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: P632549

Luminaire Tested: GWS-SA2C-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:	P632549
	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-SA2C-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6129.8 lumens
Efficiency:	N/A
Efficacy:	97.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

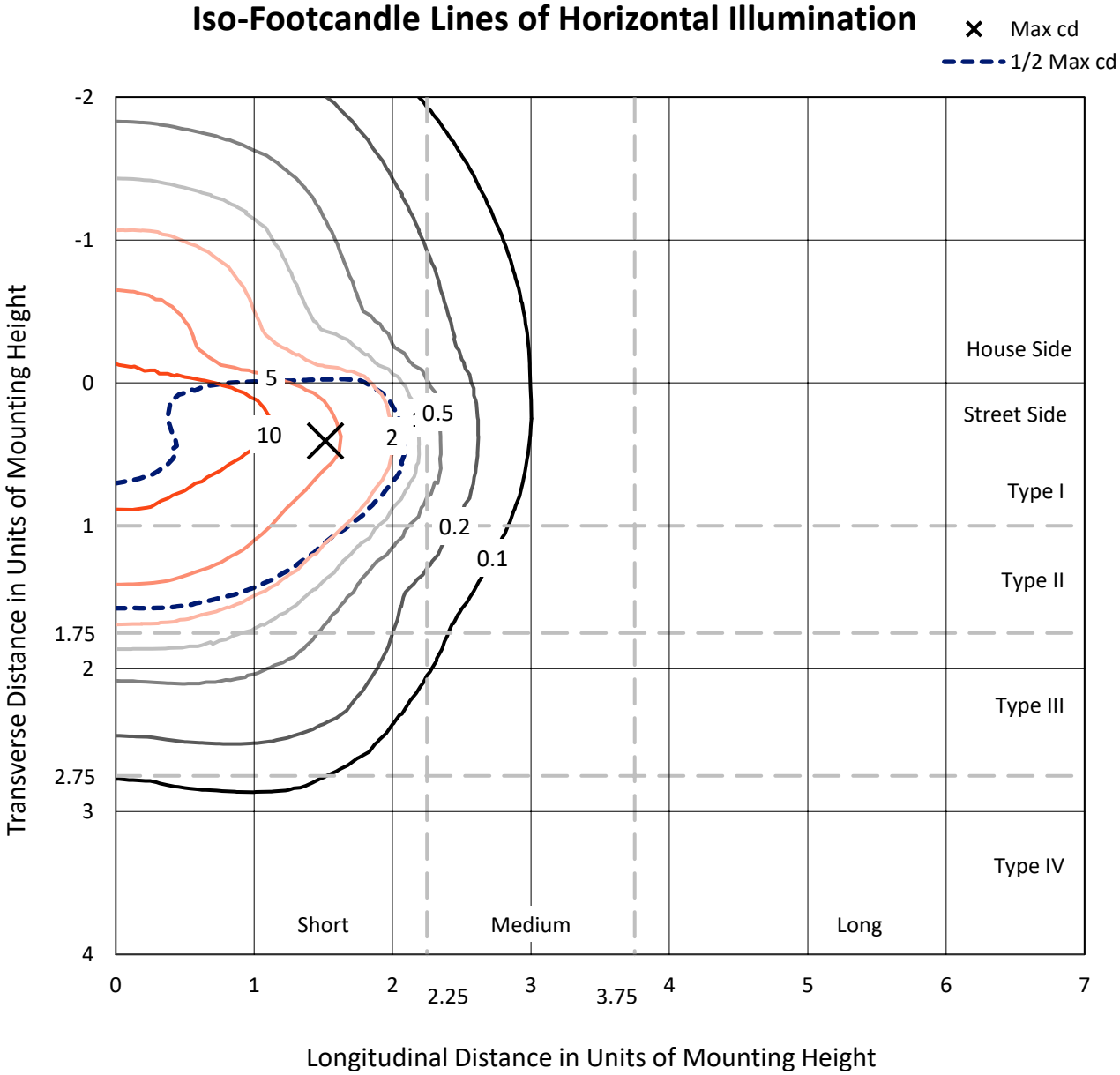
Input Watts (W):	63.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



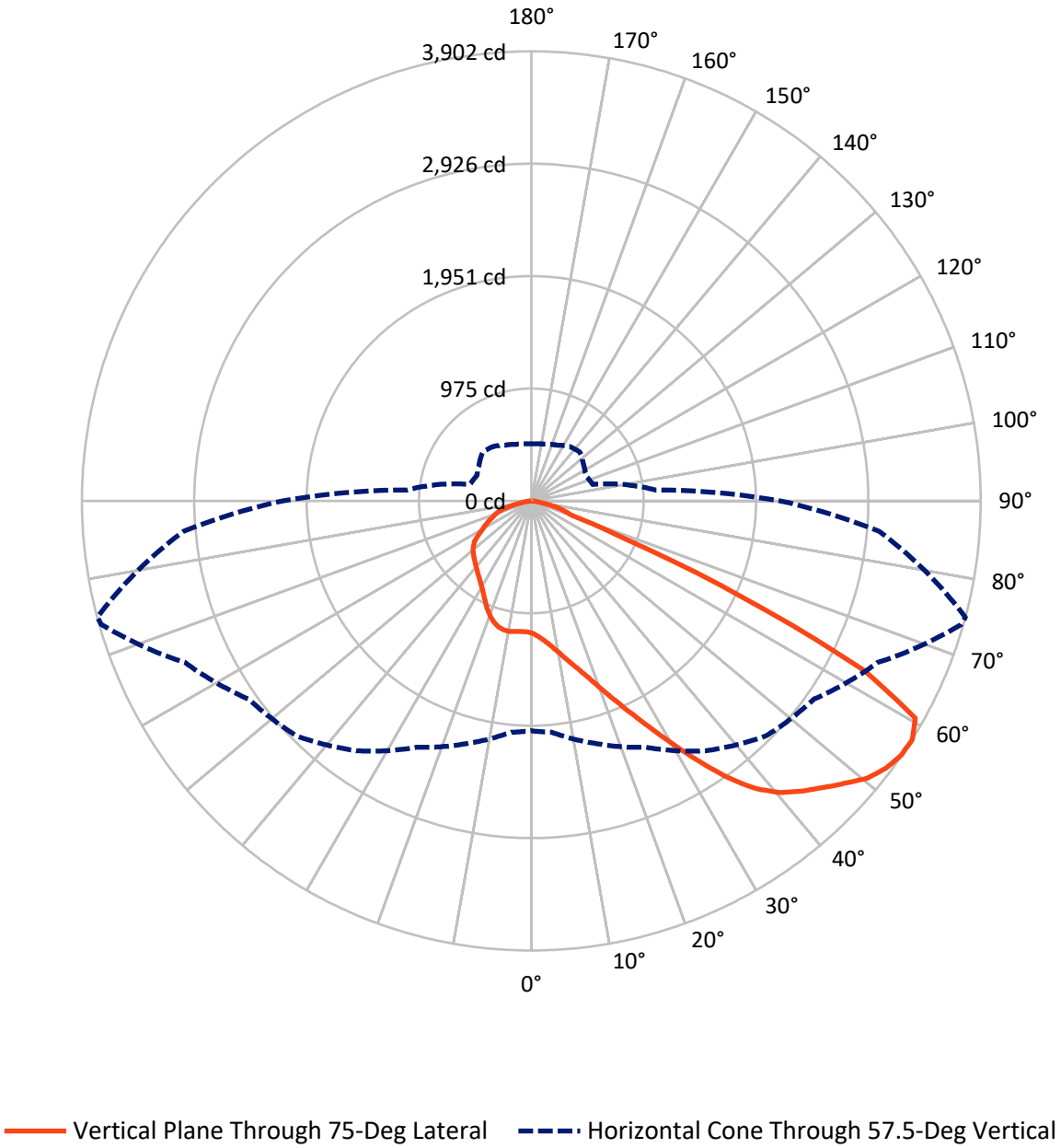
Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-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

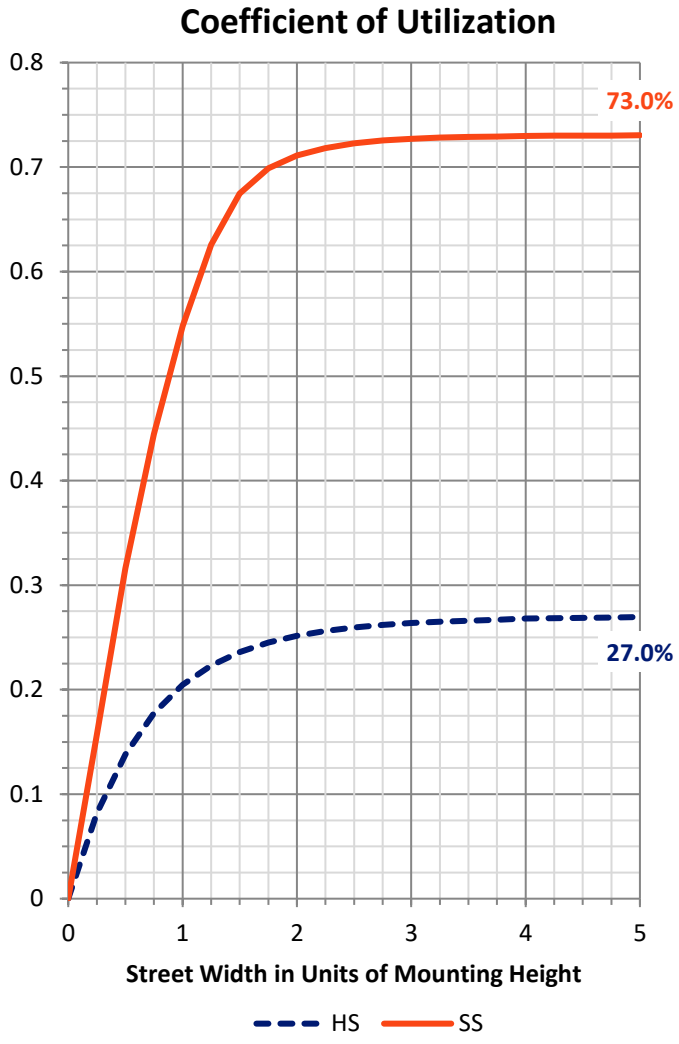
REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.2	0.0	1658.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	4471.6	0.0	4471.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	6129.8	0.0	6129.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.9
10°-20°	365.7	6.0
20°-30°	648.6	10.6
30°-40°	992.9	16.2
40°-50°	1382.6	22.6
50°-60°	1584.2	25.8
60°-70°	814.0	13.3
70°-80°	204.9	3.3
80°-90°	21.9	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°	6129.8	100.0
0°-180°	6129.8	100.0



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

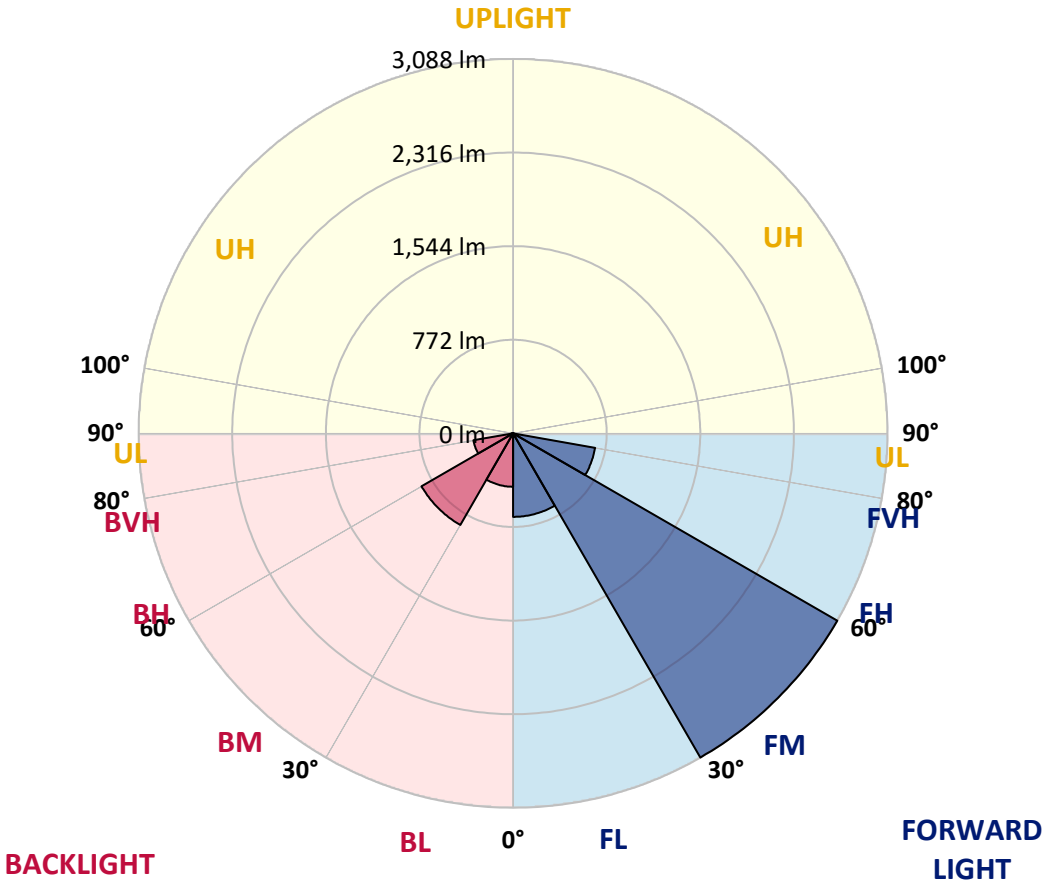
Scaled Data Report

REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-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°)	688.7	11.2			
FM	(30°-60°)	3087.7	50.4			
FH	(60°-80°)	687.1	11.2			G1/1800
FVH	(80°-90°)	8.1	0.1			G0/10
BL	(0°-30°)	440.5	7.2	B1/500		
BM	(30°-60°)	872.1	14.2	B1/1000		
BH	(60°-80°)	331.8	5.4	B1/500		G1/500
BVH	(80°-90°)	13.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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

Scaled Data Report

REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	*1148.0*	1148.0
2.5°	1233.4	1236.5	1233.4	1238.6	1228.1	1223.3	1211.7	1194.3	1180.6	*1178.5*	1163.2
5°	1329.3	1336.1	1331.9	1329.8	1315.6	1305.0	1287.6	1252.9	1224.4	*1220.2*	1190.1
7.5°	1390.9	1395.7	1395.7	1397.3	1392.0	1379.9	1361.4	1320.3	1280.3	*1273.9*	1228.6
10°	1411.5	1415.2	1422.0	1435.2	1445.8	1449.4	1437.3	1397.8	1348.8	*1342.5*	1279.2
12.5°	1416.2	1420.5	1431.0	1455.2	1484.2	1510.6	1512.7	1483.7	1428.9	*1422.0*	1337.7
15°	1425.2	1429.4	1443.7	1473.7	1516.4	1567.0	1598.1	1578.1	1517.4	*1510.1*	1404.1
17.5°	1424.2	1428.9	1450.0	1490.0	1547.5	1620.7	1680.8	1689.3	1626.5	*1613.9*	1479.5
20°	1421.5	1425.7	1448.4	1497.4	1568.6	1669.2	1777.8	1821.6	1754.1	*1742.5*	1567.5
22.5°	1442.6	1447.3	1464.7	1505.3	1579.6	1706.7	1867.4	1972.8	1905.4	*1889.0*	1668.7
25°	1490.0	1496.9	1507.4	1535.4	1599.7	1739.9	1959.1	2144.1	2075.1	*2055.6*	1778.9
27.5°	1563.3	1571.7	1586.5	1599.7	1644.5	1782.0	2050.3	2336.0	2266.9	*2246.4*	1895.4
30°	1652.9	1664.0	1682.9	1691.9	1722.5	1844.2	2149.4	2533.6	2493.6	*2465.1*	2026.6
32.5°	1776.8	1792.0	1810.0	1812.6	1831.1	1938.6	2247.4	2729.7	2729.2	*2709.2*	2175.8
35°	1938.0	1954.4	1958.1	1961.8	1970.7	2068.2	2366.0	2908.4	2977.4	*2954.2*	2338.1
37.5°	2114.1	2137.8	2143.6	2127.3	2139.9	2224.2	2499.4	3051.8	3193.5	*3168.8*	2495.2
40°	2302.3	2311.7	2327.6	2301.7	2317.5	2402.9	2630.1	3143.5	3354.8	*3328.5*	2619.0
42.5°	2437.2	2454.6	2478.3	2468.8	2477.8	2555.8	2721.8	3187.7	3469.7	*3443.4*	2708.1
45°	2583.7	2589.0	2604.3	2602.2	2607.4	2680.2	2787.7	3207.2	3572.5	*3548.8*	2784.0
47.5°	2711.3	2719.2	2729.2	2717.6	2706.0	2753.4	2841.4	3224.1	3691.1	*3662.6*	2863.6
50°	2834.1	2840.9	2853.0	2819.3	2776.1	2788.2	2867.8	3247.3	3802.3	*3782.3*	2926.3
52.5°	2856.7	2864.1	2921.0	2927.9	2872.5	2829.9	2914.2	3298.4	3867.7	*3855.0*	2949.0
55°	2571.6	2584.8	2698.1	2828.3	2964.8	2951.1	2988.5	3325.3	3893.5	*3896.6*	2989.6
57.5°	*1996.0*	*2015.0*	*2180.5*	*2359.2*	*2646.4*	*2884.1*	*2998.0*	*3318.4*	*3884.5*	*3901.9*	*3031.2*
60°	1309.2	1320.3	1516.4	1716.7	2014.5	2343.4	2683.3	3195.1	3804.9	*3829.7*	3020.7
62.5°	790.6	803.3	960.9	1112.7	1288.2	1508.0	1820.0	2567.9	3189.3	*3244.7*	2419.3
65°	551.8	568.7	706.8	831.7	892.3	847.0	921.9	1434.2	1987.1	*2010.3*	1478.4
67.5°	400.0	411.6	525.0	673.6	740.5	598.2	455.9	635.1	865.5	*873.9*	609.8
70°	262.0	275.1	377.9	512.8	604.6	484.9	341.0	343.7	364.2	*368.4*	354.2
72.5°	143.9	151.8	233.5	340.5	357.4	289.9	266.2	285.7	299.9	*299.9*	303.6
75°	74.3	81.2	95.4	112.3	135.5	158.6	191.9	220.8	236.1	*237.2*	235.6
77.5°	37.9	40.6	51.1	55.3	60.6	70.6	91.7	117.5	131.2	*136.5*	135.5
80°	17.9	19.0	21.6	25.3	31.1	39.5	49.5	59.0	67.5	*68.5*	74.3
82.5°	9.5	10.5	11.6	13.7	16.9	21.1	29.0	34.8	40.1	*41.1*	45.9
85°	3.7	4.2	4.7	5.3	7.4	9.0	12.1	16.3	20.0	*20.0*	23.7
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	2.1	2.6	3.7	*3.7*	6.3
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

Scaled Data Report

REPORT NUMBER: P632549
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0
2.5°	1159.6	1144.3	1137.4	1126.4	1117.4	1107.4	1099.5	1093.7	1090.0	1087.9	1085.8
5°	1178.5	1155.3	1136.9	1114.8	1099.5	1084.7	1072.6	1064.2	1059.9	1056.8	1054.7
7.5°	1208.1	1177.0	1142.2	1107.9	1081.0	1057.3	1042.0	1033.1	1027.3	1025.2	1023.6
10°	1248.6	1205.4	1148.0	1093.7	1053.6	1027.8	1017.3	1013.0	1013.6	1012.5	1012.0
12.5°	1294.5	1235.5	1146.4	1068.4	1024.1	1008.8	1009.3	1016.2	1024.1	1026.2	1026.7
15°	1344.0	1265.0	1131.1	1035.7	1000.9	1002.5	1016.2	1032.5	1047.3	1053.1	1054.1
17.5°	1397.8	1289.7	1103.2	999.9	981.9	998.8	1024.1	1051.0	1072.6	1082.1	1084.7
20°	1457.9	1310.8	1063.6	964.5	964.0	992.0	1028.8	1064.2	1091.6	1104.2	1106.3
22.5°	1521.7	1324.0	1015.1	931.9	945.6	983.0	1025.2	1062.1	1091.0	1103.7	1106.3
25°	1586.0	1328.2	961.9	901.8	926.6	968.8	1007.2	1036.8	1064.2	1075.2	1077.3
27.5°	1646.0	1316.1	911.3	876.0	909.2	947.7	973.5	989.3	1008.3	1016.7	1018.3
30°	1707.2	1291.9	868.6	855.4	889.7	918.7	930.3	931.3	938.7	938.7	939.8
32.5°	1768.9	1256.0	831.2	835.4	865.5	884.4	886.0	873.9	864.9	850.2	849.6
35°	1840.0	1219.6	800.6	812.7	837.0	848.6	843.8	820.7	799.0	774.8	773.7
37.5°	1905.9	1182.2	774.8	789.6	804.8	813.3	802.2	774.3	756.3	731.6	727.9
40°	1960.2	1148.5	750.0	765.3	772.7	780.1	762.1	739.5	742.1	728.4	727.9
42.5°	1991.8	1115.8	726.8	738.4	743.2	748.4	732.6	715.8	730.0	719.5	720.0
45°	2015.0	1087.4	705.8	710.0	721.6	729.5	714.7	695.7	698.9	658.3	648.8
47.5°	2041.4	1071.5	685.7	681.5	702.1	715.8	693.1	665.7	646.7	606.7	603.0
50°	2069.3	1065.7	664.6	653.0	677.8	691.0	664.6	630.4	605.6	584.0	581.9
52.5°	2078.8	1065.2	638.3	618.8	643.6	662.0	639.9	605.1	575.6	554.5	553.4
55°	2116.2	1080.5	604.6	571.9	595.1	633.0	616.7	566.6	542.9	533.4	532.3
57.5°	*2159.9*	*1083.1*	*551.3*	*520.7*	*552.9*	*597.7*	*577.1*	*533.9*	*508.1*	*496.5*	*495.4*
60°	2142.0	1018.3	494.4	481.7	517.1	564.5	545.5	508.1	478.1	467.0	465.9
62.5°	1632.3	718.9	452.8	448.0	478.6	516.5	512.8	473.8	445.4	437.5	436.4
65°	981.9	504.9	412.7	412.2	433.8	470.1	474.9	443.3	413.2	402.2	402.2
67.5°	485.4	386.3	367.4	364.7	378.4	404.3	424.3	398.5	373.2	362.6	361.0
70°	343.1	340.5	334.2	326.8	329.4	340.0	348.4	326.8	299.9	289.4	287.3
72.5°	296.7	297.3	293.1	287.3	285.1	277.8	270.4	254.6	238.2	227.2	228.2
75°	230.3	231.4	234.0	231.9	226.1	218.2	210.3	190.3	177.1	166.6	164.4
77.5°	134.4	139.7	148.1	146.0	147.1	136.0	132.8	113.3	101.2	93.8	92.2
80°	75.9	79.1	82.8	85.4	82.2	77.5	70.6	60.1	56.4	51.1	50.1
82.5°	45.9	49.0	50.6	52.7	51.7	45.3	40.1	33.2	30.0	27.4	26.9
85°	23.2	25.3	26.9	27.9	24.8	20.6	18.4	14.8	12.6	11.1	11.1
87.5°	5.8	6.3	7.4	6.3	5.8	2.6	2.1	0.5	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

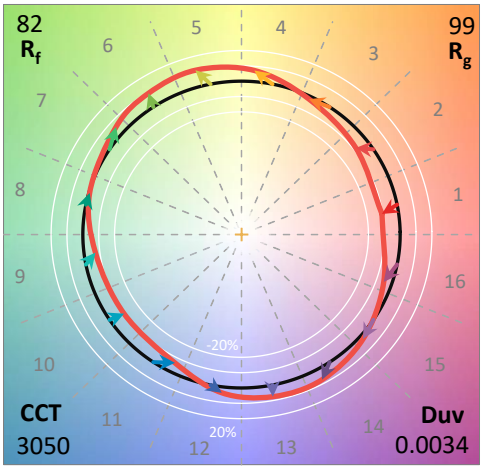
Test Information

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

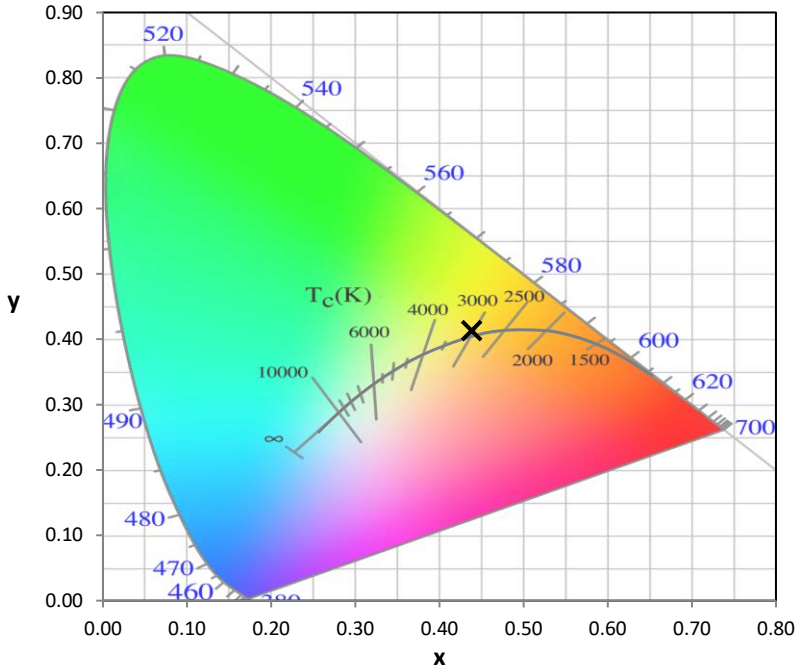
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

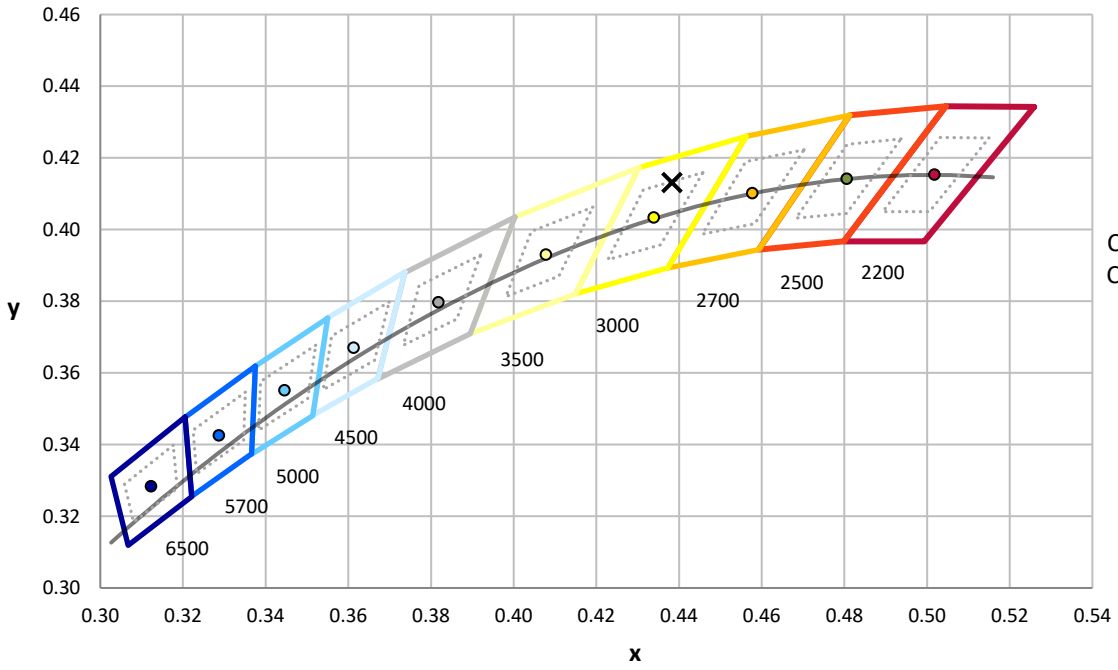
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

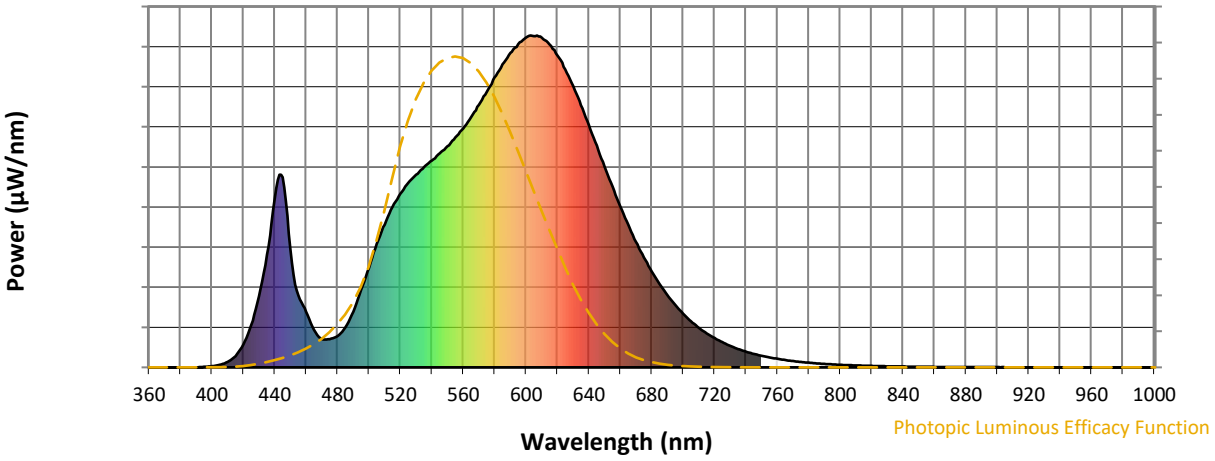


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

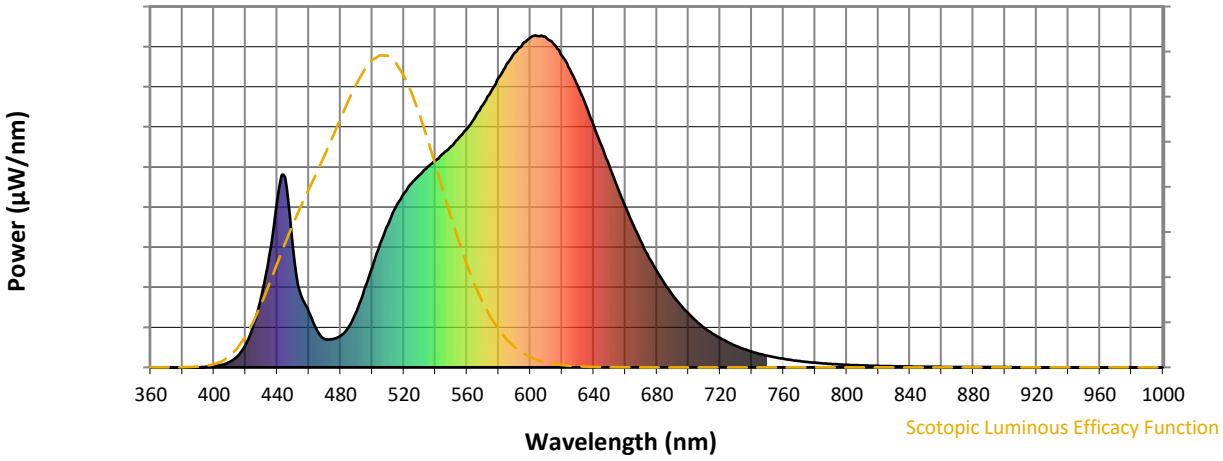


Photopic Lumens: NR

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

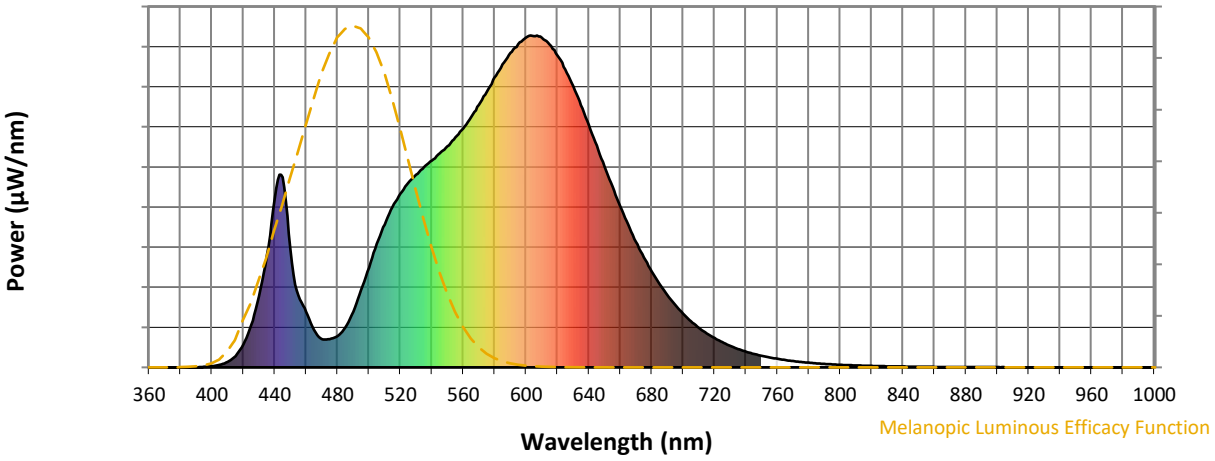


Scotopic Lumens: NR **S/P: 1.27**

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			

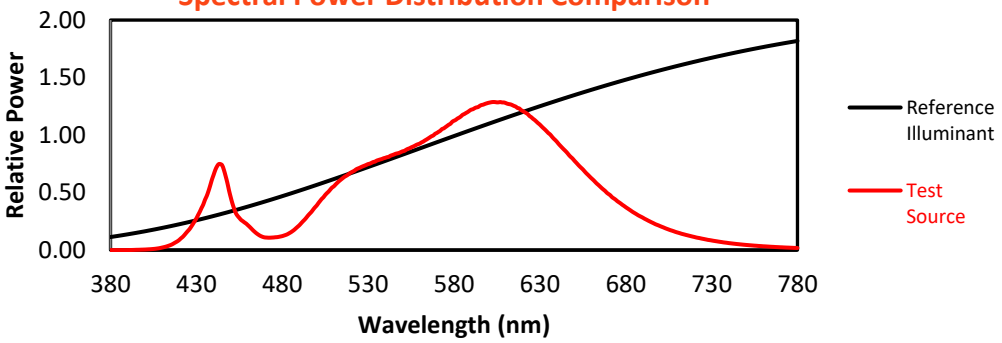
REPORT NUMBER: SP1-2408-195-9

TM-30-18

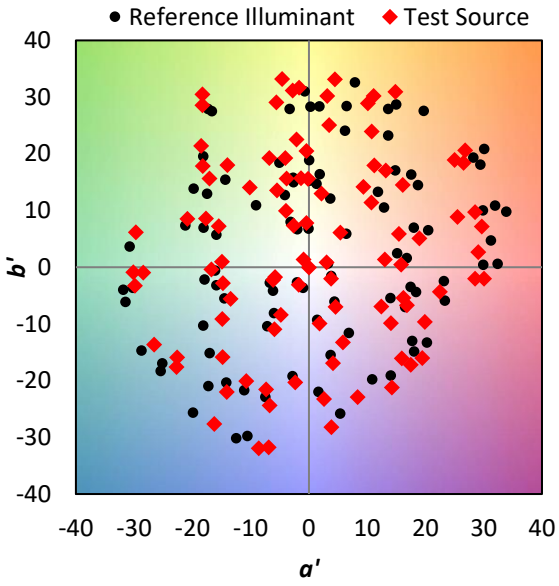
Summary

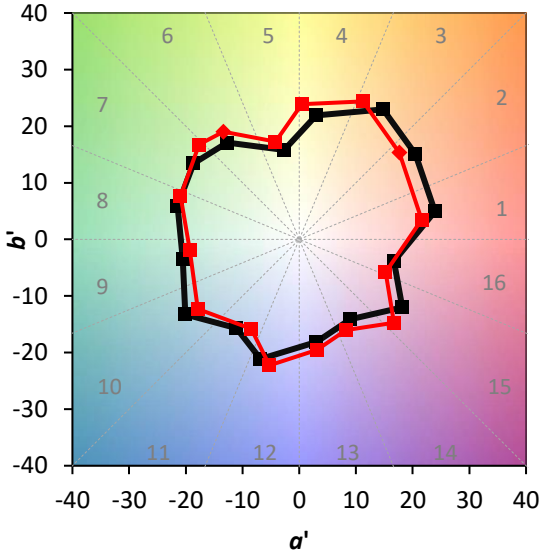
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

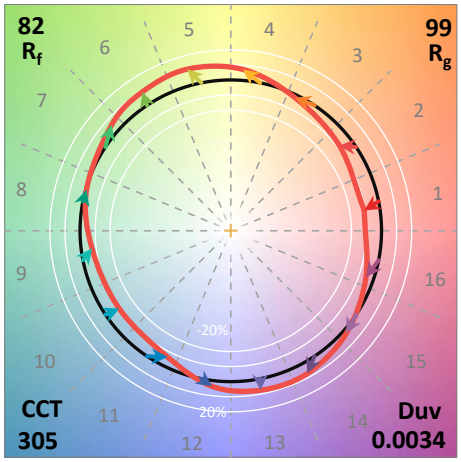
Spectral Power Distribution Comparison

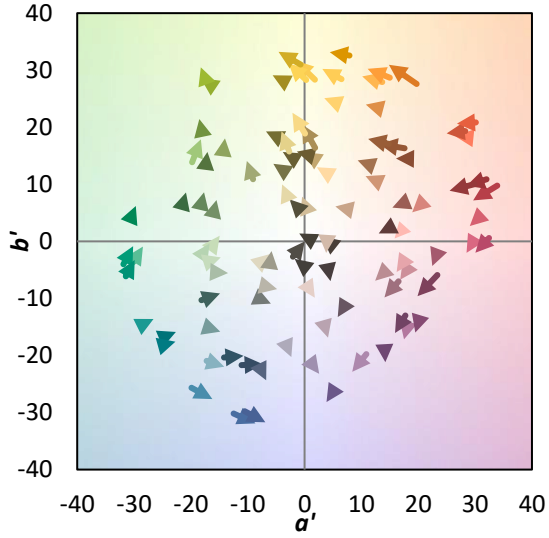


Color Vector Graphics







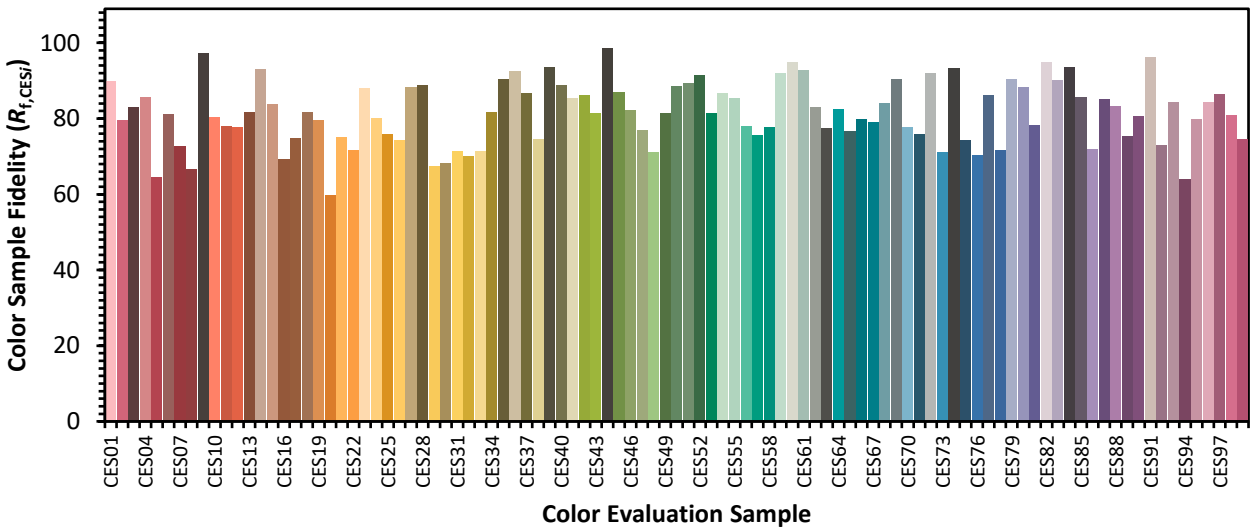


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

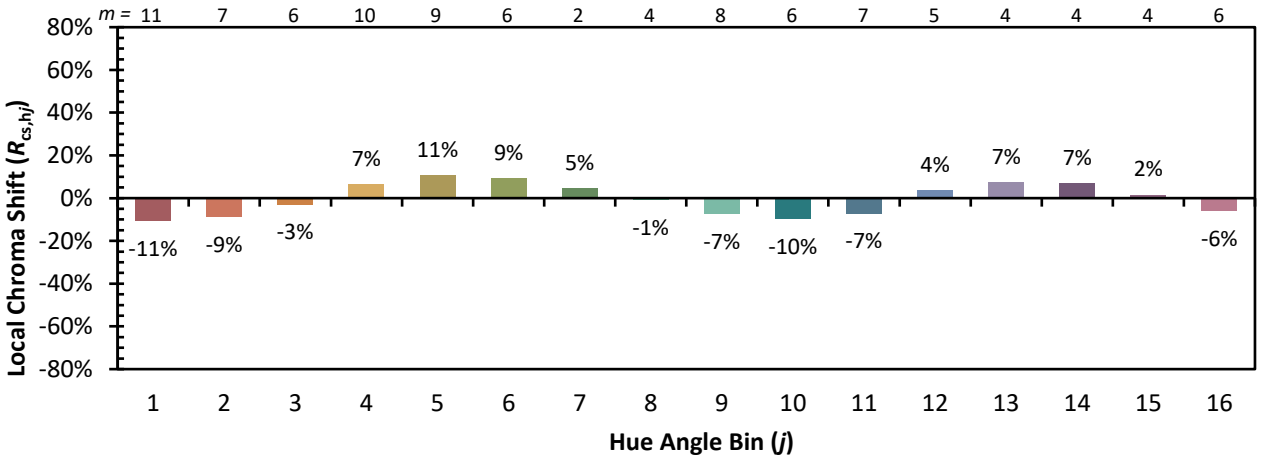
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

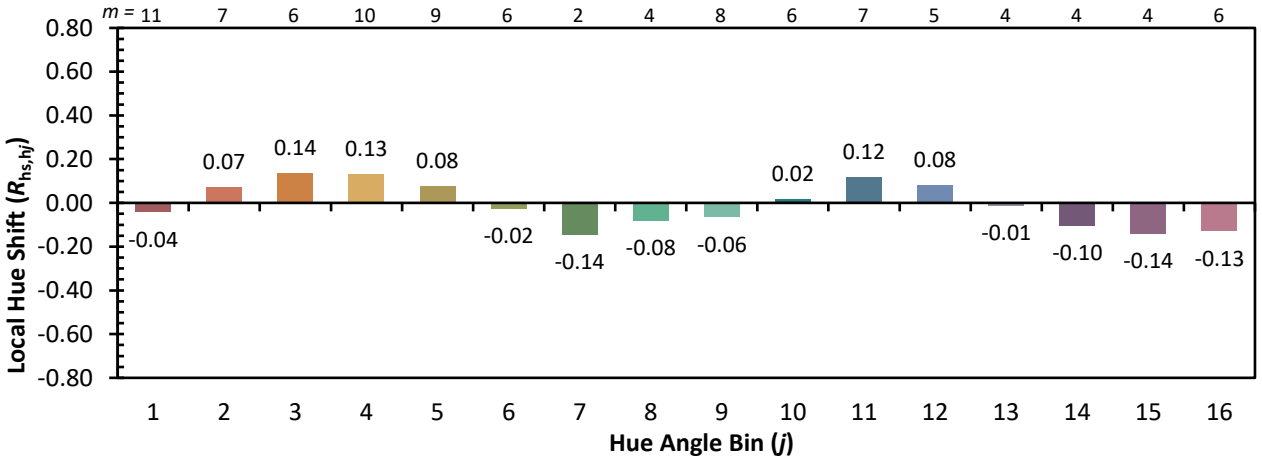


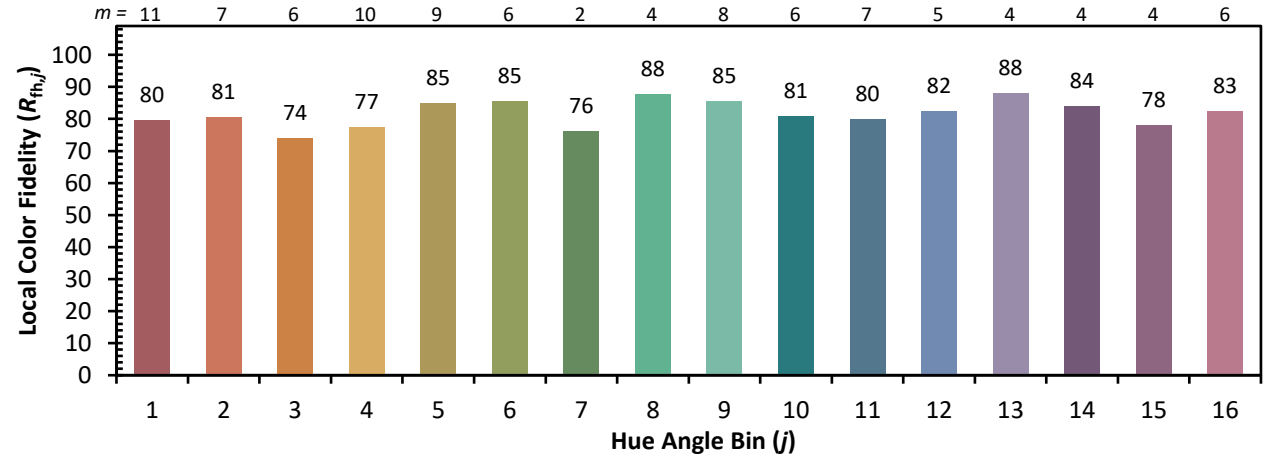
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



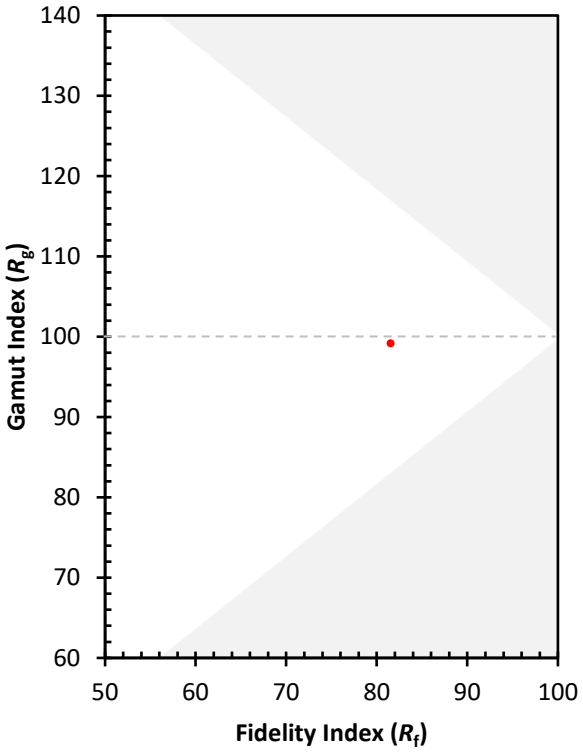


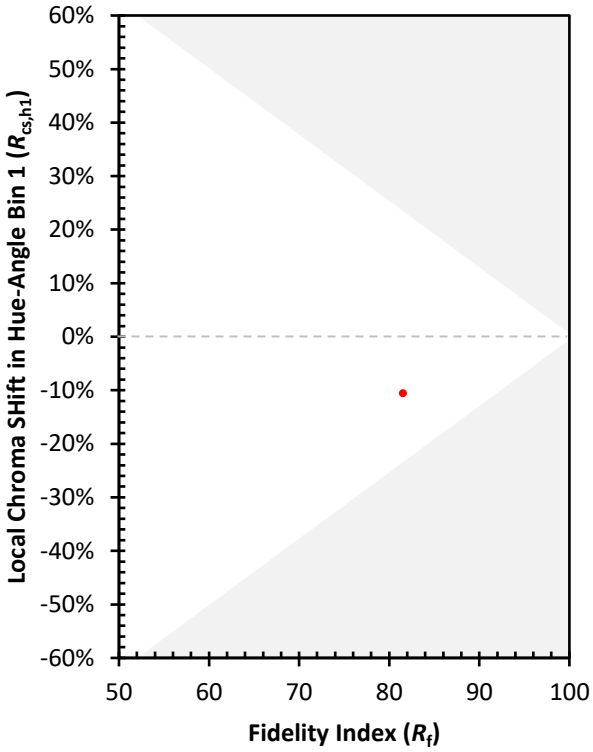


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)