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: P632534

Luminaire Tested: GWS-SA2C-830-U-SL3-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:	P632534
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6157.2 lumens
Efficiency:	N/A
Efficacy:	97.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - 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

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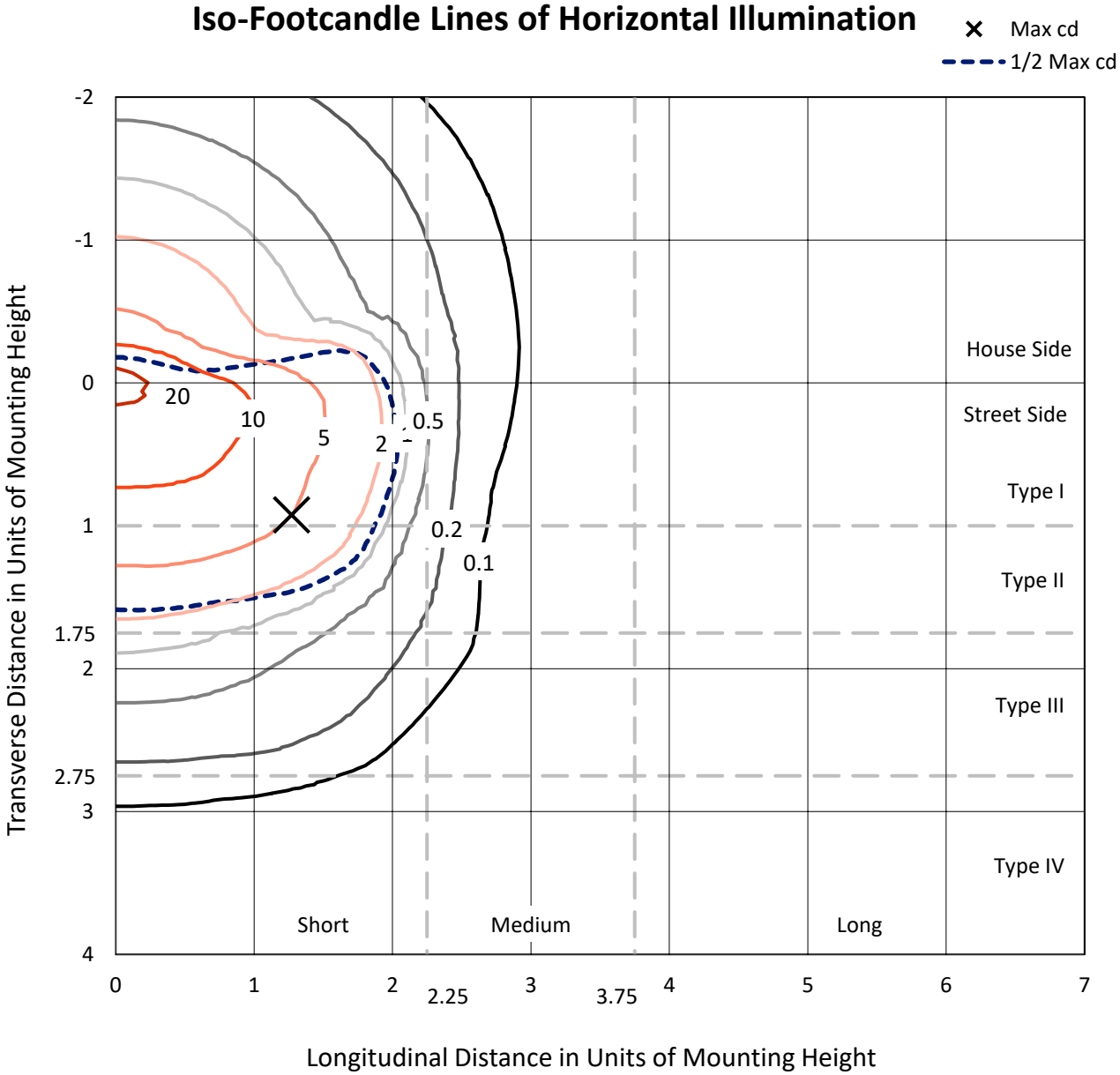
Scaled Data Report

REPORT NUMBER: P632534
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 23.6 fc
Type II - Short - N/A

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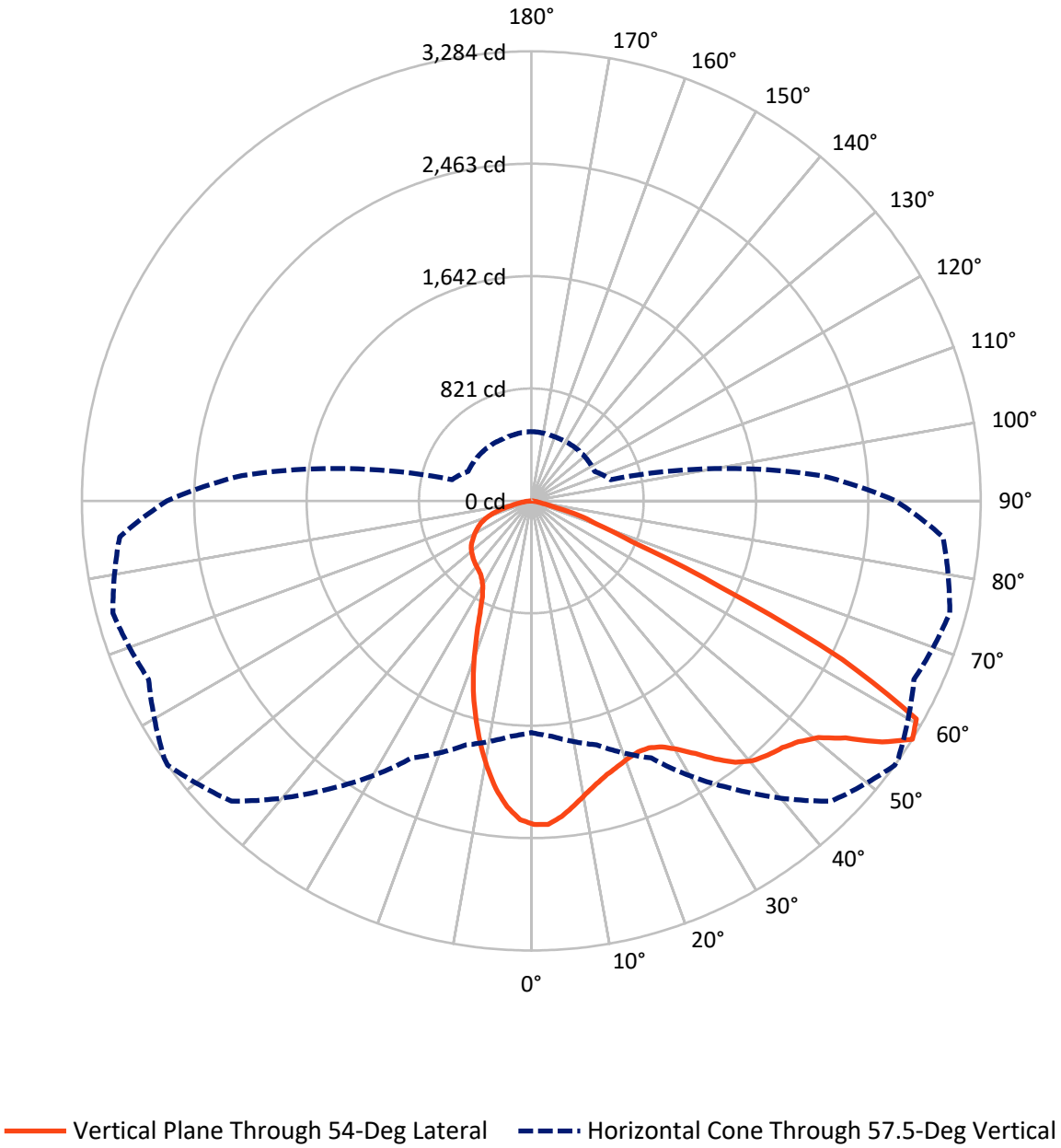
Luminous Intensity Polar Plot



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REPORT NUMBER: P632534
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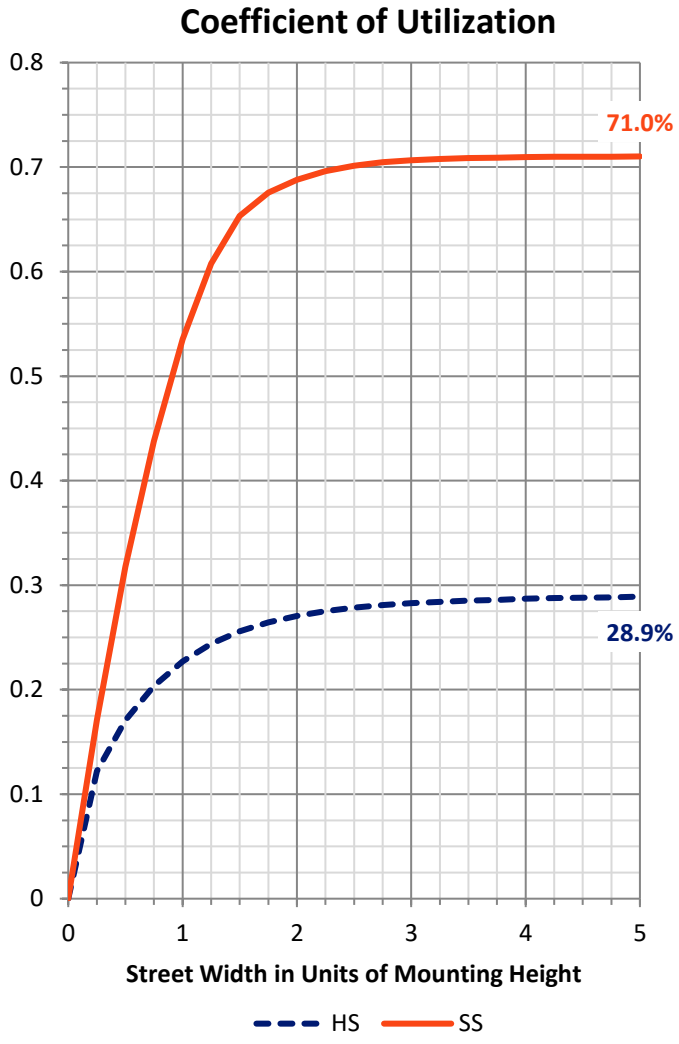
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1790.0	0.0	1790.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	4367.2	0.0	4367.2
	% Fixture	70.9	0.0	70.9
Total	Lumens	6157.2	0.0	6157.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	3.4
10°-20°	495.8	8.1
20°-30°	686.1	11.1
30°-40°	953.3	15.5
40°-50°	1259.1	20.4
50°-60°	1496.2	24.3
60°-70°	828.9	13.5
70°-80°	206.4	3.4
80°-90°	23.5	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°	6157.2	100.0
0°-180°	6157.2	100.0



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REPORT NUMBER: P632534
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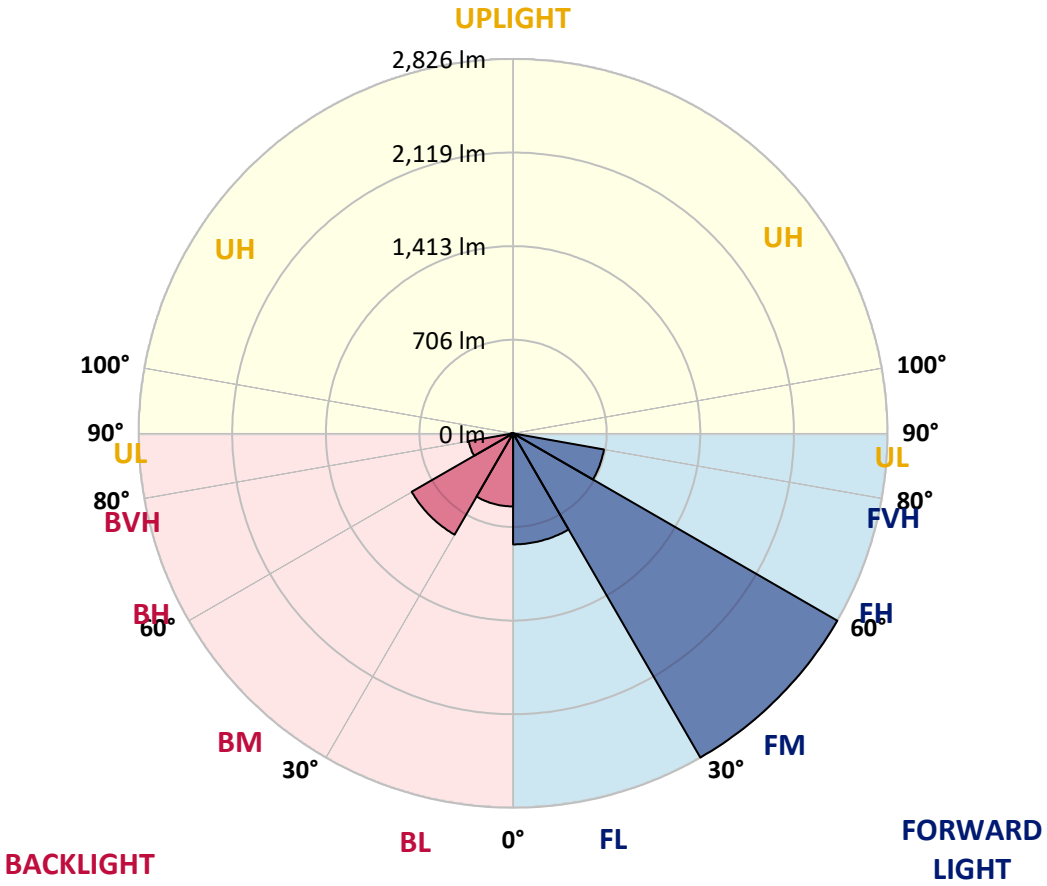
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	838.1	13.6			
FM	(30°-60°)	2825.6	45.9			
FH	(60°-80°)	696.2	11.3			G1/1800
FVH	(80°-90°)	7.3	0.1			G0/10
BL	(0°-30°)	551.6	9.0	B2/1000		
BM	(30°-60°)	883.0	14.3	B1/1000		
BH	(60°-80°)	339.2	5.5	B1/500		G1/500
BVH	(80°-90°)	16.1	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-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P632534
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9
2.5°	2319.6	2324.4	2327.5	2338.6	2348.1	2356.5	2365.5	2365.5	2364.9	2363.4	2360.2
5°	2227.9	2233.2	2240.6	2255.8	2276.4	2291.2	2315.4	2317.5	2328.0	2332.3	2330.2
7.5°	2121.4	2123.0	2132.5	2152.5	2185.2	2211.6	2246.4	2250.6	2275.9	2290.6	2288.0
10°	2005.0	1999.7	2016.6	2046.1	2088.8	2133.0	2177.8	2181.5	2222.1	2250.0	2247.9
12.5°	1898.5	1899.0	1915.9	1951.7	2005.0	2059.8	2119.9	2128.3	2178.4	2214.2	2210.5
15°	1809.4	1811.5	1832.1	1872.7	1933.3	1998.6	2073.5	2081.4	2144.6	2192.1	2181.5
17.5°	1738.3	1740.4	1758.3	1804.7	1869.5	1948.6	2039.7	2047.6	2126.2	2182.6	2161.0
20°	1689.2	1688.2	1705.6	1749.9	1816.8	1902.7	2010.2	2021.8	2120.4	2186.3	2147.3
22.5°	1669.2	1668.7	1681.3	1717.7	1780.4	1867.4	1992.3	2008.1	2126.7	2202.6	2138.8
25°	1679.2	1677.1	1688.2	1715.1	1765.1	1853.7	1997.6	2014.4	2153.6	2236.3	2140.4
27.5°	1710.3	1707.7	1717.2	1741.4	1779.4	1867.9	2034.5	2054.0	2210.5	2298.0	2161.5
30°	1757.8	1756.2	1765.7	1788.9	1822.1	1915.4	2105.1	2127.2	2298.5	2393.9	2207.4
32.5°	1813.1	1810.5	1827.3	1854.2	1892.7	2001.8	2200.0	2229.0	2402.9	2517.3	2284.3
35°	1875.3	1873.2	1896.4	1935.4	1990.7	2122.0	2314.9	2346.5	2509.4	2656.9	2386.6
37.5°	1935.9	1935.9	1980.7	2038.7	2108.3	2252.7	2422.9	2442.9	2583.1	2780.8	2496.2
40°	1989.7	1992.8	2060.3	2147.3	2235.8	2370.7	2494.1	2510.9	2615.8	2866.2	2591.6
42.5°	2049.2	2051.9	2130.4	2244.2	2349.7	2466.1	2537.3	2545.7	2622.2	2908.9	2659.0
45°	2096.7	2100.4	2197.9	2319.6	2448.7	2537.8	2571.6	2578.9	2631.1	2932.1	2708.1
47.5°	2121.4	2126.7	2238.4	2380.2	2515.7	2602.1	2627.9	2631.1	2668.0	2972.6	2767.1
50°	2117.2	2127.8	2253.7	2410.3	2565.2	2667.0	2718.6	2723.9	2743.4	3032.2	2836.1
52.5°	2154.6	2159.4	2286.4	2446.1	2635.9	2786.6	2876.2	2883.6	2874.6	3077.0	2877.3
55°	2092.5	2115.1	2245.8	2440.8	2743.4	2971.6	3109.7	3106.0	2993.7	3127.1	2945.8
57.5°	1692.4	1725.6	1845.3	2071.9	2566.3	3101.3	3284.1	3275.2	3086.0	3165.6	3020.1
60°	1171.7	1176.9	1285.0	1445.7	1980.7	2739.7	3233.0	3252.5	3102.8	3117.1	2882.5
62.5°	937.1	935.5	945.6	949.8	1259.7	1925.9	2552.1	2623.2	2577.9	2428.7	2042.9
65°	800.1	805.9	835.4	820.1	822.2	1084.7	1524.8	1534.8	1503.2	1449.4	1080.5
67.5°	626.2	636.2	688.3	747.9	728.9	698.4	791.1	786.4	619.8	479.6	396.4
70°	392.1	398.5	454.3	587.2	634.6	573.4	508.6	506.5	332.1	273.0	299.4
72.5°	228.7	229.8	245.6	327.3	421.1	392.1	374.2	360.5	213.5	217.7	238.8
75°	126.0	126.0	125.4	141.3	166.0	147.1	142.3	138.6	142.8	161.8	177.6
77.5°	26.4	26.9	28.5	37.4	48.5	59.0	74.3	74.8	93.3	108.0	120.7
80°	12.1	12.6	15.8	20.0	25.8	34.3	45.3	45.9	56.4	68.0	76.4
82.5°	6.3	6.9	8.4	10.5	13.7	17.9	25.3	25.3	33.7	40.1	45.3
85°	2.1	2.1	3.2	4.2	5.8	7.4	10.0	10.0	14.8	19.5	22.7
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	2.1	2.1	2.6	3.2	5.3
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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REPORT NUMBER: P632534
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9
2.5°	2353.3	2337.0	2337.5	2340.7	2330.7	2315.4	2305.4	2292.7	2284.8	2283.2	2289.0
5°	2319.6	2300.6	2287.5	2273.8	2245.3	2211.6	2185.2	2163.6	2149.4	2144.1	2137.8
7.5°	2273.2	2248.5	2215.3	2176.8	2125.1	2065.0	2022.9	1983.3	1955.9	1948.0	1944.3
10°	2226.9	2191.0	2132.0	2060.3	1974.4	1893.2	1816.8	1758.3	1711.9	1685.6	1694.0
12.5°	2178.9	2134.6	2042.4	1932.2	1812.6	1690.3	1590.2	1493.2	1418.3	1380.9	1369.8
15°	2136.7	2076.6	1948.0	1798.9	1639.7	1485.8	1340.9	1195.4	1100.5	1048.9	1034.6
17.5°	2100.9	2022.9	1848.4	1662.9	1472.6	1253.4	1075.2	940.3	875.5	847.0	844.9
20°	2065.6	1970.2	1749.9	1516.4	1279.7	1034.1	874.9	811.7	788.5	778.5	777.9
22.5°	2033.9	1914.8	1646.0	1369.8	1087.9	869.1	781.6	754.2	747.9	747.9	746.9
25°	2007.1	1859.5	1539.6	1214.4	914.5	773.7	733.1	721.6	724.2	728.9	729.5
27.5°	1996.0	1816.3	1436.8	1054.7	794.8	718.4	699.9	698.4	705.7	713.1	714.2
30°	2007.6	1786.8	1331.4	901.8	723.1	684.7	676.2	679.4	688.3	695.7	695.7
32.5°	2043.4	1772.0	1223.8	790.1	681.5	660.9	658.3	661.5	668.3	672.5	673.1
35°	2104.0	1777.8	1112.6	714.7	654.6	643.5	643.0	645.1	647.8	650.4	650.9
37.5°	2180.5	1803.6	993.5	671.0	637.2	630.9	629.8	629.3	629.8	629.8	630.4
40°	2255.3	1842.6	887.1	645.1	625.1	619.8	617.2	613.5	613.0	611.9	611.4
42.5°	2310.7	1872.7	802.2	626.7	614.0	607.7	604.5	598.7	598.2	597.7	597.2
45°	2352.3	1898.0	731.6	608.8	602.4	596.6	589.8	584.5	585.6	586.6	586.6
47.5°	2399.2	1920.1	679.9	591.9	588.2	582.4	574.0	570.3	574.0	577.7	577.7
50°	2456.1	1951.2	637.7	575.0	573.4	566.6	559.2	557.6	561.9	567.1	567.1
52.5°	2497.8	1978.1	607.7	558.2	558.2	549.2	542.9	542.4	547.1	552.4	552.9
55°	2575.8	2040.8	597.2	538.7	536.6	529.7	525.0	521.3	527.1	531.8	531.8
57.5°	*2663.8*	*2124.1*	*599.8*	*510.7*	*508.1*	*506.0*	*502.3*	*498.1*	*499.7*	*504.9*	*505.5*
60°	2477.2	1962.8	570.8	482.8	481.2	480.2	475.4	468.0	470.1	474.4	474.9
62.5°	1730.4	1304.5	461.7	448.0	453.3	452.7	446.4	438.0	438.5	444.3	444.3
65°	898.1	705.7	405.3	416.4	424.3	421.1	410.6	403.2	402.2	409.5	407.9
67.5°	387.4	385.3	368.9	383.2	391.6	384.8	373.7	361.6	362.6	365.3	363.1
70°	312.0	321.5	328.4	343.6	350.5	337.8	325.7	318.9	313.1	312.5	308.9
72.5°	249.3	262.5	277.8	293.6	295.7	283.0	267.7	261.4	252.5	251.9	248.2
75°	187.6	198.7	210.8	223.5	223.5	211.4	201.3	198.2	187.6	184.5	181.3
77.5°	128.1	134.9	144.4	147.6	150.7	146.0	136.0	130.7	118.6	115.4	111.2
80°	80.6	85.4	91.2	93.3	96.5	90.7	82.7	77.0	68.5	65.9	63.8
82.5°	48.5	51.7	55.3	56.4	59.0	54.8	47.4	43.2	38.5	36.4	34.8
85°	24.8	26.4	28.5	29.0	28.5	24.2	21.6	19.5	16.3	15.8	14.8
87.5°	6.3	7.4	7.9	7.4	6.9	5.3	3.7	2.6	1.1	1.1	0.5
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

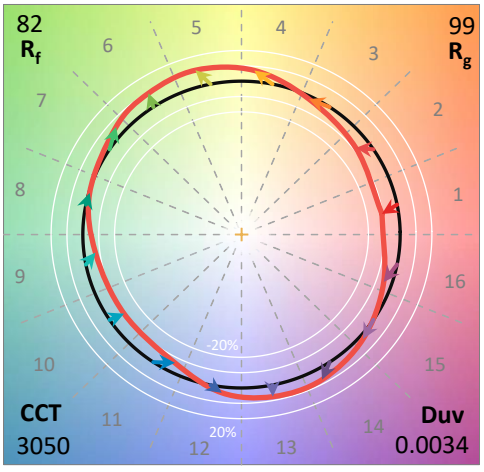
Test Information

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

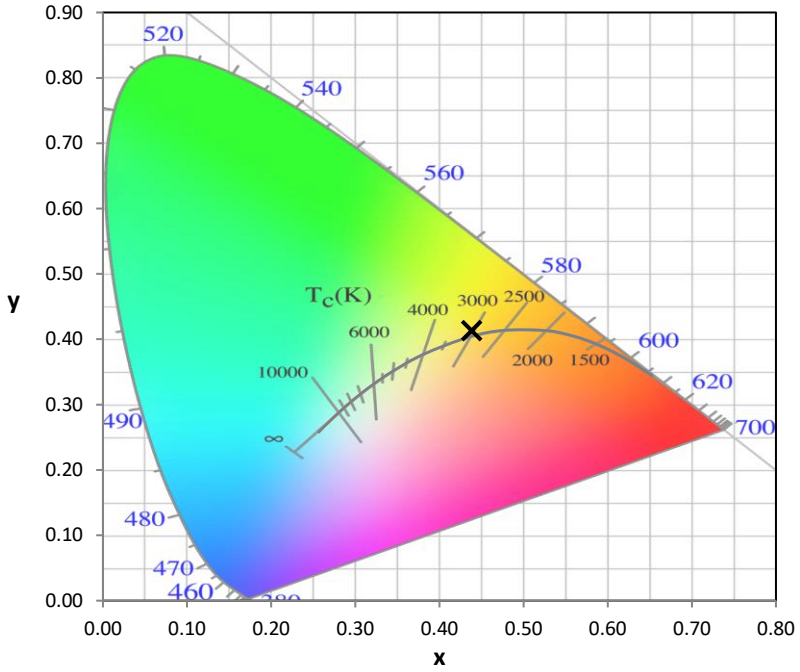
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

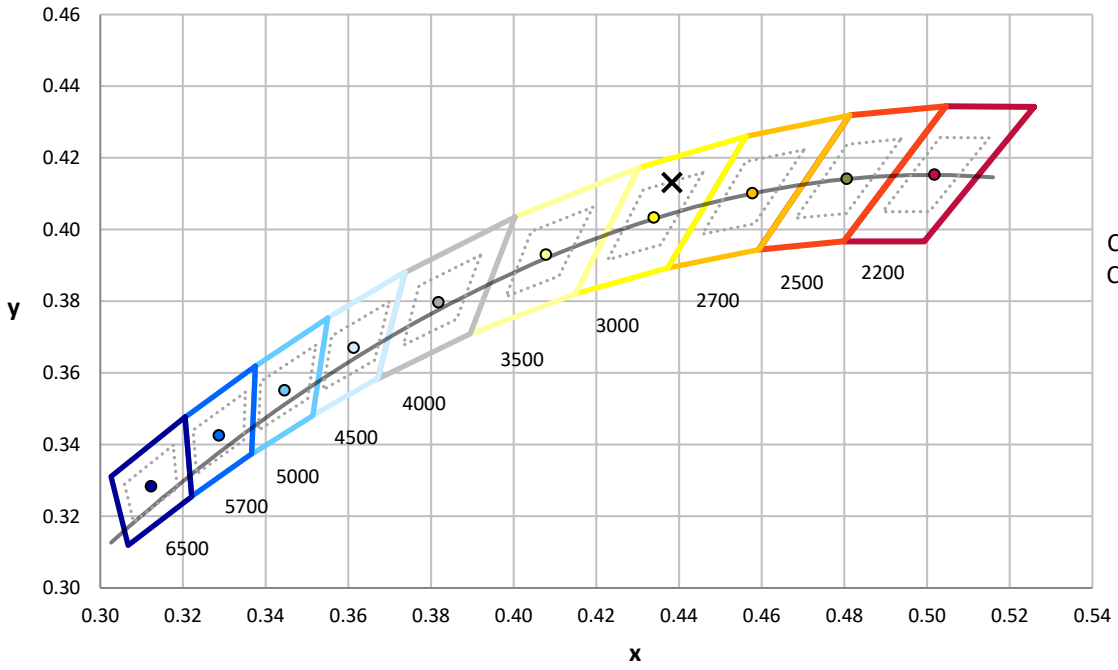
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

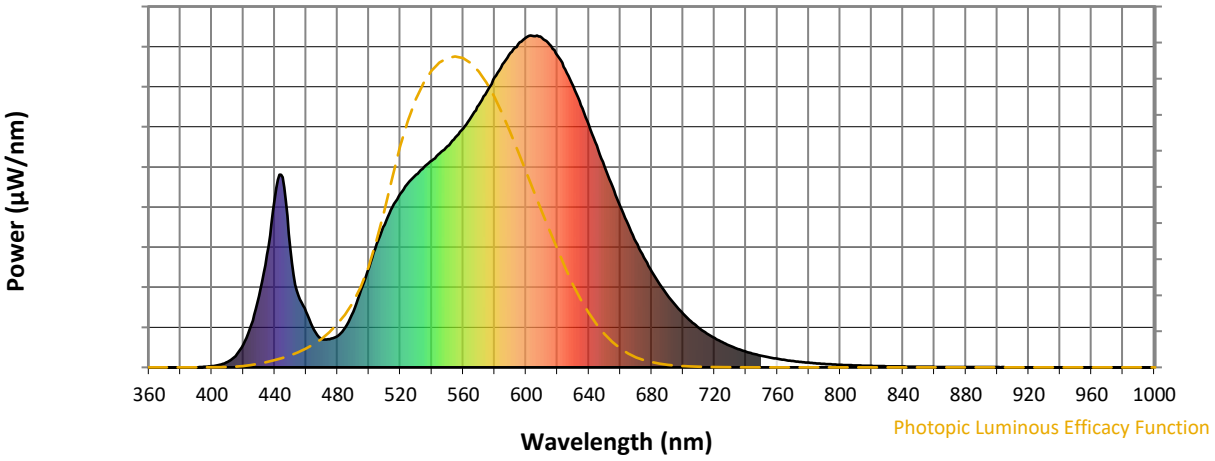


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

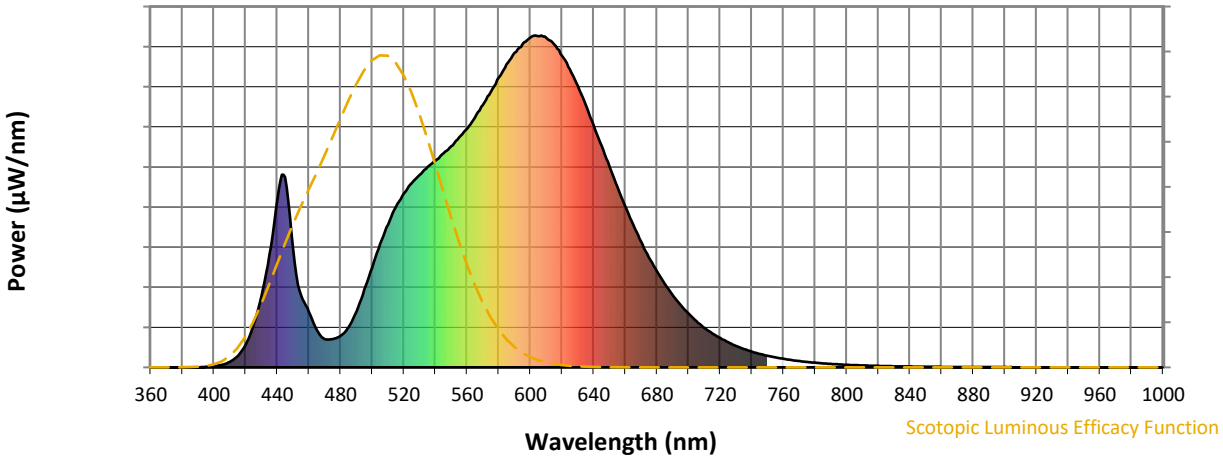


Photopic Lumens: NR

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

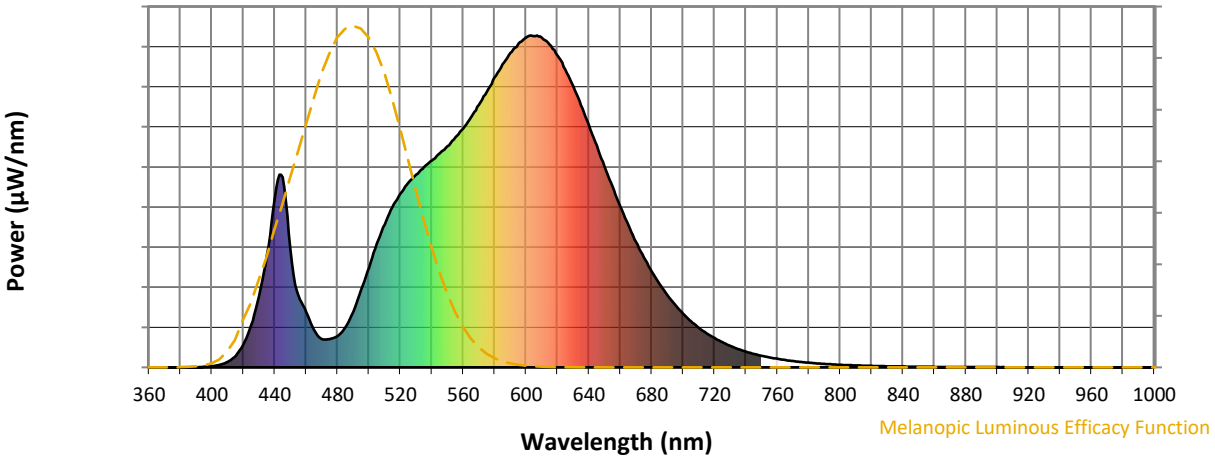


Scotopic Lumens: NR **S/P: 1.27**

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			

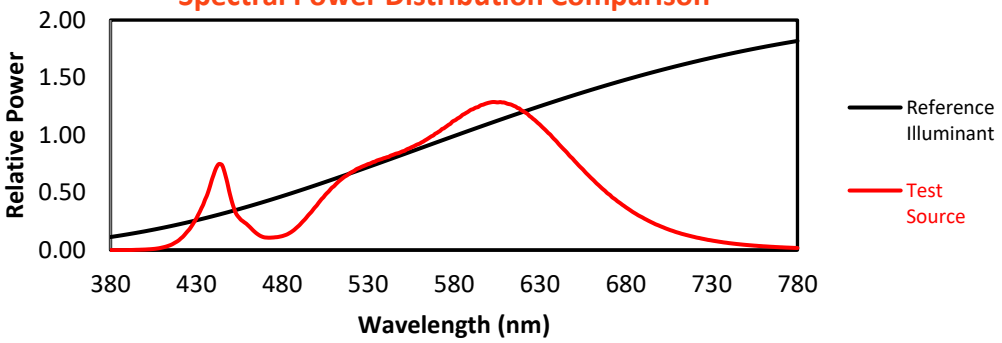
REPORT NUMBER: SP1-2408-195-9

TM-30-18

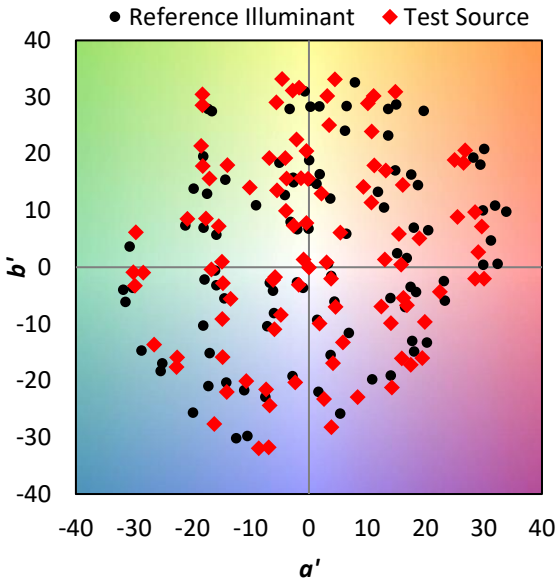
Summary

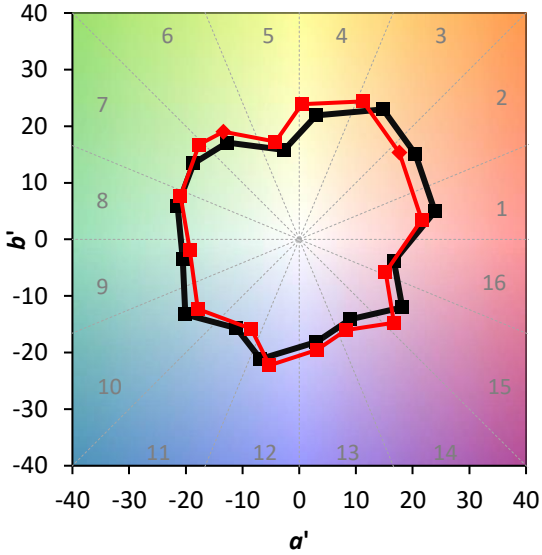
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

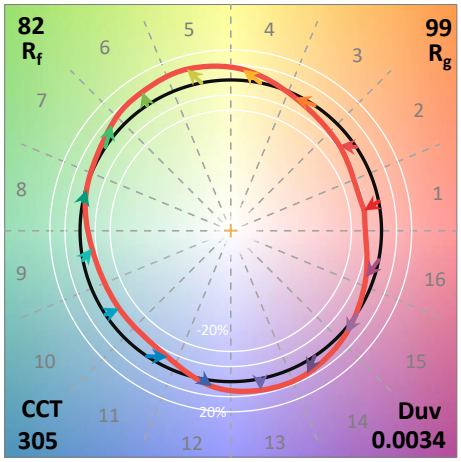
Spectral Power Distribution Comparison

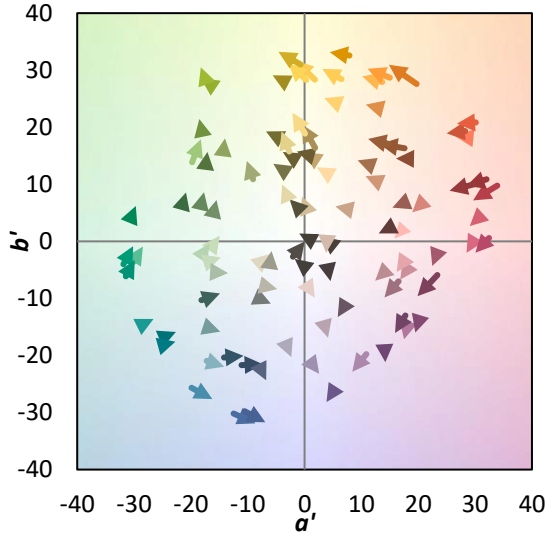


Color Vector Graphics







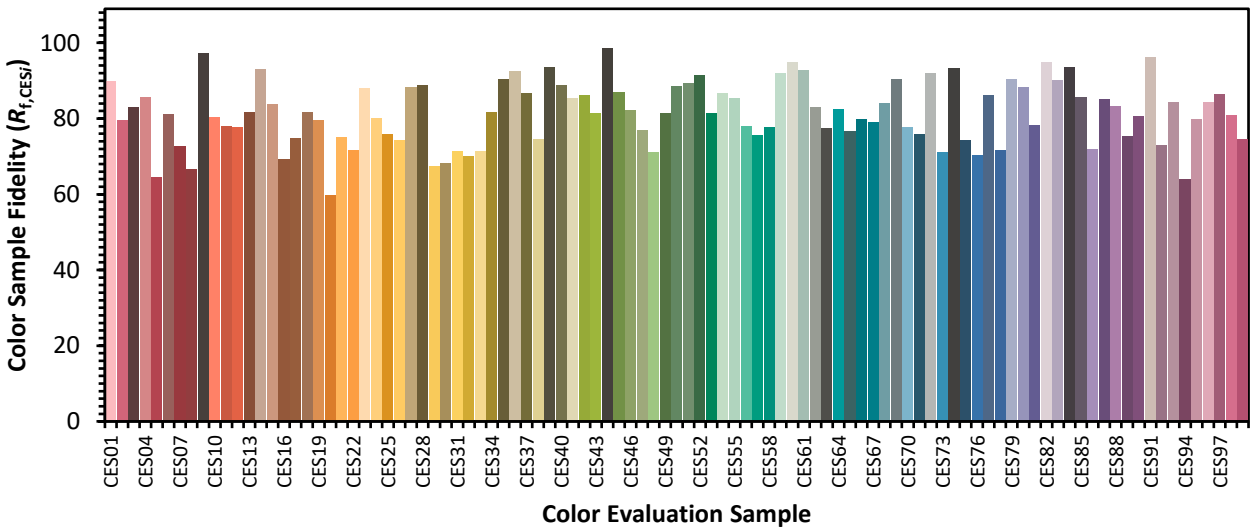


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

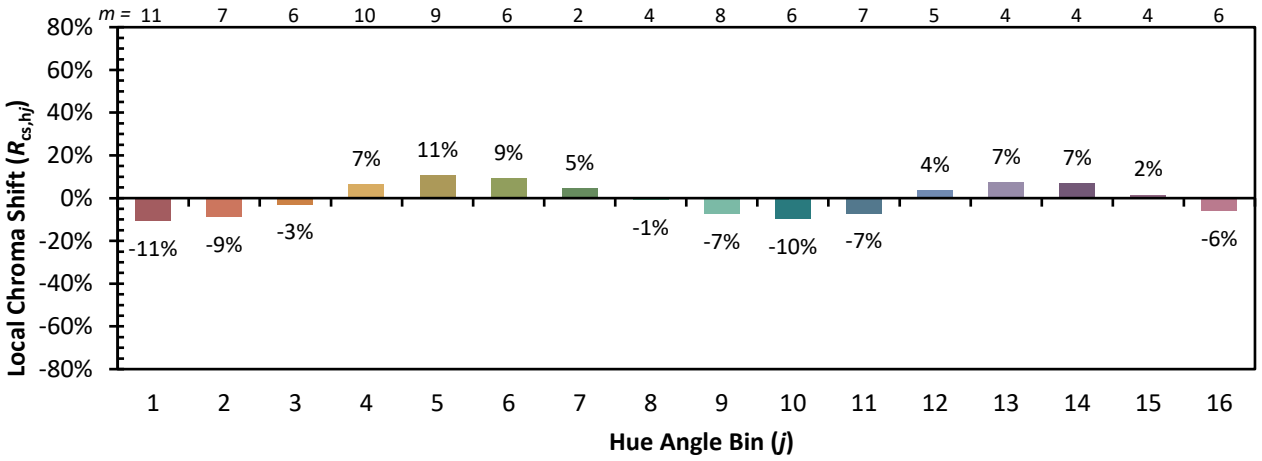
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

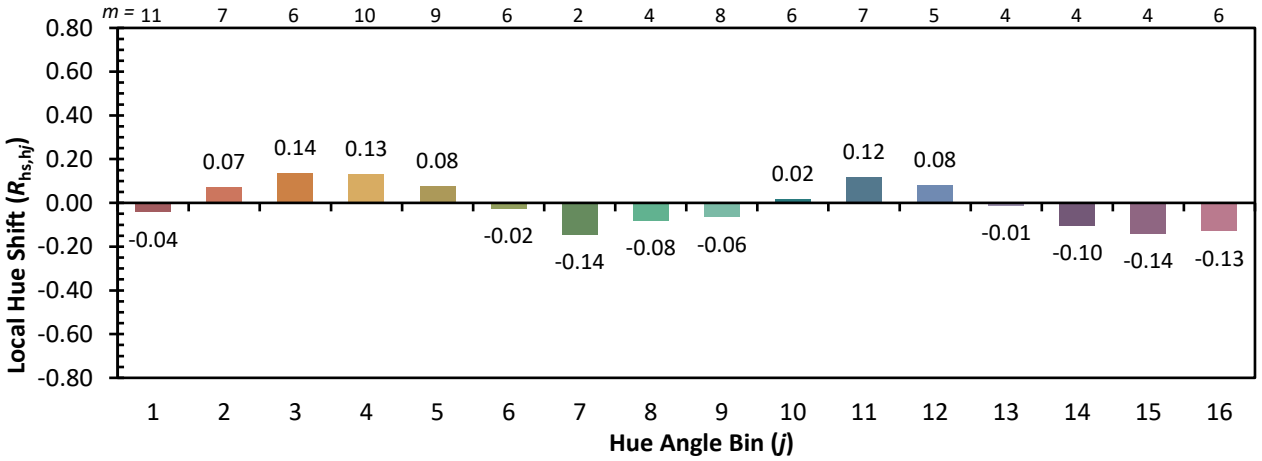


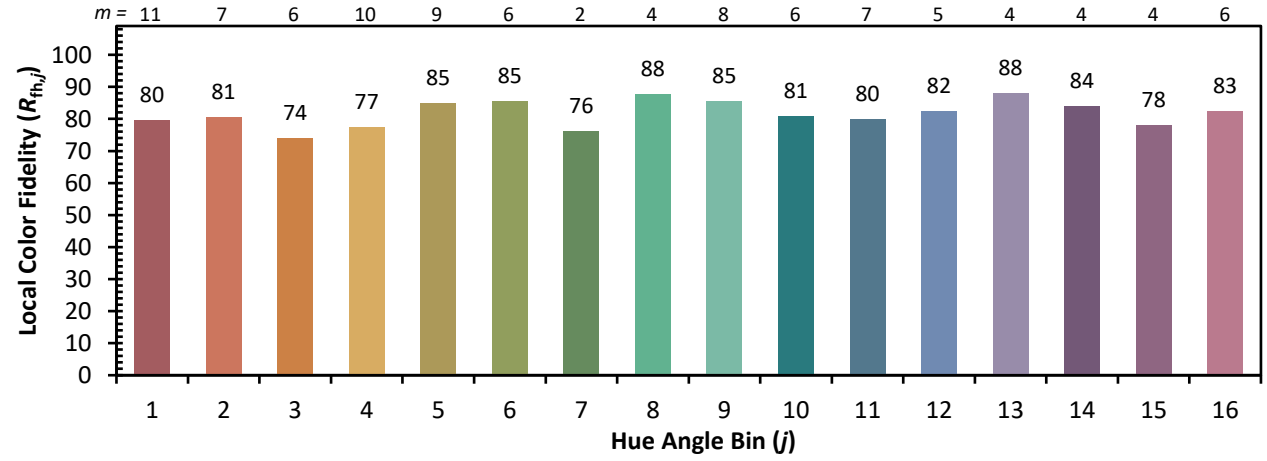
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



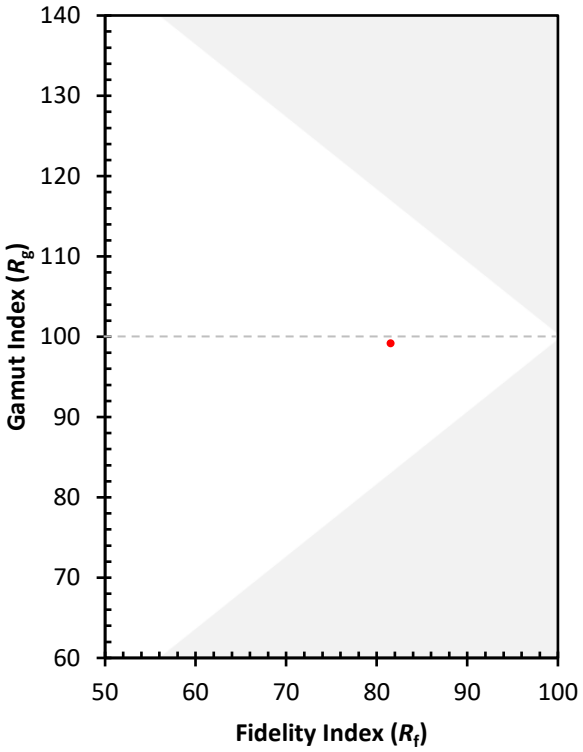


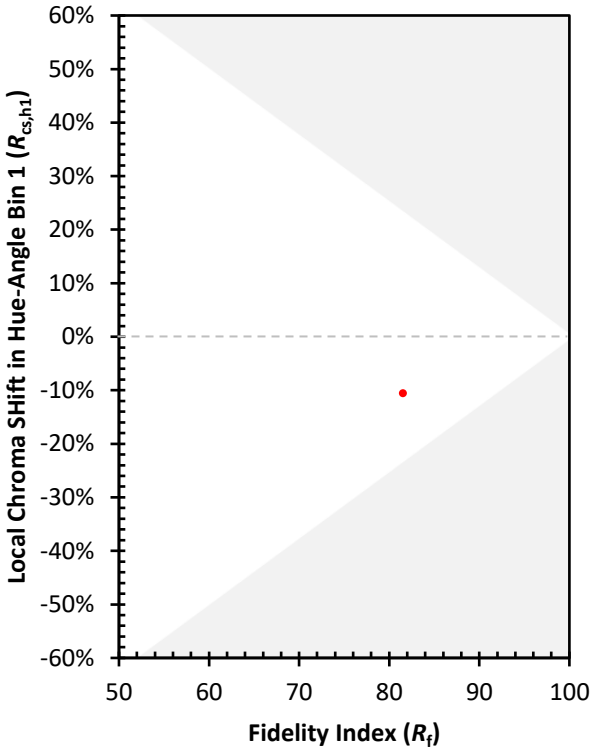


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)