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: P639495

Luminaire Tested: GWS-SA5B-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:	P639495
	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-SA5B-830-U-T4FT-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13624.2 lumens
Efficiency:	N/A
Efficacy:	117.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

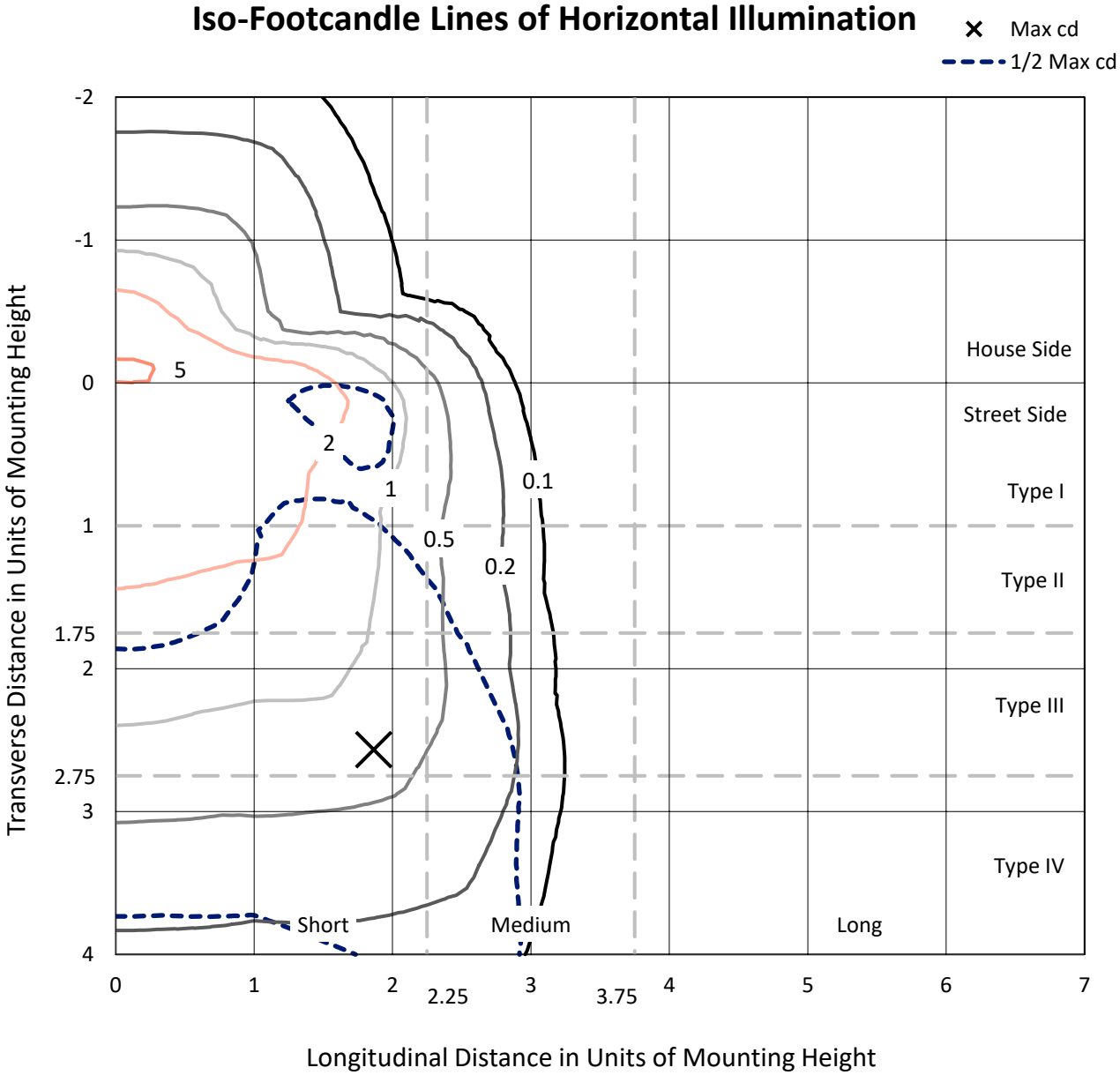
Input Watts (W):	115.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P639495
CATALOG NUMBER: GWS-SA5B-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination



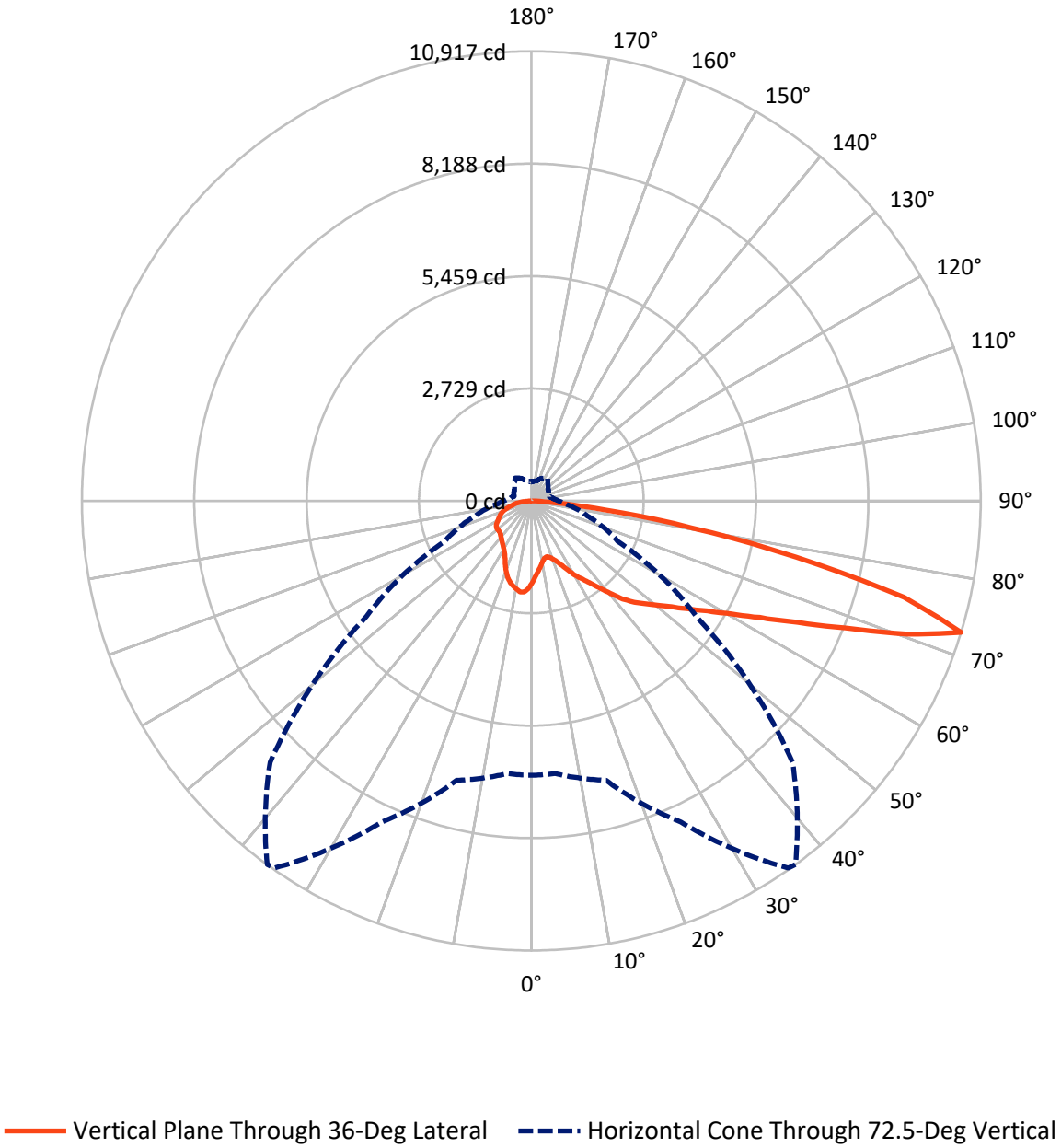
Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P639495
CATALOG NUMBER: GWS-SA5B-830-U-T4FT-W

Luminous Intensity Polar Plot



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

Scaled Data Report

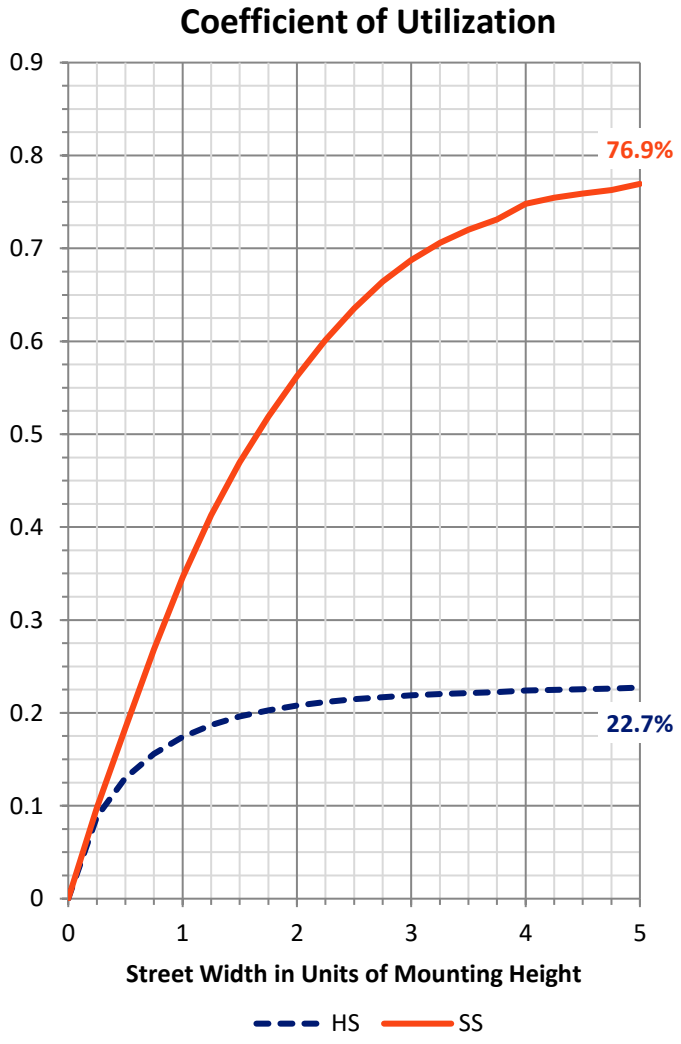
REPORT NUMBER: P639495
CATALOG NUMBER: GWS-SA5B-830-U-T4FT-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3141.0	0.0	3141.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	10483.2	0.0	10483.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	13624.2	0.0	13624.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	1.4
10°-20°	525.9	3.9
20°-30°	870.9	6.4
30°-40°	1304.2	9.6
40°-50°	1902.7	14.0
50°-60°	2708.2	19.9
60°-70°	3421.6	25.1
70°-80°	2438.2	17.9
80°-90°	266.2	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°	13624.2	100.0
0°-180°	13624.2	100.0



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

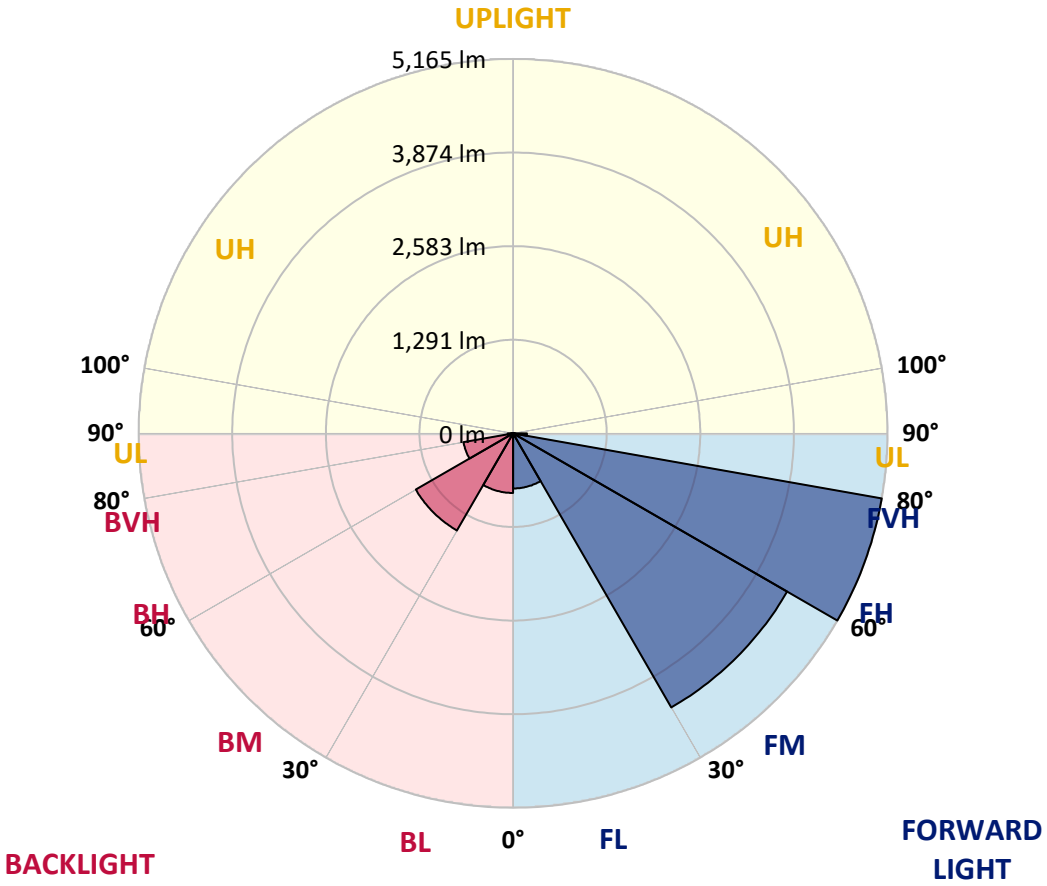
Scaled Data Report

REPORT NUMBER: P639495
CATALOG NUMBER: GWS-SA5B-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°)	760.6	5.6			
FM	(30°-60°)	4366.2	32.0			
FH	(60°-80°)	5165.4	37.9			G3/7500
FVH	(80°-90°)	191.0	1.4			G2/225
BL	(0°-30°)	822.5	6.0	B2/1000		
BM	(30°-60°)	1548.9	11.4	B2/2500		
BH	(60°-80°)	694.4	5.1	B2/1000		G2/1000
BVH	(80°-90°)	75.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P639495
CATALOG NUMBER: GWS-SA5B-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	*1994.0*	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1819.0	1816.0	1809.9	1828.1	1846.3	*1844.3*	1869.6	1893.9	1920.1	1947.5	1983.9
5°	1673.4	1671.4	1666.4	1693.7	1721.0	*1719.9*	1761.4	1800.8	1854.4	1913.1	1985.9
7.5°	1527.8	1522.8	1529.9	1564.2	1602.7	*1606.7*	1663.3	1728.0	1805.9	1893.9	1997.0
10°	1399.4	1398.4	1401.4	1439.9	1497.5	*1501.5*	1574.3	1664.3	1767.5	1884.8	2022.3
12.5°	1366.0	1364.0	1355.9	1375.1	1418.6	*1424.7*	1504.6	1614.8	1741.2	1889.8	2056.7
15°	1420.6	1415.6	1387.3	1378.2	1399.4	*1404.5*	1472.2	1585.5	1726.0	1898.9	2100.1
17.5°	1514.7	1511.7	1458.1	1420.6	1434.8	*1438.8*	1489.4	1580.4	1722.0	1917.1	2153.7
20°	1652.2	1639.1	1555.1	1498.5	1498.5	*1504.6*	1534.9	1602.7	1727.0	1939.4	2214.4
22.5°	1834.2	1807.9	1689.6	1612.8	1592.5	*1600.6*	1613.8	1658.3	1748.3	1976.8	2290.2
25°	2038.5	2014.2	1873.6	1765.4	1737.1	*1740.2*	1729.0	1737.1	1794.8	2028.3	2384.3
27.5°	2255.8	2239.7	2090.0	1952.5	1908.0	*1908.0*	1868.6	1849.4	1859.5	2087.0	2489.4
30°	2450.0	2427.7	2301.3	2150.7	2092.0	*2092.0*	2017.2	1975.8	1951.5	2158.8	2630.0
32.5°	2552.1	2539.0	2455.0	2339.8	2268.0	*2256.9*	2192.1	2143.6	2087.0	2264.9	2820.1
35°	2685.6	2682.5	2632.0	2542.0	2451.0	*2434.8*	2390.3	2351.9	2253.8	2397.4	3072.8
37.5°	2853.4	2848.4	2840.3	2786.7	2677.5	*2674.5*	2635.0	2588.5	2461.1	2588.5	3379.2
40°	3041.5	3032.4	3022.3	3021.3	2955.6	*2944.4*	2941.4	2888.8	2710.9	2819.1	3698.7
42.5°	3300.4	3269.0	3174.0	3216.4	3265.0	*3254.9*	3293.3	3214.4	3022.3	3093.1	4001.1
45°	3618.9	3542.0	3353.9	3366.1	3488.4	*3508.6*	3642.1	3622.9	3365.1	3409.6	4319.6
47.5°	3810.0	3743.2	3568.3	3558.2	3710.9	*3736.2*	4026.3	4062.7	3734.1	3790.8	4712.9
50°	3966.7	3920.2	3776.6	3790.8	3952.5	*3977.8*	4407.5	4485.4	4082.0	4181.1	5169.9
52.5°	4155.8	4089.0	3977.8	4044.5	4242.7	*4273.1*	4831.2	4915.1	4395.4	4609.8	5643.2
55°	4261.9	4234.6	4236.7	4338.8	4587.5	*4629.0*	5275.1	5260.9	4682.6	4976.8	5999.1
57.5°	4506.6	4496.5	4589.6	4628.0	4990.0	*5043.6*	5719.0	5597.7	4943.5	5260.9	6170.0
60°	4938.4	4913.1	4994.0	5052.7	5487.4	*5563.3*	6214.4	5927.3	5120.4	5472.3	6112.3
62.5°	5545.1	5513.7	5516.8	5609.8	6153.8	*6233.7*	6765.5	6202.3	5175.0	5504.6	5747.3
65°	6299.4	6253.9	6202.3	6328.7	7038.5	*7105.3*	7365.1	6402.5	5044.6	5193.2	4984.9
67.5°	7095.2	7057.7	6997.1	7262.0	8184.1	*8224.6*	8037.5	6385.3	4631.0	4360.0	3496.5
70°	7141.7	7150.8	7437.9	8396.5	9679.6	*9689.7*	8673.5	6039.5	3750.3	2826.1	1742.2
72.5°	*6662.4*	*6647.2*	*7021.3*	*8603.8*	*10882.9*	*10917.2*	*8973.8*	*4892.9*	*2317.5*	*1409.5*	*817.0*
75°	5411.6	5437.9	5831.2	7527.9	9327.7	*9358.1*	7315.6	2884.8	1101.1	689.6	522.8
77.5°	2329.7	2476.3	3251.8	5303.4	6680.6	*6586.5*	3770.5	1168.9	587.5	491.4	400.4
80°	672.4	730.0	1158.8	2521.8	4003.1	*3932.3*	1492.4	437.8	409.5	369.1	287.2
82.5°	217.4	240.7	424.7	1004.1	1793.8	*1791.7*	566.2	258.9	268.0	250.8	185.0
85°	60.7	69.8	130.4	304.4	555.1	*544.0*	163.8	122.3	142.6	144.6	92.0
87.5°	0.0	0.0	1.0	2.0	2.0	*2.0*	4.0	18.2	41.5	52.6	37.4
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: P639495
CATALOG NUMBER: GWS-SA5B-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2006.1	2003.1	2044.5	2076.9	2107.2	2127.4	2133.5	2137.5	2145.6	2149.7	2145.6
5°	2020.3	2035.4	2104.2	2154.7	2195.2	2219.4	2220.5	2218.4	2224.5	2219.4	2216.4
7.5°	2050.6	2079.9	2166.9	2220.5	2246.7	2247.8	2223.5	2195.2	2181.0	2168.9	2164.8
10°	2091.0	2134.5	2229.6	2264.9	2256.9	2219.4	2165.9	2121.4	2096.1	2077.9	2073.8
12.5°	2146.6	2195.2	2285.2	2284.2	2233.6	2166.9	2104.2	2050.6	2014.2	1993.0	1985.9
15°	2199.2	2260.9	2325.6	2278.1	2198.2	2117.3	2036.4	1964.6	1916.1	1882.7	1876.7
17.5°	2263.9	2329.7	2354.9	2258.9	2153.7	2049.6	1941.4	1847.3	1781.6	1742.2	1739.2
20°	2338.8	2397.4	2369.1	2225.5	2096.1	1959.6	1813.0	1707.8	1637.0	1598.6	1601.6
22.5°	2425.7	2468.2	2373.1	2180.0	2016.2	1832.2	1668.4	1567.3	1519.7	1499.5	1500.5
25°	2518.7	2546.0	2366.1	2118.3	1893.9	1676.5	1519.7	1473.2	1469.2	1464.1	1466.1
27.5°	2629.0	2622.9	2344.8	2031.4	1729.0	1495.5	1415.6	1427.7	1443.9	1441.9	1443.9
30°	2776.6	2718.9	2317.5	1911.0	1532.9	1343.8	1353.9	1388.3	1409.5	1411.5	1417.6
32.5°	2945.4	2825.1	2274.0	1747.2	1345.8	1258.9	1296.3	1337.7	1363.0	1368.1	1376.2
35°	3146.7	2946.5	2197.2	1543.0	1211.3	1208.3	1242.7	1271.0	1298.3	1300.3	1300.3
37.5°	3378.2	3067.8	2074.9	1317.5	1128.4	1164.8	1197.2	1203.3	1210.3	1204.3	1207.3
40°	3590.5	3185.1	1900.9	1112.3	1060.7	1126.4	1153.7	1133.5	1111.2	1096.1	1099.1
42.5°	3768.5	3265.0	1670.4	968.7	991.9	1092.0	1113.3	1071.8	1028.3	1000.0	1004.1
45°	3968.7	3338.8	1399.4	871.6	933.3	1067.8	1081.9	1028.3	972.7	930.2	924.2
47.5°	4244.8	3489.4	1158.8	803.9	891.8	1054.6	1077.9	1005.1	932.3	868.6	861.5
50°	4585.5	3702.8	957.5	759.4	872.6	1047.5	1076.9	979.8	892.8	818.0	813.0
52.5°	4957.6	3911.1	808.9	725.0	853.4	1026.3	1071.8	951.5	851.4	770.5	764.4
55°	5205.3	3993.0	708.8	692.6	822.1	992.9	1051.6	924.2	788.7	714.9	705.8
57.5°	5278.1	3887.8	639.0	663.3	781.6	946.4	1013.2	866.5	750.3	691.6	684.5
60°	5152.8	3622.9	595.6	639.0	737.1	886.8	946.4	833.2	719.9	667.4	662.3
62.5°	4798.9	3214.4	562.2	613.8	691.6	824.1	904.0	792.7	686.6	645.1	638.0
65°	4087.0	2636.0	534.9	587.5	648.1	764.4	857.4	752.3	650.2	618.8	610.7
67.5°	2858.5	1851.4	505.6	556.1	604.7	706.8	808.9	714.9	612.7	589.5	581.4
70°	1397.4	981.8	470.2	519.7	558.1	648.1	760.4	669.4	563.2	550.1	538.9
72.5°	*665.3*	*549.0*	*428.7*	*470.2*	*494.4*	*570.3*	*679.5*	*603.6*	*504.6*	*476.2*	*457.0*
75°	445.9	390.3	374.1	411.5	417.6	478.3	582.4	520.7	444.9	412.5	396.4
77.5°	337.7	298.3	314.5	347.8	335.7	393.3	479.3	464.1	401.4	372.1	364.0
80°	237.6	217.4	249.8	270.0	260.9	334.7	431.8	397.4	330.6	298.3	292.2
82.5°	149.6	145.6	184.0	187.1	190.1	264.9	354.9	312.4	256.8	211.3	196.2
85°	74.8	82.9	110.2	110.2	109.2	136.5	202.2	175.9	138.5	110.2	107.2
87.5°	25.3	35.4	47.5	38.4	29.3	23.3	26.3	32.4	34.4	33.4	33.4
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

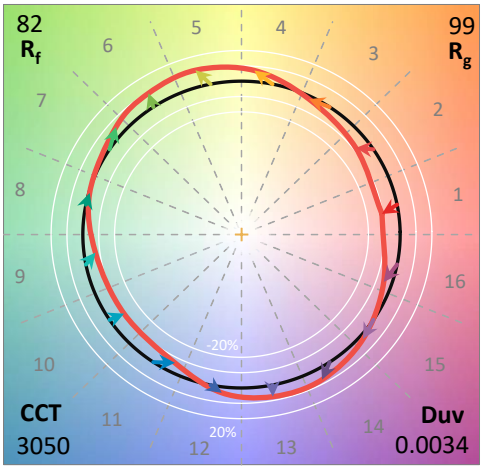
Test Information

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

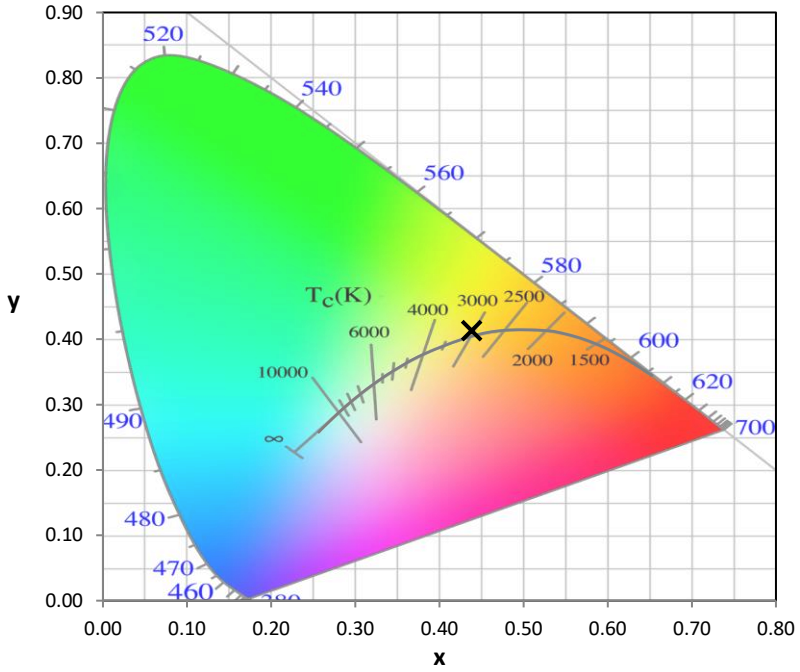
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

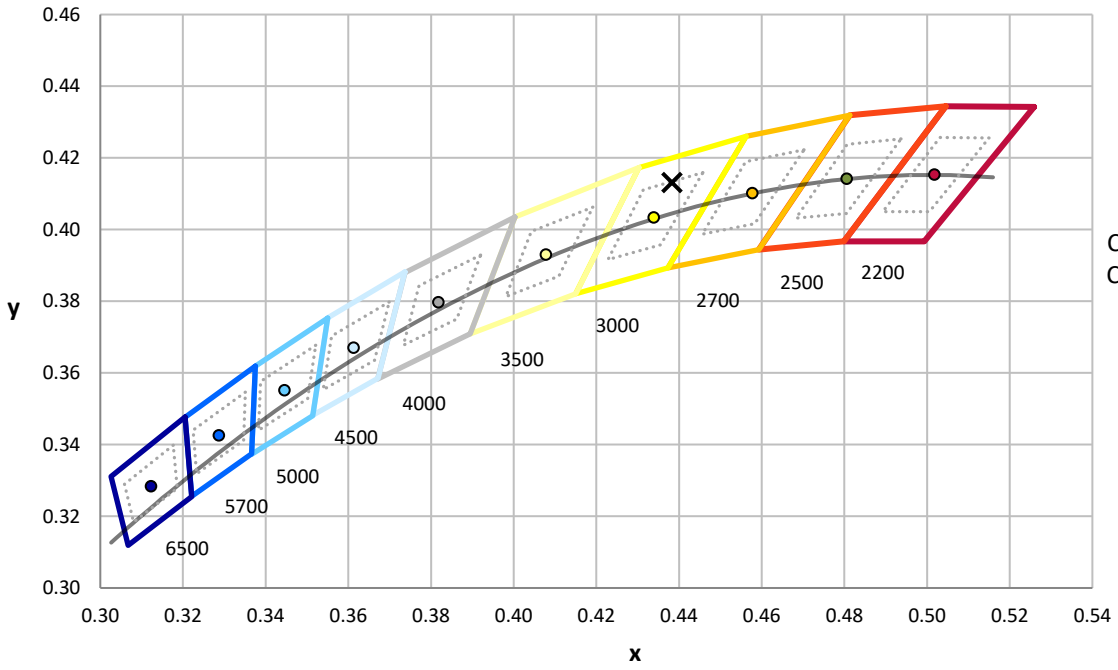
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

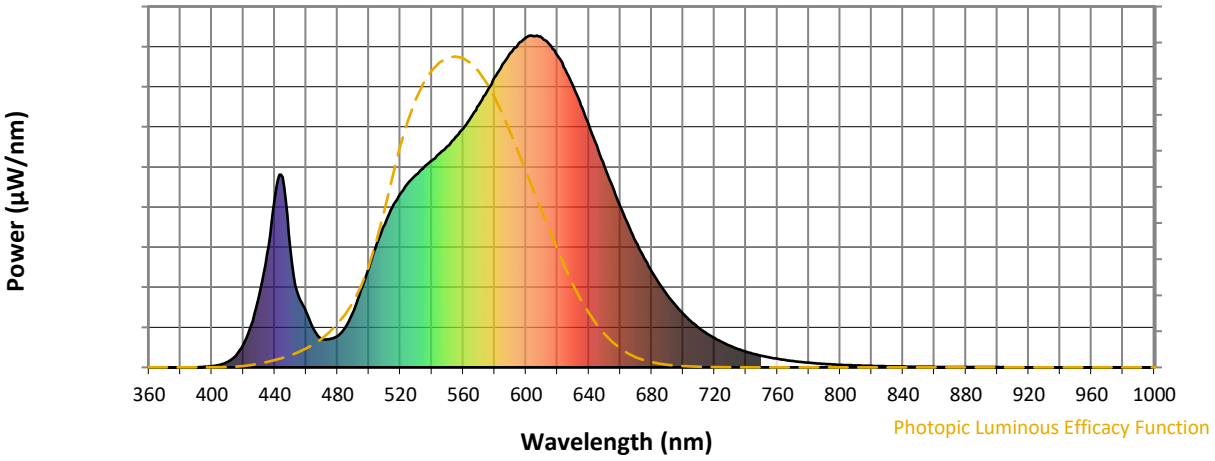


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

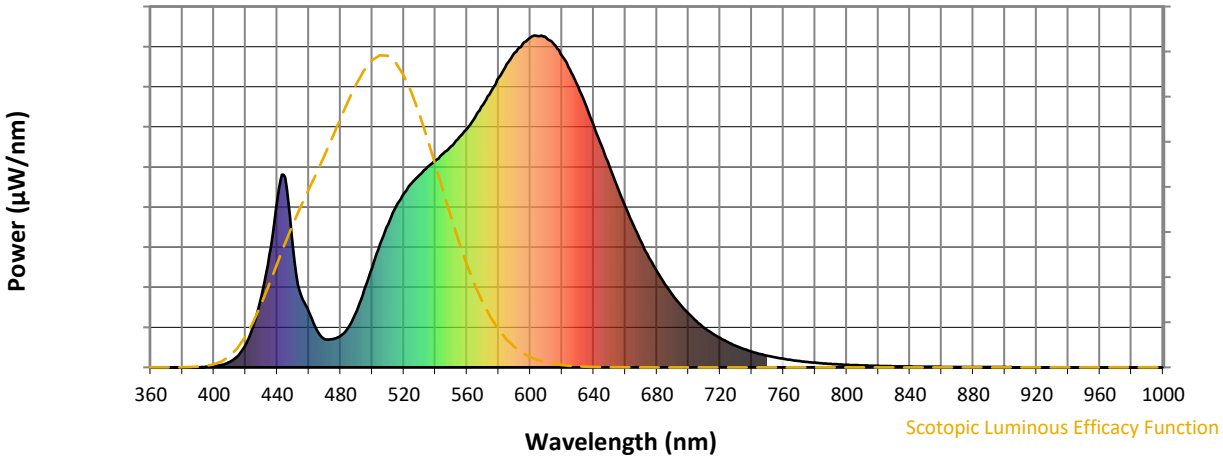


Photopic Lumens: NR

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

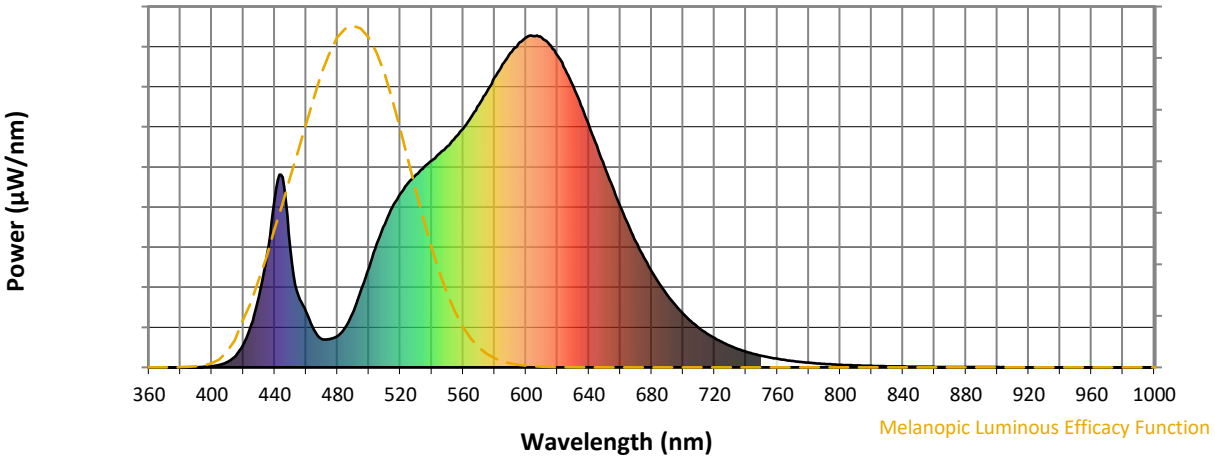


Scotopic Lumens: NR **S/P: 1.27**

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			

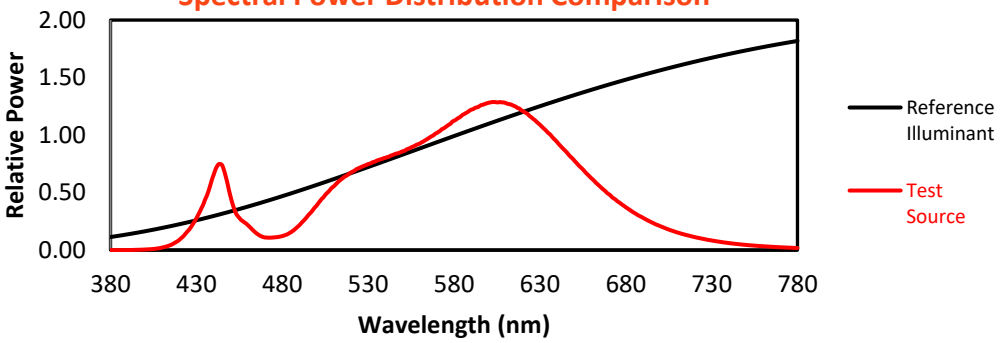
REPORT NUMBER: SP1-2408-195-9

TM-30-18

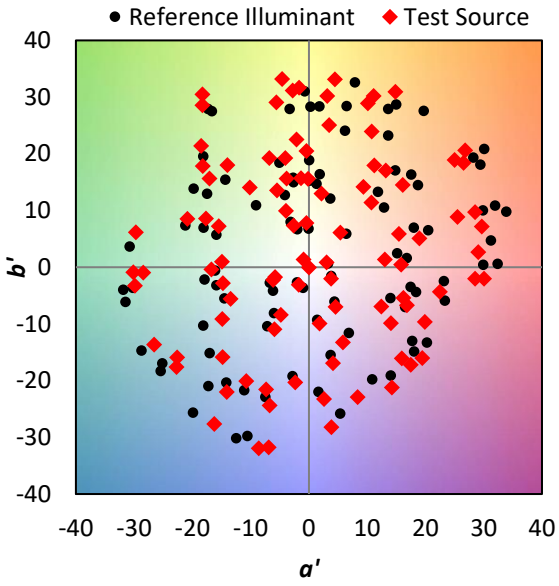
Summary

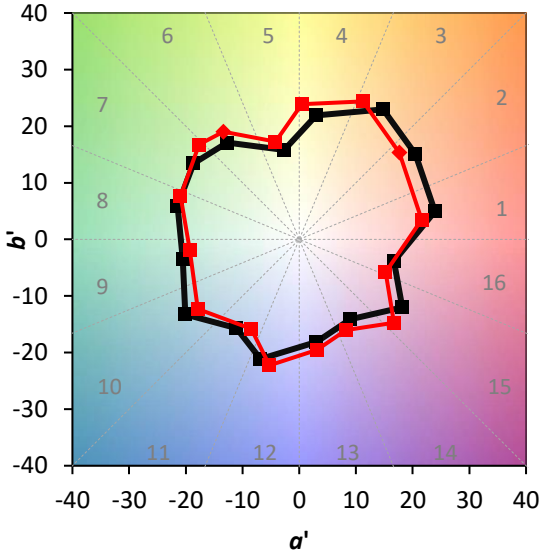
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

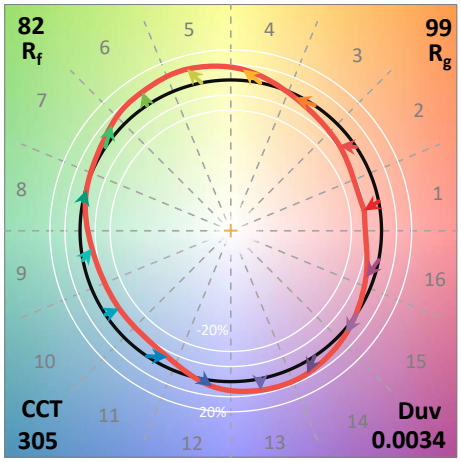
Spectral Power Distribution Comparison

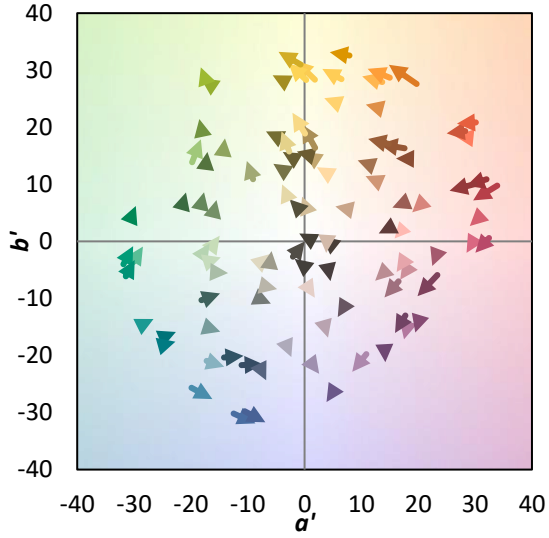


Color Vector Graphics







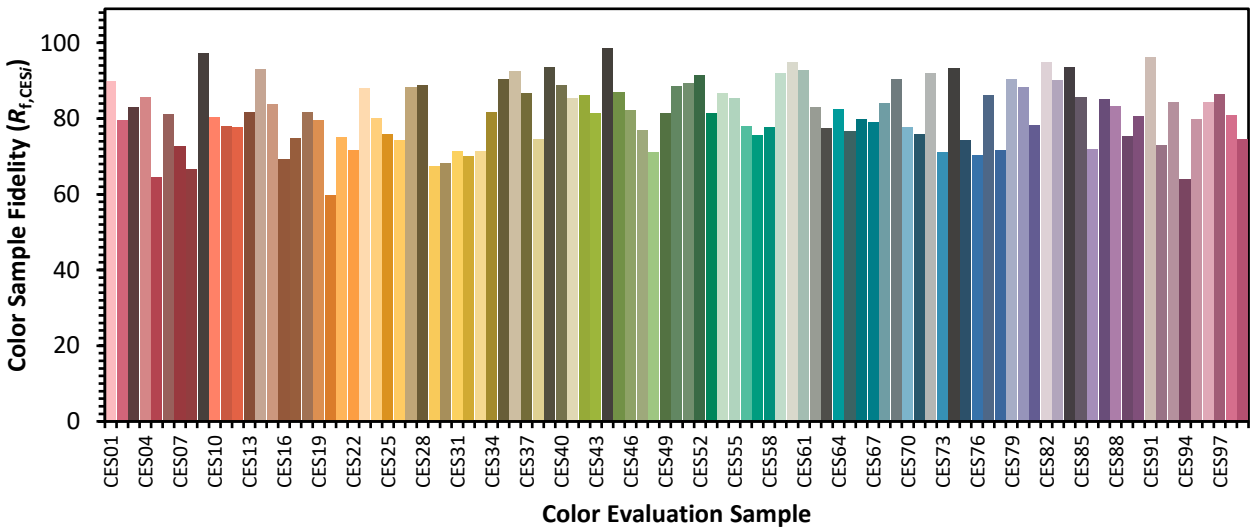


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

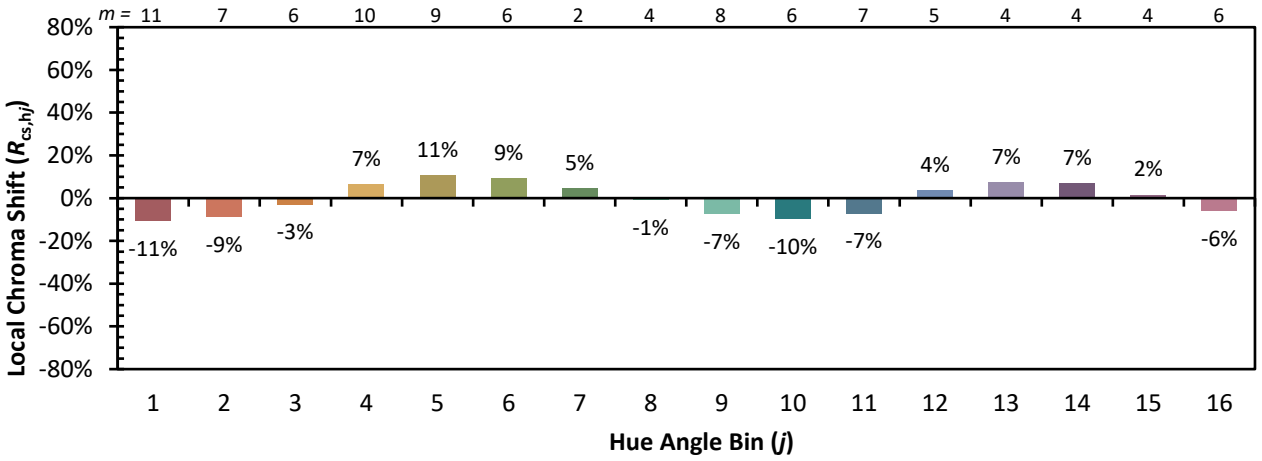
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

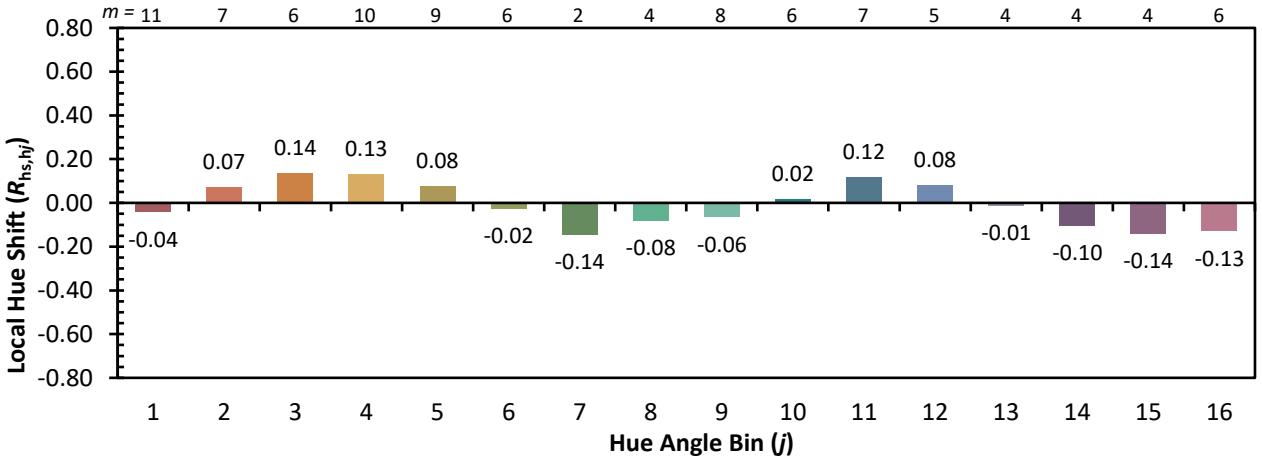


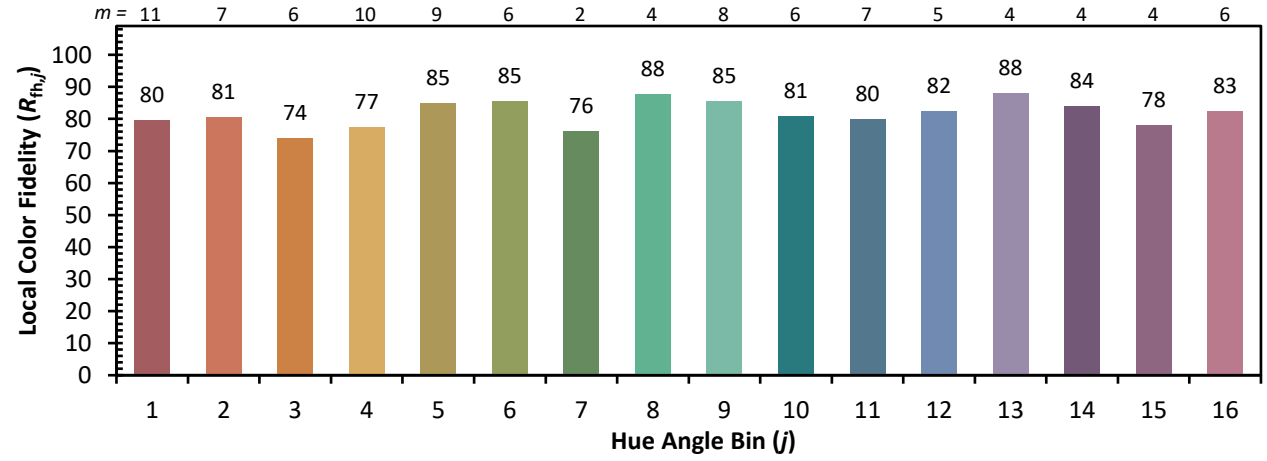
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



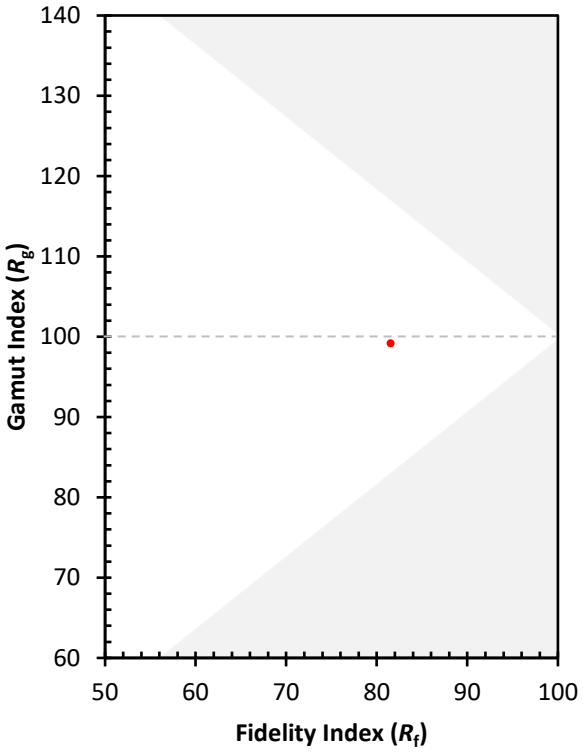


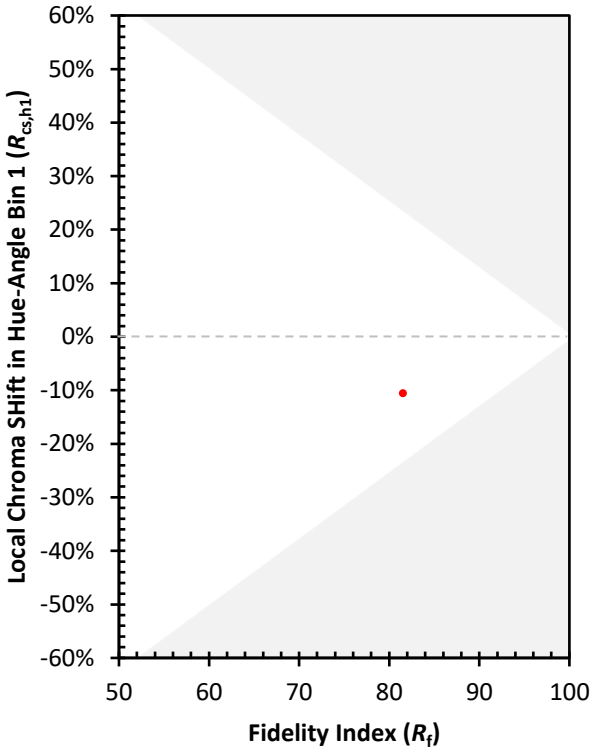


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)