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: P632537

Luminaire Tested: GWS-SA2C-830-U-SL4-W-HSS

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:	P632537
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SL4-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5793 lumens
Efficiency:	N/A
Efficacy:	91.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

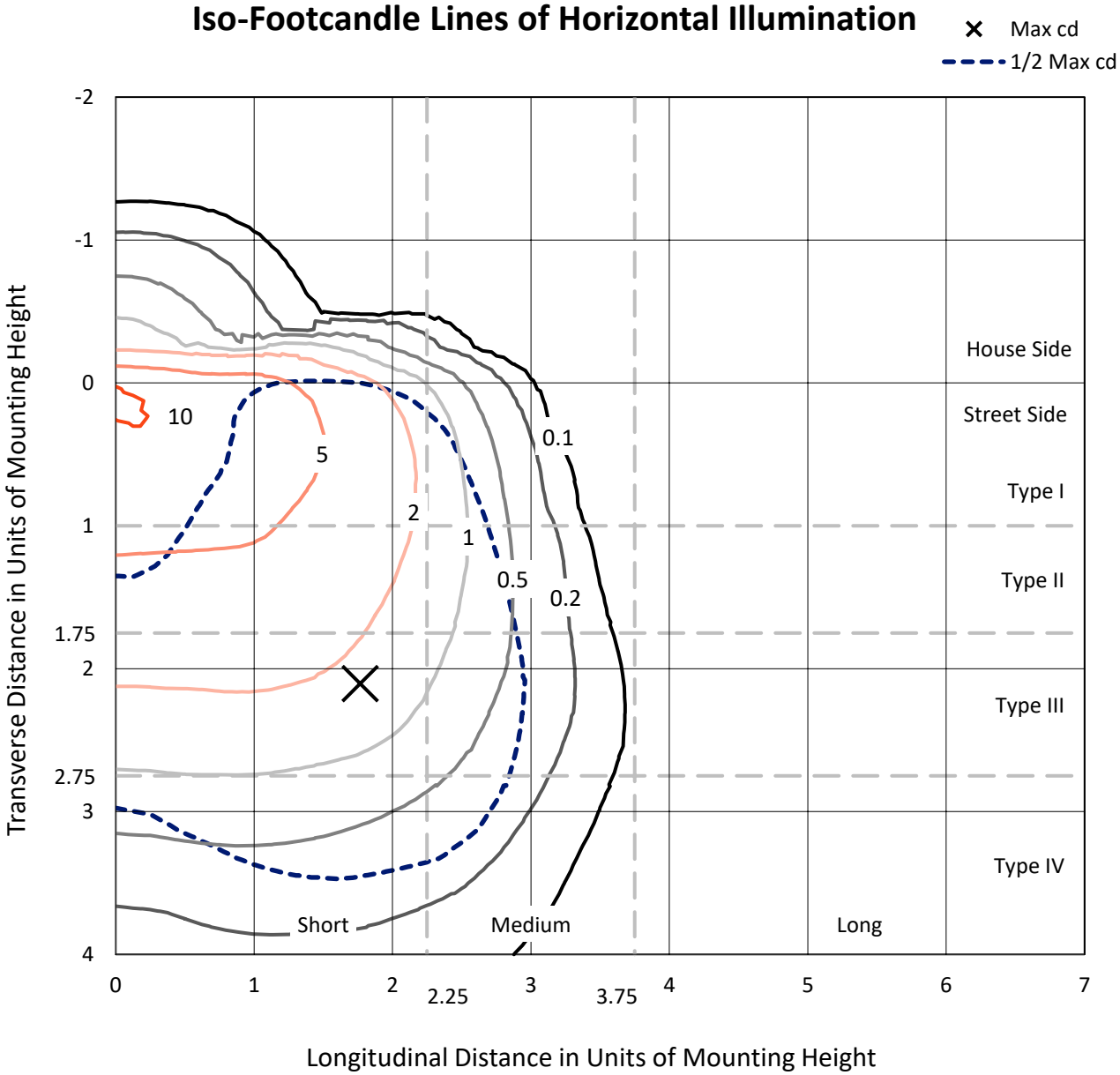
Input Watts (W):	63.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



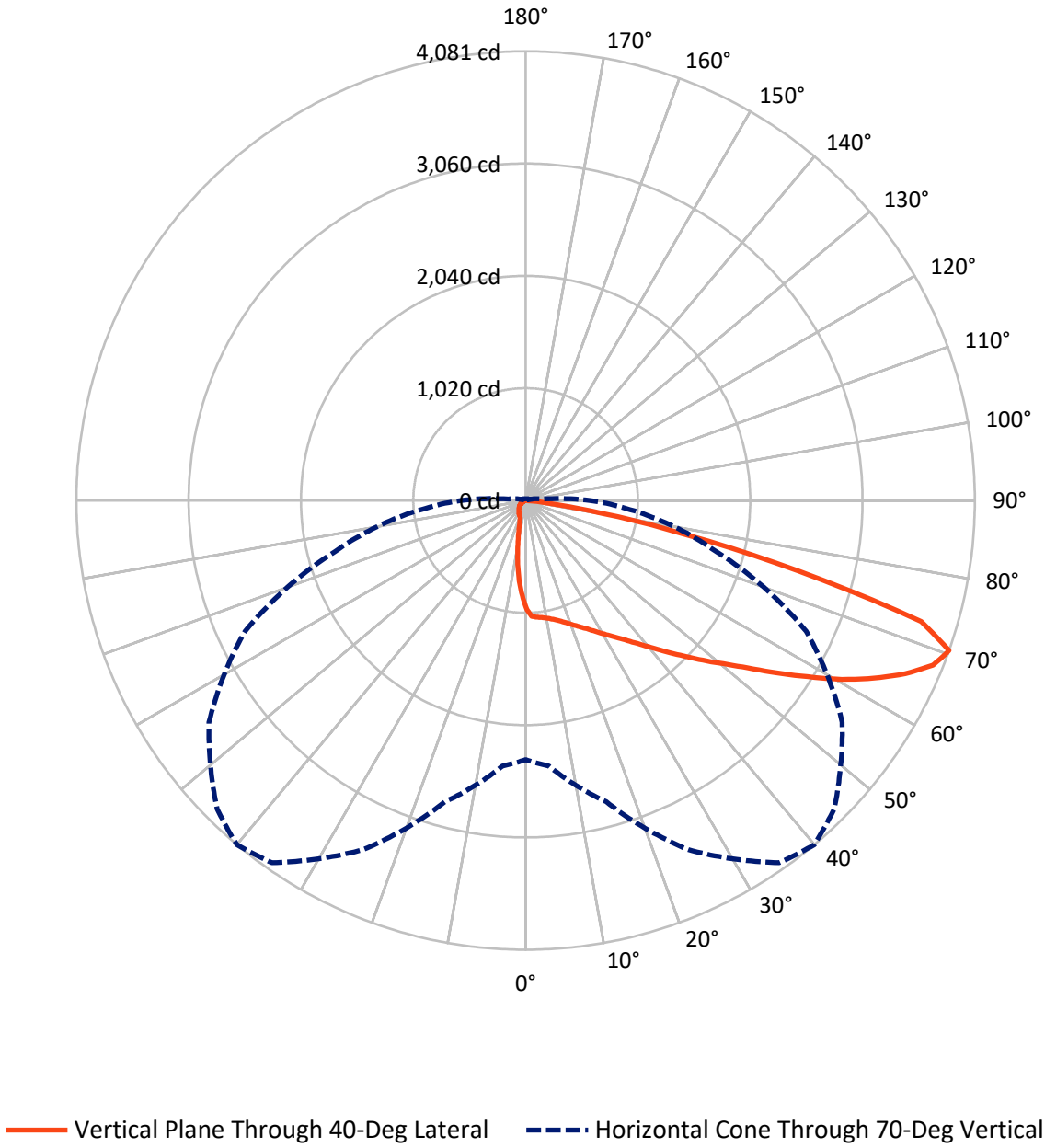
Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

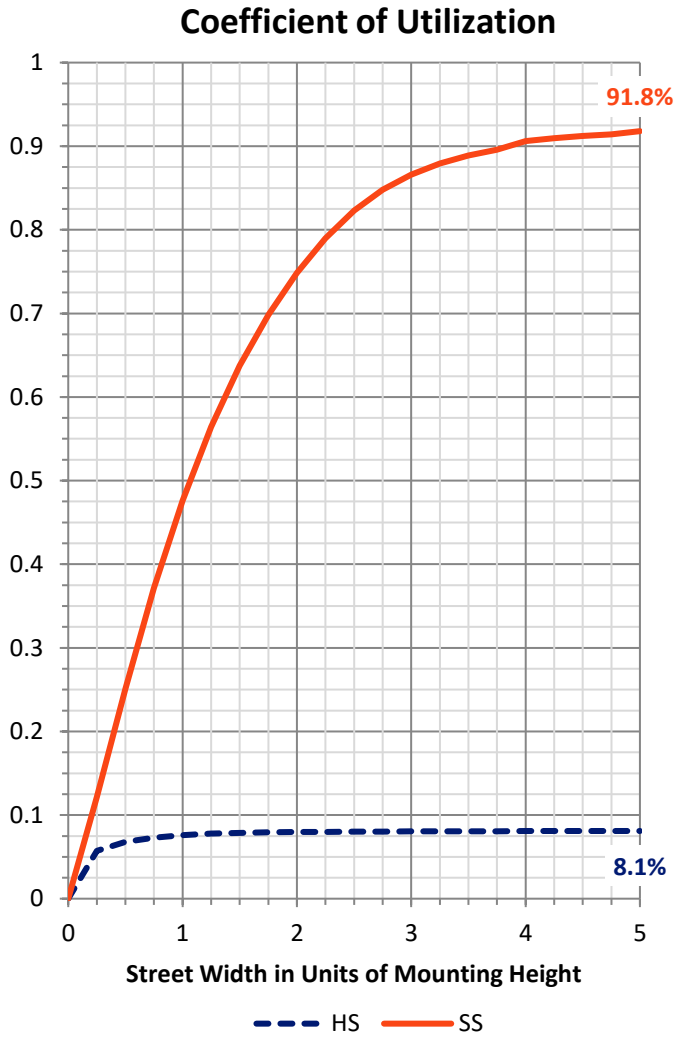
REPORT NUMBER: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.7	0.0	473.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	5319.3	0.0	5319.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	5793.0	0.0	5793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.4
10°-20°	210.7	3.6
20°-30°	352.7	6.1
30°-40°	553.9	9.6
40°-50°	876.2	15.1
50°-60°	1278.1	22.1
60°-70°	1584.4	27.4
70°-80°	801.6	13.8
80°-90°	52.3	0.9
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°	5793.0	100.0
0°-180°	5793.0	100.0



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

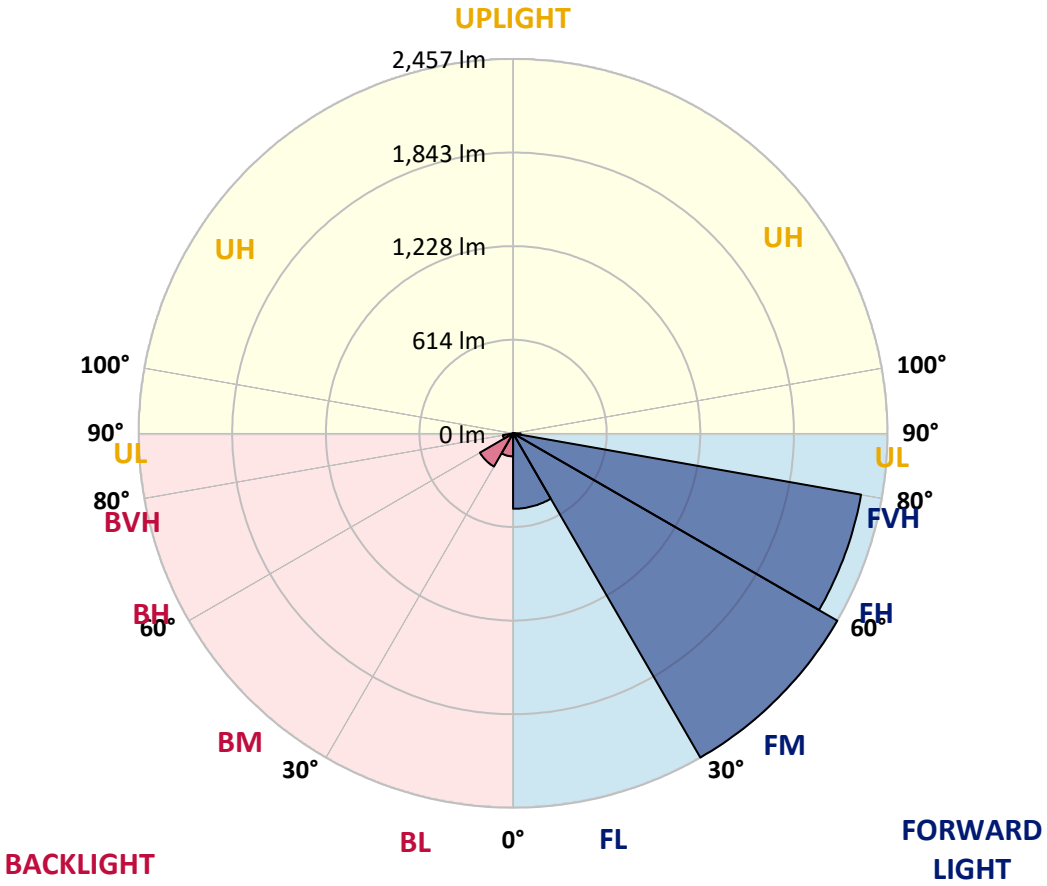
Scaled Data Report

REPORT NUMBER: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	495.2	8.5			
FM	(30°-60°)	2456.7	42.4			
FH	(60°-80°)	2318.5	40.0			G2/5000
FVH	(80°-90°)	48.9	0.8			G1/100
BL	(0°-30°)	151.3	2.6	B1/500		
BM	(30°-60°)	251.4	4.3	B1/1000		
BH	(60°-80°)	67.5	1.2	B0/110		G0/110
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	983.0	983.0	983.0	983.0	983.0	*983.0*	983.0	983.0	983.0	983.0	983.0
2.5°	1056.8	1060.5	1060.0	1061.5	1057.8	*1052.1*	1051.0	1043.1	1028.9	1010.9	990.9
5°	1078.4	1082.6	1079.5	1077.9	1071.0	*1064.7*	1063.1	1054.7	1038.3	1014.1	979.3
7.5°	1096.9	1097.9	1095.8	1092.1	1082.1	*1073.7*	1067.9	1056.3	1036.8	1012.5	972.5
10°	1100.0	1099.5	1100.5	1101.1	1094.7	*1087.4*	1082.6	1066.8	1042.0	1016.2	973.0
12.5°	1096.3	1096.3	1103.2	1111.1	1111.1	*1107.4*	1102.6	1088.4	1059.4	1028.9	983.5
15°	1101.1	1102.6	1115.8	1130.6	1135.3	*1131.6*	1129.5	1114.8	1084.7	1051.0	1002.5
17.5°	1117.9	1119.5	1140.6	1162.7	1168.5	*1164.3*	1160.1	1145.3	1113.2	1076.3	1024.1
20°	1142.7	1146.9	1173.8	1202.3	1207.5	*1202.3*	1193.8	1173.3	1141.1	1103.7	1044.7
22.5°	1188.0	1190.7	1219.7	1249.7	1252.3	*1243.9*	1231.3	1202.8	1169.1	1132.7	1067.9
25°	1248.1	1251.8	1280.8	1309.8	1302.9	*1290.3*	1272.9	1240.7	1202.3	1167.0	1097.4
27.5°	1319.8	1324.0	1352.5	1377.8	1359.9	*1345.1*	1325.6	1285.5	1246.5	1214.4	1135.3
30°	1397.3	1401.0	1426.3	1448.9	1425.2	*1407.8*	1384.6	1343.5	1304.0	1279.7	1189.1
32.5°	1472.1	1471.6	1495.9	1514.3	1490.1	*1476.3*	1455.3	1413.6	1382.0	1371.5	1269.2
35°	1541.7	1541.7	1561.7	1580.2	1562.8	*1555.4*	1535.9	1502.7	1484.8	1497.4	1376.2
37.5°	1611.8	1608.1	1627.1	1647.6	1646.1	*1646.6*	1635.5	1619.7	1620.8	1665.6	1523.3
40°	1669.8	1668.2	1690.3	1717.2	1738.3	*1755.2*	1748.3	1754.1	1787.3	1871.1	1711.4
42.5°	1716.2	1719.9	1748.3	1791.0	1844.3	*1878.5*	1883.3	1907.0	1992.4	2122.0	1923.8
45°	1769.4	1769.9	1809.5	1874.8	1959.7	*2014.0*	2032.9	2094.1	2215.3	2382.4	2156.8
47.5°	1834.8	1828.4	1872.7	1964.4	2087.2	*2167.3*	2201.1	2277.5	2465.1	2636.5	2346.6
50°	1907.0	1895.4	1945.4	2070.4	2230.1	*2330.2*	2398.7	2510.5	2712.9	2845.2	2487.8
52.5°	1990.8	1979.7	2036.6	2192.1	2401.4	*2523.1*	2611.2	2723.9	2925.3	3004.4	2572.1
55°	2097.2	2086.2	2146.3	2338.1	2603.8	*2761.9*	2854.1	2949.0	3122.9	3121.9	2633.3
57.5°	2215.3	2200.0	2283.3	2522.6	2856.2	*3020.7*	3114.5	3160.9	3273.2	3213.1	2674.4
60°	2350.8	2337.1	2452.5	2742.4	3147.7	*3300.0*	3359.1	3340.1	3396.5	3266.8	2660.2
62.5°	2473.1	2466.7	2610.1	2975.4	3425.5	*3554.1*	3570.4	3487.7	3487.2	3267.9	2564.2
65°	2600.1	2612.2	2825.1	3243.6	3704.8	*3791.3*	3763.3	3634.2	3523.5	3138.8	2280.7
67.5°	2647.5	2682.8	2966.9	3486.1	3925.2	*3992.6*	3943.6	3707.5	3372.3	2704.4	1736.7
70°	*2354.5*	*2420.9*	*2833.1*	*3499.8*	*4016.3*	*4080.6*	*3963.1*	*3510.3*	*2811.4*	*1791.5*	*951.4*
72.5°	1790.5	1868.0	2360.8	2865.7	3612.1	*3758.6*	3557.8	2859.9	1812.1	784.8	319.4
75°	1002.0	1085.8	1758.3	2157.9	2425.1	*2559.0*	2485.2	1834.8	802.7	205.0	95.4
77.5°	338.9	366.8	818.0	1335.1	1600.7	*1480.6*	1253.4	911.3	295.2	78.0	50.6
80°	200.8	211.4	304.7	664.6	842.3	*698.4*	551.3	336.8	150.2	41.6	35.3
82.5°	60.1	71.2	168.1	246.7	330.0	*205.6*	173.9	192.4	78.0	22.7	29.5
85°	0.0	0.0	35.8	76.4	86.4	*33.7*	33.7	109.1	14.2	9.5	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.5	2.6	1.6	2.1	4.7
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: P632537
CATALOG NUMBER: GWS-SA2C-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	976.7	958.2	936.6	916.1	896.6	871.3	859.1	844.4	831.7	824.9	828.6
5°	957.2	928.2	883.9	839.1	793.8	751.1	712.6	686.8	663.6	651.5	654.1
7.5°	940.3	901.3	832.3	759.0	686.3	613.0	553.4	507.1	471.2	456.5	453.8
10°	932.9	883.9	786.4	681.0	569.2	470.7	386.3	335.2	298.9	280.9	284.1
12.5°	936.6	875.0	747.4	604.6	459.6	344.7	264.1	216.1	190.3	179.7	177.1
15°	947.2	872.8	712.6	526.6	354.7	240.9	182.4	162.9	157.6	156.5	156.5
17.5°	959.3	873.4	676.8	447.5	269.3	178.7	156.0	152.3	150.7	149.7	150.2
20°	971.4	873.4	635.7	367.4	202.4	154.4	148.6	146.0	144.4	143.9	143.9
22.5°	986.2	873.4	589.8	293.1	162.3	146.5	141.8	140.2	138.6	138.1	137.6
25°	1004.1	873.9	539.2	229.3	147.6	139.7	136.0	134.4	132.8	131.8	131.8
27.5°	1029.9	878.1	483.3	178.7	139.1	133.4	130.2	128.6	127.0	125.4	125.4
30°	1067.3	888.7	420.6	147.6	131.2	126.5	123.3	122.3	120.7	119.1	118.6
32.5°	1123.2	907.1	355.8	132.3	123.9	119.1	115.4	114.4	112.8	111.2	110.7
35°	1201.2	940.8	292.5	122.8	114.4	109.6	107.5	107.0	104.9	103.3	103.3
37.5°	1315.6	995.7	231.9	113.3	106.5	102.8	100.1	99.1	97.0	95.4	94.9
40°	1455.3	1066.8	180.3	105.9	99.1	95.4	92.8	91.2	88.5	86.4	85.4
42.5°	1633.4	1153.8	142.3	98.0	92.2	88.5	86.4	83.3	79.6	76.4	75.9
45°	1819.0	1243.4	117.5	90.7	85.9	82.8	80.1	75.9	70.6	66.9	65.9
47.5°	1961.3	1299.3	102.8	82.8	79.1	76.4	73.3	68.0	61.7	57.5	56.4
50°	2063.0	1307.7	91.7	75.4	73.3	70.6	65.9	59.6	52.7	48.5	47.4
52.5°	2113.1	1269.7	82.8	68.5	66.9	64.3	58.5	51.7	44.3	40.1	39.0
55°	2135.7	1198.1	74.3	62.7	60.6	57.5	51.1	43.7	36.4	32.7	31.6
57.5°	2126.8	1092.1	66.9	56.9	54.3	50.6	43.7	35.8	30.0	26.4	25.8
60°	2060.4	943.5	59.6	51.1	48.0	43.7	36.9	29.5	24.2	21.6	21.1
62.5°	1917.0	759.0	52.2	44.3	42.2	37.9	31.6	24.2	20.0	18.4	17.9
65°	1623.4	536.6	44.8	37.4	36.4	32.2	26.4	20.0	17.4	16.3	15.8
67.5°	1167.0	326.3	37.9	32.2	31.1	27.4	22.1	17.4	15.8	15.3	15.3
70°	*586.6*	*154.4*	*30.0*	*26.4*	*26.4*	*22.7*	*19.0*	*15.8*	*15.3*	*14.8*	*14.8*
72.5°	199.2	65.9	22.7	20.6	21.6	19.5	16.3	14.8	14.8	14.8	14.8
75°	68.0	34.8	15.8	14.8	15.8	15.8	14.2	14.2	14.8	14.8	14.8
77.5°	44.3	23.2	11.1	10.0	12.1	12.1	12.1	13.2	14.2	14.2	14.2
80°	36.4	12.6	7.4	6.9	9.0	9.0	10.0	12.1	13.2	13.2	13.2
82.5°	31.1	7.9	4.2	4.7	6.3	6.9	8.4	10.0	11.6	12.1	12.1
85°	21.1	4.2	3.2	3.7	4.2	5.3	6.9	8.4	9.5	10.5	10.5
87.5°	5.8	1.6	2.1	2.6	2.6	3.7	5.3	6.3	7.4	7.9	7.9
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

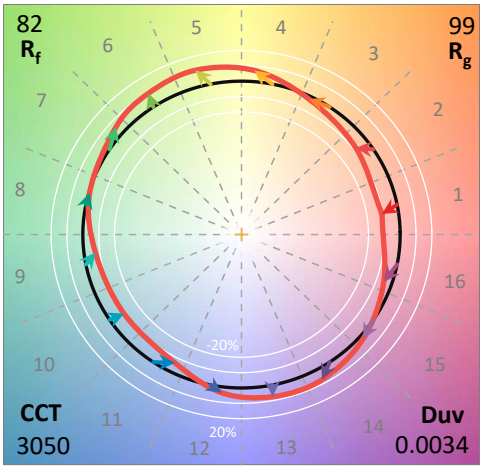
Test Information

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

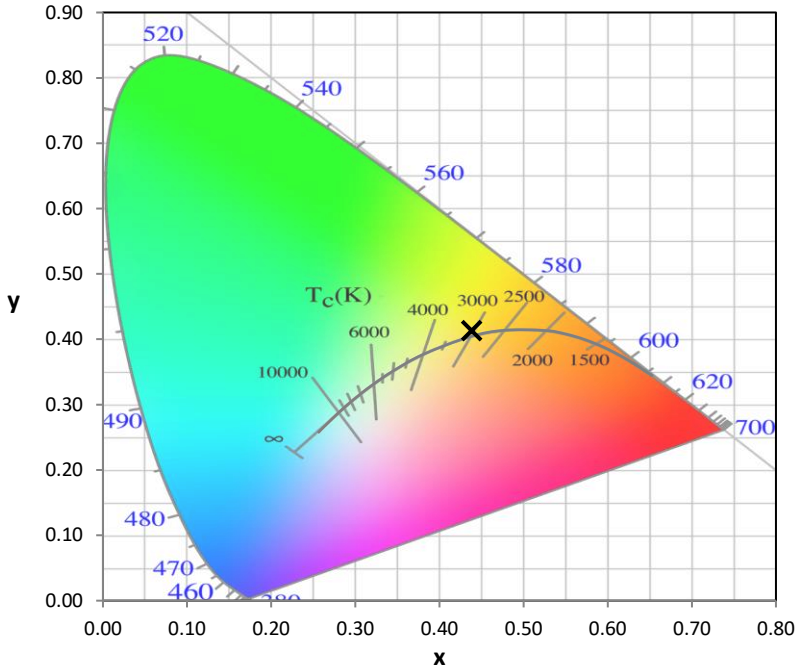
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

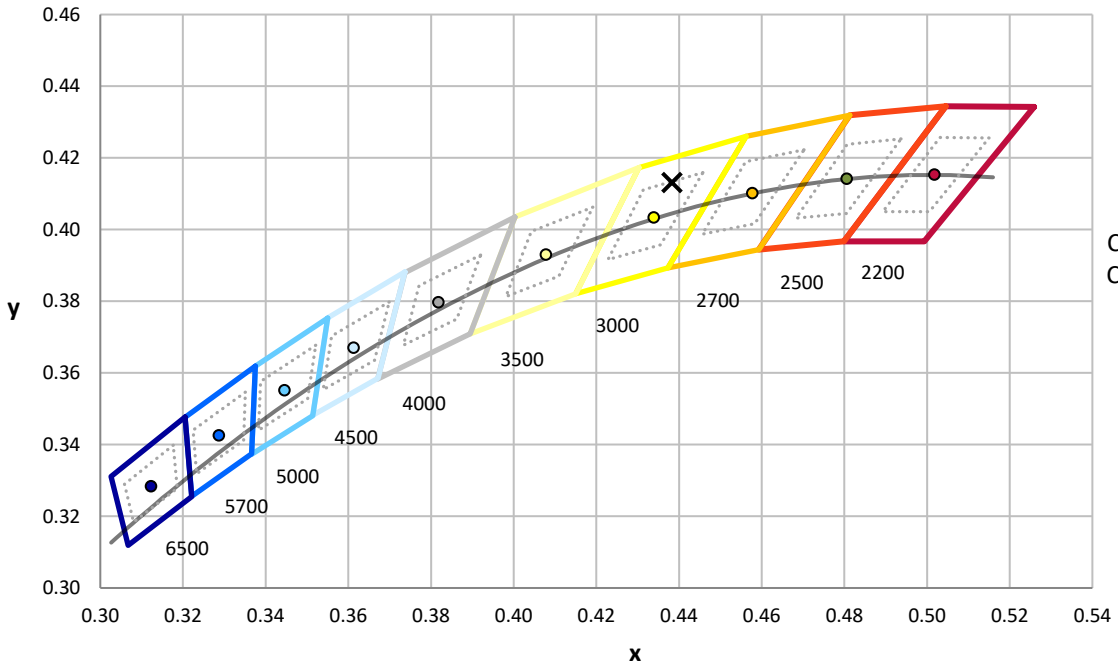
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

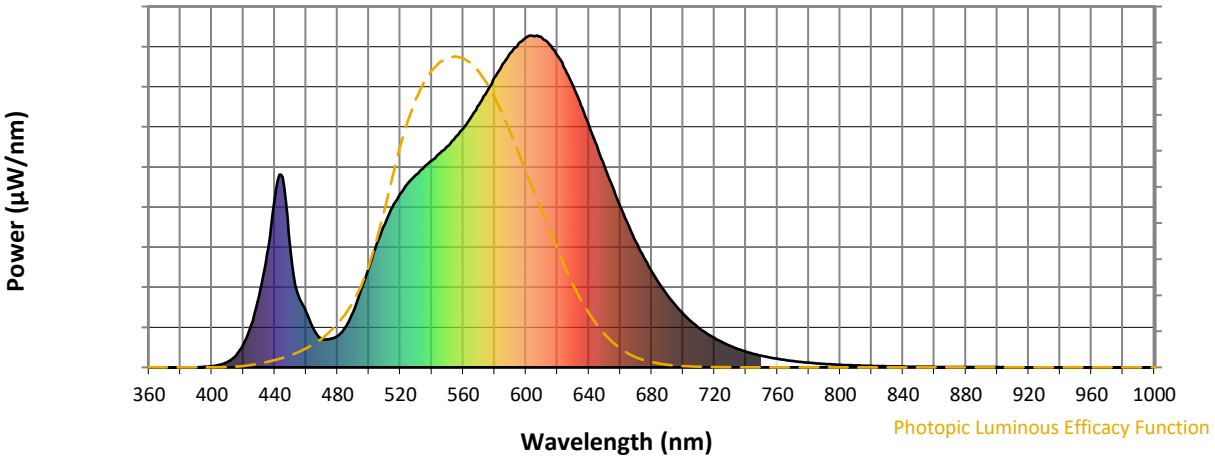


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

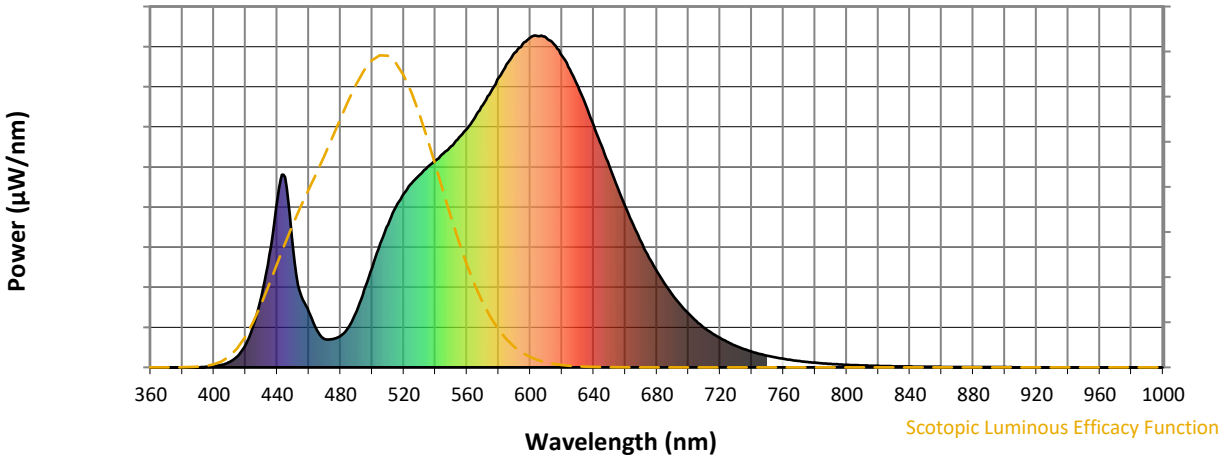


Photopic Lumens: NR

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

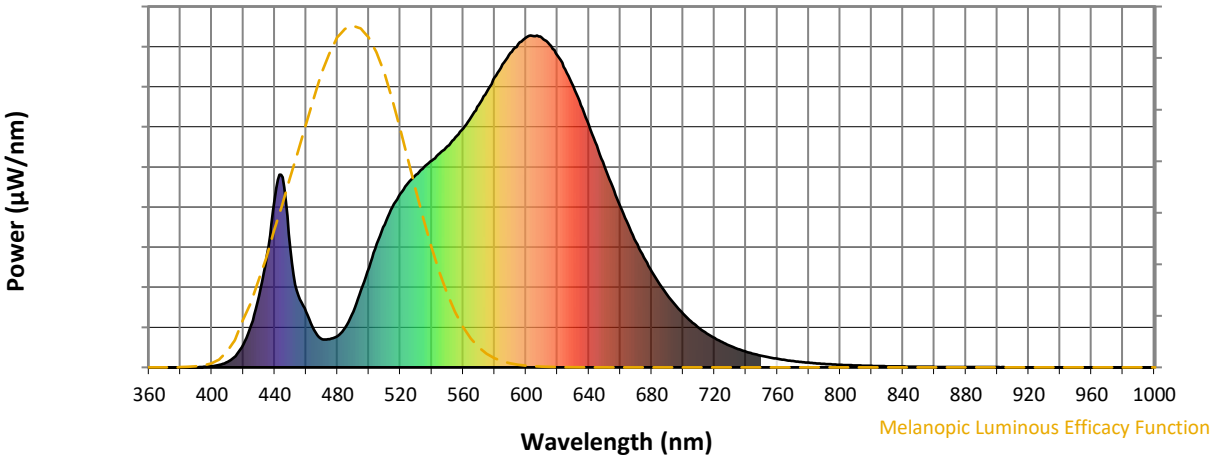


Scotopic Lumens: NR **S/P: 1.27**

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			

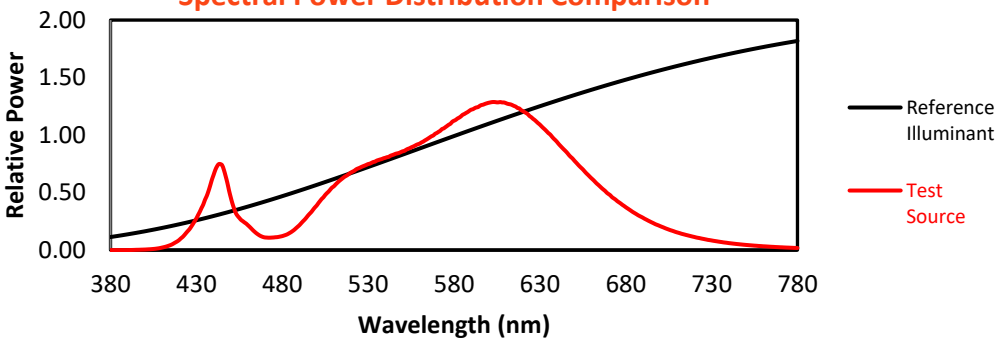
REPORT NUMBER: SP1-2408-195-9

TM-30-18

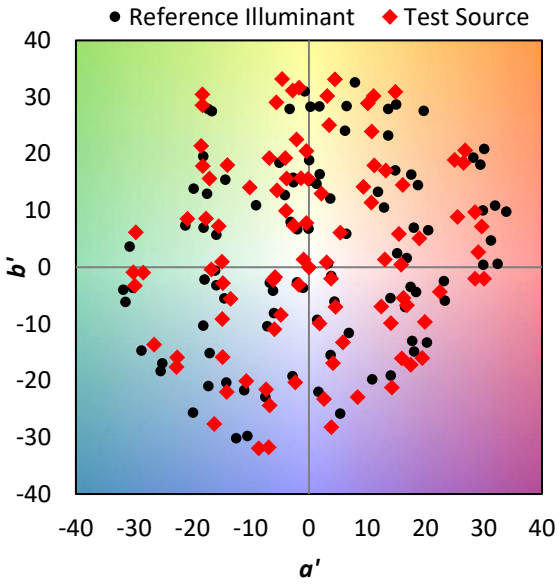
Summary

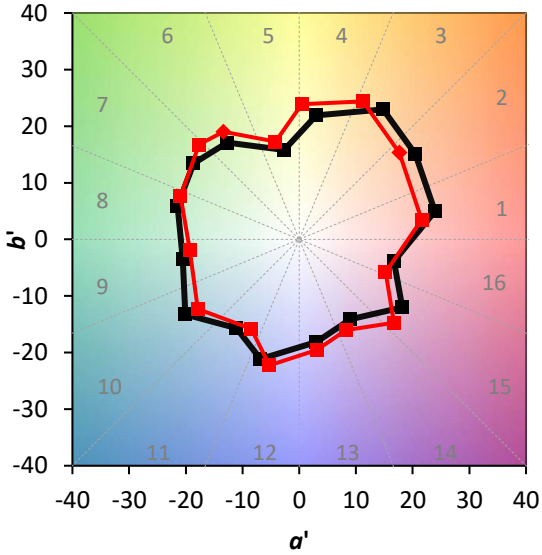
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

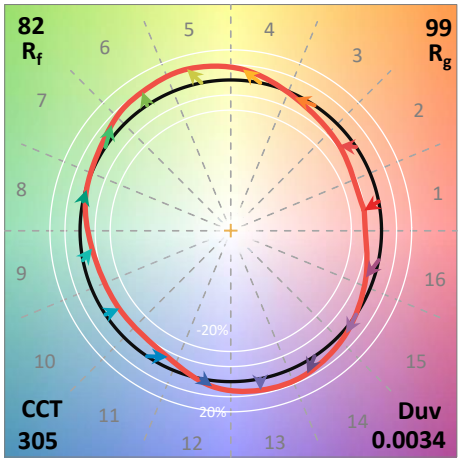
Spectral Power Distribution Comparison

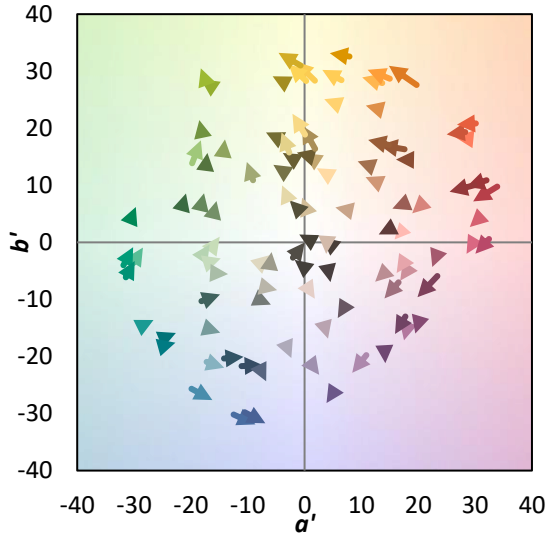


Color Vector Graphics







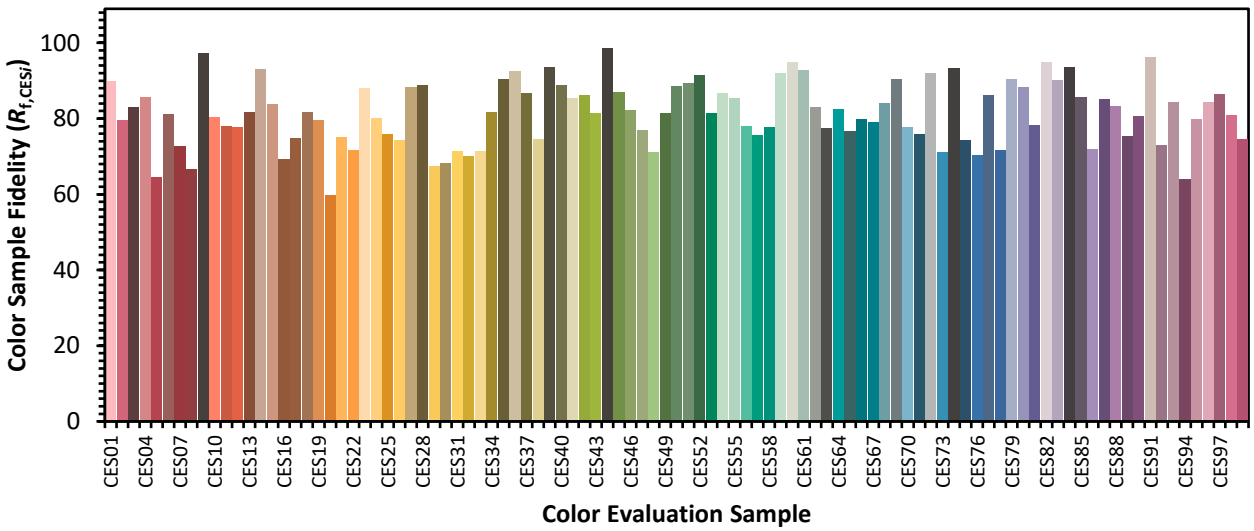


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

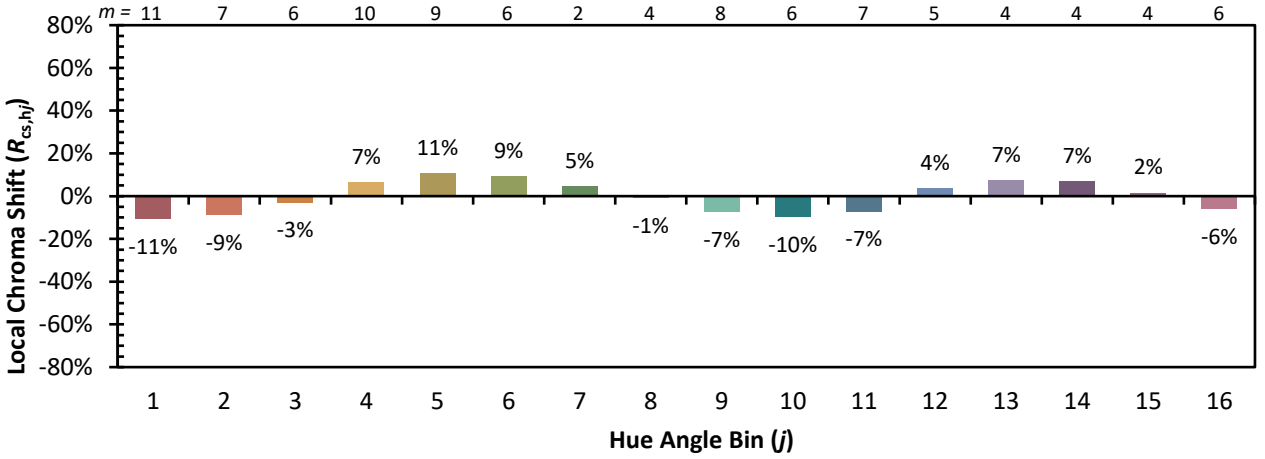
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

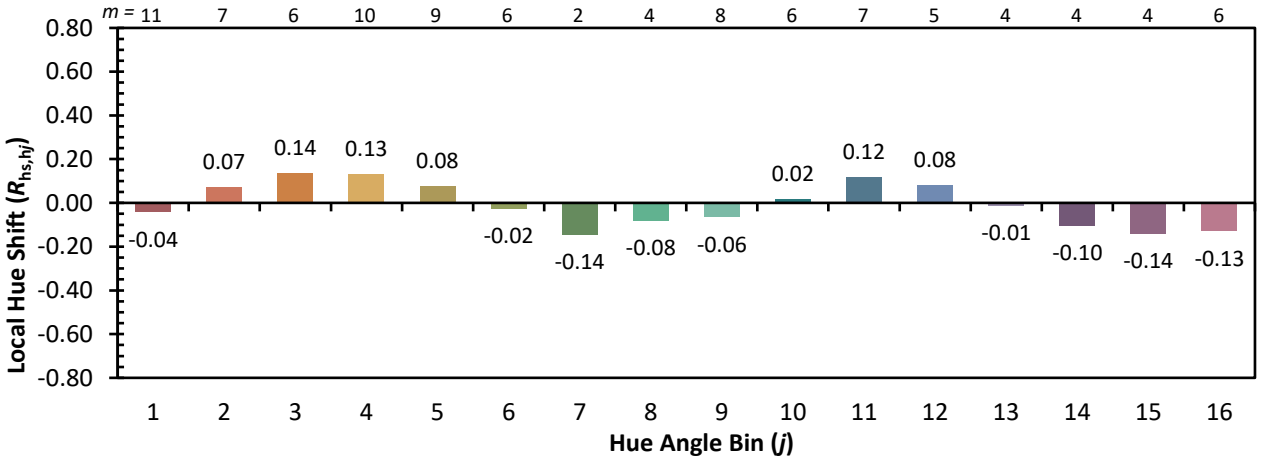


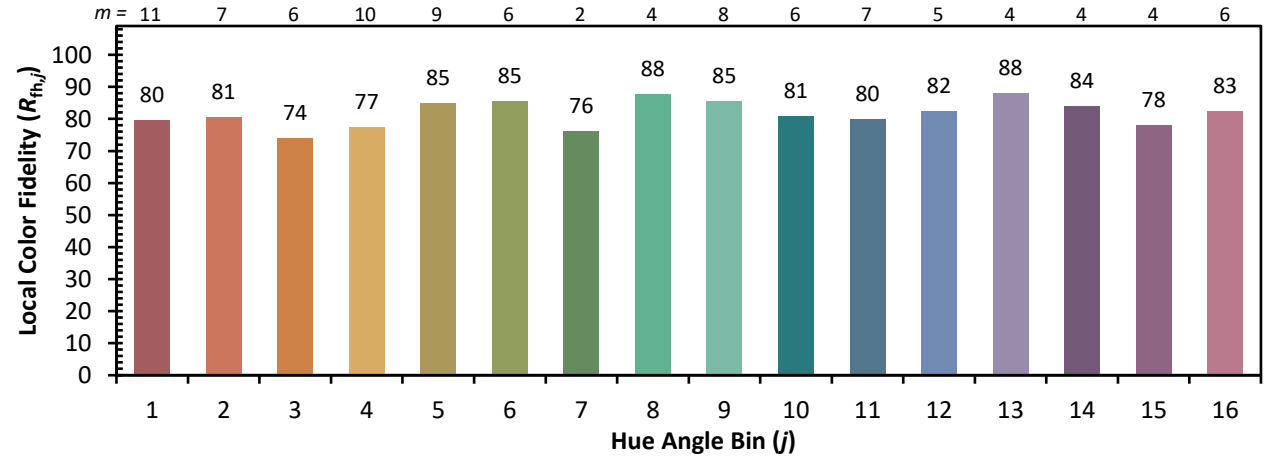
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



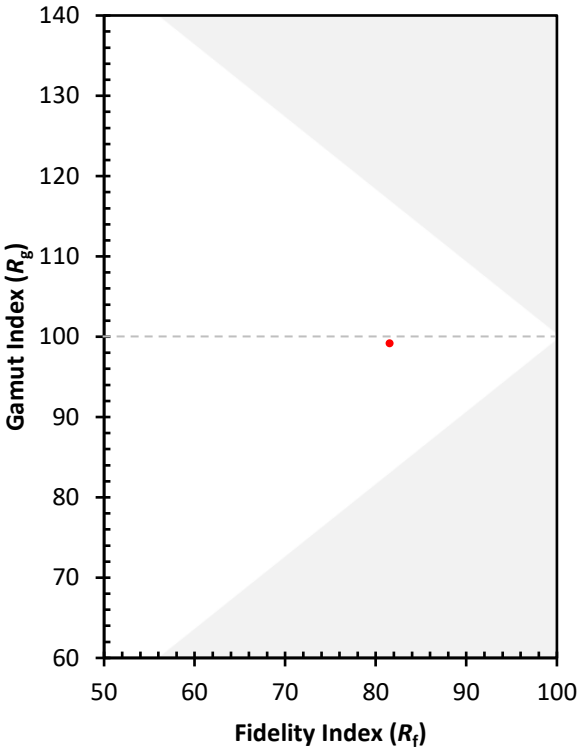


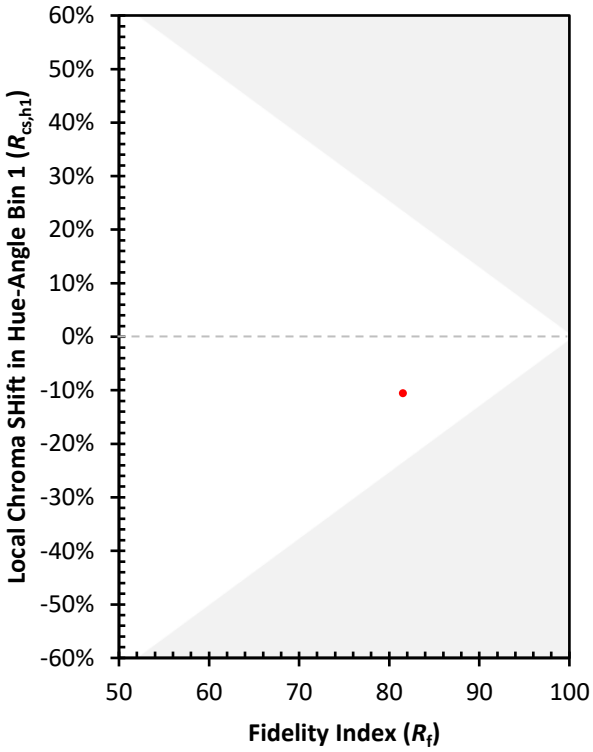


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)