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: P635022

Luminaire Tested: GWS-SA3C-830-U-T1-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:	P635022
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11061.1 lumens
Efficiency:	N/A
Efficacy:	118.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B3 - U0 - G3

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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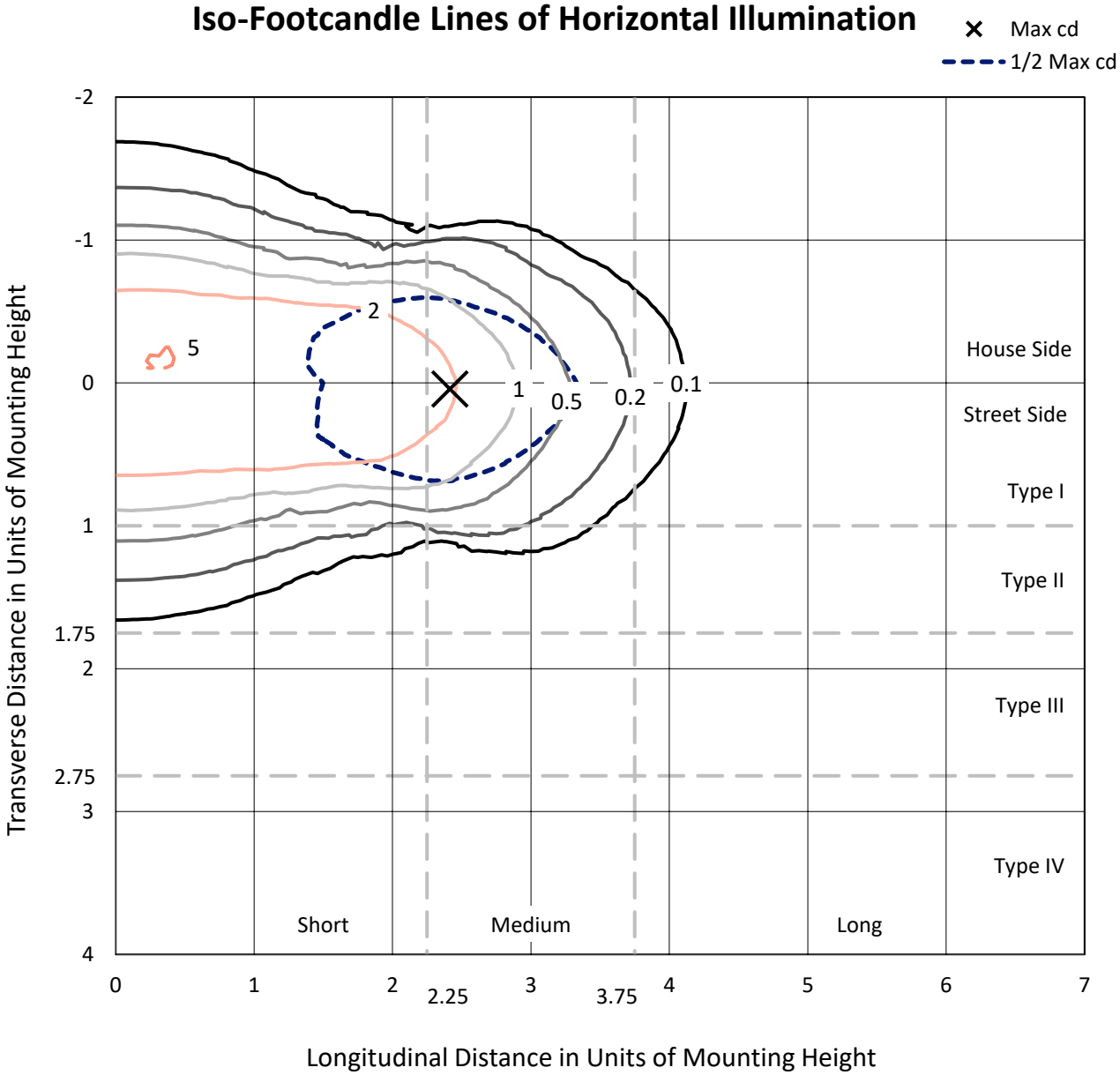
Scaled Data Report

REPORT NUMBER: P635022
CATALOG NUMBER: GWS-SA3C-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
Type I - Medium - N/A

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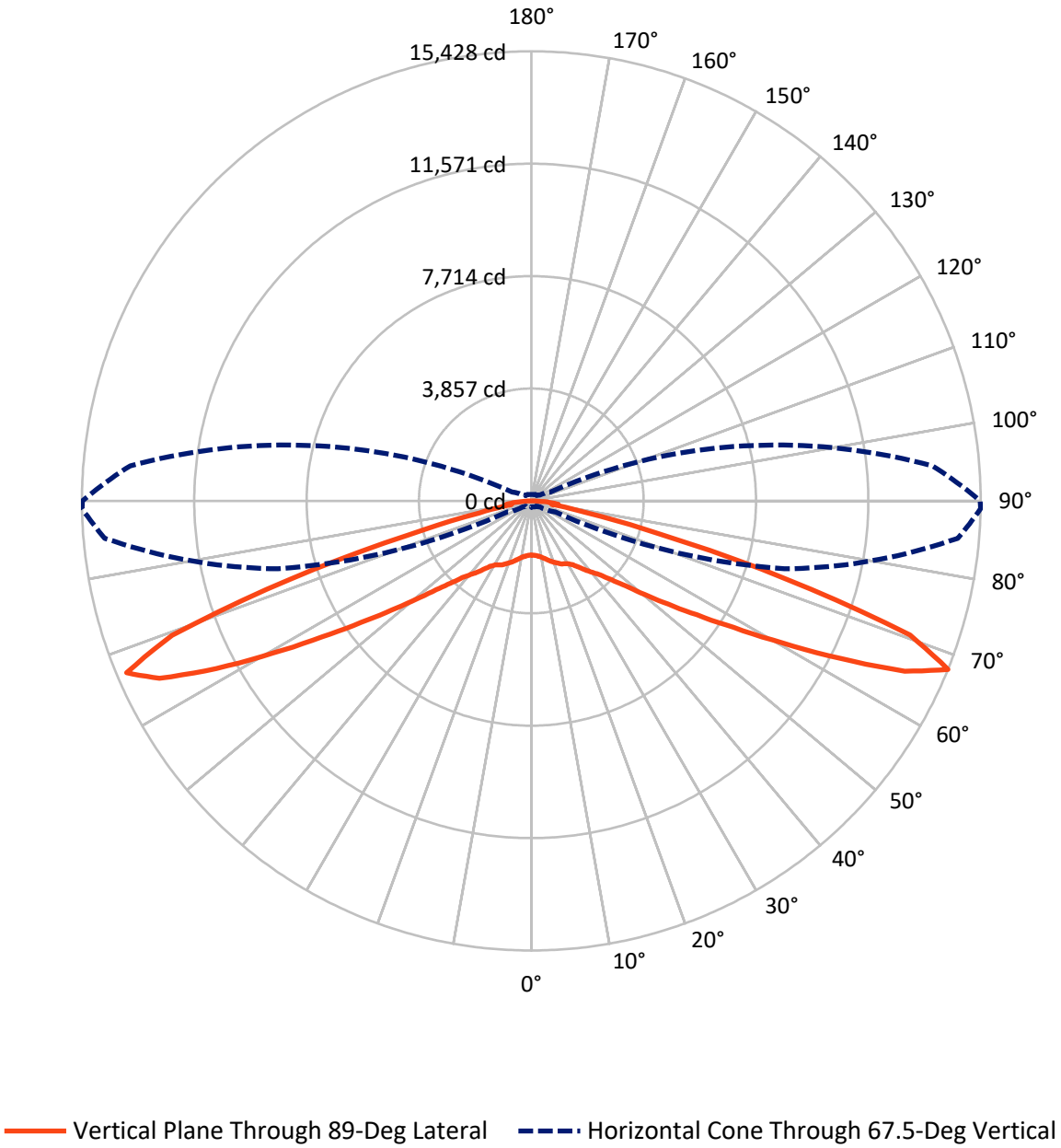
Luminous Intensity Polar Plot



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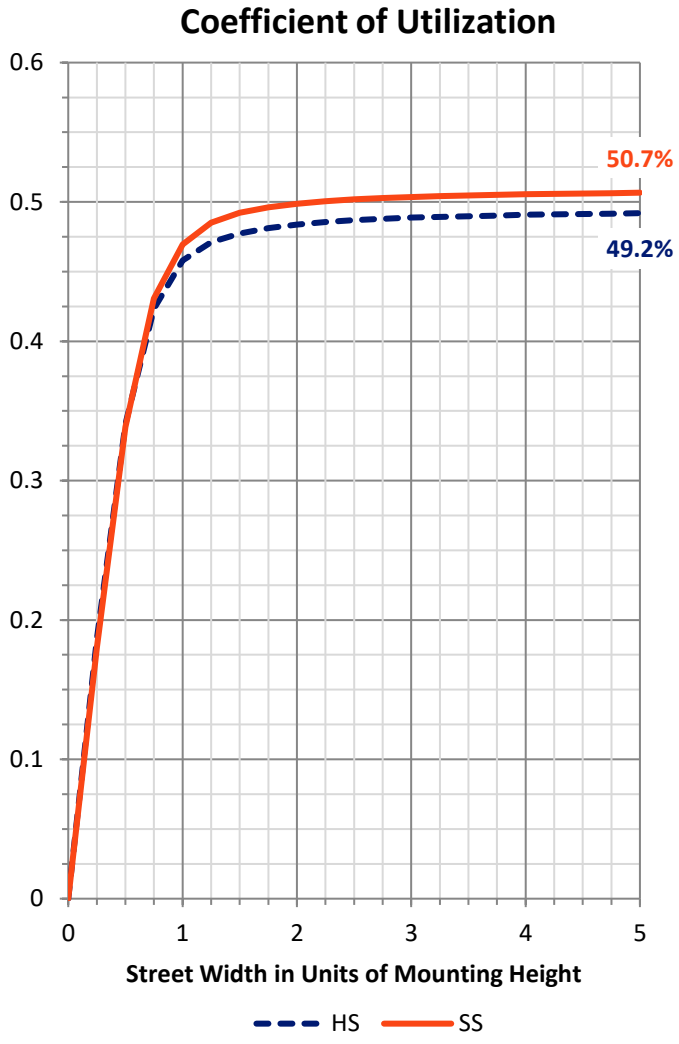
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5482.1	0.0	5482.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5579.0	0.0	5579.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	11061.1	0.0	11061.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	1.7
10°-20°	606.4	5.5
20°-30°	1025.0	9.3
30°-40°	1406.7	12.7
40°-50°	1793.9	16.2
50°-60°	2250.7	20.3
60°-70°	2714.6	24.5
70°-80°	982.0	8.9
80°-90°	95.5	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°	11061.1	100.0
0°-180°	11061.1	100.0



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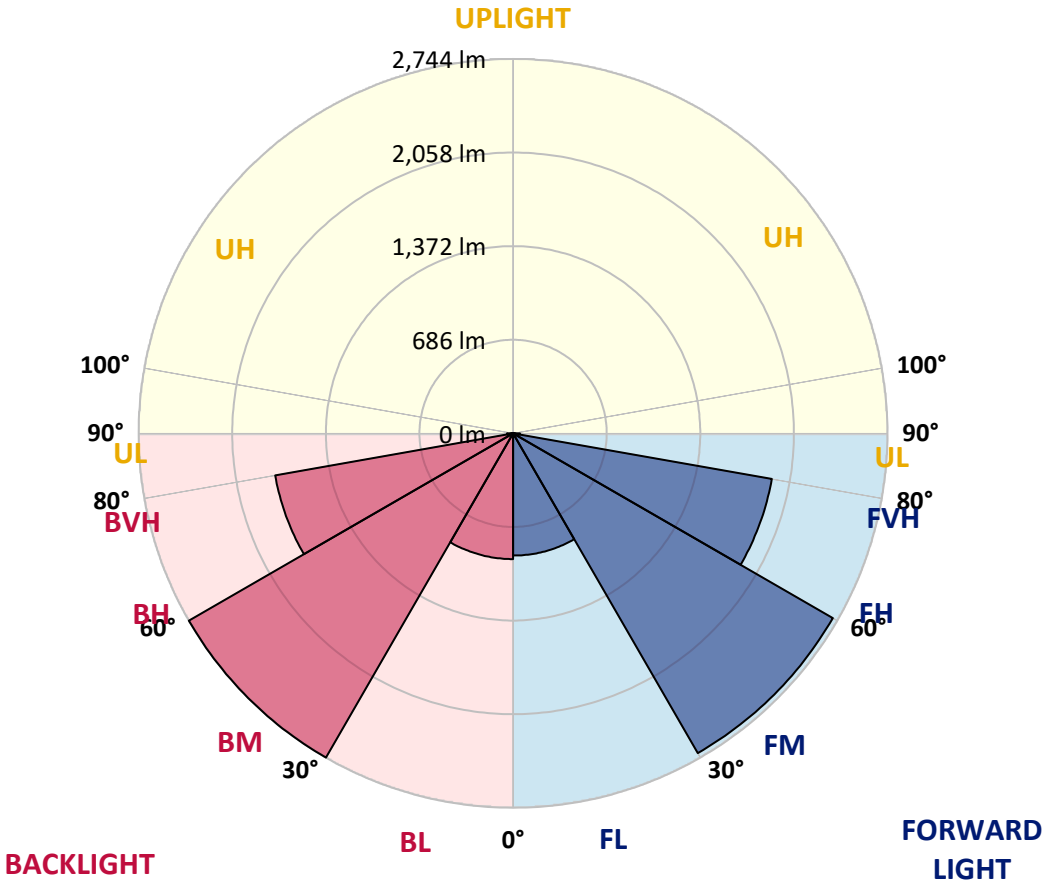
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	895.9	8.1			
FM	(30°-60°)	2706.9	24.5			
FH	(60°-80°)	1925.9	17.4			G2/5000
FVH	(80°-90°)	50.4	0.5			G1/100
BL	(0°-30°)	921.8	8.3	B2/1000		
BM	(30°-60°)	2744.5	24.8	B3/5000		
BH	(60°-80°)	1770.7	16.0	B3/2500		G3/2500
BVH	(80°-90°)	45.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type I Medium



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REPORT NUMBER: P635022
CATALOG NUMBER: GWS-SA3C-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	*1856.5*
2.5°	1862.1	1860.5	1856.5	1868.4	1866.0	1866.8	1871.6	1868.4	1862.9	1853.3	*1866.8*
5°	1914.5	1913.7	1905.0	1912.1	1904.2	1898.6	1897.8	1889.9	1883.5	1873.2	*1887.5*
7.5°	1965.3	1964.6	1957.4	1970.1	1963.8	1957.4	1950.3	1934.4	1919.3	1904.2	*1920.1*
10°	2004.3	2003.5	2001.9	2020.2	2021.8	2024.1	2021.0	1993.9	1967.7	1949.5	*1965.3*
12.5°	2026.5	2028.9	2032.9	2066.2	2082.9	2098.8	2102.8	2080.5	2036.8	2010.6	*2029.7*
15°	2011.4	2016.2	2036.1	2096.4	2142.5	2178.2	2193.3	2175.1	2118.7	2075.0	*2096.4*
17.5°	1939.1	1943.1	1982.0	2074.2	2175.9	2258.5	2283.1	2272.0	2209.2	2156.0	*2176.7*
20°	1839.0	1847.8	1889.9	2018.6	2170.3	2314.1	2380.0	2376.1	2307.7	2225.9	*2250.5*
22.5°	1748.5	1758.8	1803.3	1945.5	2133.0	2328.4	2477.7	2488.1	2397.5	2295.8	*2315.7*
25°	1646.8	1656.3	1713.5	1858.9	2068.6	2317.3	2561.2	2608.0	2499.2	2376.1	*2394.3*
27.5°	1542.7	1549.9	1606.3	1761.2	1984.4	2296.6	2627.1	2739.9	2599.3	2431.7	*2444.4*
30°	1451.4	1460.9	1512.5	1663.5	1892.3	2255.3	2681.1	2880.5	2714.5	2494.4	*2504.7*
32.5°	1363.2	1371.1	1427.5	1567.4	1794.6	2191.8	2729.6	3045.7	2885.3	2611.2	*2611.2*
35°	1252.0	1266.3	1329.8	1475.2	1702.4	2107.5	2764.5	3238.0	3118.8	2783.6	*2784.4*
37.5°	1149.5	1157.4	1224.2	1371.1	1605.5	2012.2	2767.7	3437.4	3414.3	3002.8	*3004.4*
40°	1032.7	1043.0	1114.5	1259.9	1494.3	1912.1	2737.5	3623.3	3724.2	3228.4	*3219.7*
42.5°	914.4	929.4	997.8	1140.0	1374.3	1789.8	2657.3	3800.4	4117.4	3489.8	*3468.4*
45°	800.0	809.5	877.8	1012.1	1236.9	1643.6	2528.6	3970.4	4584.5	3887.0	*3856.0*
47.5°	671.3	675.2	745.9	874.6	1094.7	1480.8	2344.3	4122.1	5097.7	4412.9	*4359.7*
50°	556.9	562.4	618.0	728.5	920.7	1287.7	2114.7	4211.1	5751.5	5130.2	*5038.1*
52.5°	450.4	456.0	500.5	588.7	761.0	1067.7	1830.3	4190.5	6414.8	6020.8	*5886.5*
55°	363.8	367.8	398.0	467.1	599.0	849.2	1494.3	4005.4	7151.2	7183.8	*6894.6*
57.5°	307.4	309.0	329.7	371.8	467.9	654.6	1153.5	3568.5	7923.4	8667.7	*8192.7*
60°	274.9	275.7	285.2	311.4	369.4	499.7	845.2	2872.6	8723.3	10524.2	*9872.8*
62.5°	254.2	254.2	262.2	277.2	306.6	384.5	621.2	2063.1	9297.7	12544.4	*11897.0*
65°	234.3	234.3	239.9	252.6	268.5	313.8	466.3	1330.6	9579.7	14233.3	*14089.5*
67.5°	*208.9*	*209.7*	*213.7*	*227.2*	*241.5*	*262.2*	*353.5*	*900.1*	*8994.2*	*14700.4*	*15428.1*
70°	185.1	185.9	191.5	200.2	212.1	226.4	276.5	620.4	6546.7	12243.3	*13794.8*
72.5°	158.9	162.1	166.0	175.6	182.7	193.0	225.6	402.0	3809.2	7875.7	*9118.9*
75°	130.3	134.3	139.0	148.6	153.3	157.3	185.9	286.8	1832.7	3991.1	*4544.8*
77.5°	100.9	104.9	110.4	119.2	122.3	127.1	142.2	207.3	877.8	1769.1	*1907.4*
80°	67.5	69.1	73.9	84.2	89.8	92.9	104.9	141.4	381.3	710.2	*703.8*
82.5°	41.3	42.1	43.7	50.0	52.4	55.6	68.3	86.6	181.9	807.1	*925.5*
85°	15.1	14.3	13.5	17.5	20.7	23.8	31.8	43.7	79.4	554.5	*620.4*
87.5°	0.0	0.0	0.0	0.8	1.6	1.6	3.2	6.4	19.1	207.3	*142.2*
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: P635022
CATALOG NUMBER: GWS-SA3C-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5	1856.5
2.5°	1862.9	1854.1	1865.3	1873.2	1890.7	1897.0	1898.6	1893.1	1893.1	1883.5	1885.1
5°	1884.3	1878.8	1897.0	1910.5	1936.0	1945.5	1951.8	1947.9	1950.3	1943.9	1945.5
7.5°	1916.9	1912.1	1943.9	1970.1	1996.3	2007.5	2013.0	2009.8	2010.6	2002.7	2005.1
10°	1962.2	1963.8	2001.9	2036.1	2071.0	2082.1	2084.5	2075.0	2067.0	2052.7	2053.5
12.5°	2024.1	2032.1	2086.1	2124.2	2160.0	2175.9	2158.4	2123.4	2090.9	2066.2	2063.1
15°	2091.7	2106.0	2183.8	2232.3	2271.2	2263.3	2211.6	2133.0	2068.6	2032.1	2024.9
17.5°	2172.7	2194.1	2291.8	2349.8	2383.2	2332.4	2224.3	2106.8	2017.0	1967.7	1958.2
20°	2249.0	2283.1	2406.2	2481.7	2485.7	2371.3	2218.8	2053.5	1940.7	1880.3	1867.6
22.5°	2318.9	2362.6	2526.2	2622.3	2570.7	2388.8	2184.6	1978.1	1848.6	1777.9	1766.7
25°	2395.1	2457.1	2666.0	2755.8	2655.7	2381.6	2113.1	1884.3	1737.4	1665.1	1657.1
27.5°	2447.6	2525.4	2806.6	2892.4	2725.6	2341.1	2021.0	1781.8	1635.7	1567.4	1556.2
30°	2507.9	2607.2	2961.5	3041.0	2768.5	2281.5	1922.5	1686.5	1541.1	1467.3	1459.3
32.5°	2617.6	2742.3	3153.8	3198.3	2782.0	2207.6	1827.9	1594.4	1442.6	1368.8	1357.6
35°	2793.9	2940.1	3423.9	3373.8	2771.7	2126.6	1738.2	1486.3	1341.7	1272.6	1261.5
37.5°	3016.3	3198.3	3724.9	3531.9	2743.1	2037.6	1631.7	1395.8	1251.2	1181.3	1174.9
40°	3223.7	3447.7	4062.6	3668.5	2685.1	1928.0	1529.2	1301.2	1153.5	1079.6	1065.3
42.5°	3483.5	3781.4	4453.4	3786.9	2589.7	1796.9	1414.0	1184.5	1031.1	964.4	946.9
45°	3878.3	4248.5	4907.8	3900.5	2447.6	1635.7	1269.5	1042.3	896.9	828.6	815.1
47.5°	4370.8	4832.3	5400.3	3968.0	2231.5	1465.7	1105.8	892.1	746.7	669.7	663.3
50°	5062.7	5681.6	5928.6	3956.1	1990.0	1263.9	921.5	713.4	591.8	536.2	527.5
52.5°	5905.6	6747.6	6499.8	3813.1	1733.4	1034.3	718.1	560.1	469.5	429.8	422.6
55°	6962.9	8024.3	7101.2	3506.5	1409.3	792.0	564.0	441.7	379.7	355.9	352.7
57.5°	8272.1	9677.4	7680.3	2990.1	1059.7	604.5	434.5	364.6	335.2	320.9	320.1
60°	9999.9	11432.2	8183.1	2323.6	758.7	462.3	359.1	325.7	302.7	293.1	292.3
62.5°	12054.2	13025.8	8496.1	1582.4	570.4	368.6	316.2	295.5	282.0	276.5	275.7
65°	14165.8	14033.1	8346.8	1036.7	432.9	313.0	283.6	272.5	260.6	255.0	255.0
67.5°	*15413.0*	*13820.2*	*7200.5*	*719.7*	*343.2*	*274.9*	*255.8*	*245.5*	*225.6*	*220.8*	*220.8*
70°	13651.8	11198.7	4719.5	526.7	278.0	240.7	222.4	208.1	200.2	195.4	194.6
72.5°	9029.2	7287.0	2509.5	365.4	232.0	205.0	188.3	182.7	173.2	168.4	167.6
75°	4493.9	3827.4	1286.1	263.7	193.0	164.4	157.3	154.9	147.0	140.6	139.0
77.5°	1873.2	1704.0	599.8	191.5	147.0	132.7	126.3	126.3	117.6	110.4	107.2
80°	706.2	629.2	283.6	131.1	108.8	98.5	94.5	91.4	84.2	75.5	70.7
82.5°	944.5	617.3	139.0	81.8	71.5	63.6	58.0	55.6	51.6	47.7	44.5
85°	611.7	438.5	62.8	42.1	35.7	27.0	23.8	22.2	19.9	17.5	15.9
87.5°	124.7	147.0	19.1	7.9	4.8	2.4	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

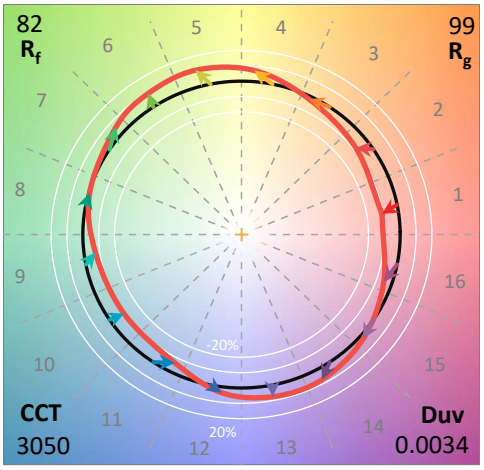
Test Information

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

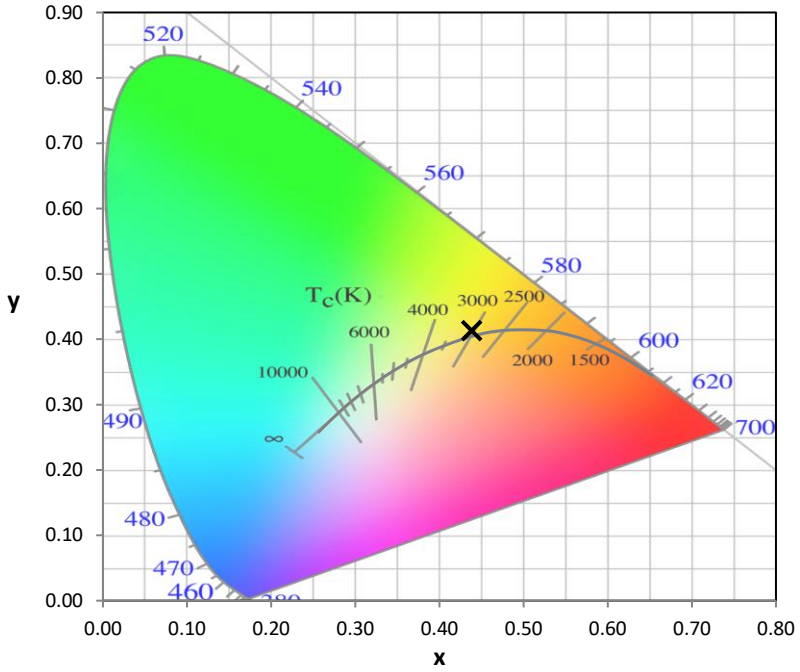
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

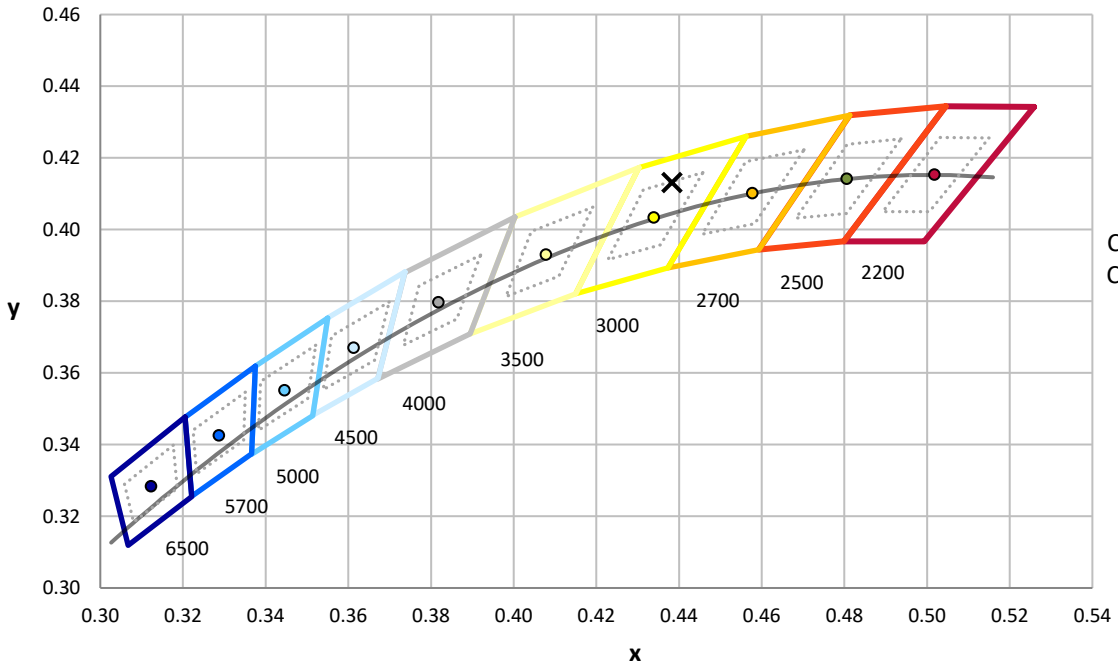
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

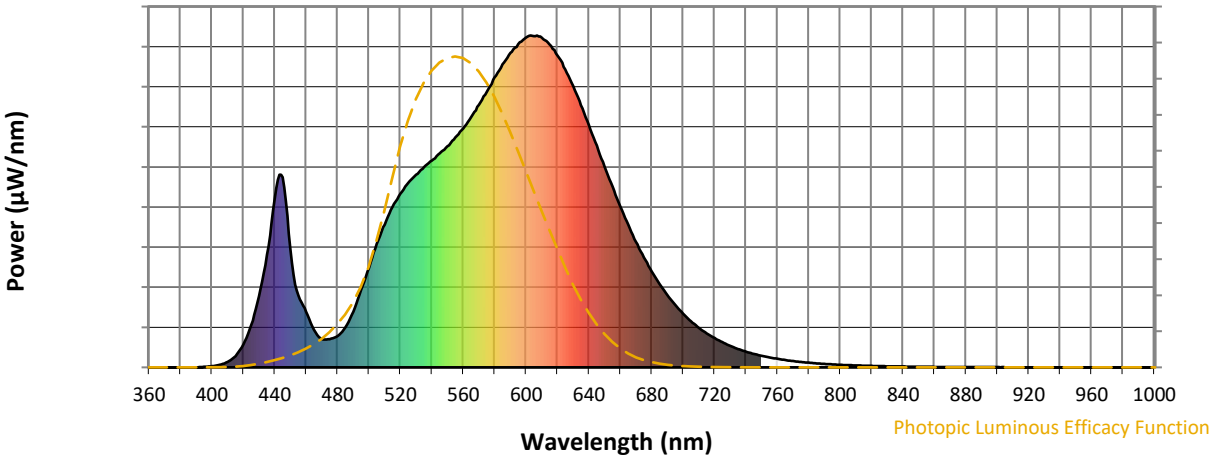


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

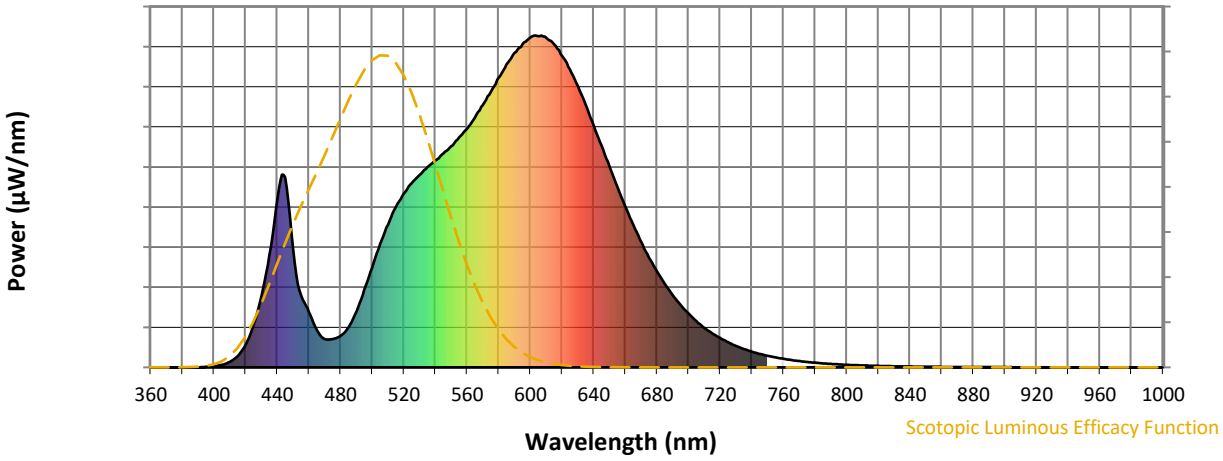


Photopic Lumens: NR

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

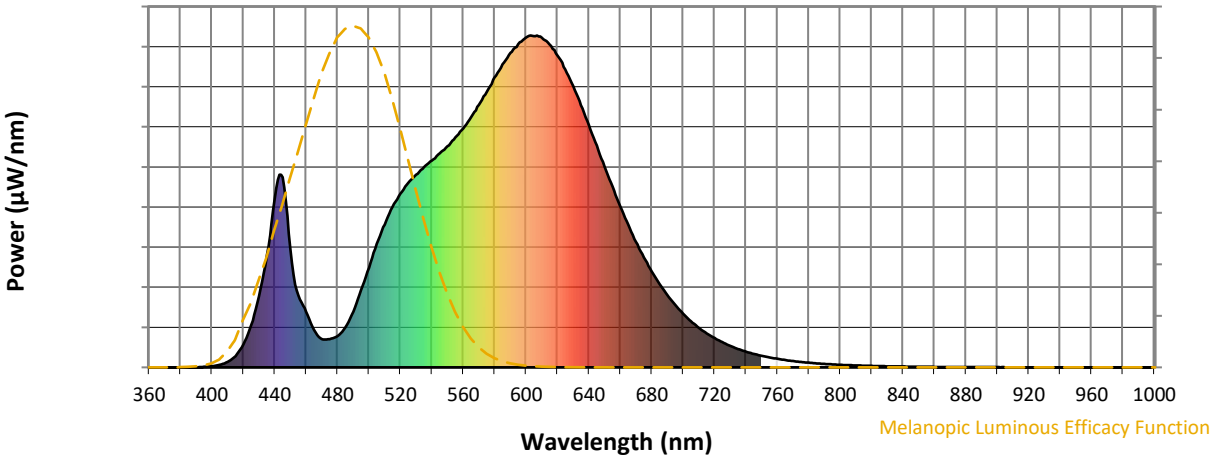


Scotopic Lumens: NR **S/P: 1.27**

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			

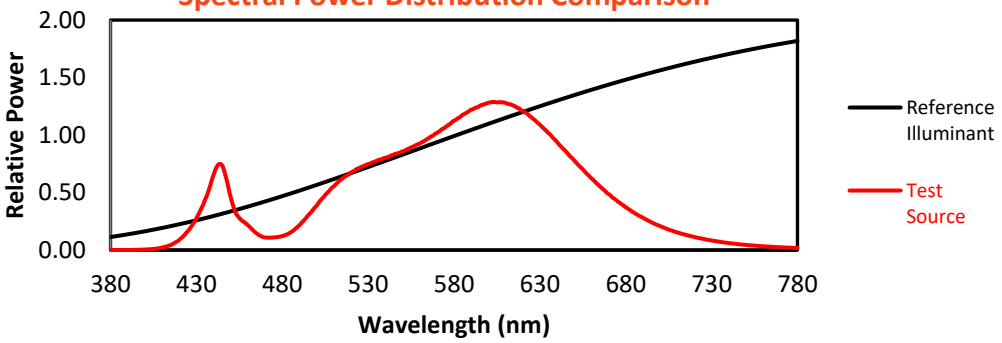
REPORT NUMBER: SP1-2408-195-9

TM-30-18

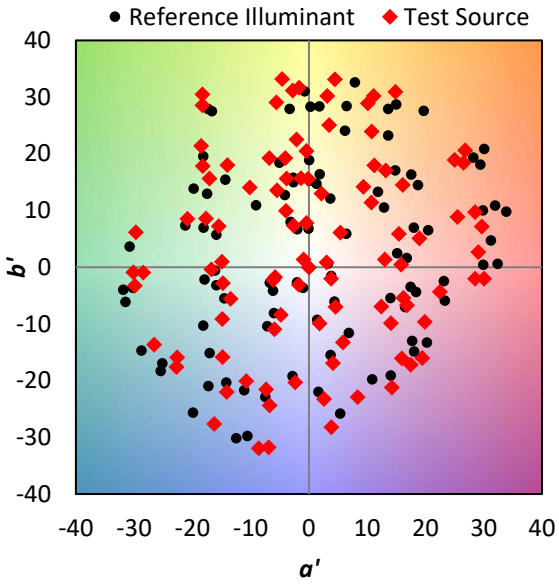
Summary

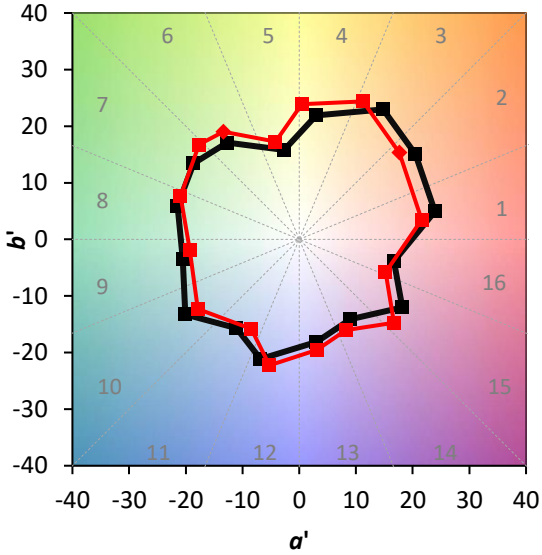
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

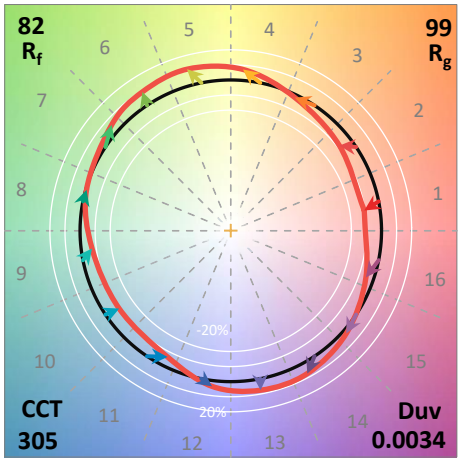
Spectral Power Distribution Comparison

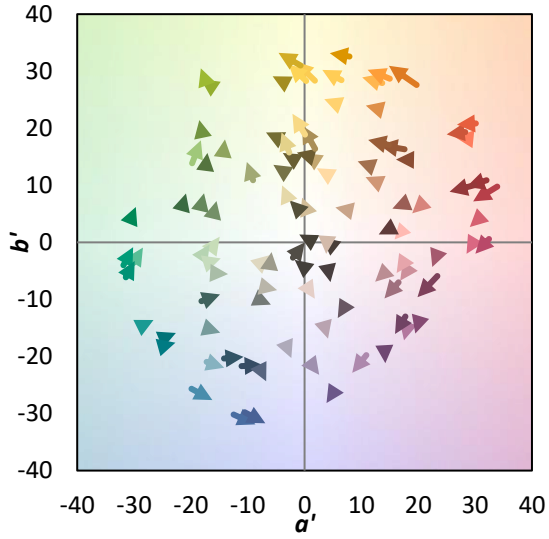


Color Vector Graphics







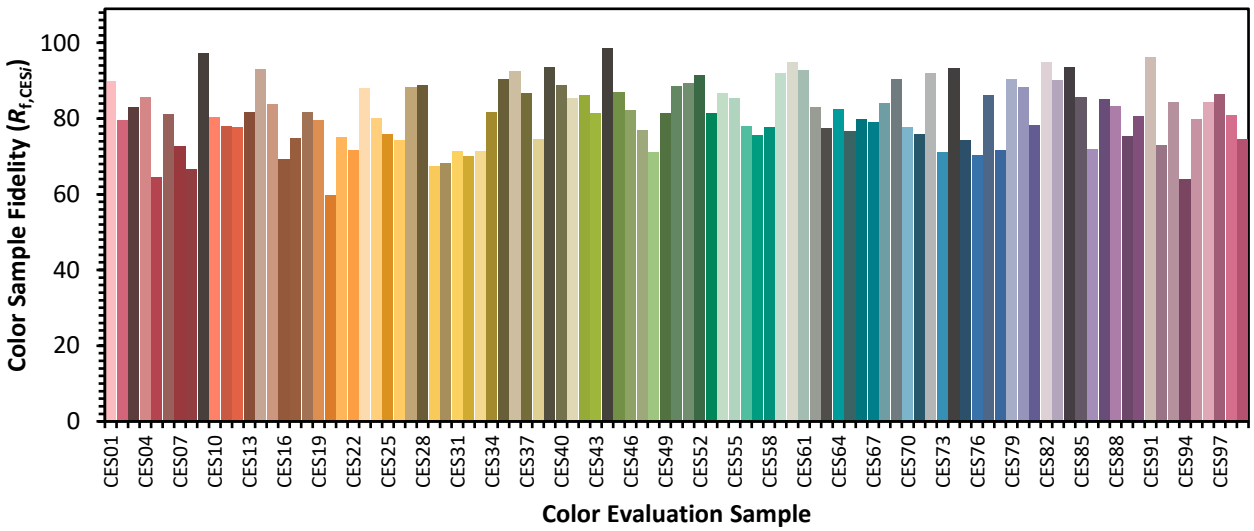


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

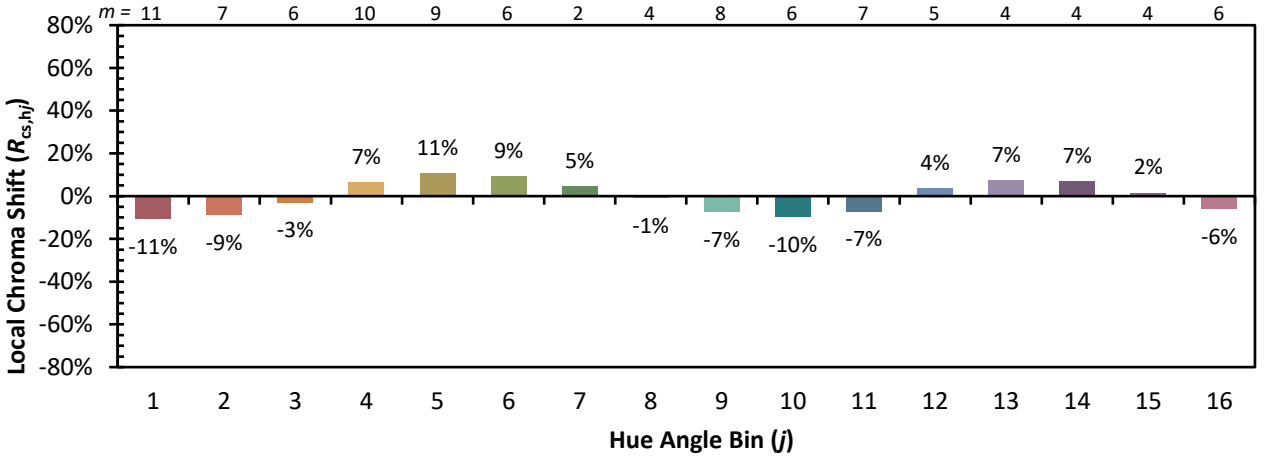
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

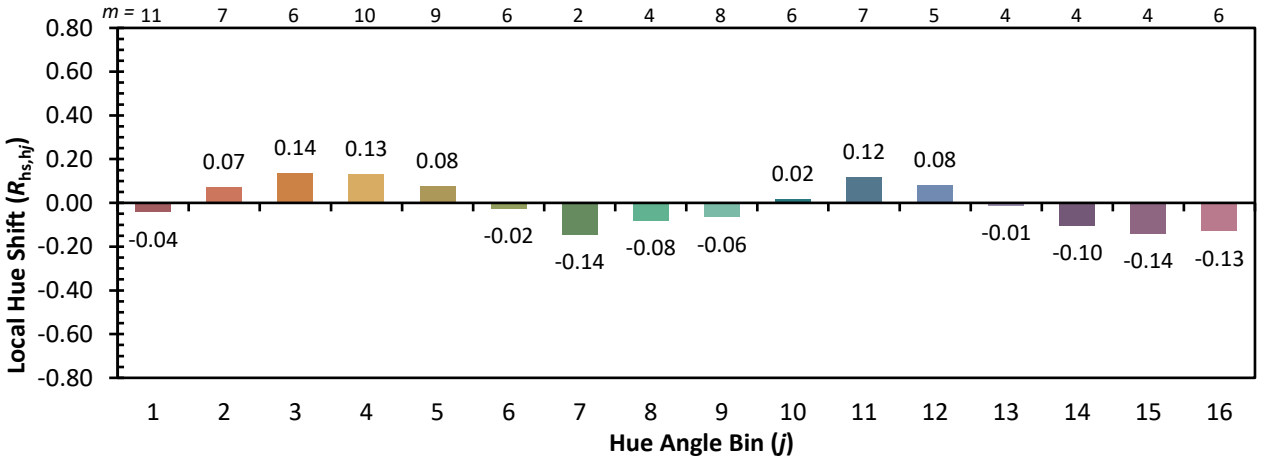


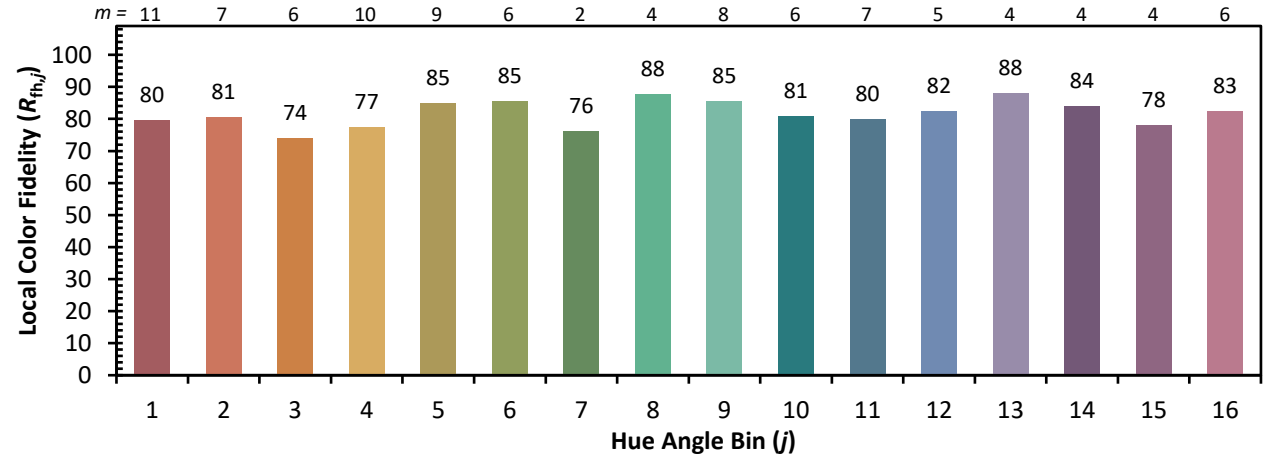
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



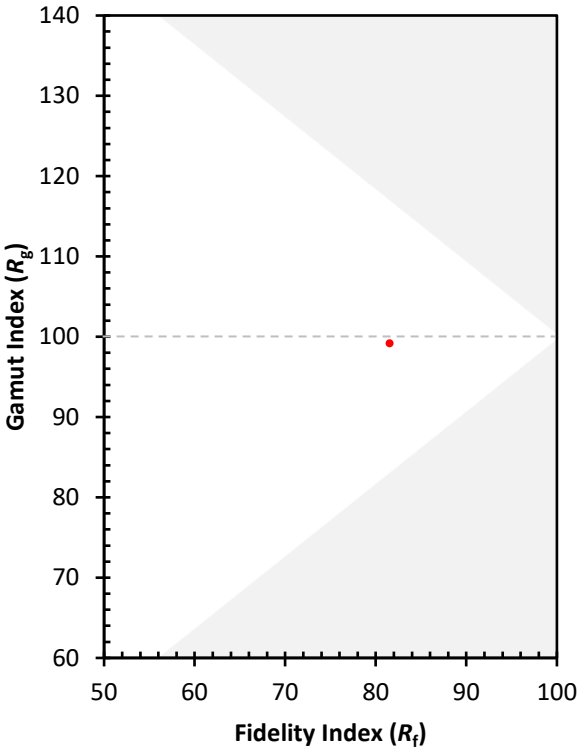


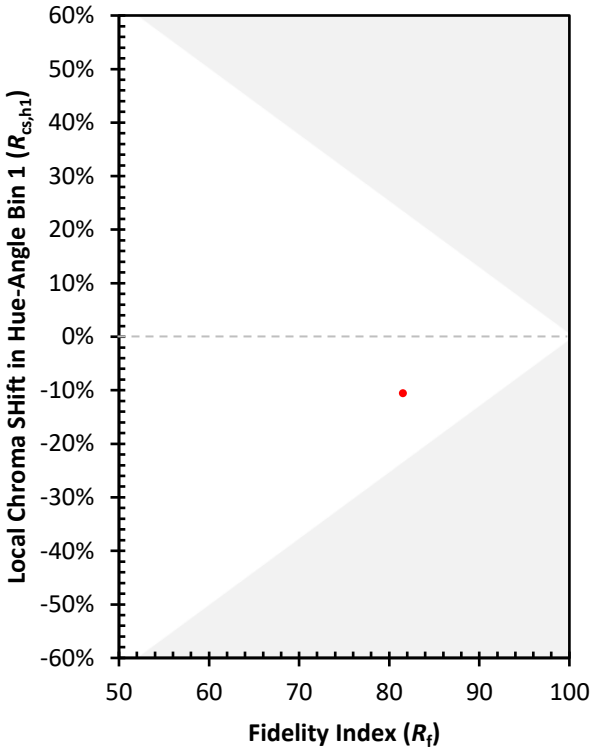


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)