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: P637012

Luminaire Tested: GWS-SA4B-830-U-T3-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:	P637012
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4B-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9813.8 lumens
Efficiency:	N/A
Efficacy:	104.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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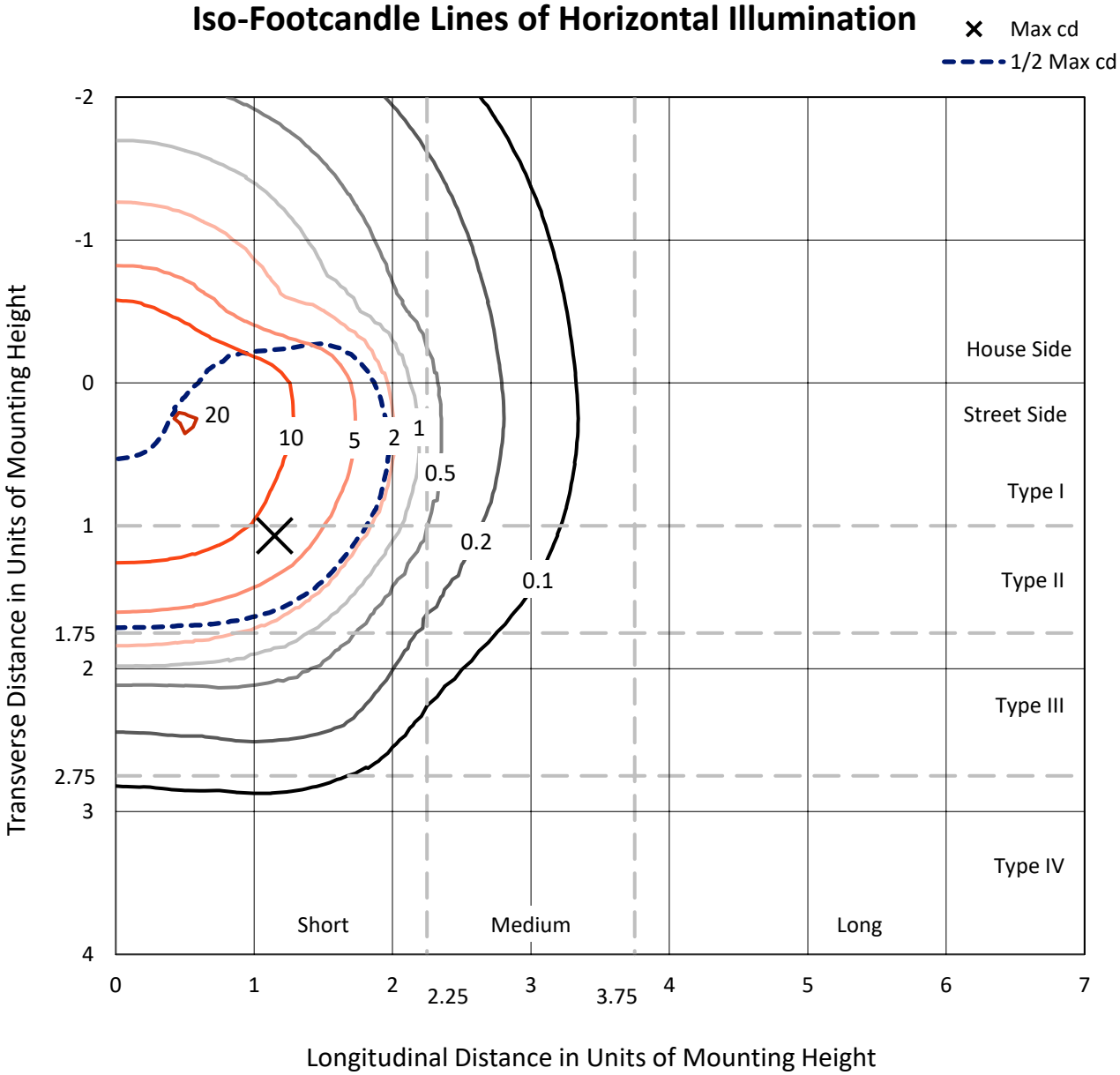
REPORT NUMBER: P637012
CATALOG NUMBER: GWS-SA4B-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
Type II - Short - N/A

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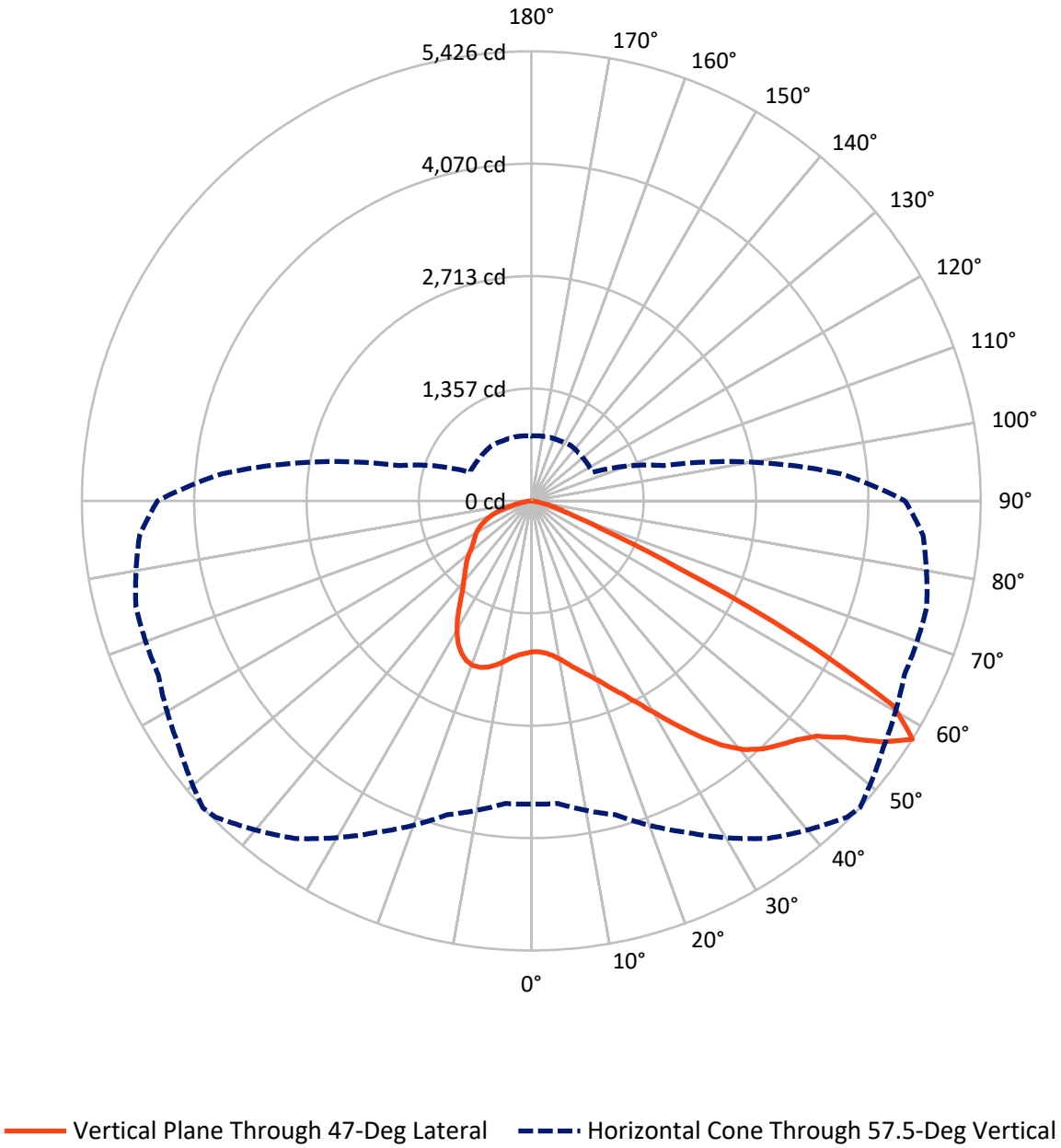
Luminous Intensity Polar Plot



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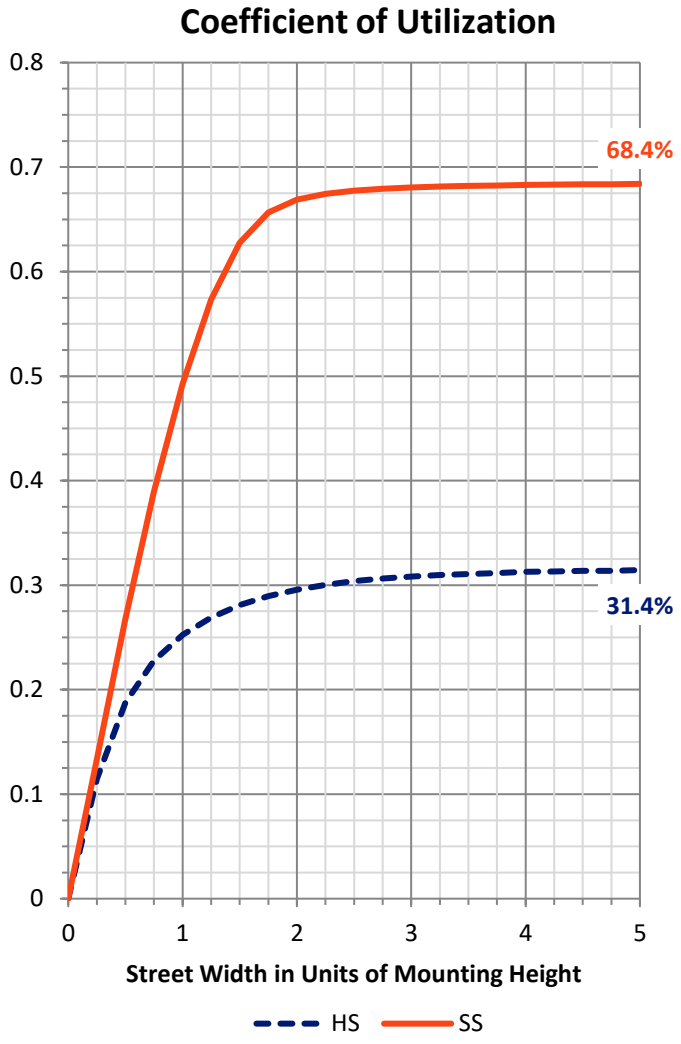
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.1	0.0	3106.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6707.7	0.0	6707.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	9813.8	0.0	9813.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.8
10°-20°	590.4	6.0
20°-30°	1063.1	10.8
30°-40°	1605.7	16.4
40°-50°	2162.3	22.0
50°-60°	2598.2	26.5
60°-70°	1265.4	12.9
70°-80°	311.7	3.2
80°-90°	37.5	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°	9813.8	100.0
0°-180°	9813.8	100.0



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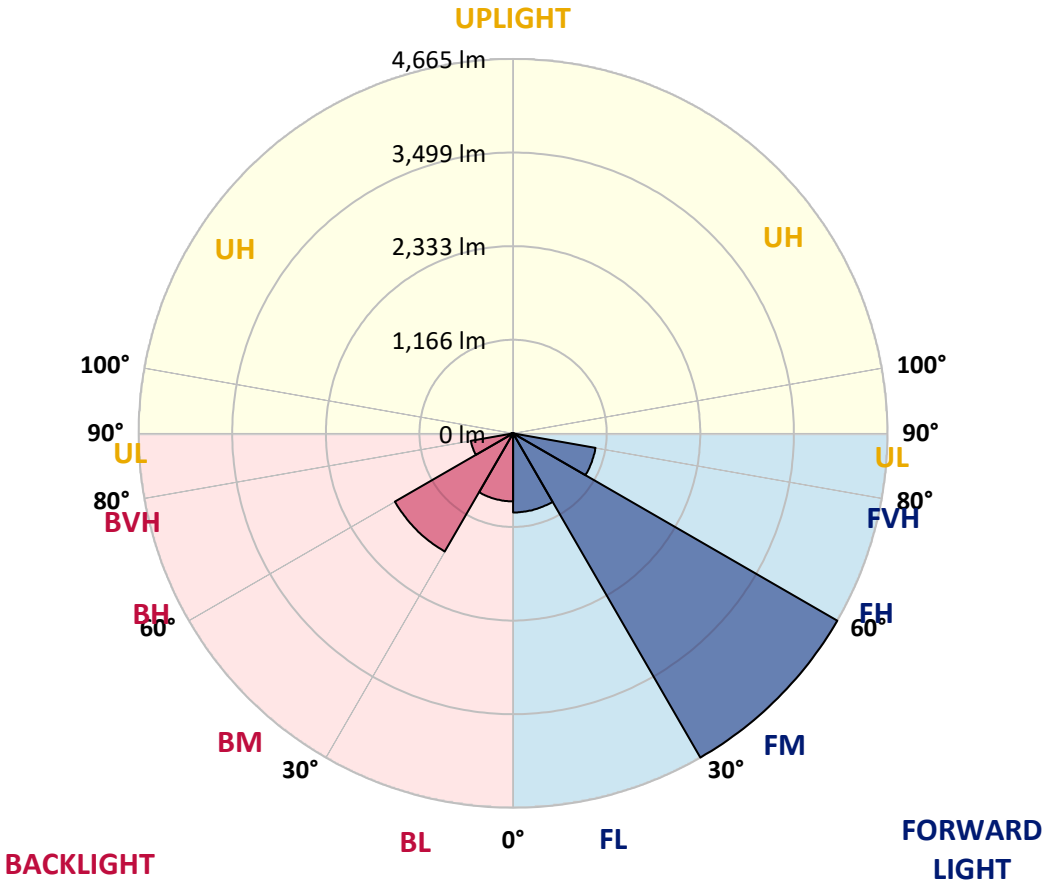
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	985.7	10.0			
FM	(30°-60°)	4665.0	47.5			
FH	(60°-80°)	1042.9	10.6			G1/1800
FVH	(80°-90°)	14.1	0.1			G1/100
BL	(0°-30°)	847.3	8.6	B2/1000		
BM	(30°-60°)	1701.2	17.3	B2/2500		
BH	(60°-80°)	534.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	23.4	0.2			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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Scaled Data Report

REPORT NUMBER: P637012
CATALOG NUMBER: GWS-SA4B-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	*1820.0*	1820.0	1820.0	1820.0	1820.0
2.5°	1816.7	1815.9	1815.9	1820.8	1820.8	1822.5	*1824.9*	1827.4	1828.2	1824.1	1815.0
5°	1836.5	1836.5	1836.5	1840.6	1840.6	1842.2	*1845.5*	1846.4	1845.5	1838.9	1829.9
7.5°	1867.8	1867.8	1868.6	1873.6	1877.7	1880.2	*1885.9*	1885.1	1882.6	1871.9	1860.4
10°	1918.9	1921.4	1923.8	1929.6	1937.9	1943.6	*1947.7*	1947.7	1944.4	1928.0	1913.1
12.5°	1991.4	1994.7	1997.2	2002.1	2008.7	2018.6	*2027.7*	2027.7	2023.6	2003.0	1980.7
15°	2076.3	2079.6	2078.8	2080.5	2092.8	2106.8	*2114.2*	2119.2	2120.8	2092.0	2057.4
17.5°	2173.6	2176.9	2173.6	2168.6	2170.3	2192.6	*2205.7*	2223.9	2234.6	2195.8	2140.6
20°	2261.8	2258.5	2258.5	2261.8	2266.7	2293.9	*2313.7*	2343.4	2356.6	2309.6	2223.9
22.5°	2354.9	2362.4	2359.1	2359.1	2378.8	2424.2	*2448.1*	2486.8	2500.8	2439.8	2324.4
25°	2475.3	2481.9	2480.2	2481.9	2504.9	2569.2	*2593.1*	2664.9	2678.9	2591.5	2435.7
27.5°	2607.2	2617.9	2622.8	2621.2	2658.3	2742.3	*2772.0*	2871.7	2897.3	2761.3	2554.4
30°	2778.6	2790.1	2794.3	2792.6	2836.3	2950.9	*2984.7*	3098.4	3134.7	2962.4	2705.2
32.5°	2977.3	2988.8	3001.2	3006.1	3062.2	3179.2	*3227.8*	3345.7	3397.6	3194.9	2887.4
35°	3174.3	3184.1	3208.1	3246.8	3323.4	3443.0	*3485.8*	3602.1	3652.3	3436.4	3107.5
37.5°	3391.9	3398.5	3419.1	3472.6	3583.1	3696.8	*3739.7*	3851.0	3856.7	3669.6	3356.4
40°	3630.1	3630.1	3626.0	3678.7	3794.1	3908.7	*3945.8*	4010.1	3976.3	3849.3	3598.8
42.5°	3832.0	3828.7	3832.0	3881.5	3967.2	4060.3	*4092.5*	4080.1	4037.3	3987.0	3818.0
45°	4014.2	4016.7	4046.3	4084.2	4128.8	4184.0	*4202.9*	4132.9	4094.1	4097.4	3993.6
47.5°	4137.8	4140.3	4209.5	4273.0	4300.2	4317.5	*4309.3*	4212.0	4192.2	4229.3	4128.8
50°	4154.3	4167.5	4287.0	4417.3	4484.8	4487.3	*4464.2*	4345.5	4339.8	4381.8	4201.3
52.5°	4157.6	4170.8	4320.0	4554.9	4730.5	4767.6	*4741.2*	4617.5	4557.4	4515.3	4290.3
55°	4145.2	4160.1	4324.9	4647.2	4983.5	5131.9	*5134.4*	4959.6	4767.6	4739.5	4544.2
57.5°	*3659.7*	*3665.5*	*3921.0*	*4412.3*	*4973.6*	*5394.0*	*5426.2*	*5188.8*	*4969.5*	*4943.1*	*4747.8*
60°	2549.5	2572.5	2850.3	3499.0	4178.2	4919.2	*5023.1*	4953.8	4807.1	4615.1	4073.5
62.5°	1276.8	1296.6	1575.2	2188.4	2881.6	3466.9	*3578.1*	3651.5	3686.1	3480.1	2773.7
65°	549.8	564.6	737.7	1143.3	1631.2	1913.9	*1952.7*	2040.9	2256.8	2013.7	1494.4
67.5°	367.6	377.5	465.7	697.3	961.1	979.2	*973.5*	992.4	1039.4	858.1	675.1
70°	281.9	290.1	349.5	511.0	690.7	591.0	*559.7*	507.7	551.4	562.2	547.3
72.5°	204.4	211.0	255.5	348.7	432.7	377.5	*372.6*	398.9	458.3	474.8	465.7
75°	131.9	135.2	162.4	191.2	223.4	242.3	*252.2*	300.0	360.2	372.6	361.9
77.5°	88.2	90.7	106.3	122.8	126.9	127.8	*131.1*	152.5	193.7	216.8	214.3
80°	46.2	46.2	51.9	51.9	59.3	70.9	*74.2*	88.2	107.2	118.7	119.5
82.5°	18.1	19.0	22.3	24.7	29.7	36.3	*38.7*	46.2	56.1	64.3	71.7
85°	7.4	8.2	9.1	10.7	13.2	16.5	*17.3*	19.8	26.4	33.0	37.1
87.5°	0.0	0.0	0.8	0.8	1.6	2.5	*2.5*	3.3	4.1	7.4	9.9
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: P637012
CATALOG NUMBER: GWS-SA4B-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0
2.5°	1825.8	1815.0	1825.8	1829.1	1838.1	1841.4	1835.6	1834.8	1834.8	1826.6	1824.1
5°	1838.1	1828.2	1838.9	1843.9	1857.1	1865.3	1867.0	1873.6	1877.7	1874.4	1873.6
7.5°	1868.6	1856.3	1867.8	1875.2	1892.5	1905.7	1911.5	1926.3	1937.0	1935.4	1934.6
10°	1922.2	1905.7	1918.9	1931.3	1950.2	1965.9	1966.7	1974.9	1985.7	1982.4	1980.7
12.5°	1984.0	1968.4	1983.2	1995.6	2017.8	2024.4	2013.7	2010.4	2012.0	2007.9	2004.6
15°	2059.8	2037.6	2050.8	2064.8	2077.2	2069.7	2046.7	2037.6	2036.8	2031.0	2027.7
17.5°	2135.7	2107.7	2117.5	2125.0	2119.2	2096.1	2067.3	2051.6	2044.2	2032.6	2029.3
20°	2210.7	2175.2	2173.6	2167.8	2141.4	2099.4	2060.7	2029.3	2010.4	1994.7	1989.0
22.5°	2296.4	2247.0	2222.2	2195.8	2138.2	2069.7	2011.2	1966.7	1936.2	1916.4	1909.8
25°	2388.7	2318.7	2267.6	2214.8	2105.2	2006.3	1924.7	1863.7	1827.4	1806.0	1798.6
27.5°	2480.2	2383.8	2307.1	2217.3	2039.2	1914.8	1805.1	1722.7	1686.5	1669.1	1663.4
30°	2603.9	2470.3	2354.1	2185.1	1952.7	1787.8	1651.0	1567.8	1543.9	1531.5	1526.5
32.5°	2746.5	2580.0	2416.8	2117.5	1842.2	1639.5	1495.2	1437.5	1421.0	1397.1	1396.3
35°	2934.4	2736.6	2476.1	2017.8	1702.9	1480.4	1375.7	1334.5	1304.8	1266.9	1263.6
37.5°	3153.6	2931.9	2508.2	1890.9	1540.6	1349.3	1286.7	1240.5	1192.7	1142.4	1135.8
40°	3380.3	3160.2	2510.7	1740.9	1381.5	1262.8	1210.0	1149.9	1090.5	1034.5	1027.0
42.5°	3618.5	3372.9	2467.0	1567.8	1251.2	1187.8	1134.2	1058.4	991.6	953.7	949.6
45°	3831.2	3544.4	2368.1	1385.6	1154.8	1125.1	1056.7	975.1	939.7	912.5	906.7
47.5°	3998.5	3658.1	2234.6	1222.4	1076.5	1060.8	971.8	929.8	902.6	877.8	872.1
50°	4081.0	3683.7	2060.7	1089.7	1004.0	985.0	924.0	891.9	873.7	853.9	849.0
52.5°	4183.2	3712.5	1910.7	978.4	933.1	907.5	884.4	858.9	845.7	833.3	829.2
55°	4418.1	3821.3	1831.5	889.4	865.5	853.9	850.6	829.2	825.1	816.8	809.4
57.5°	*4513.7*	*3751.2*	*1644.4*	*816.8*	*811.9*	*813.6*	*821.8*	*802.0*	*797.9*	*788.0*	*783.1*
60°	3630.1	2835.5	1113.6	754.2	767.4	778.1	786.4	766.6	760.8	759.2	752.6
62.5°	2326.1	1744.2	777.3	695.7	715.5	728.7	733.6	714.6	710.5	723.7	724.5
65°	1210.8	950.4	630.6	633.0	649.5	669.3	679.2	672.6	671.0	685.0	685.8
67.5°	618.2	581.1	549.8	558.9	572.0	597.6	620.7	649.5	659.4	661.1	661.9
70°	526.7	510.2	494.6	500.3	514.3	528.4	550.6	564.6	548.1	544.0	542.4
72.5°	448.4	436.0	428.6	435.2	442.6	440.2	433.6	440.2	442.6	443.5	444.3
75°	348.7	339.6	333.8	334.7	334.7	325.6	313.2	305.8	297.6	291.0	291.0
77.5°	213.5	215.1	220.9	220.1	219.3	216.0	203.6	197.0	177.2	171.4	171.4
80°	122.0	124.5	130.2	131.9	131.9	127.8	115.4	108.0	98.9	94.8	94.0
82.5°	74.2	77.5	80.8	82.4	83.3	78.3	67.6	61.8	56.9	52.8	52.8
85°	38.7	40.4	43.7	44.5	42.0	37.1	31.3	28.8	23.9	23.1	23.1
87.5°	10.7	11.5	13.2	10.7	9.9	7.4	4.1	3.3	1.6	0.8	0.8
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

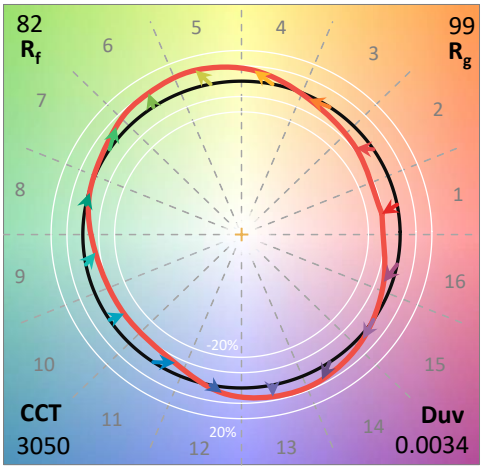
Test Information

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

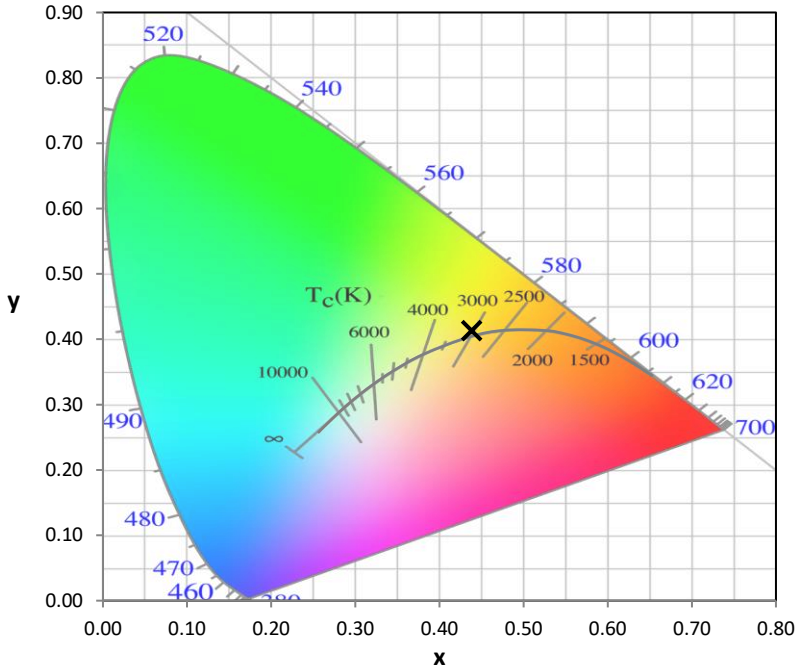
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

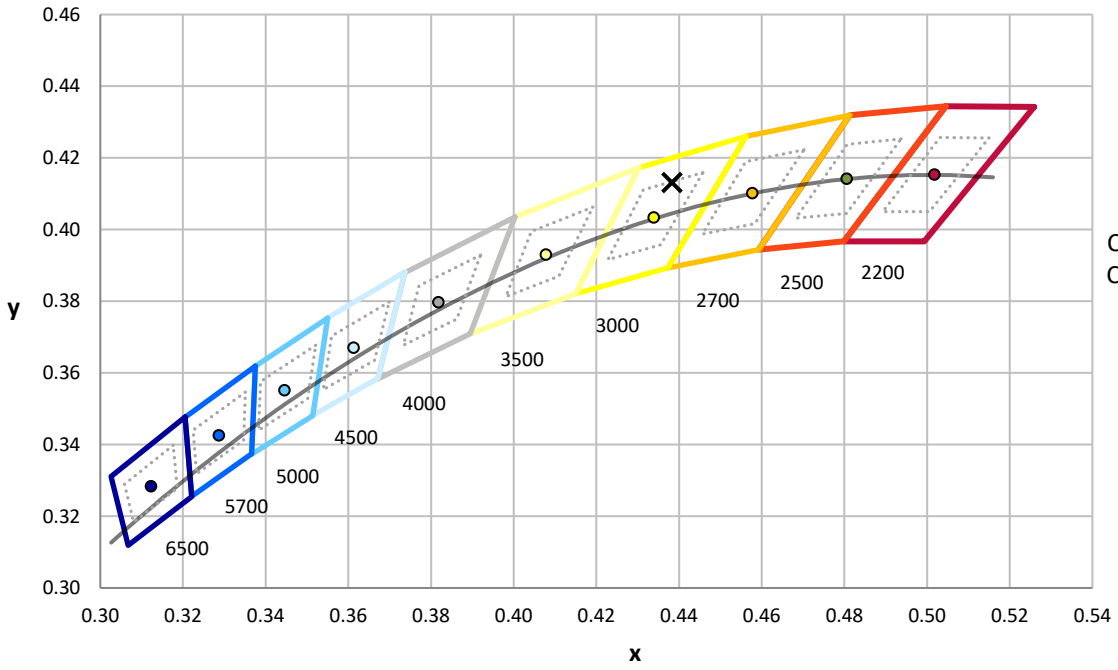
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

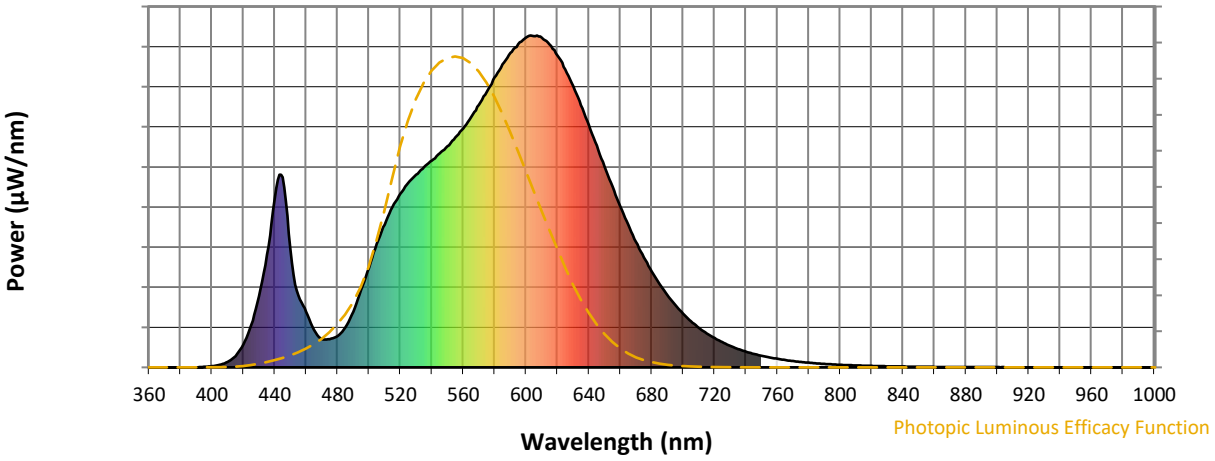


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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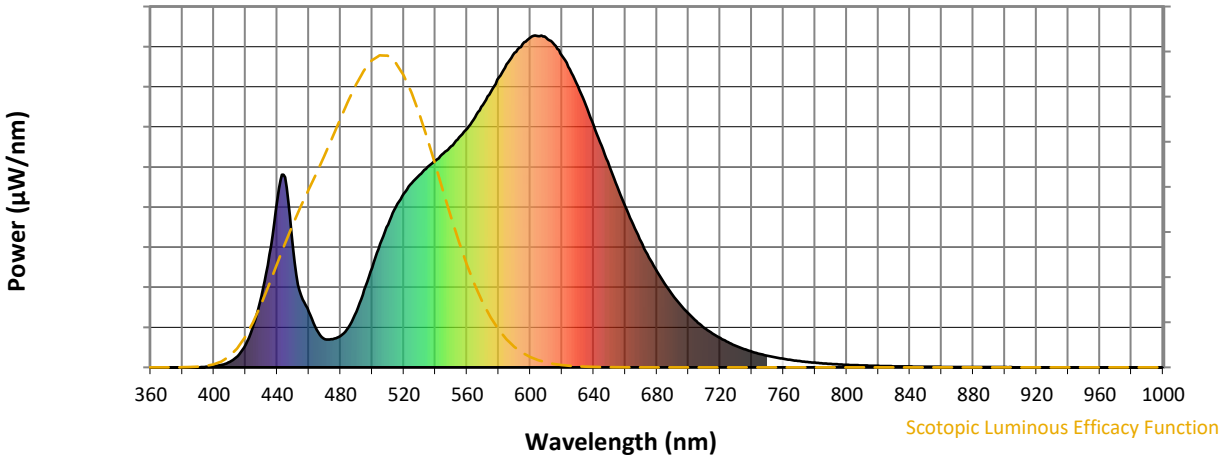
Scotopic Flux vs. Wavelength



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			

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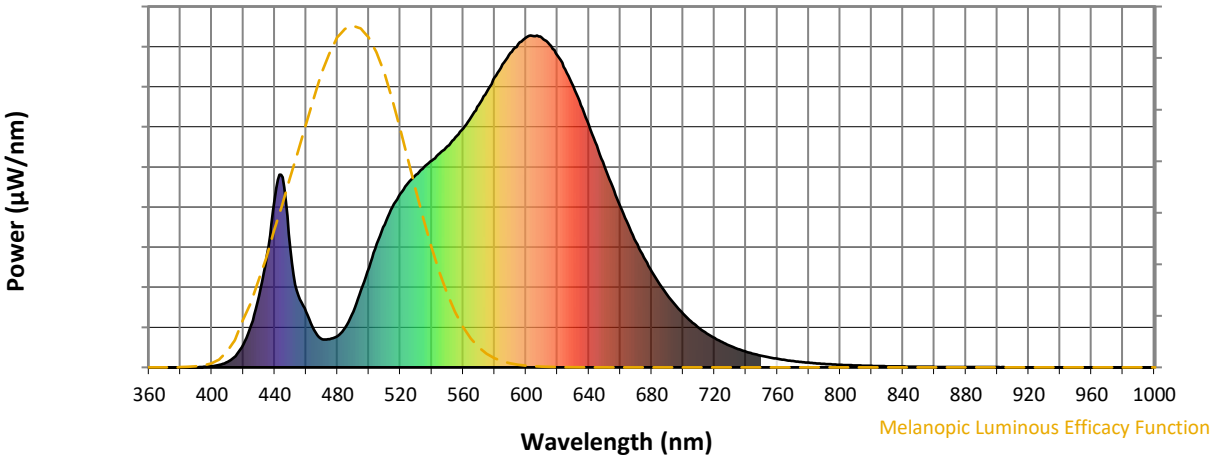
Melanopic Flux vs. Wavelength



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			

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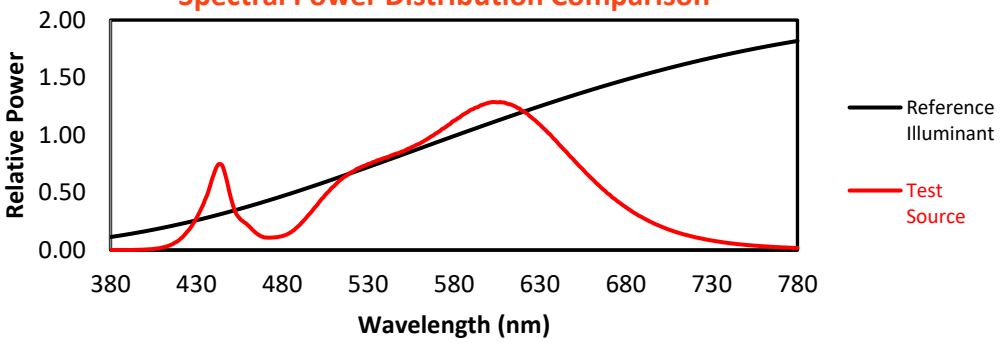
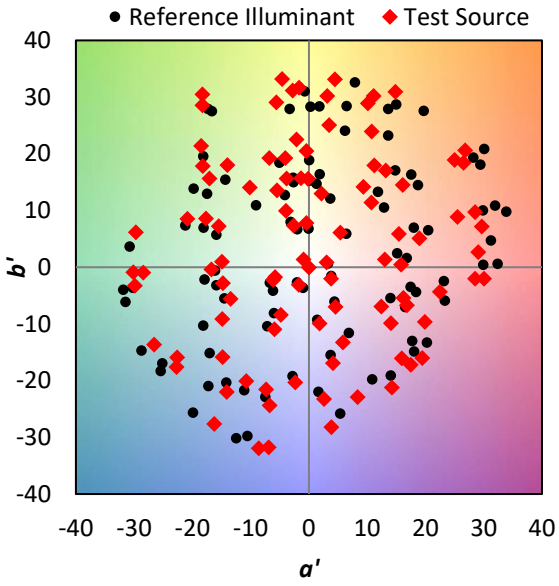
Summary

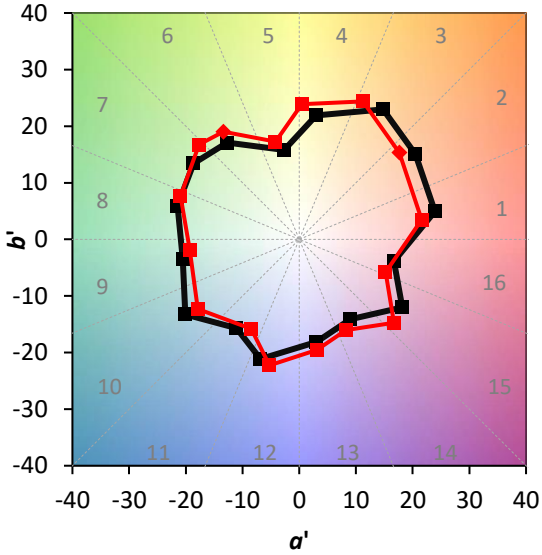
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

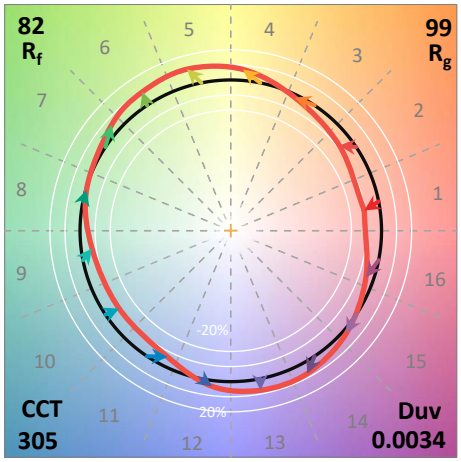
Spectral Power Distribution Comparison

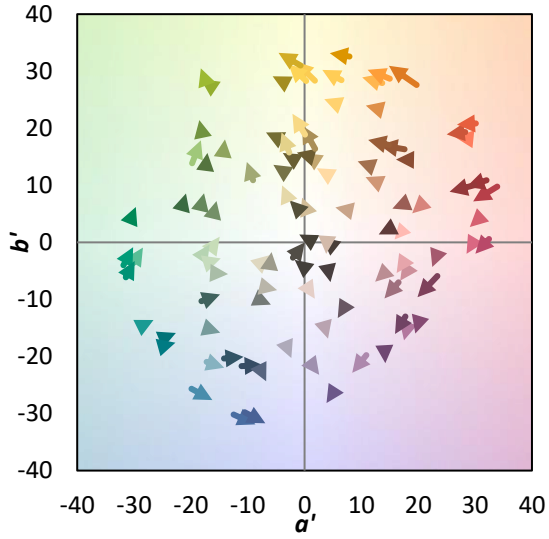


Color Vector Graphics









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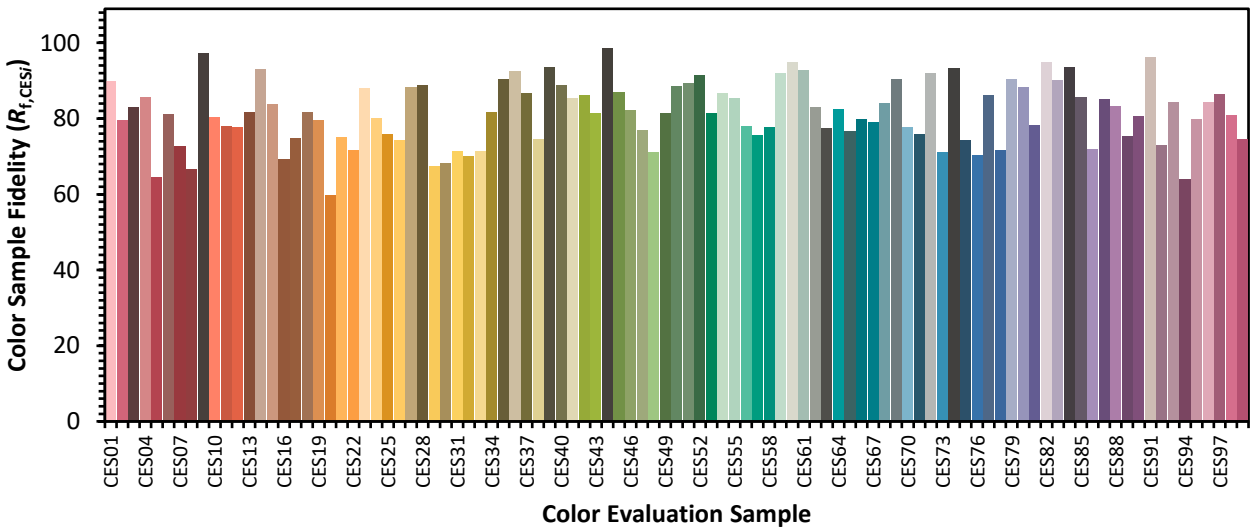
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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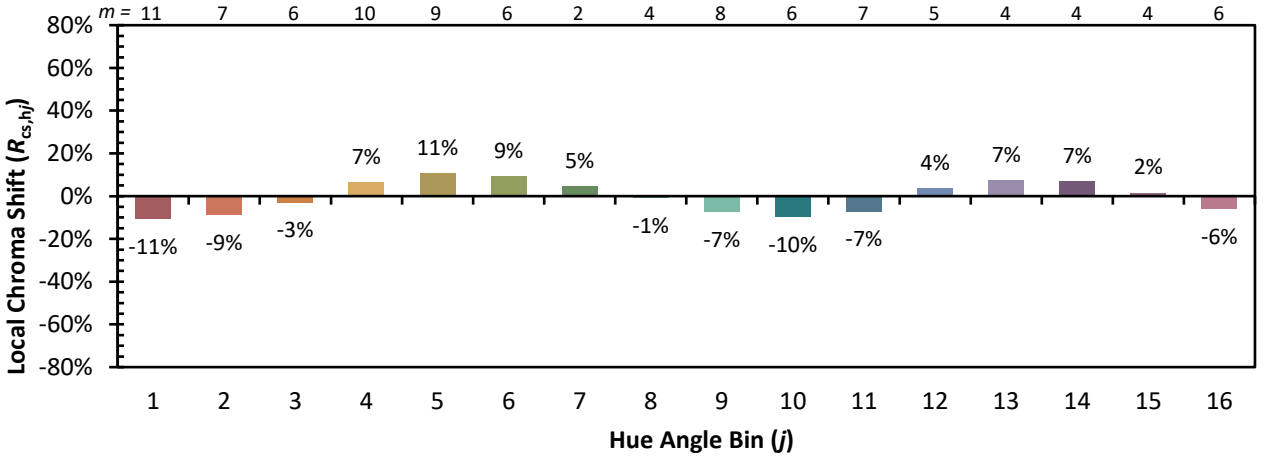
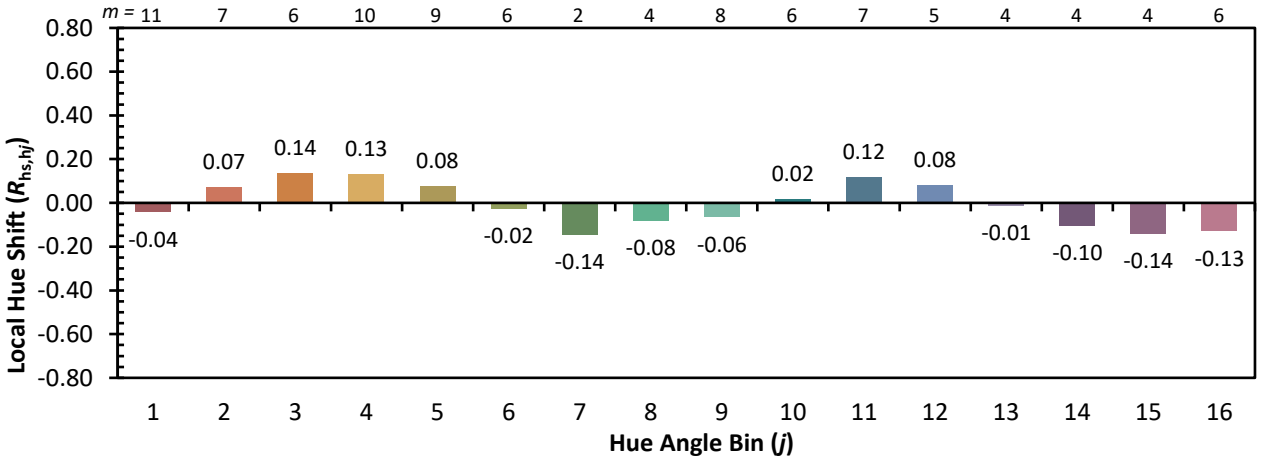
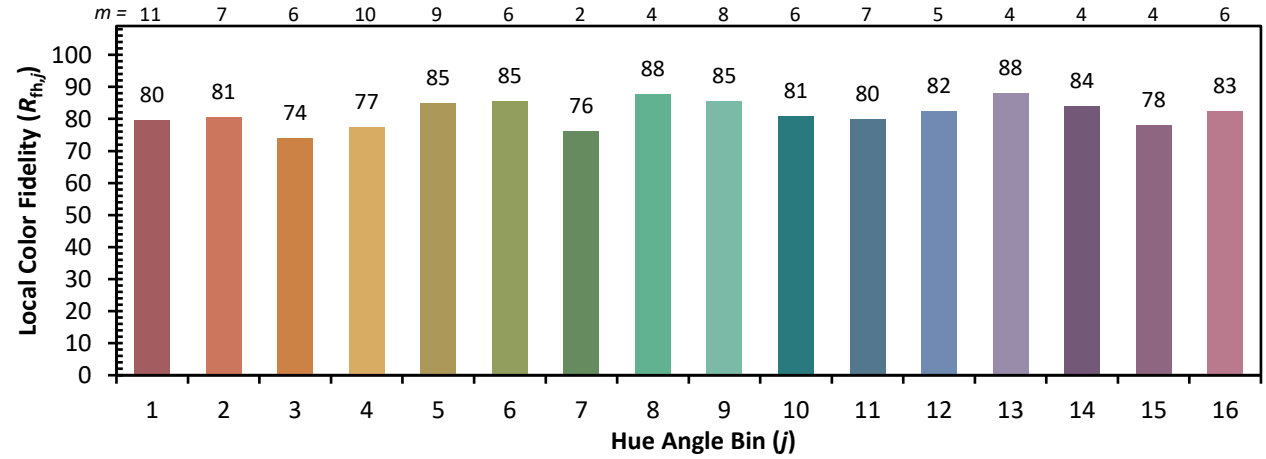
Color Rendition by Hue-Angle Bin







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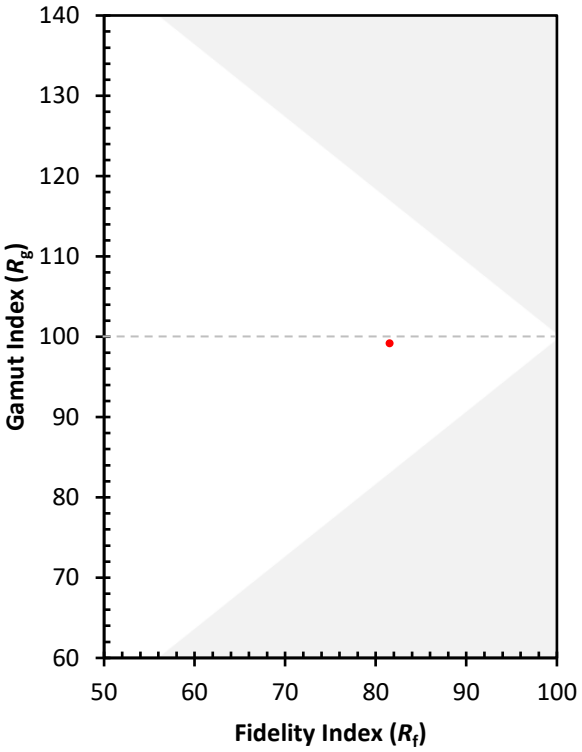
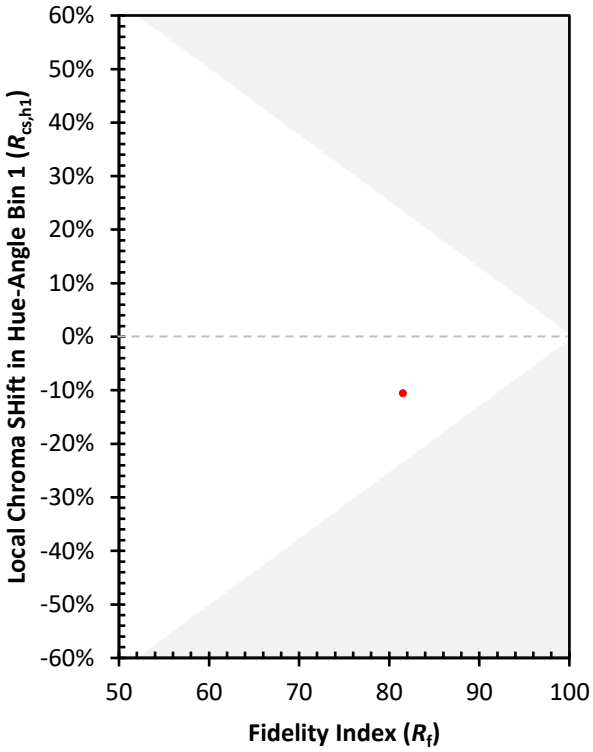
Measure Comparisons





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