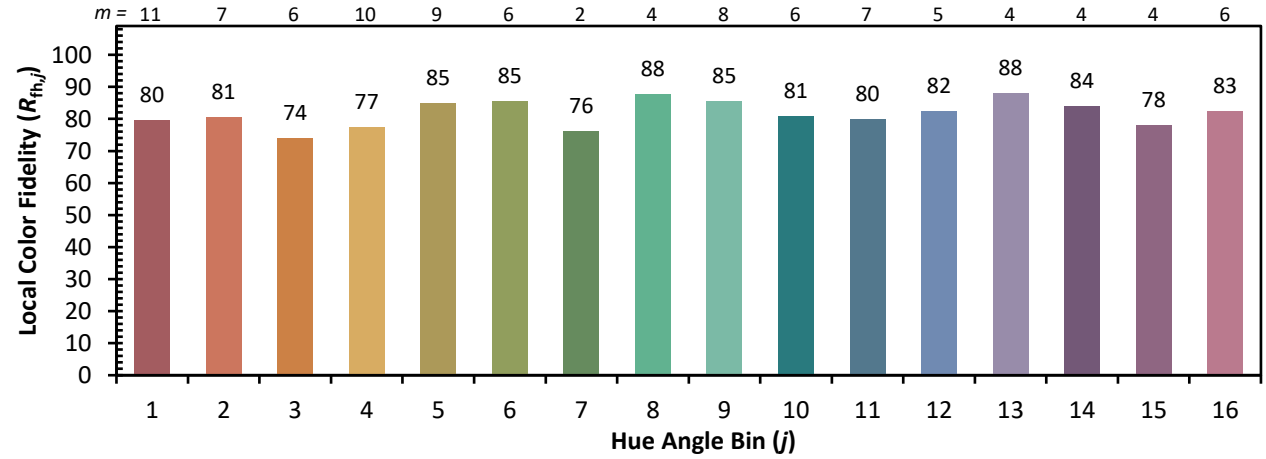
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



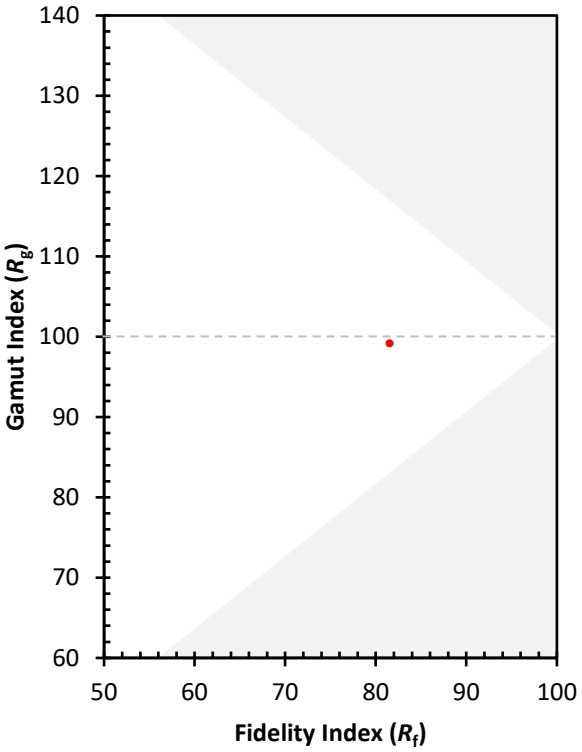


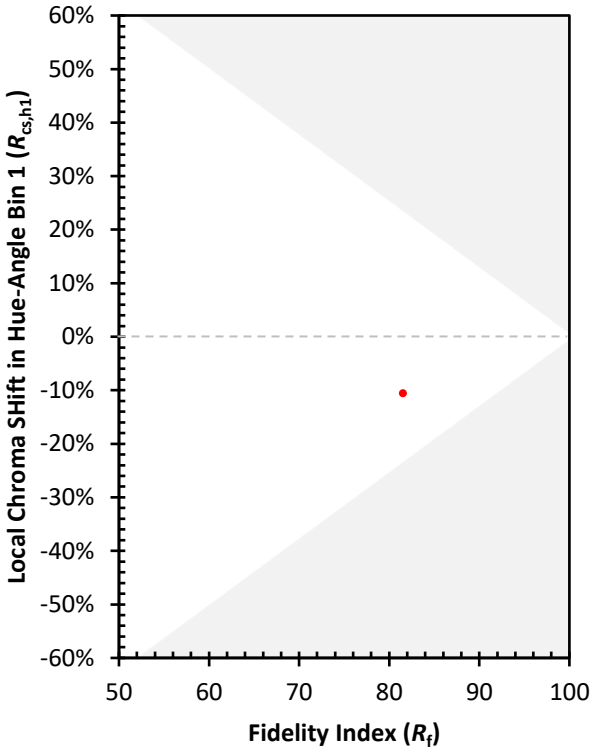


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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