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: P635007

Luminaire Tested: GWS-SA3C-830-U-SL2-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:	P635007
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10889.5 lumens
Efficiency:	N/A
Efficacy:	117.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	93
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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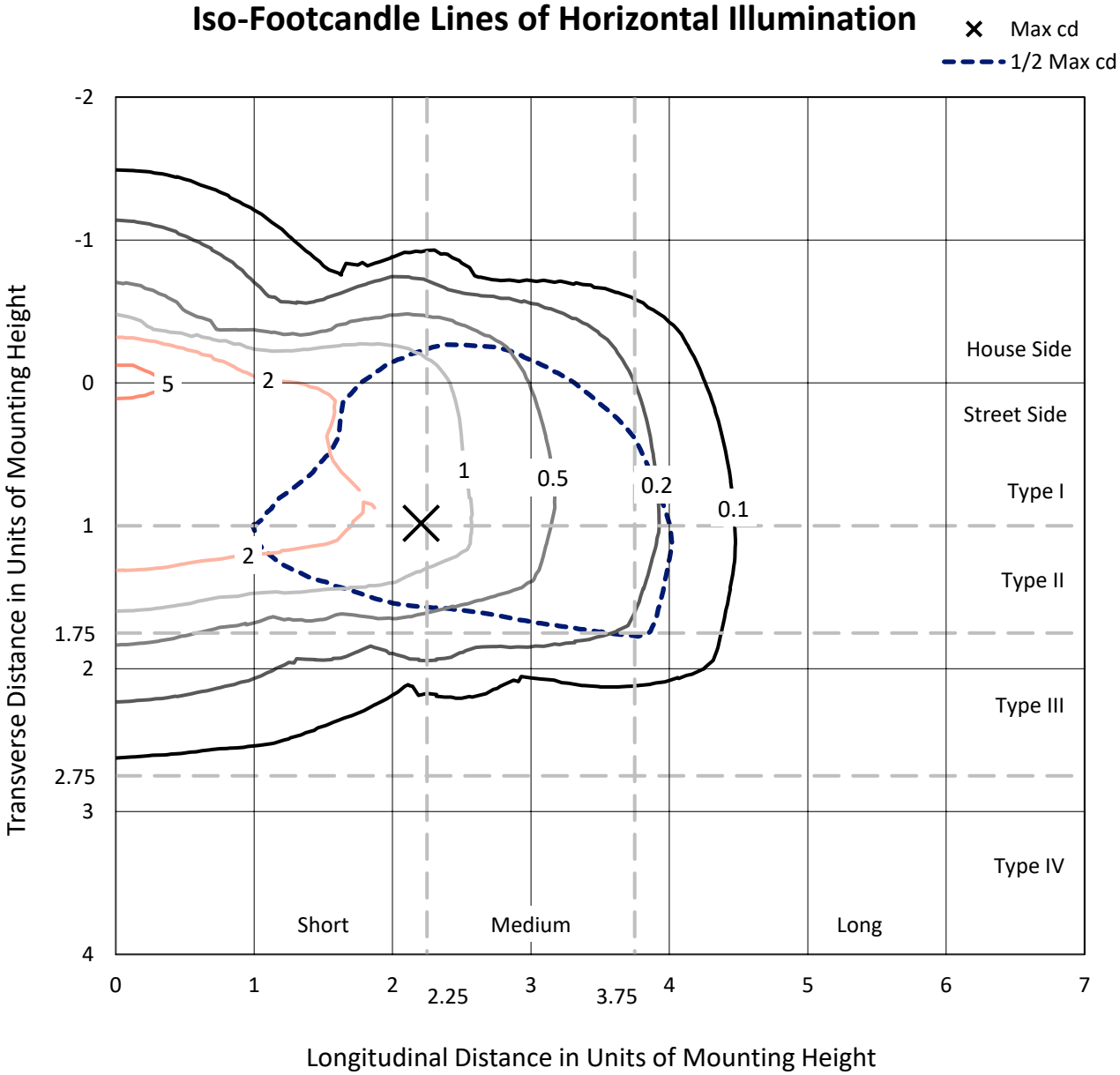
Scaled Data Report

REPORT NUMBER: P635007
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

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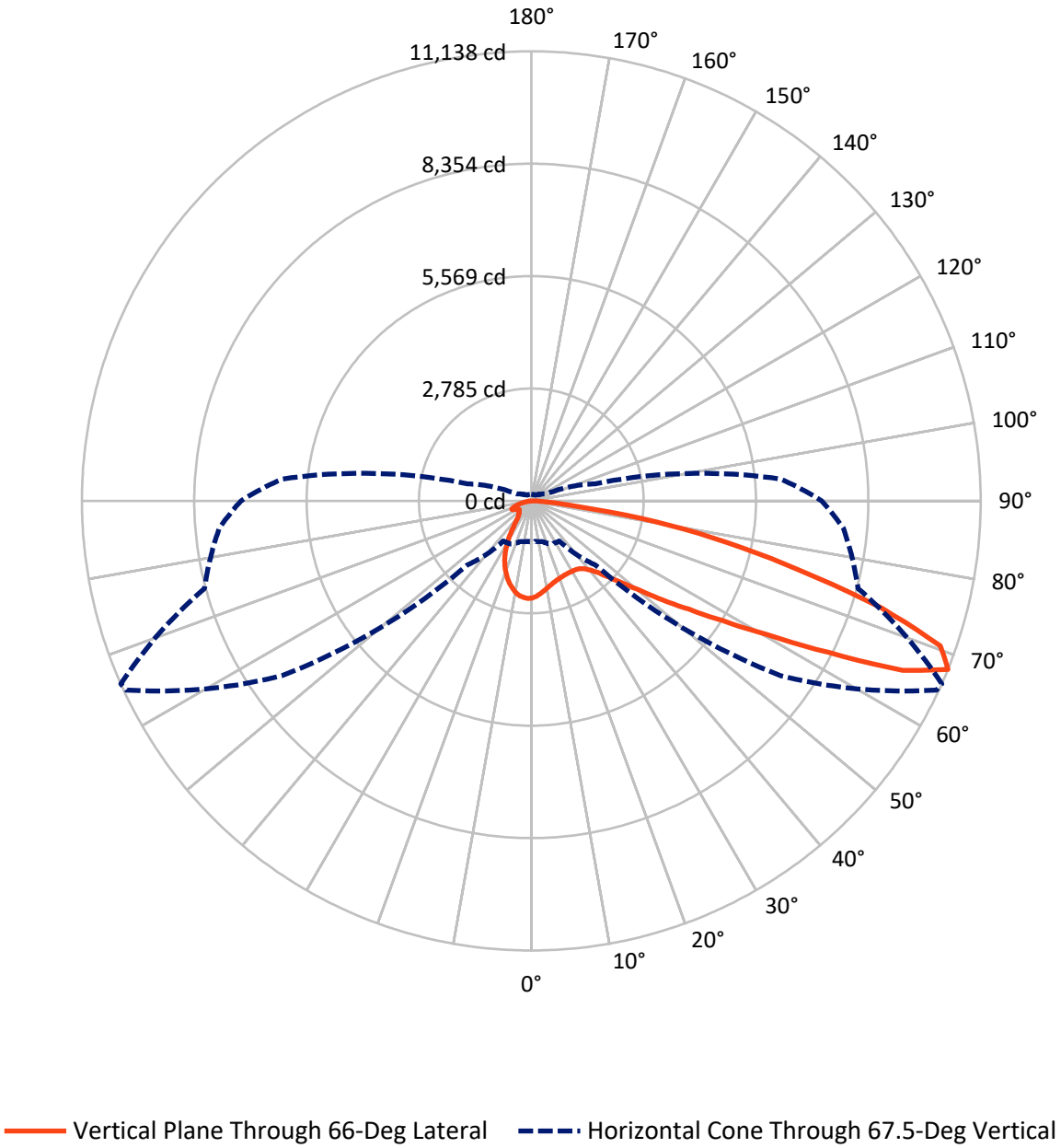
Luminous Intensity Polar Plot



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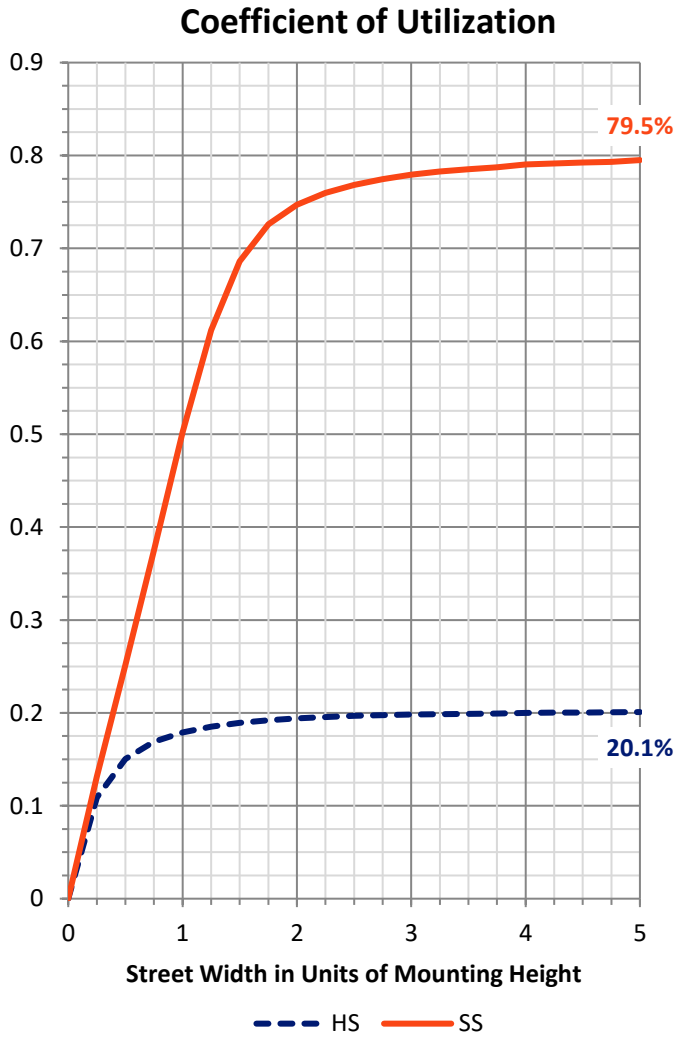
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2209.7	0.0	2209.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8679.8	0.0	8679.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	10889.5	0.0	10889.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.9
10°-20°	519.0	4.8
20°-30°	713.4	6.6
30°-40°	975.3	9.0
40°-50°	1477.9	13.6
50°-60°	2297.4	21.1
60°-70°	2797.0	25.7
70°-80°	1703.8	15.6
80°-90°	194.6	1.8
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°	10889.5	100.0
0°-180°	10889.5	100.0



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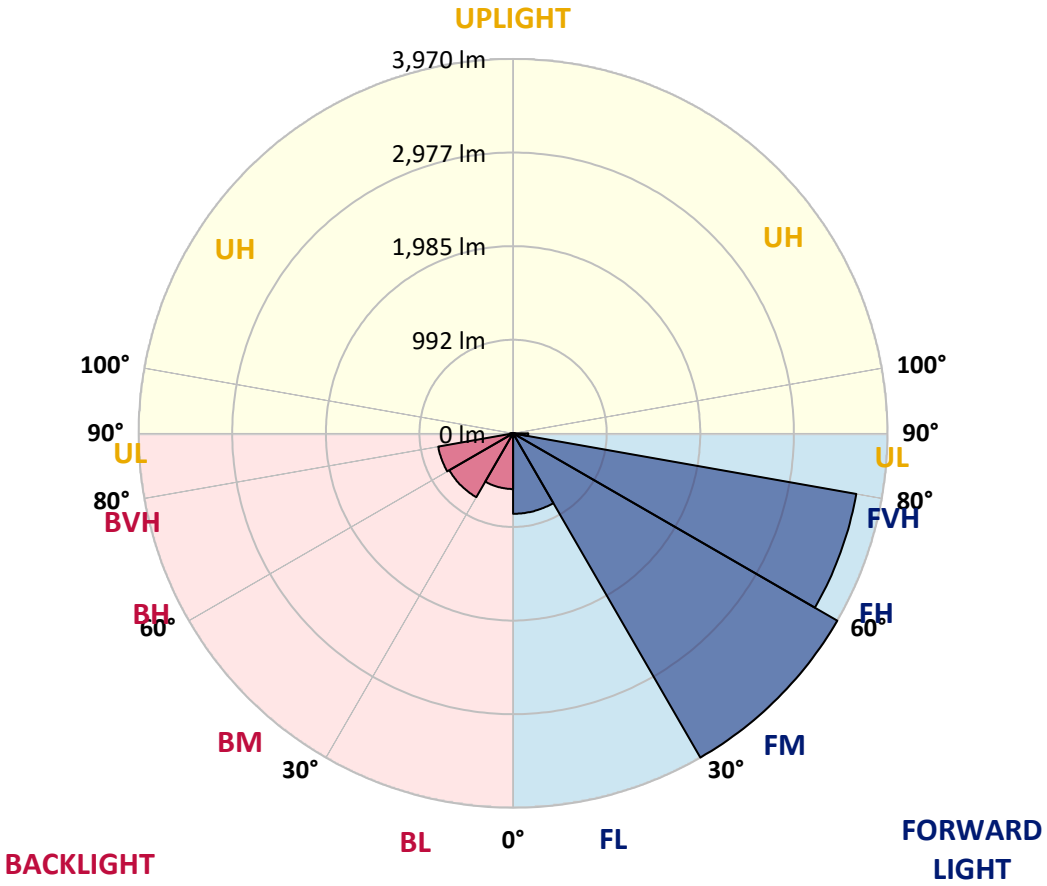
REPORT NUMBER: P635007
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	853.2	7.8			
FM	(30°-60°)	3969.6	36.5			
FH	(60°-80°)	3695.1	33.9			G2/5000
FVH	(80°-90°)	161.8	1.5			G2/225
BL	(0°-30°)	590.3	5.4	B2/1000		
BM	(30°-60°)	780.9	7.2	B1/1000		
BH	(60°-80°)	805.7	7.4	B2/1000		G2/1000
BVH	(80°-90°)	32.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P635007
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	*2406.3*	2406.3	2406.3
2.5°	2253.7	2261.7	2256.9	2287.1	2288.7	2326.8	2348.3	2366.5	*2368.1*	2392.0	2407.9
5°	2099.6	2104.4	2104.4	2133.0	2152.1	2202.9	2252.2	2304.6	*2308.6*	2365.8	2409.4
7.5°	1974.9	1979.7	1976.5	2014.6	2039.3	2095.7	2158.4	2238.6	*2246.6*	2338.7	2415.0
10°	1877.2	1875.6	1883.5	1918.5	1950.3	2017.8	2087.7	2179.1	*2191.0*	2307.8	2421.4
12.5°	1810.5	1812.1	1816.8	1853.4	1887.5	1954.3	2026.5	2125.8	*2138.6*	2272.0	2418.2
15°	1778.7	1775.5	1779.5	1812.8	1845.4	1904.2	1978.9	2081.4	*2094.1*	2240.2	2419.0
17.5°	1771.5	1769.2	1768.4	1792.2	1816.8	1871.6	1943.1	2047.2	*2060.7*	2219.6	2423.7
20°	1793.8	1790.6	1781.9	1792.2	1802.5	1848.6	1917.7	2022.6	*2037.7*	2206.1	2433.3
22.5°	1854.9	1849.4	1835.9	1823.2	1809.7	1837.5	1901.8	2004.3	*2019.4*	2197.3	2442.8
25°	1947.9	1943.1	1928.8	1900.2	1851.0	1846.2	1898.6	1996.4	*2011.4*	2191.0	2446.8
27.5°	2075.8	2068.6	2054.3	2013.0	1932.8	1878.8	1910.6	1995.6	*2009.9*	2183.8	2442.8
30°	2227.5	2222.8	2214.8	2164.8	2057.5	1947.9	1937.6	2001.9	*2013.0*	2179.9	2434.9
32.5°	2381.6	2376.9	2383.2	2359.4	2227.5	2062.3	1996.4	2019.4	*2027.3*	2179.1	2427.7
35°	2517.5	2523.0	2569.1	2573.1	2443.6	2217.2	2089.3	2059.9	*2061.5*	2195.0	2430.9
37.5°	2659.7	2681.1	2741.5	2793.1	2685.1	2422.2	2227.5	2136.2	*2134.6*	2235.5	2450.8
40°	2848.0	2857.5	2934.6	3031.5	2963.9	2703.4	2423.7	2260.9	*2249.8*	2318.1	2504.0
42.5°	3031.5	3054.5	3177.6	3288.9	3266.6	3020.3	2670.8	2447.6	*2427.7*	2464.3	2613.6
45°	3265.0	3287.3	3425.5	3568.5	3609.0	3378.6	2987.0	2712.9	*2693.1*	2684.3	2814.6
47.5°	3498.6	3521.6	3645.6	3852.1	3994.3	3826.7	3398.5	3063.2	*3030.7*	2996.5	3118.1
50°	3655.9	3682.9	3801.3	4049.1	4382.8	4385.9	3886.3	3522.4	*3481.1*	3427.1	3545.5
52.5°	3650.3	3667.8	3780.6	4066.6	4662.4	5028.6	4539.3	4107.1	*4073.7*	3956.2	4059.4
55°	3363.5	3389.8	3503.4	3860.8	4692.6	5637.9	5498.9	4796.7	*4737.1*	4526.6	4640.2
57.5°	2787.6	2809.8	2924.2	3365.1	4424.9	5950.1	6717.5	5675.3	*5593.4*	5147.8	5278.9
60°	2104.4	2077.4	2131.4	2517.5	3784.6	5958.1	7793.2	6866.9	*6730.2*	5811.9	5921.5
62.5°	1579.3	1552.3	1564.2	1673.0	2565.9	5476.7	8406.5	8497.0	*8271.4*	6561.8	6540.4
65°	1248.0	1232.9	1267.1	1341.8	1495.9	4170.7	8411.2	10259.8	*10117.6*	7430.9	7175.1
67.5°	*1016.8*	*1007.3*	*1042.3*	*1180.5*	*1213.1*	*2241.0*	*7542.1*	*11082.8*	*11138.4*	*8382.6*	*7763.8*
70°	819.0	804.7	859.6	1041.5	1128.1	1356.1	5402.8	10663.4	*10753.1*	8949.8	7597.7
72.5°	565.6	566.4	594.2	843.7	1089.1	1171.0	3056.1	8879.1	*9073.8*	8435.8	6679.4
75°	381.3	384.5	392.4	556.9	1003.3	1136.0	1628.5	6722.3	*6859.7*	6972.5	5521.2
77.5°	230.4	232.0	250.2	336.8	691.9	1060.5	1103.4	4872.9	*4981.0*	4596.5	3422.3
80°	133.5	139.0	155.7	225.6	467.1	796.8	854.0	2987.8	*3110.1*	2043.2	1087.5
82.5°	58.8	62.8	85.0	131.1	272.5	677.6	666.5	1180.5	*1163.0*	569.6	377.3
85°	10.3	12.7	18.3	41.3	100.1	357.5	517.2	521.1	*490.2*	216.1	156.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	77.9	139.8	*139.0*	61.2	54.0
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: P635007
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3
2.5°	2418.2	2396.7	2415.8	2418.2	2414.2	2411.0	2387.2	2366.5	2364.2	2341.9	2341.9
5°	2426.9	2407.1	2416.6	2398.3	2369.7	2340.3	2289.5	2254.5	2238.6	2210.1	2210.1
7.5°	2438.8	2418.2	2407.1	2361.8	2295.1	2230.7	2148.9	2080.6	2052.8	2012.2	2010.7
10°	2450.0	2423.7	2385.6	2297.4	2191.0	2088.5	1969.3	1872.4	1806.5	1758.0	1758.0
12.5°	2449.2	2415.0	2339.5	2209.3	2062.3	1913.7	1754.9	1608.7	1521.3	1445.8	1441.1
15°	2447.6	2400.7	2280.8	2106.8	1912.1	1706.4	1490.3	1299.7	1170.2	1096.3	1089.9
17.5°	2446.0	2382.4	2214.8	1990.0	1729.4	1449.0	1163.8	957.3	849.2	803.9	805.5
20°	2446.0	2361.8	2144.1	1855.7	1518.9	1140.8	854.0	703.8	676.8	679.2	681.6
22.5°	2438.8	2336.4	2065.5	1709.6	1284.6	838.9	630.0	579.1	593.4	615.7	618.8
25°	2422.2	2294.3	1974.1	1547.5	1005.7	610.9	514.0	504.5	530.7	558.5	566.4
27.5°	2395.9	2245.8	1871.6	1357.6	740.4	490.9	452.0	451.2	471.9	492.5	499.7
30°	2368.1	2191.8	1763.6	1146.3	536.2	427.4	412.3	412.3	422.6	435.3	433.7
32.5°	2335.6	2137.0	1647.6	926.3	436.9	391.6	386.9	384.5	386.1	390.9	390.9
35°	2307.8	2088.5	1528.4	693.5	391.6	371.8	367.0	361.5	359.1	355.9	357.5
37.5°	2297.4	2050.4	1405.3	522.7	369.4	357.5	349.5	341.6	336.0	334.4	333.7
40°	2314.1	2034.5	1282.2	430.6	353.5	342.4	333.7	323.3	318.6	318.6	318.6
42.5°	2379.3	2046.4	1156.7	389.3	342.4	329.7	317.0	307.4	305.8	307.4	308.2
45°	2498.4	2092.5	1026.4	368.6	332.9	317.0	301.9	294.7	294.7	296.3	296.3
47.5°	2711.3	2213.2	897.7	355.9	323.3	306.6	290.8	283.6	282.8	284.4	284.4
50°	3079.9	2430.9	781.7	347.2	316.2	298.7	282.8	273.3	270.9	270.1	270.1
52.5°	3544.7	2808.2	707.8	340.8	307.4	290.0	274.1	261.4	256.6	254.2	254.2
55°	4106.3	3311.1	707.8	336.0	296.3	279.6	261.4	248.7	241.5	238.3	238.3
57.5°	4742.6	3896.6	830.2	332.1	287.6	267.7	247.9	235.1	227.2	222.4	222.4
60°	5390.1	4515.4	1132.8	326.5	279.6	252.6	232.8	220.8	210.5	205.0	204.2
62.5°	6061.4	5197.0	1531.6	329.7	274.1	238.3	216.9	203.4	194.6	189.1	188.3
65°	6676.2	5846.1	1880.4	354.3	274.9	225.6	198.6	186.7	179.5	172.4	171.6
67.5°	*7198.2*	*6204.3*	*1635.7*	*404.4*	*291.5*	*210.5*	*180.3*	*168.4*	*162.1*	*157.3*	*156.5*
70°	6832.7	5657.8	927.9	435.3	314.6	194.6	159.7	151.7	145.4	142.2	141.4
72.5°	5842.9	4790.3	620.4	384.5	286.8	174.0	140.6	134.3	129.5	125.5	124.7
75°	4733.1	3798.9	474.3	315.4	223.2	141.4	120.8	116.0	111.2	107.2	106.5
77.5°	2800.3	2195.0	349.5	249.4	157.3	110.4	100.1	96.1	91.4	88.2	87.4
80°	893.7	762.6	221.6	171.6	104.1	85.0	77.1	73.9	69.1	65.1	64.3
82.5°	340.8	294.7	117.6	87.4	69.1	58.0	51.6	48.5	45.3	41.3	40.5
85°	150.9	141.4	65.1	46.9	37.3	28.6	25.4	23.8	19.9	16.7	15.9
87.5°	53.2	53.2	27.8	13.5	7.9	4.0	2.4	0.8	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

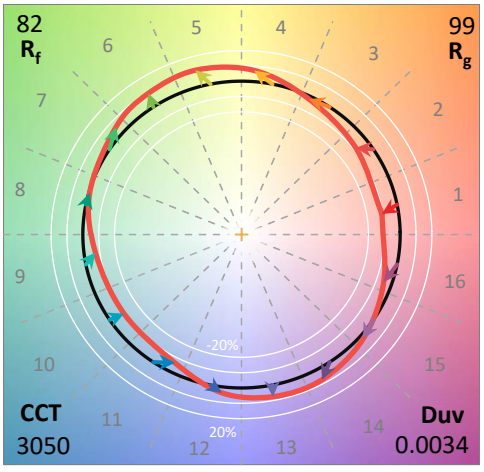
Test Information

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

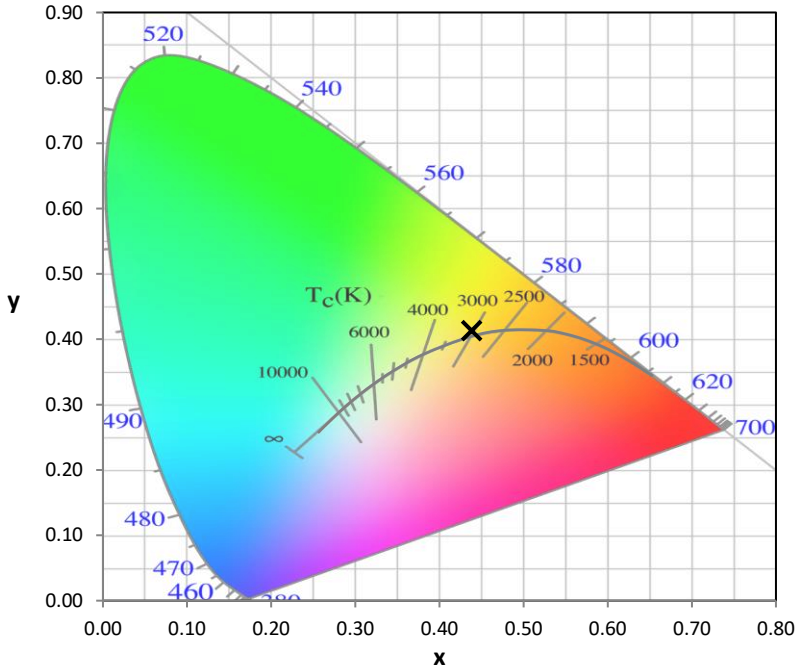
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

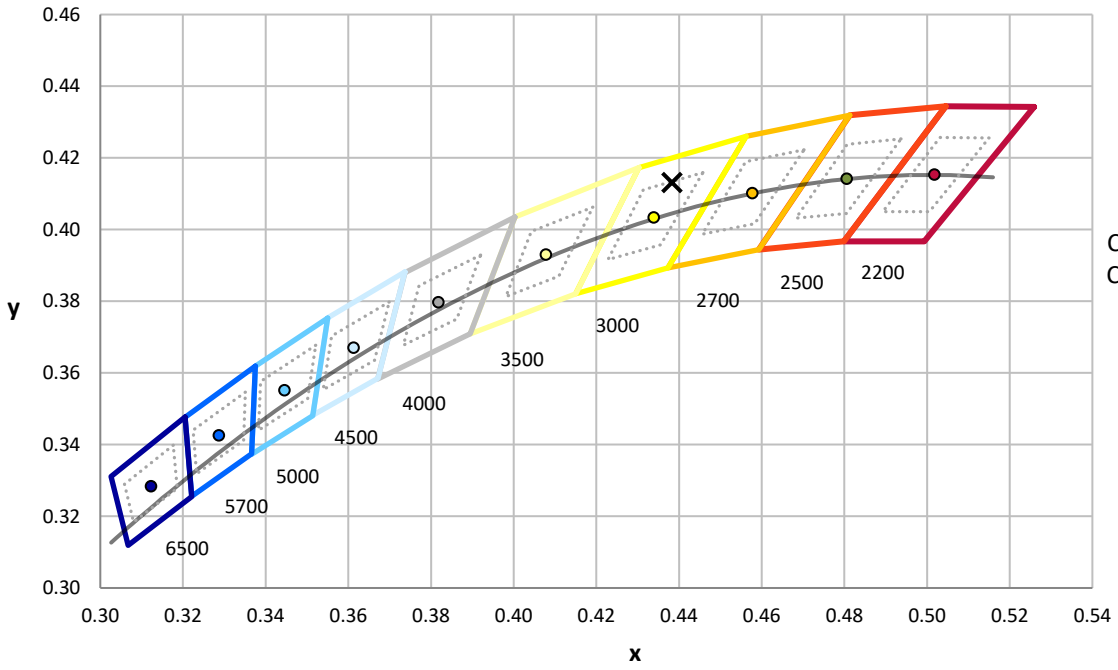
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

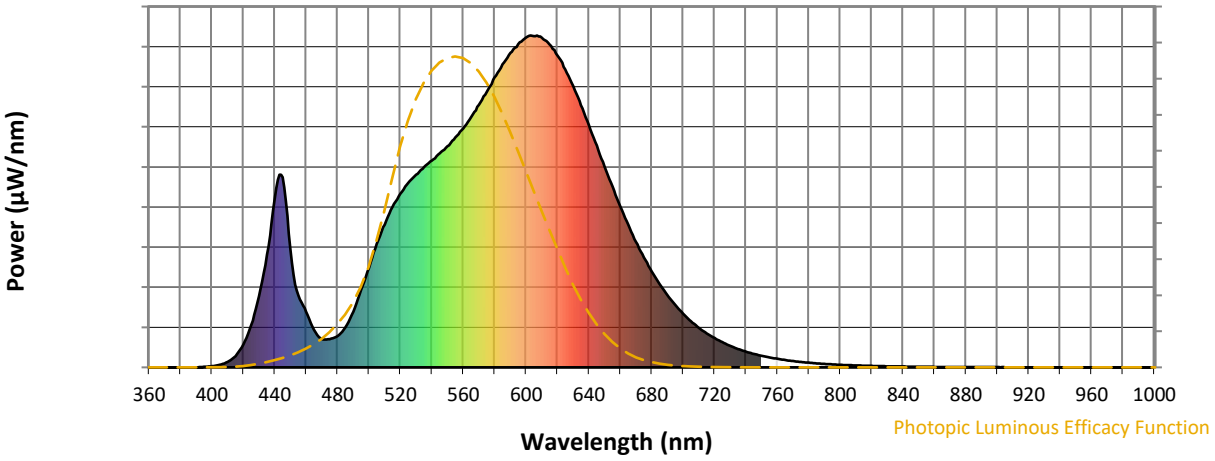


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

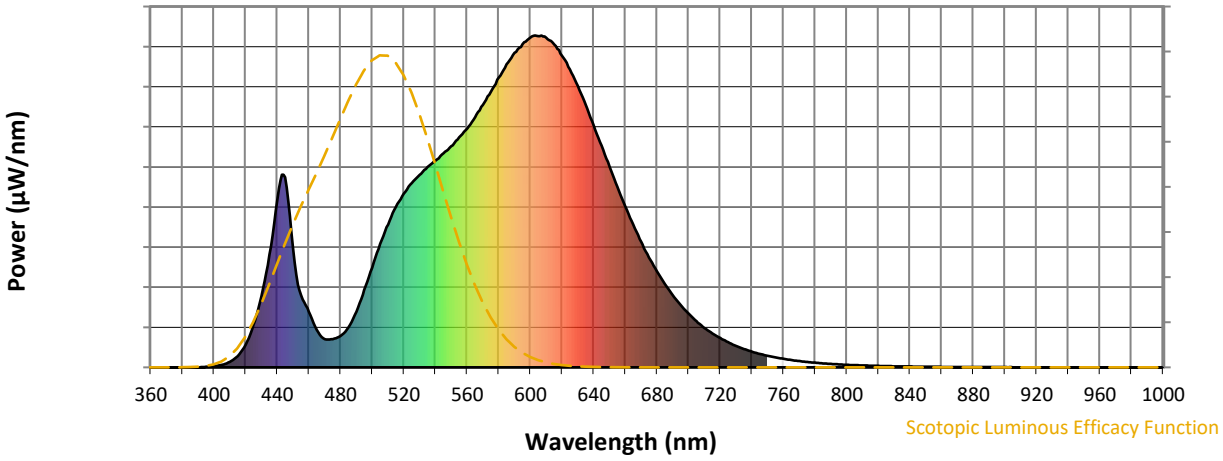


Photopic Lumens: NR

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

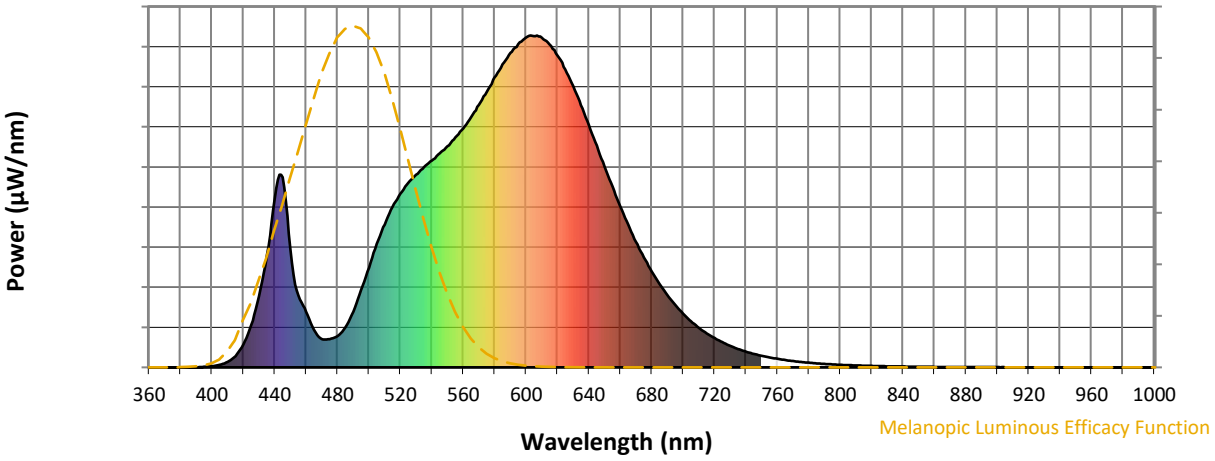


Scotopic Lumens: NR **S/P: 1.27**

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			

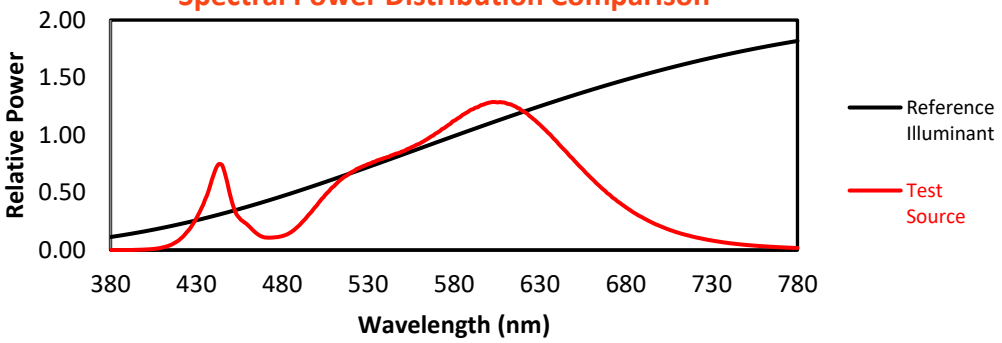
REPORT NUMBER: SP1-2408-195-9

TM-30-18

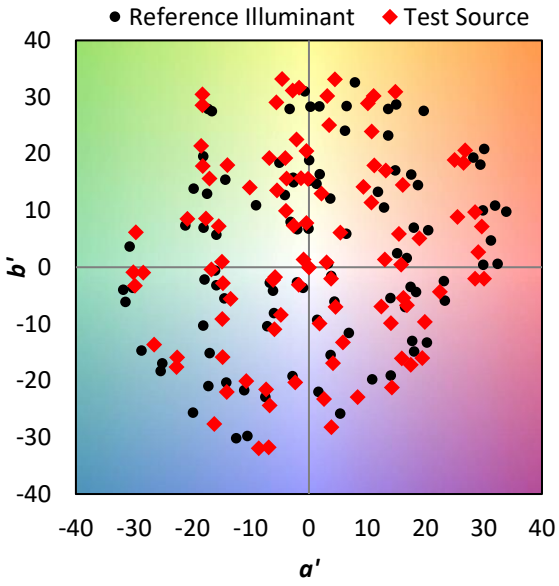
Summary

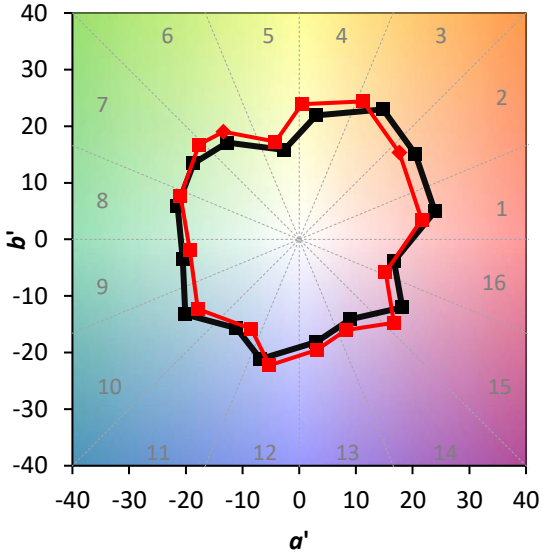
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

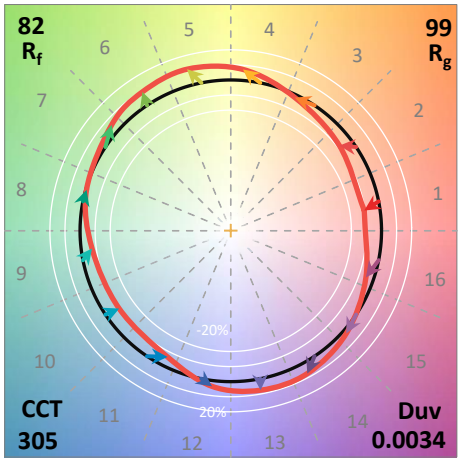
Spectral Power Distribution Comparison

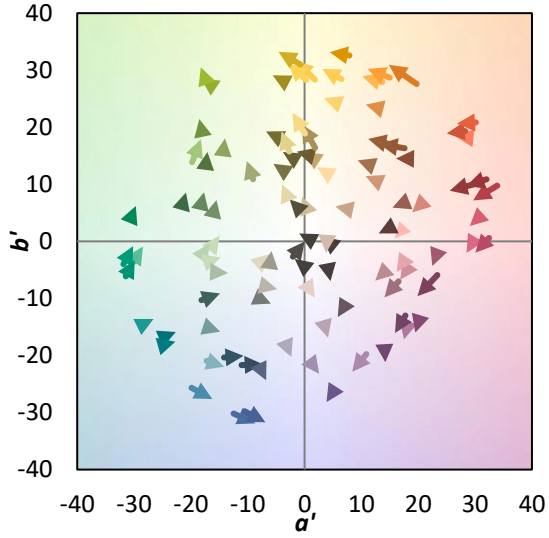


Color Vector Graphics







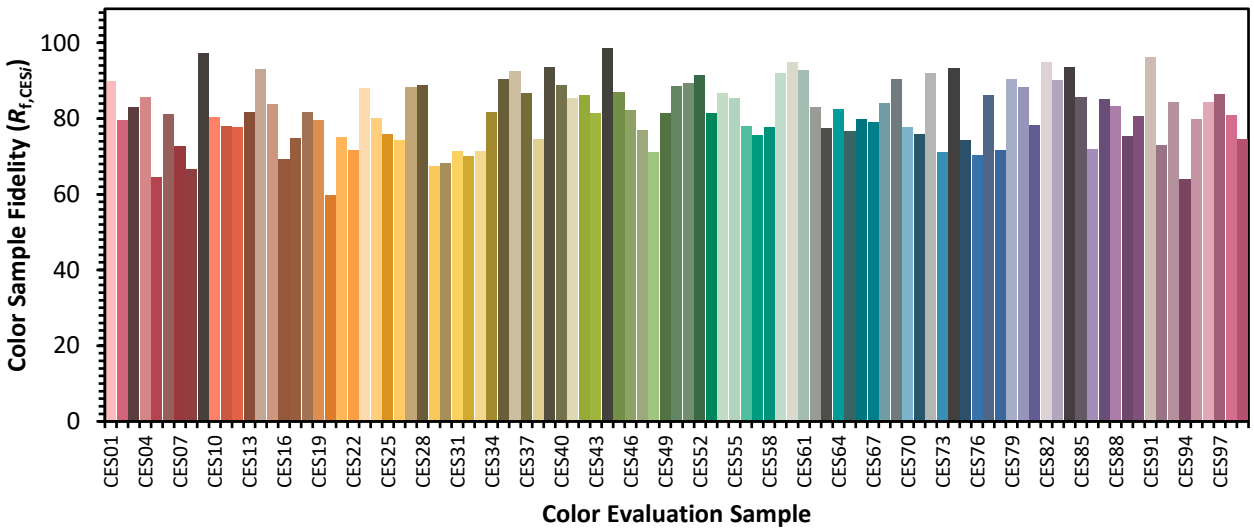


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

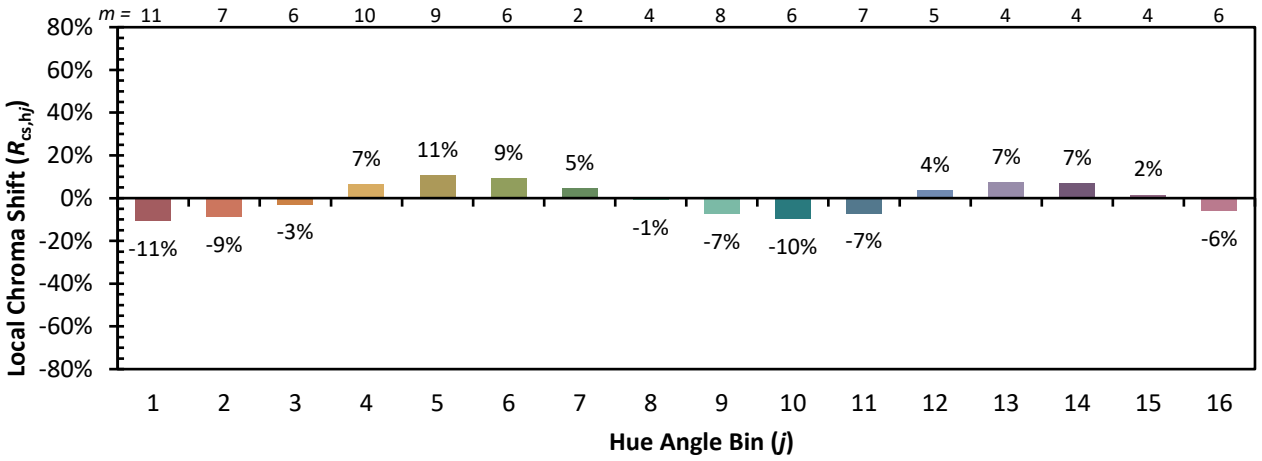
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

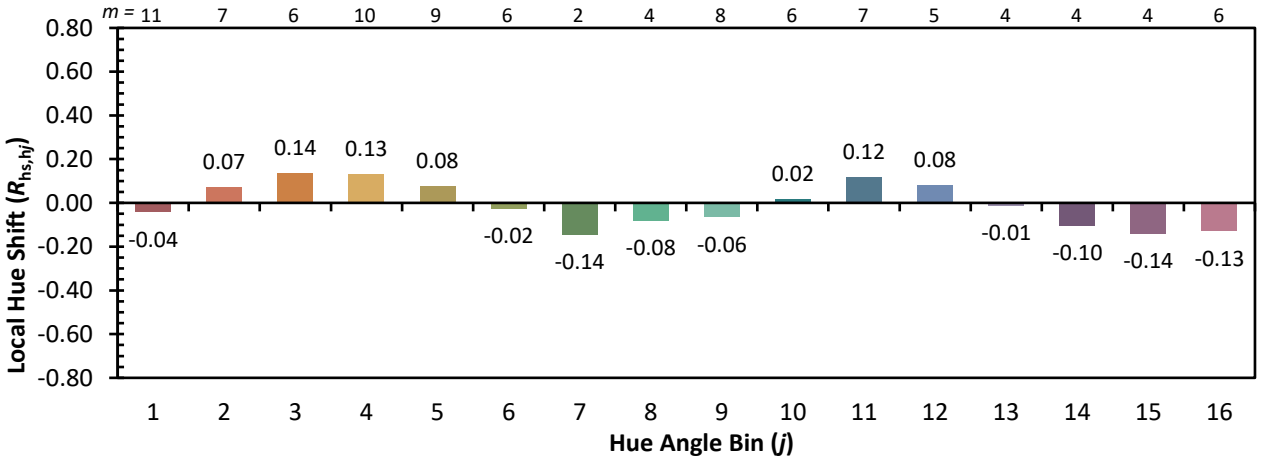


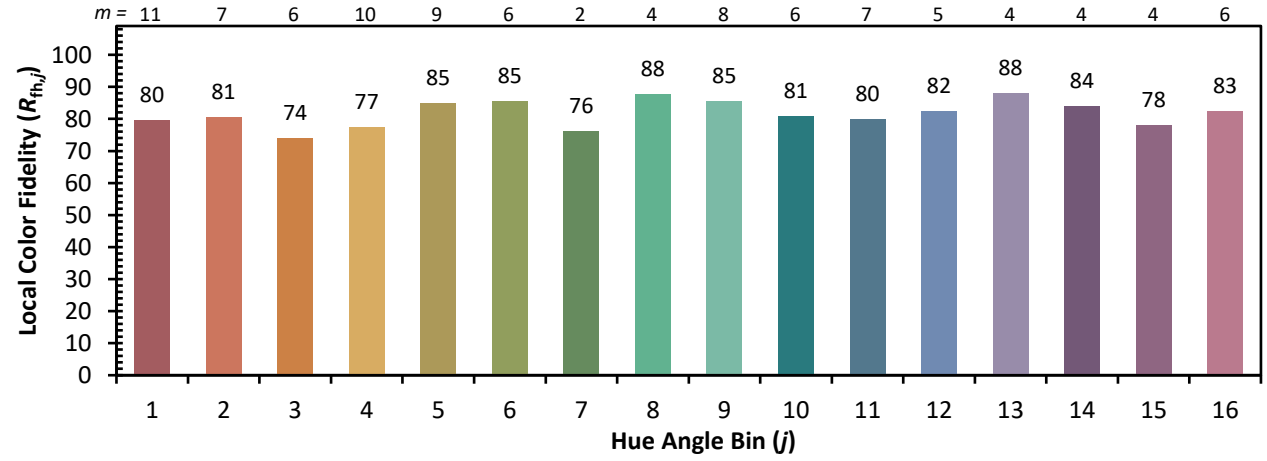
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



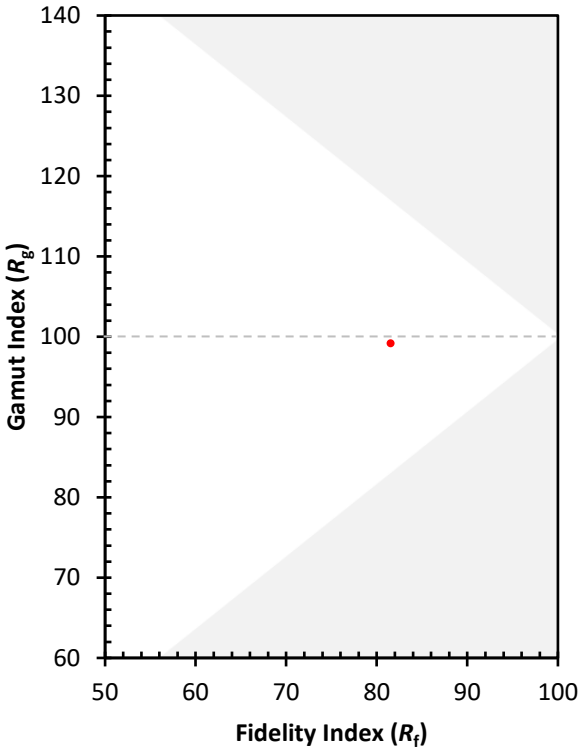


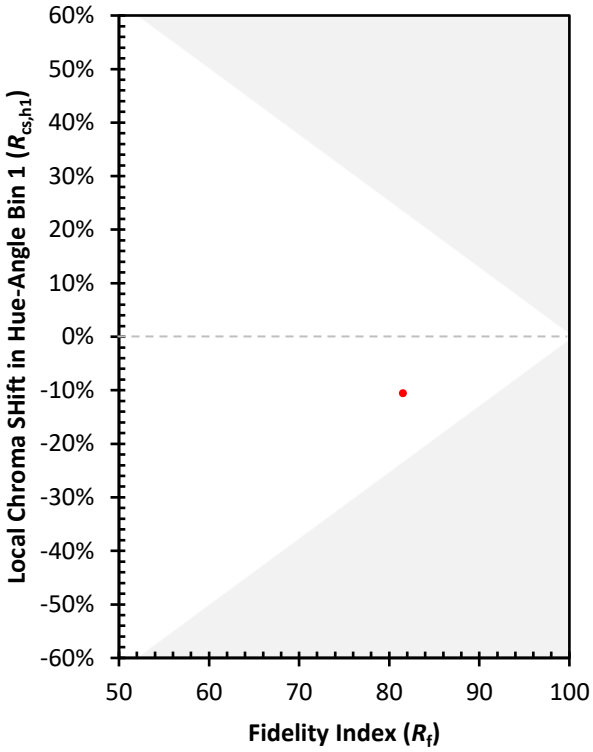


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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