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: P637002

Luminaire Tested: GWS-SA4B-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:	P637002
	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-SA4B-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11477.2 lumens
Efficiency:	N/A
Efficacy:	121.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	94.4
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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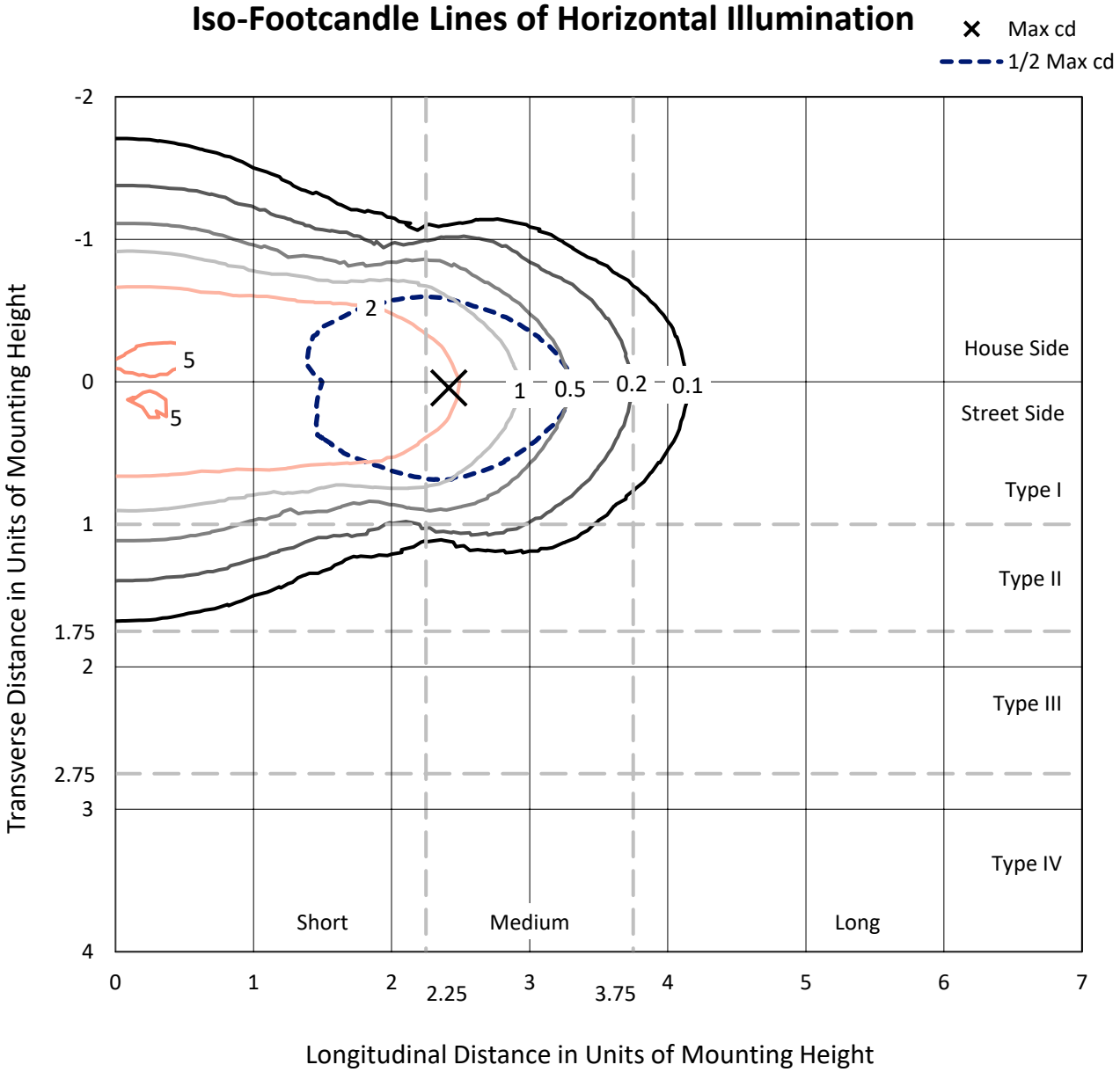
Scaled Data Report

REPORT NUMBER: P637002
CATALOG NUMBER: GWS-SA4B-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



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

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REPORT NUMBER: P637002
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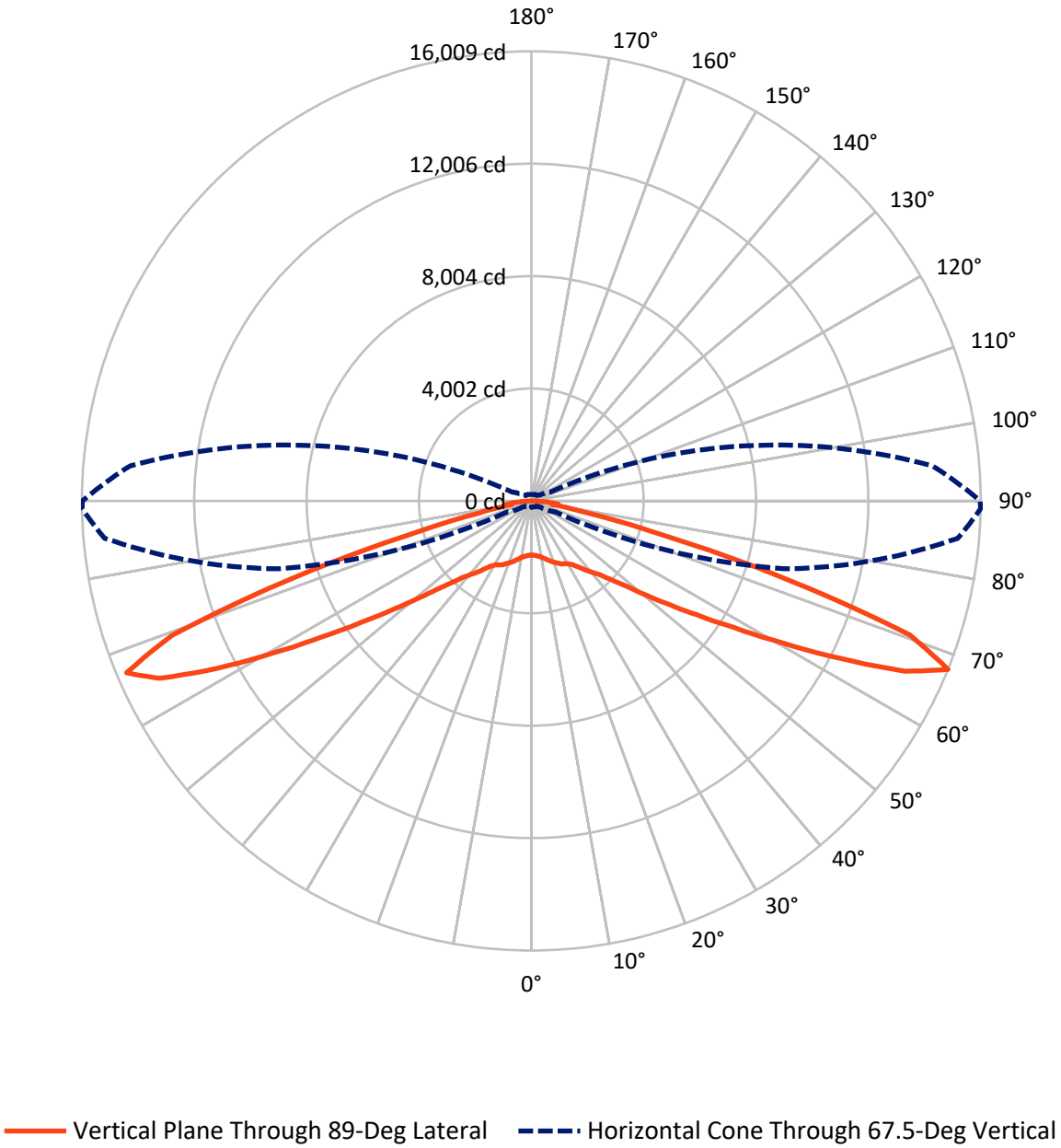
Luminous Intensity Polar Plot



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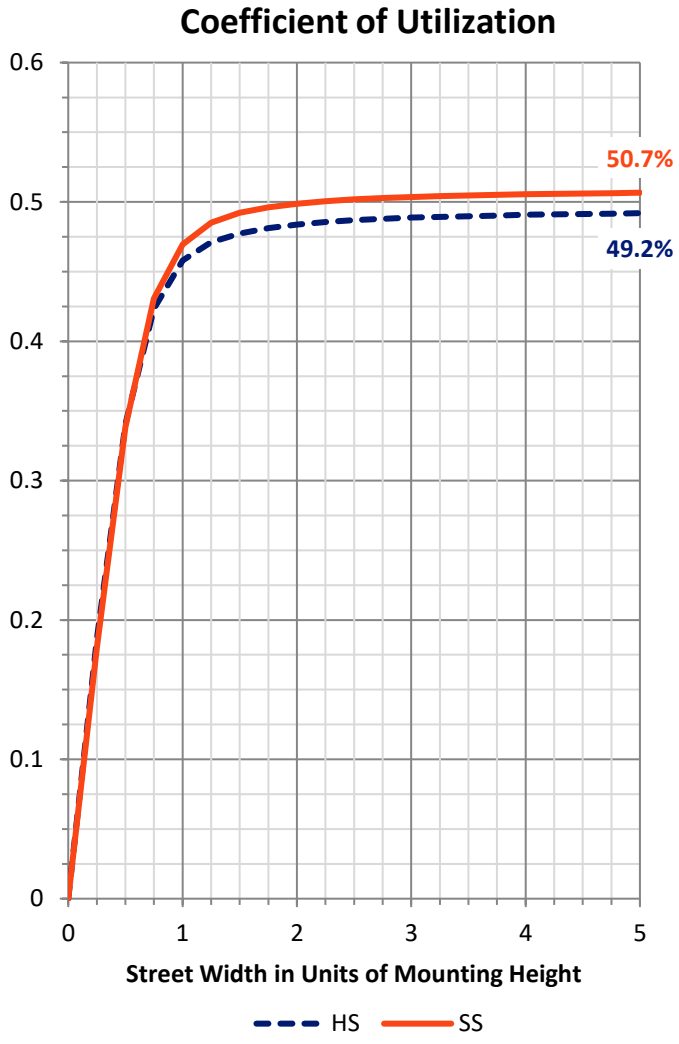
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5688.3	0.0	5688.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5788.9	0.0	5788.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	11477.2	0.0	11477.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.7
10°-20°	629.2	5.5
20°-30°	1063.6	9.3
30°-40°	1459.7	12.7
40°-50°	1861.4	16.2
50°-60°	2335.4	20.3
60°-70°	2816.7	24.5
70°-80°	1019.0	8.9
80°-90°	99.1	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°	11477.2	100.0
0°-180°	11477.2	100.0



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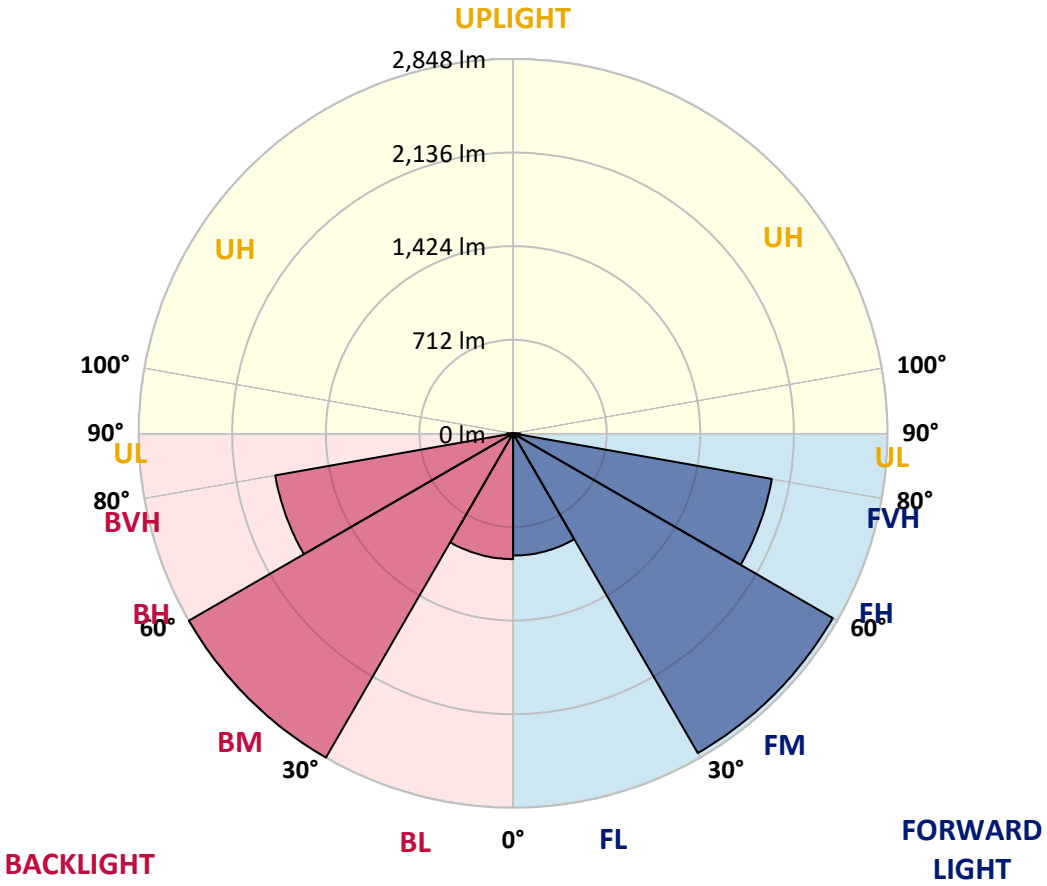
CATALOG NUMBER: GWS-SA4B-830-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	929.6	8.1			
FM	(30°-60°)	2808.7	24.5			
FH	(60°-80°)	1998.3	17.4			G2/5000
FVH	(80°-90°)	52.3	0.5			G1/100
BL	(0°-30°)	956.4	8.3	B2/1000		
BM	(30°-60°)	2847.7	24.8	B3/5000		
BH	(60°-80°)	1837.3	16.0	B3/2500		G3/2500
BVH	(80°-90°)	46.8	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: P637002
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	*1926.4*
2.5°	1932.1	1930.5	1926.4	1938.7	1936.2	1937.1	1942.0	1938.7	1932.9	1923.1	*1937.1*
5°	1986.5	1985.7	1976.6	1984.1	1975.8	1970.0	1969.2	1961.0	1954.4	1943.7	*1958.5*
7.5°	2039.3	2038.5	2031.0	2044.2	2037.6	2031.0	2023.6	2007.1	1991.5	1975.8	*1992.3*
10°	2079.7	2078.8	2077.2	2096.2	2097.8	2100.3	2097.0	2069.0	2041.8	2022.8	*2039.3*
12.5°	2102.8	2105.2	2109.3	2144.0	2161.3	2177.8	2181.9	2158.8	2113.5	2086.3	*2106.0*
15°	2087.1	2092.0	2112.6	2175.3	2223.1	2260.2	2275.9	2256.9	2198.4	2153.0	*2175.3*
17.5°	2012.1	2016.2	2056.6	2152.2	2257.7	2343.4	2369.0	2357.5	2292.3	2237.1	*2258.5*
20°	1908.2	1917.3	1961.0	2094.5	2251.9	2401.1	2469.6	2465.4	2394.5	2309.6	*2335.2*
22.5°	1814.3	1825.0	1871.1	2018.7	2213.2	2416.0	2570.9	2581.7	2487.7	2382.2	*2402.8*
25°	1708.7	1718.6	1778.0	1928.8	2146.4	2404.4	2657.5	2706.1	2593.2	2465.4	*2484.4*
27.5°	1600.8	1608.2	1666.7	1827.4	2059.1	2383.0	2725.9	2843.0	2697.1	2523.1	*2536.3*
30°	1506.0	1515.9	1569.4	1726.1	1963.4	2340.1	2782.0	2988.9	2816.6	2588.3	*2599.0*
32.5°	1414.5	1422.7	1481.2	1626.3	1862.1	2274.2	2832.2	3160.3	2993.8	2709.4	*2709.4*
35°	1299.1	1313.9	1379.9	1530.7	1766.4	2186.8	2868.5	3359.8	3236.1	2888.3	*2889.1*
37.5°	1192.7	1201.0	1270.2	1422.7	1665.9	2087.9	2871.8	3566.7	3542.8	3115.8	*3117.4*
40°	1071.6	1082.3	1156.5	1307.3	1550.5	1984.1	2840.5	3759.6	3864.3	3349.9	*3340.8*
42.5°	948.8	964.4	1035.3	1182.8	1426.0	1857.1	2757.2	3943.4	4272.3	3621.1	*3598.8*
45°	830.1	839.9	910.8	1050.1	1283.4	1705.4	2623.7	4119.8	4757.0	4033.2	*4001.1*
47.5°	696.5	700.6	774.0	907.5	1135.9	1536.5	2432.5	4277.2	5289.4	4578.9	*4523.7*
50°	577.8	583.6	641.3	755.9	955.3	1336.2	2194.2	4369.5	5967.8	5323.2	*5227.6*
52.5°	467.4	473.1	519.3	610.8	789.7	1107.8	1899.2	4348.1	6656.1	6247.3	*6108.0*
55°	377.5	381.6	413.0	484.7	621.5	881.2	1550.5	4156.0	7420.2	7454.0	*7154.0*
57.5°	319.0	320.6	342.1	385.8	485.5	679.2	1196.9	3702.7	8221.4	8993.8	*8500.9*
60°	285.2	286.0	295.9	323.1	383.3	518.5	877.0	2980.6	9051.5	10920.1	*10244.2*
62.5°	263.8	263.8	272.0	287.7	318.2	399.0	644.6	2140.7	9647.4	13016.3	*12344.5*
65°	243.2	243.2	248.9	262.1	278.6	325.6	483.9	1380.7	9940.1	14768.7	*14619.5*
67.5°	*216.8*	*217.6*	*221.7*	*235.7*	*250.6*	*272.0*	*366.8*	*933.9*	*9332.6*	*15253.4*	*16008.5*
70°	192.1	192.9	198.7	207.7	220.1	234.9	286.9	643.8	6792.9	12703.9	*14313.7*
72.5°	164.9	168.2	172.3	182.2	189.6	200.3	234.1	417.1	3952.4	8172.0	*9462.0*
75°	135.2	139.3	144.2	154.1	159.1	163.2	192.9	297.6	1901.6	4141.2	*4715.7*
77.5°	104.7	108.8	114.6	123.6	126.9	131.9	147.5	215.1	910.8	1835.7	*1979.1*
80°	70.1	71.7	76.7	87.4	93.1	96.4	108.8	146.7	395.7	736.9	*730.3*
82.5°	42.9	43.7	45.3	51.9	54.4	57.7	70.9	89.8	188.8	837.5	*960.3*
85°	15.7	14.8	14.0	18.1	21.4	24.7	33.0	45.3	82.4	575.4	*643.8*
87.5°	0.0	0.0	0.0	0.8	1.6	1.6	3.3	6.6	19.8	215.1	*147.5*
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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Scaled Data Report

REPORT NUMBER: P637002
CATALOG NUMBER: GWS-SA4B-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4	1926.4
2.5°	1932.9	1923.9	1935.4	1943.7	1961.8	1968.4	1970.0	1964.3	1964.3	1954.4	1956.0
5°	1955.2	1949.4	1968.4	1982.4	2008.8	2018.7	2025.3	2021.1	2023.6	2017.0	2018.7
7.5°	1989.0	1984.1	2017.0	2044.2	2071.4	2083.0	2088.7	2085.4	2086.3	2078.0	2080.5
10°	2036.0	2037.6	2077.2	2112.6	2148.9	2160.5	2162.9	2153.0	2144.8	2130.0	2130.8
12.5°	2100.3	2108.5	2164.6	2204.1	2241.2	2257.7	2239.6	2203.3	2169.5	2144.0	2140.7
15°	2170.3	2185.2	2266.0	2316.2	2356.6	2348.4	2294.8	2213.2	2146.4	2108.5	2101.1
17.5°	2254.4	2276.7	2378.1	2438.2	2472.9	2420.1	2308.0	2186.0	2092.9	2041.8	2031.9
20°	2333.6	2369.0	2496.8	2575.1	2579.2	2460.5	2302.2	2130.8	2013.7	1951.1	1937.9
22.5°	2406.1	2451.4	2621.2	2721.0	2667.4	2478.6	2266.8	2052.5	1918.1	1844.8	1833.2
25°	2485.2	2549.5	2766.3	2859.4	2755.6	2471.2	2192.6	1955.2	1802.7	1727.7	1719.5
27.5°	2539.6	2620.4	2912.2	3001.2	2828.1	2429.2	2097.0	1848.9	1697.2	1626.3	1614.8
30°	2602.3	2705.3	3072.9	3155.4	2872.6	2367.3	1994.8	1750.0	1599.1	1522.5	1514.2
32.5°	2716.0	2845.4	3272.4	3318.6	2886.6	2290.7	1896.7	1654.3	1496.9	1420.2	1408.7
35°	2899.0	3050.7	3552.7	3500.7	2875.9	2206.6	1803.5	1542.2	1392.2	1320.5	1309.0
37.5°	3129.8	3318.6	3865.1	3664.8	2846.3	2114.3	1693.1	1448.3	1298.2	1225.7	1219.1
40°	3345.0	3577.4	4215.4	3806.6	2786.1	2000.5	1586.7	1350.2	1196.9	1120.2	1105.4
42.5°	3614.5	3923.6	4620.9	3929.4	2687.2	1864.5	1467.2	1229.0	1069.9	1000.7	982.5
45°	4024.2	4408.3	5092.4	4047.2	2539.6	1697.2	1317.2	1081.5	930.6	859.7	845.7
47.5°	4535.2	5014.1	5603.5	4117.3	2315.4	1520.8	1147.4	925.7	774.8	694.9	688.3
50°	5253.2	5895.3	6151.6	4104.9	2064.8	1311.4	956.2	740.2	614.1	556.4	547.3
52.5°	6127.7	7001.5	6744.3	3956.6	1798.6	1073.2	745.2	581.1	487.2	445.9	438.5
55°	7224.9	8326.1	7368.3	3638.4	1462.3	821.8	585.2	458.3	394.0	369.3	366.0
57.5°	8583.3	10041.4	7969.2	3102.6	1099.6	627.3	450.9	378.3	347.8	333.0	332.2
60°	10376.1	11862.3	8491.0	2411.0	787.2	479.7	372.6	338.0	314.1	304.2	303.3
62.5°	12507.7	13515.8	8815.7	1642.0	591.8	382.5	328.1	306.6	292.6	286.9	286.0
65°	14698.7	14561.0	8660.8	1075.7	449.2	324.8	294.3	282.7	270.4	264.6	264.6
67.5°	*15992.8*	*14340.1*	*7471.3*	*746.8*	*356.1*	*285.2*	*265.4*	*254.7*	*234.1*	*229.2*	*229.2*
70°	14165.3	11620.0	4897.1	546.5	288.5	249.8	230.8	216.0	207.7	202.8	201.9
72.5°	9368.8	7561.2	2603.9	379.2	240.7	212.7	195.4	189.6	179.7	174.7	173.9
75°	4663.0	3971.4	1334.5	273.7	200.3	170.6	163.2	160.7	152.5	145.9	144.2
77.5°	1943.7	1768.1	622.3	198.7	152.5	137.7	131.1	131.1	122.0	114.6	111.3
80°	732.8	652.8	294.3	136.0	112.9	102.2	98.1	94.8	87.4	78.3	73.4
82.5°	980.1	640.5	144.2	84.9	74.2	65.9	60.2	57.7	53.6	49.5	46.2
85°	634.7	455.0	65.1	43.7	37.1	28.0	24.7	23.1	20.6	18.1	16.5
87.5°	129.4	152.5	19.8	8.2	4.9	2.5	2.5	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

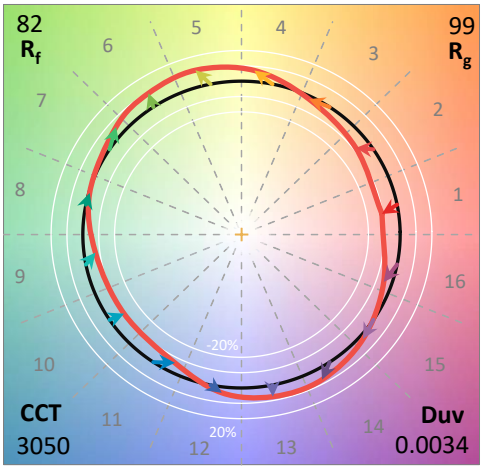
Test Information

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

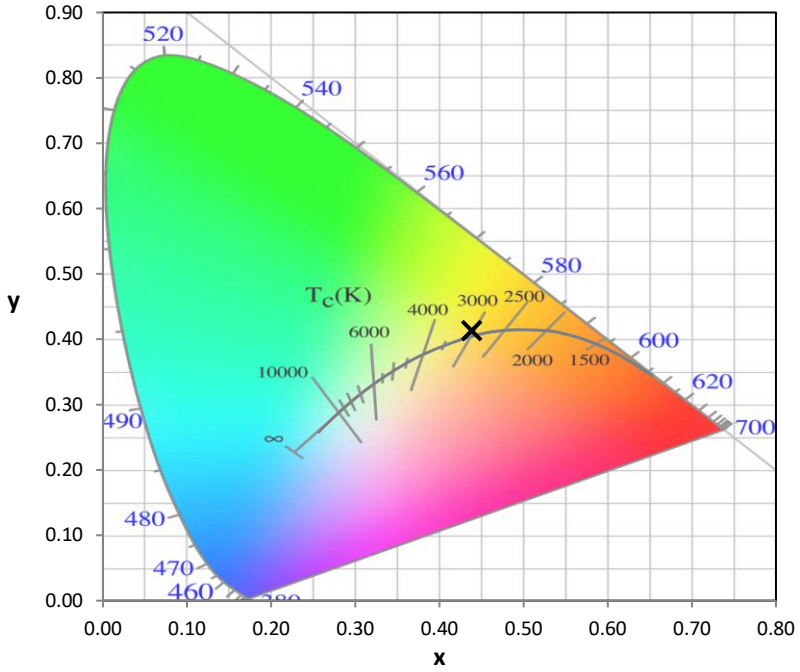
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

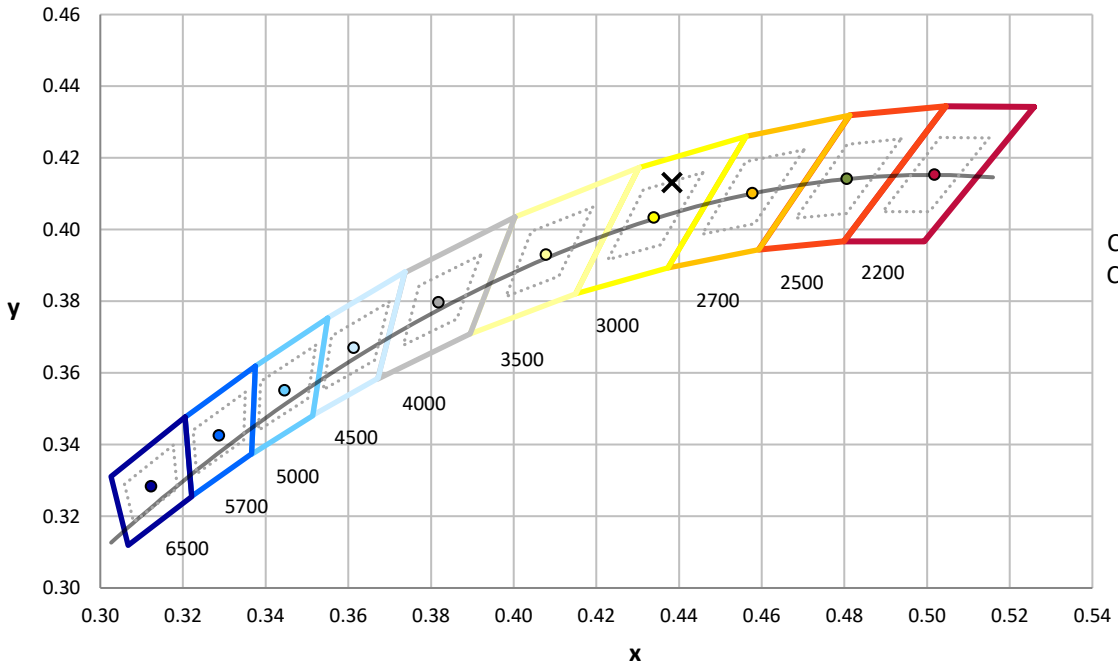
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

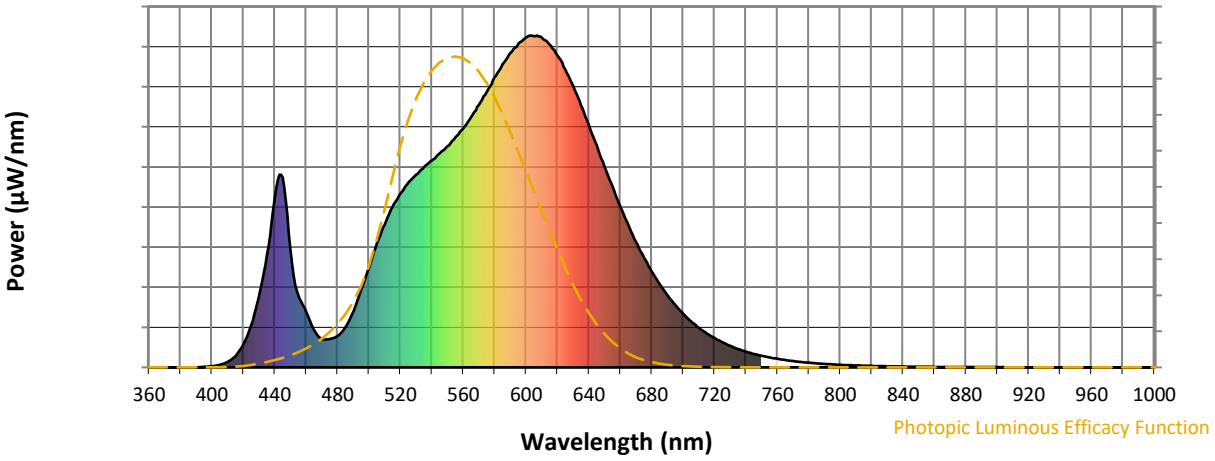


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

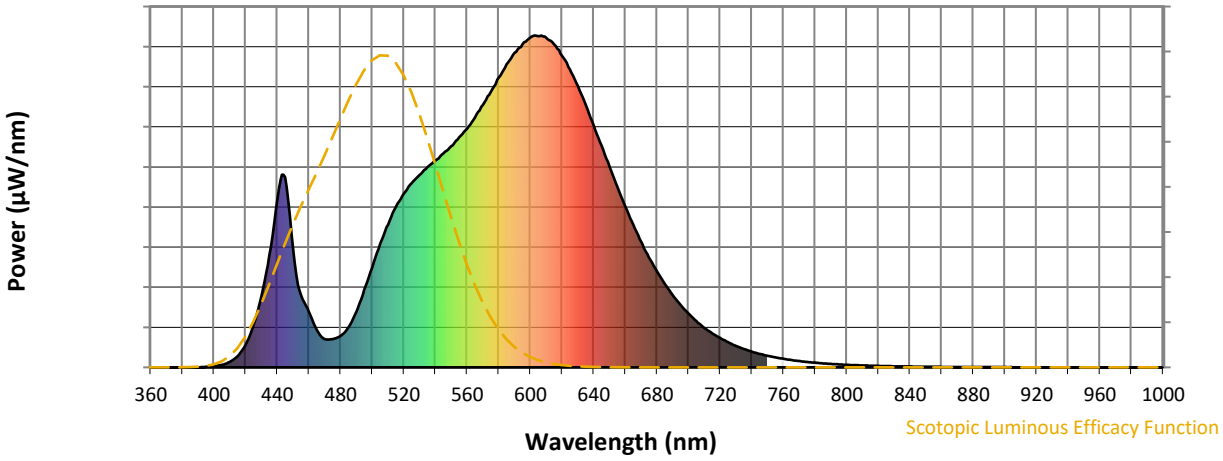


Photopic Lumens: NR

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

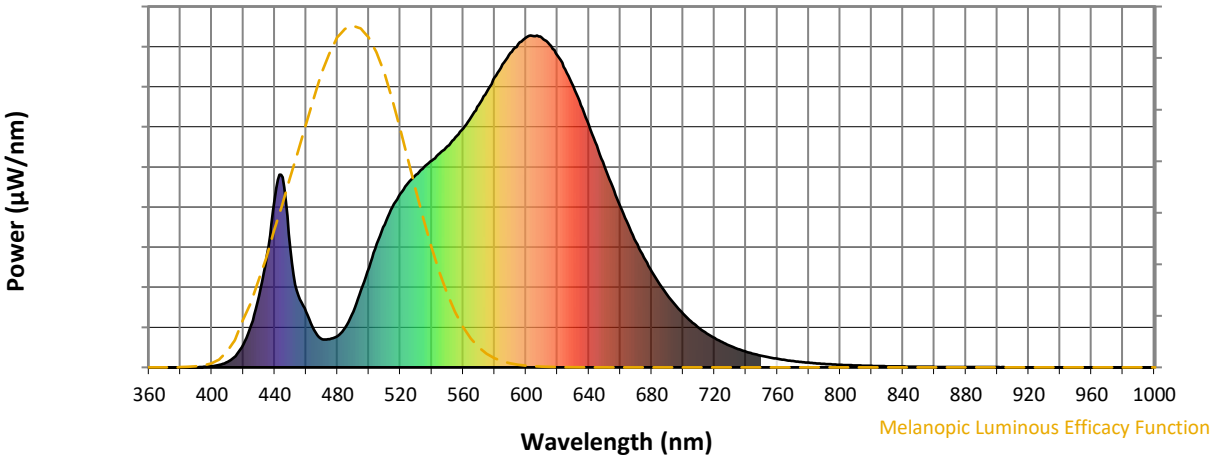


Scotopic Lumens: NR **S/P: 1.27**

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			

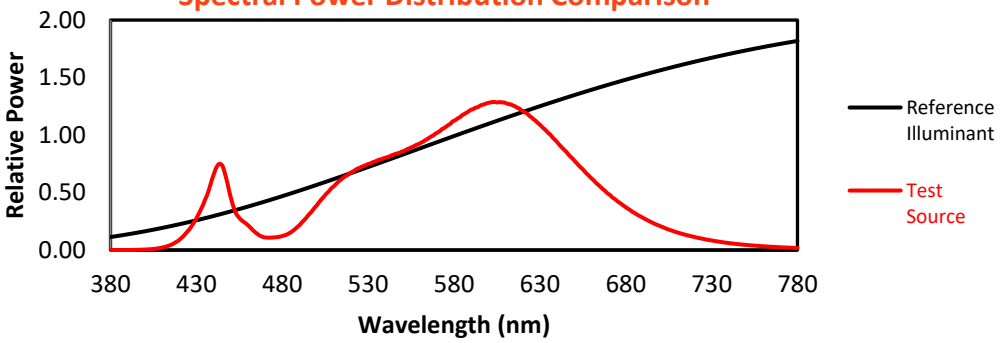
REPORT NUMBER: SP1-2408-195-9

TM-30-18

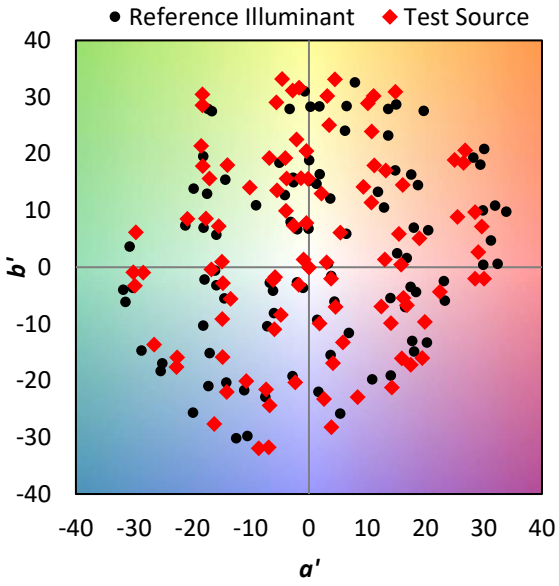
Summary

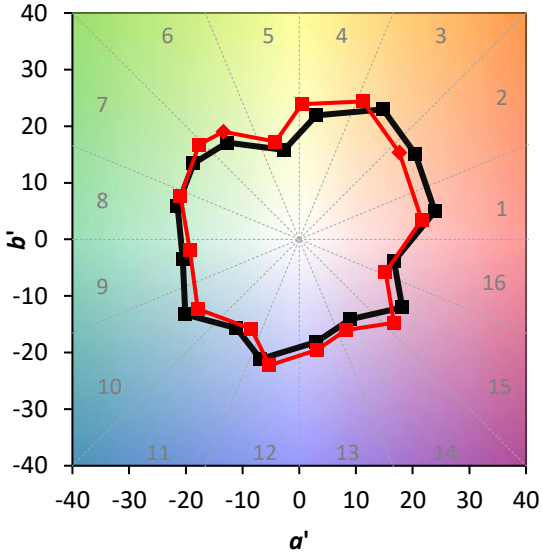
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

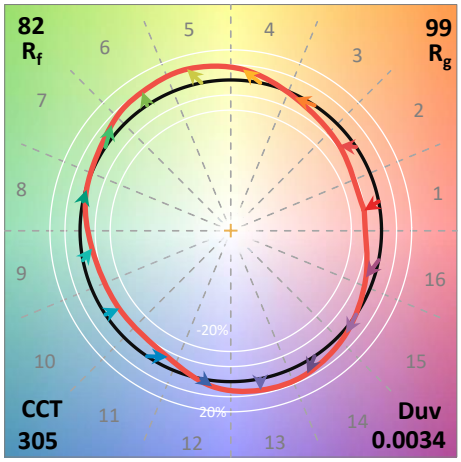
Spectral Power Distribution Comparison

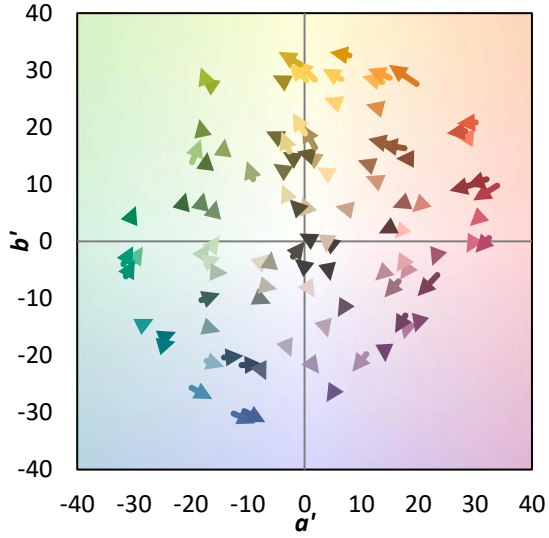


Color Vector Graphics







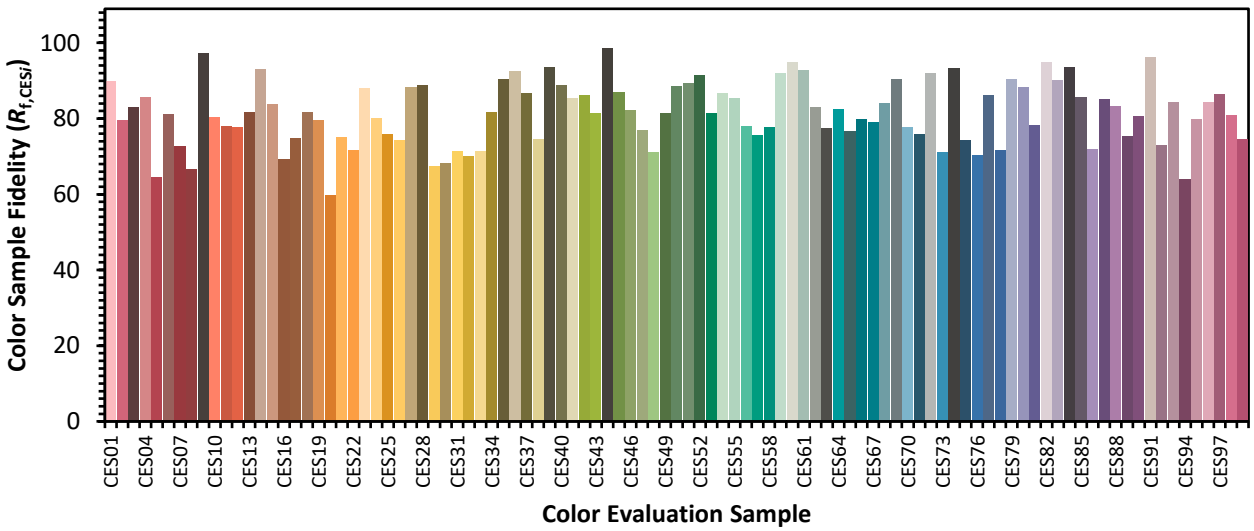


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

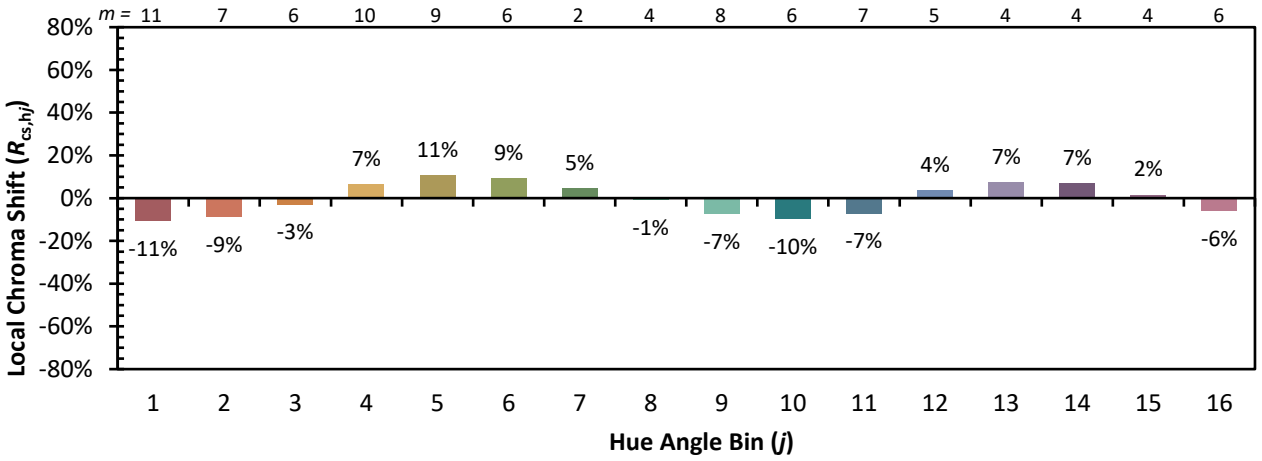
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

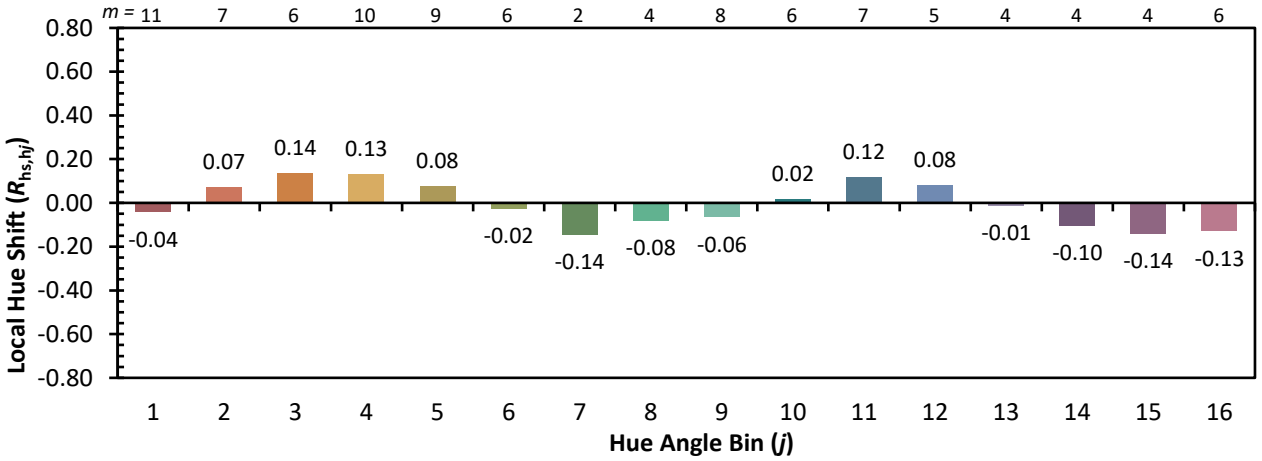


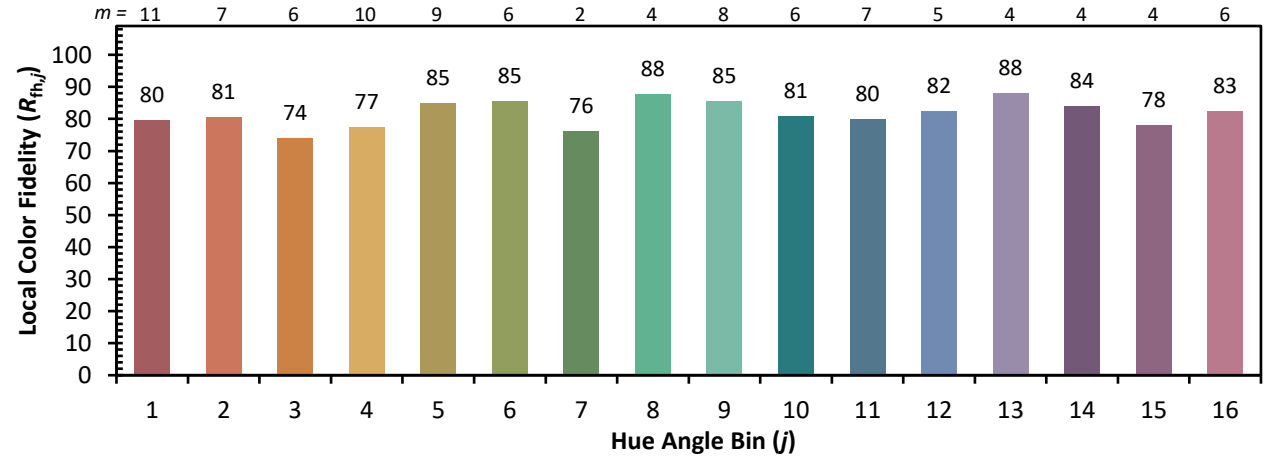
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



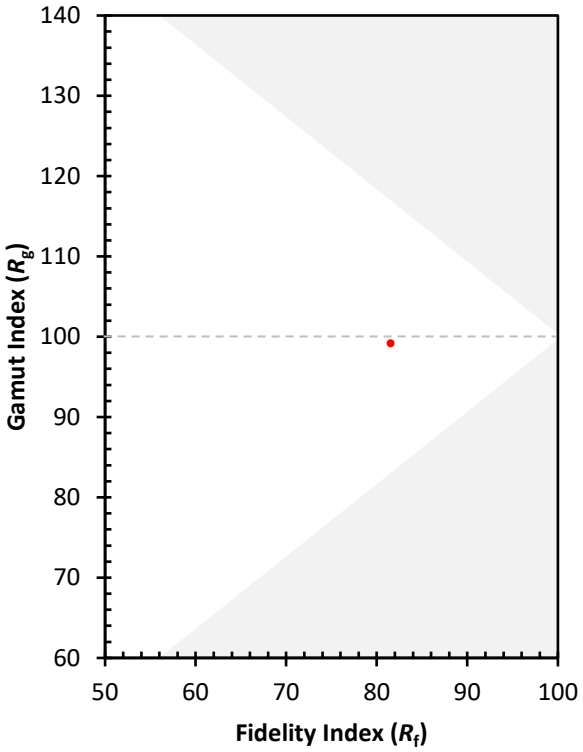


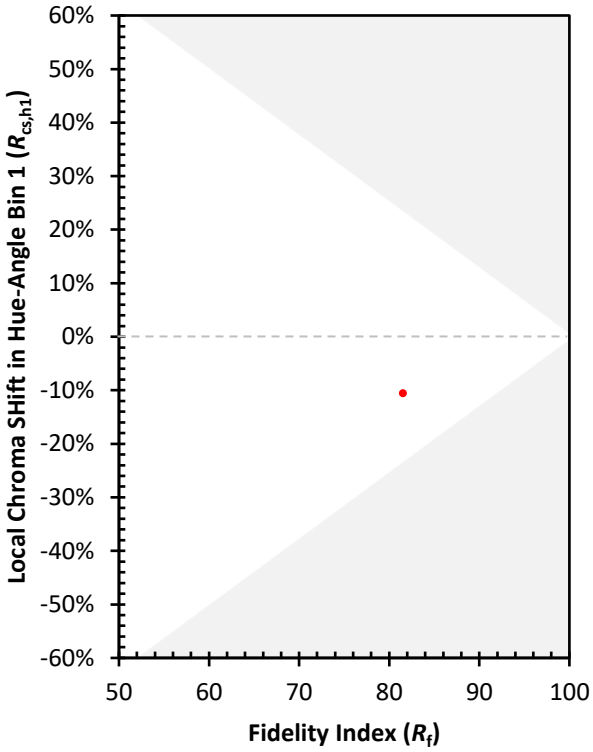


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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