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: P636993

Luminaire Tested: GWS-SA4B-830-U-SL4-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:	P636993
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4B-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11042.8 lumens
Efficiency:	N/A
Efficacy:	117.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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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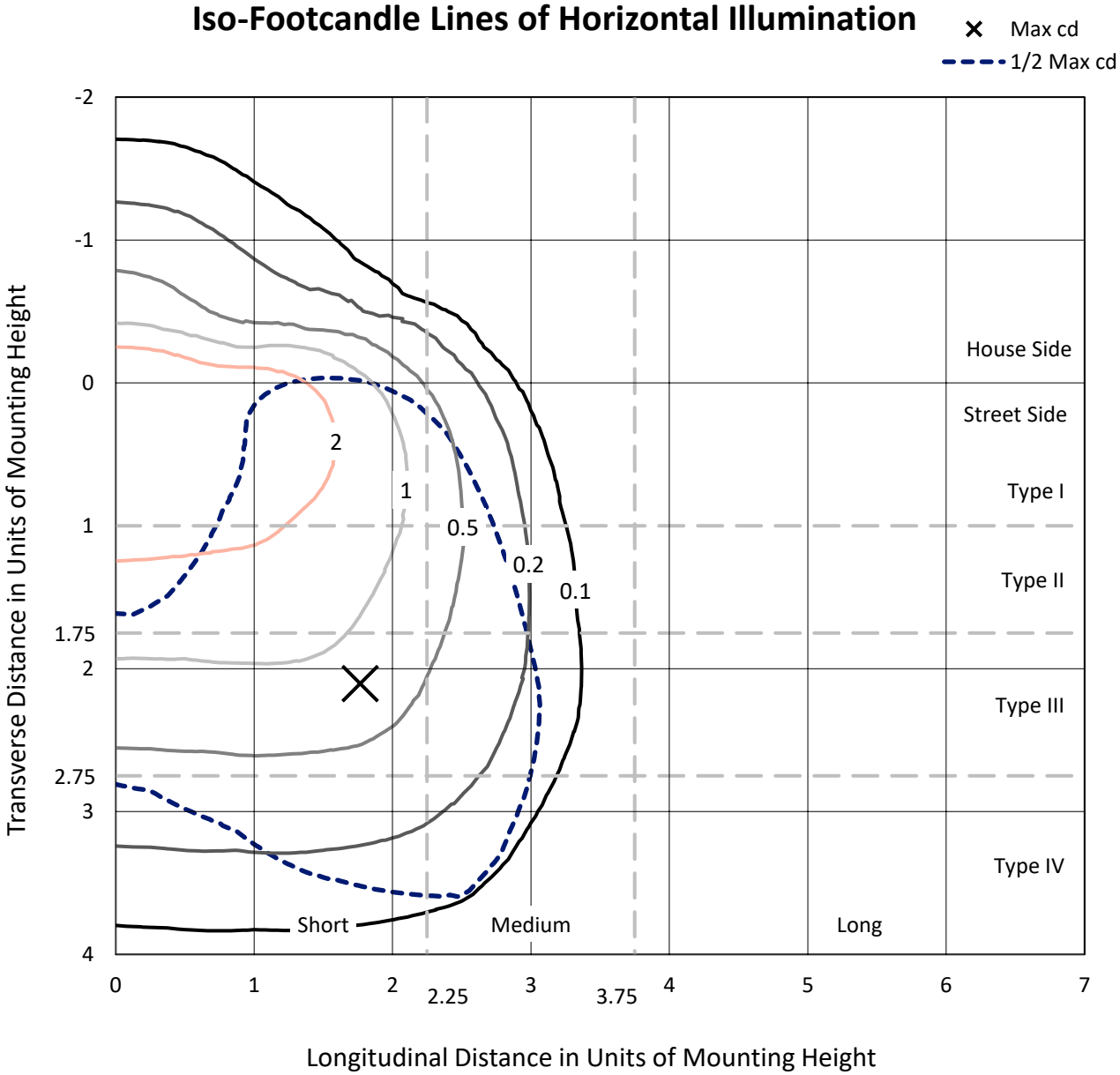
Scaled Data Report

REPORT NUMBER: P636993
CATALOG NUMBER: GWS-SA4B-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - N/A

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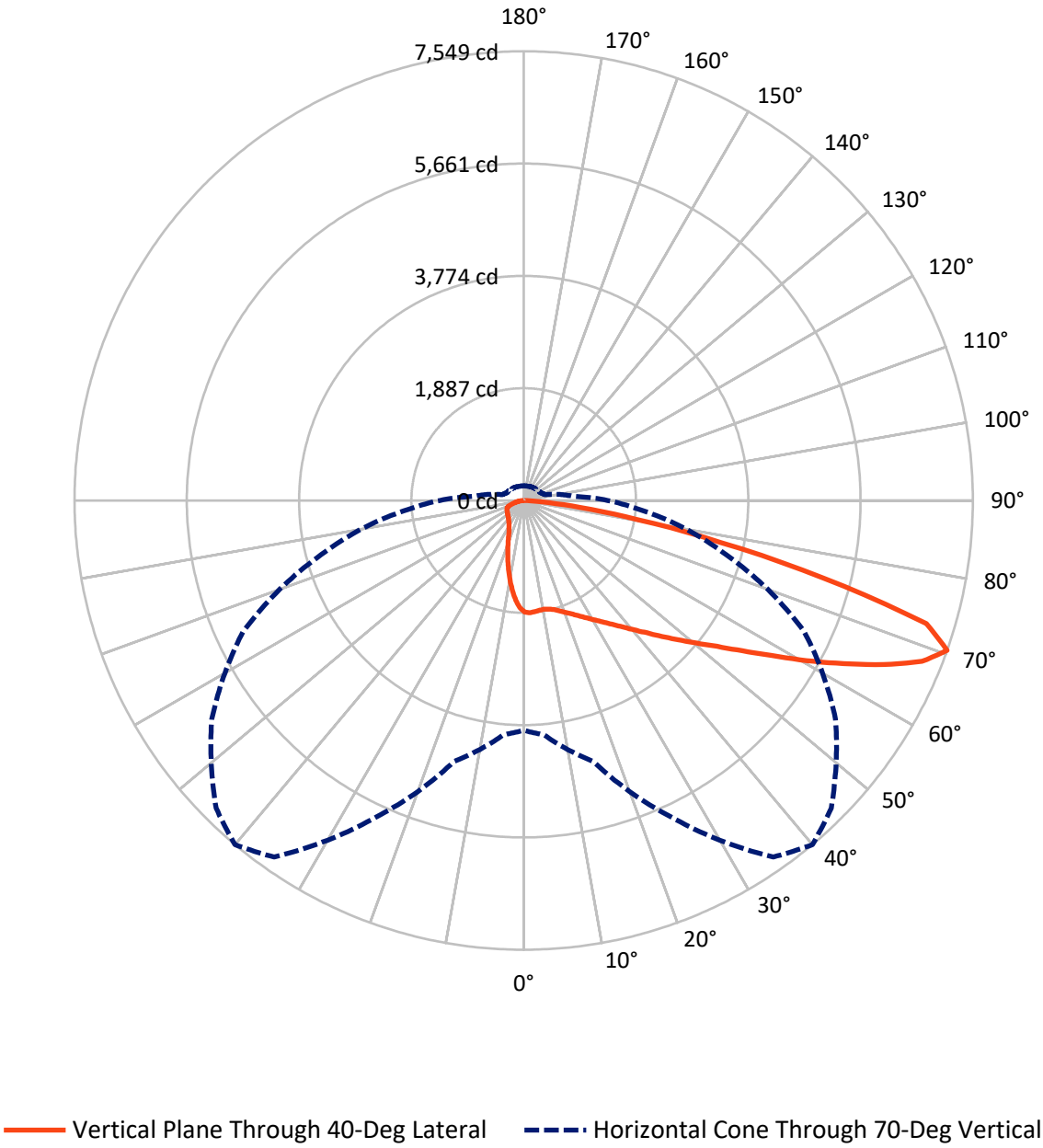
Luminous Intensity Polar Plot



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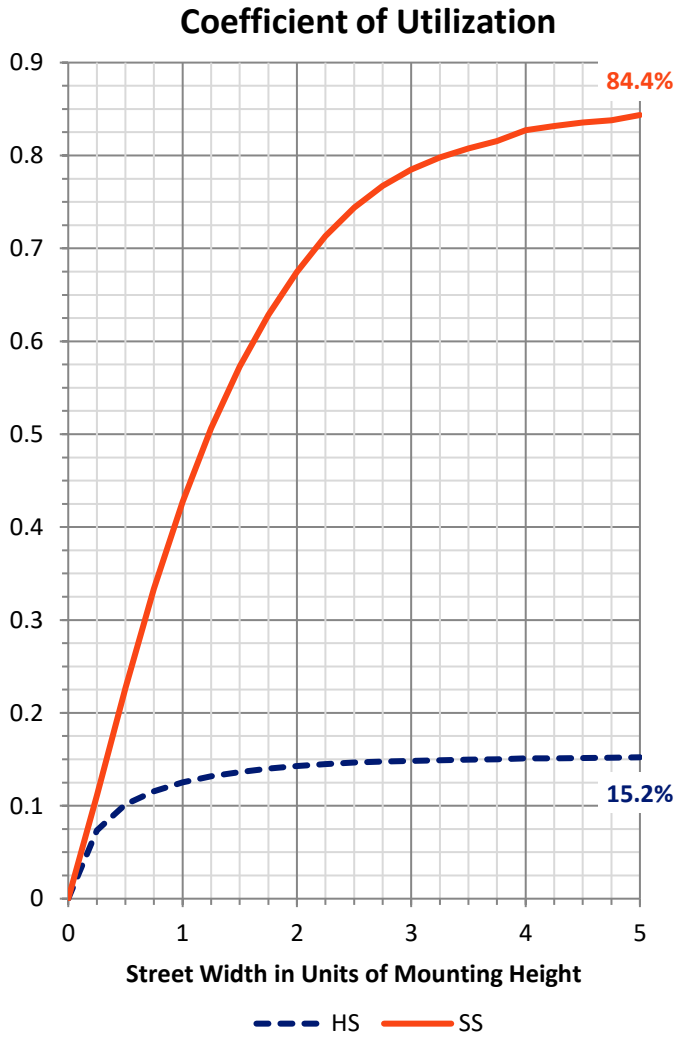
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.9	0.0	1700.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9341.9	0.0	9341.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	11042.8	0.0	11042.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.5
10°-20°	431.8	3.9
20°-30°	678.0	6.1
30°-40°	1019.4	9.2
40°-50°	1573.5	14.2
50°-60°	2336.7	21.2
60°-70°	2945.4	26.7
70°-80°	1703.3	15.4
80°-90°	189.0	1.7
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°	11042.8	100.0
0°-180°	11042.8	100.0



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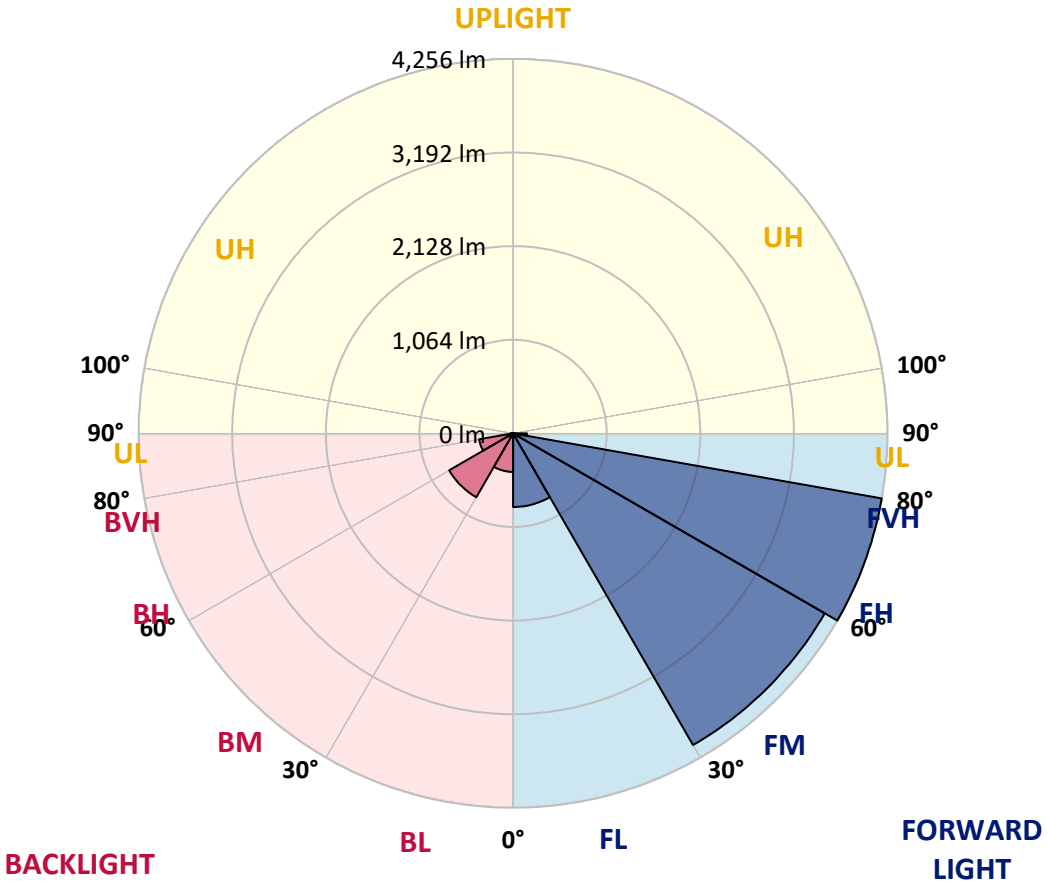
REPORT NUMBER: P636993
CATALOG NUMBER: GWS-SA4B-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	837.1	7.6			
FM	(30°-60°)	4091.2	37.0			
FH	(60°-80°)	4256.2	38.5			G2/5000
FVH	(80°-90°)	157.4	1.4			G2/225
BL	(0°-30°)	438.3	4.0	B1/500		
BM	(30°-60°)	838.4	7.6	B1/1000		
BH	(60°-80°)	392.6	3.6	B1/500		G1/500
BVH	(80°-90°)	31.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P636993
CATALOG NUMBER: GWS-SA4B-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1875.2	1875.2	1875.2	1875.2	1875.2	*1875.2*	1875.2	1875.2	1875.2	1875.2	1875.2
2.5°	1886.7	1890.0	1892.5	1895.8	1894.2	*1889.2*	1893.3	1893.3	1884.3	1874.4	1865.3
5°	1889.2	1893.3	1892.5	1891.7	1885.1	*1876.8*	1876.8	1871.9	1856.2	1840.6	1825.7
7.5°	1884.3	1883.4	1882.6	1880.1	1872.7	*1863.7*	1862.0	1852.1	1831.5	1810.1	1788.6
10°	1862.0	1861.2	1863.7	1869.4	1867.8	*1859.5*	1859.5	1850.5	1826.6	1800.2	1772.2
12.5°	1843.9	1843.9	1853.8	1869.4	1875.2	*1871.9*	1872.7	1866.1	1838.9	1807.6	1774.6
15°	1846.3	1847.2	1868.6	1894.2	1904.9	*1902.4*	1903.2	1895.8	1865.3	1834.0	1789.5
17.5°	1862.8	1867.0	1904.0	1939.5	1953.5	*1950.2*	1944.4	1932.1	1897.4	1862.0	1807.6
20°	1897.4	1904.0	1951.9	1996.4	2012.8	*2005.4*	1995.5	1970.8	1932.9	1894.2	1827.4
22.5°	1965.9	1970.0	2022.7	2066.4	2079.6	*2070.5*	2050.8	2015.3	1971.6	1931.2	1851.3
25°	2062.3	2067.2	2117.5	2157.9	2154.6	*2143.9*	2116.7	2073.0	2021.1	1978.2	1885.9
27.5°	2176.9	2185.1	2234.6	2266.7	2245.3	*2229.6*	2199.1	2146.4	2087.9	2049.1	1938.7
30°	2302.2	2305.5	2347.5	2379.6	2346.7	*2325.2*	2288.1	2231.3	2178.5	2149.7	2017.8
32.5°	2423.3	2426.6	2462.9	2481.0	2446.4	*2430.7*	2398.6	2338.4	2301.3	2285.7	2135.7
35°	2551.1	2550.3	2579.9	2595.6	2560.2	*2553.6*	2520.6	2474.4	2467.8	2488.4	2307.9
37.5°	2678.8	2671.4	2687.1	2707.7	2687.9	*2694.5*	2673.1	2657.4	2683.0	2736.5	2537.1
40°	2781.1	2781.1	2797.5	2823.1	2829.7	*2858.5*	2846.2	2866.8	2949.2	3077.0	2820.6
42.5°	2871.7	2872.6	2907.2	2946.7	2994.5	*3039.1*	3048.9	3102.5	3273.1	3473.4	3176.7
45°	2966.5	2967.3	3014.3	3072.0	3173.4	*3258.3*	3278.1	3398.4	3642.4	3886.4	3563.3
47.5°	3076.1	3067.1	3132.2	3228.6	3372.9	*3494.9*	3546.0	3716.6	4024.9	4324.9	3927.6
50°	3199.8	3180.8	3253.4	3419.9	3597.9	*3765.2*	3850.9	4046.3	4435.3	4729.6	4270.5
52.5°	3339.1	3328.4	3404.2	3607.0	3879.0	*4071.8*	4188.1	4444.4	4834.3	5132.7	4542.5
55°	3512.2	3486.6	3596.3	3854.2	4208.7	*4454.3*	4592.0	4838.4	5270.3	5498.6	4750.2
57.5°	3701.8	3673.7	3820.5	4163.3	4637.3	*4906.8*	5079.1	5281.9	5680.8	5778.9	4872.2
60°	3906.2	3897.1	4071.0	4526.0	5148.3	*5461.6*	5586.0	5769.8	6037.7	5941.3	4841.7
62.5°	4093.3	4090.0	4343.0	4919.2	5689.9	*6034.4*	6133.3	6182.0	6294.9	5930.6	4599.4
65°	4290.3	4318.3	4660.4	5375.0	6310.5	*6648.5*	6689.7	6566.1	6381.4	5649.5	4103.2
67.5°	4315.0	4369.4	4859.8	5802.0	6899.1	*7218.1*	7185.1	6712.0	6125.9	4867.3	3216.3
70°	*3859.2*	*3954.0*	*4541.7*	*5867.1*	*7313.7*	*7548.6*	*7310.4*	*6397.9*	*5198.6*	*3526.2*	*2022.7*
72.5°	3224.5	3306.1	3825.4	5003.3	6778.7	*7077.9*	6755.6	5415.4	3673.7	2022.7	1030.3
75°	2509.9	2604.7	3083.6	3977.1	5075.0	*5194.5*	5032.9	3776.8	2019.4	834.2	468.2
77.5°	1531.5	1599.9	1972.5	2694.5	3550.9	*3372.1*	2857.7	2117.5	886.1	399.8	289.3
80°	677.5	719.6	971.8	1447.4	2051.6	*1939.5*	1529.0	904.2	484.7	253.9	201.9
82.5°	363.5	390.7	478.9	572.9	900.9	*942.1*	764.1	520.9	260.5	145.1	115.4
85°	159.9	175.6	217.6	207.7	295.9	*291.0*	293.4	357.7	124.5	66.8	75.0
87.5°	0.0	0.0	0.0	0.0	0.8	*0.8*	9.1	47.8	12.4	19.8	17.3
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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Scaled Data Report

REPORT NUMBER: P636993
CATALOG NUMBER: GWS-SA4B-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
2.5°	1855.4	1840.6	1836.5	1831.5	1822.4	1806.8	1795.2	1782.1	1776.3	1769.7	1770.5
5°	1809.3	1791.1	1773.8	1751.6	1723.5	1692.2	1670.8	1646.0	1632.9	1620.5	1623.8
7.5°	1769.7	1741.7	1706.2	1659.2	1609.0	1552.9	1507.6	1472.1	1448.2	1431.7	1440.0
10°	1745.0	1712.0	1650.2	1573.5	1488.6	1402.9	1337.8	1276.8	1238.9	1209.2	1207.5
12.5°	1740.0	1697.2	1607.3	1496.0	1373.2	1258.6	1163.0	1080.6	1030.3	993.2	1007.2
15°	1745.0	1690.6	1570.2	1424.3	1269.4	1114.4	995.7	900.9	840.7	807.0	804.5
17.5°	1750.7	1684.0	1528.2	1346.8	1160.6	983.3	845.7	745.1	683.3	649.5	650.3
20°	1755.7	1674.1	1478.7	1261.9	1050.1	861.4	718.8	623.1	567.9	543.2	547.3
22.5°	1763.9	1664.2	1426.0	1171.3	937.2	743.5	618.2	540.7	507.7	491.3	492.1
25°	1779.6	1658.4	1371.6	1072.4	825.9	649.5	549.0	497.0	476.4	466.5	465.7
27.5°	1811.7	1663.4	1314.7	976.7	725.3	577.8	504.4	470.7	456.6	450.0	449.2
30°	1865.3	1683.1	1265.2	879.5	638.8	521.8	474.0	453.3	445.1	439.3	438.5
32.5°	1946.9	1720.2	1211.7	788.8	568.7	480.5	450.0	439.3	433.6	430.3	430.3
35°	2070.5	1787.8	1158.9	709.7	514.3	448.4	431.1	427.0	422.0	420.4	422.0
37.5°	2248.6	1895.8	1111.1	640.5	475.6	423.7	410.5	412.1	408.0	410.5	413.0
40°	2474.4	2040.0	1070.7	583.6	446.7	405.5	392.3	398.1	395.6	398.1	402.2
42.5°	2760.5	2218.9	1040.2	539.1	426.1	390.7	378.3	384.1	382.5	385.8	389.9
45°	3079.4	2454.6	1026.2	507.7	411.3	380.0	366.8	370.9	369.3	371.7	375.9
47.5°	3385.2	2669.0	1038.6	489.6	398.9	370.9	356.9	358.6	357.7	356.9	359.4
50°	3649.0	2839.6	1074.0	483.8	390.7	361.9	348.7	349.5	347.0	342.1	343.7
52.5°	3864.1	2976.4	1095.4	483.8	386.6	352.0	339.6	340.4	335.5	328.9	329.7
55°	4005.9	3031.6	1078.1	483.0	384.9	343.7	330.5	331.4	326.4	318.2	319.0
57.5°	4046.3	2978.1	1005.6	474.0	383.3	337.1	321.5	323.1	319.8	310.7	310.7
60°	3933.4	2781.9	872.9	453.3	379.2	333.0	314.9	317.3	315.7	306.6	306.6
62.5°	3637.5	2433.2	714.6	422.0	367.6	328.1	309.1	314.0	318.2	313.2	312.4
65°	3083.6	1949.4	581.1	387.4	352.8	319.8	300.9	313.2	322.3	328.9	328.9
67.5°	2313.7	1395.5	474.0	351.1	330.5	303.3	290.1	301.7	308.3	312.4	314.9
70°	*1410.3*	*821.0*	*373.4*	*309.1*	*298.4*	*278.6*	*268.7*	*257.2*	*248.1*	*246.5*	*247.3*
72.5°	689.9	469.8	303.3	262.9	254.7	236.6	214.3	209.4	205.2	202.8	201.9
75°	380.0	327.2	250.6	218.4	203.6	181.3	176.4	168.1	166.5	163.2	164.0
77.5°	268.7	258.0	206.9	177.2	155.0	143.4	145.9	140.1	140.1	137.7	136.8
80°	201.9	202.8	159.1	129.4	114.6	110.5	112.9	112.9	111.3	110.5	109.6
82.5°	127.8	144.2	107.2	83.3	81.6	82.4	81.6	80.8	82.4	80.0	79.1
85°	88.2	103.9	65.1	49.5	49.5	48.6	50.3	49.5	51.1	48.6	48.6
87.5°	19.8	46.2	23.9	14.8	15.7	14.8	15.7	16.5	18.1	19.0	19.0
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

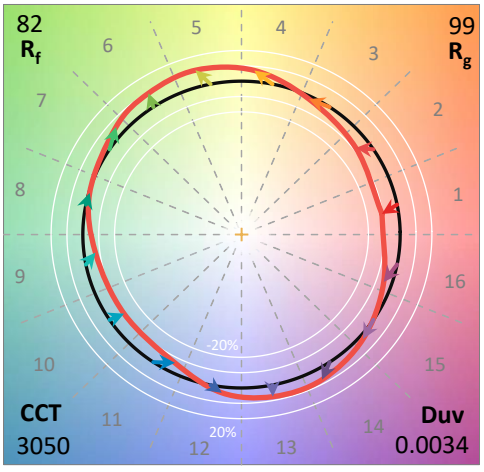
Test Information

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

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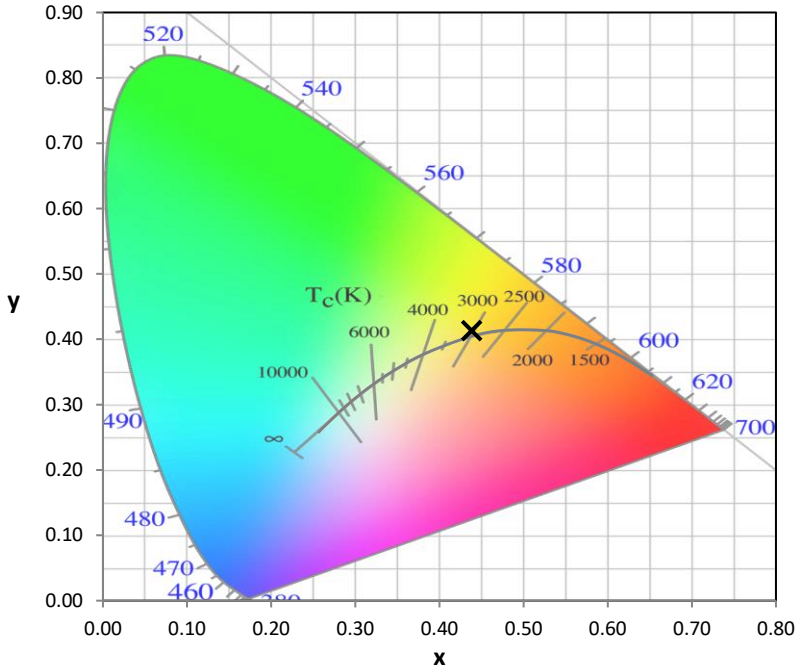
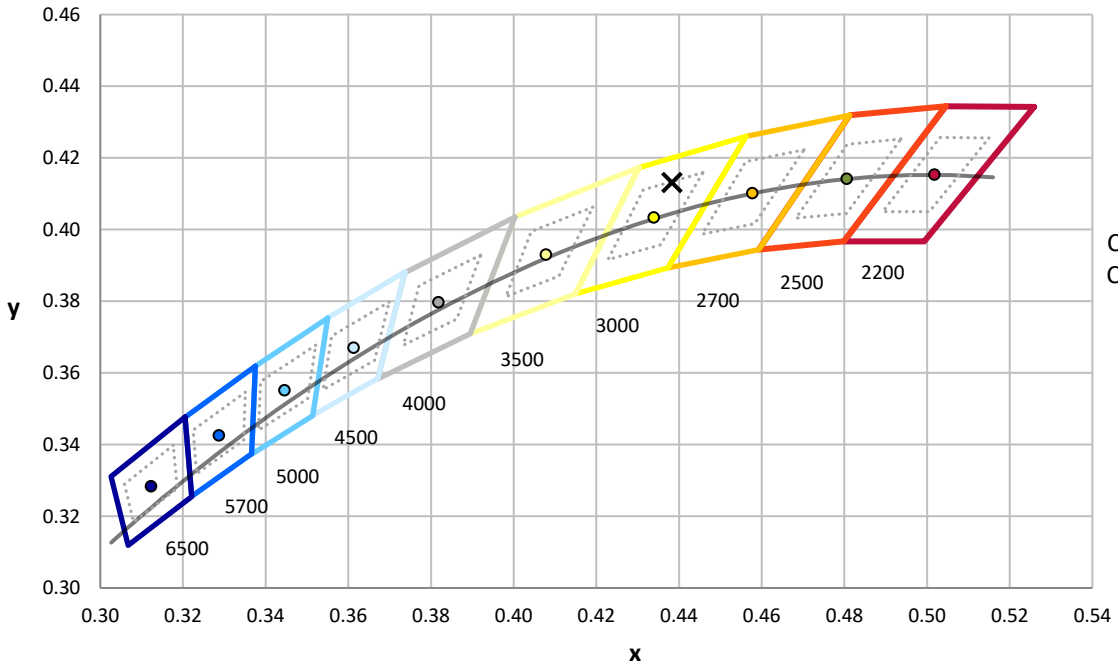
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

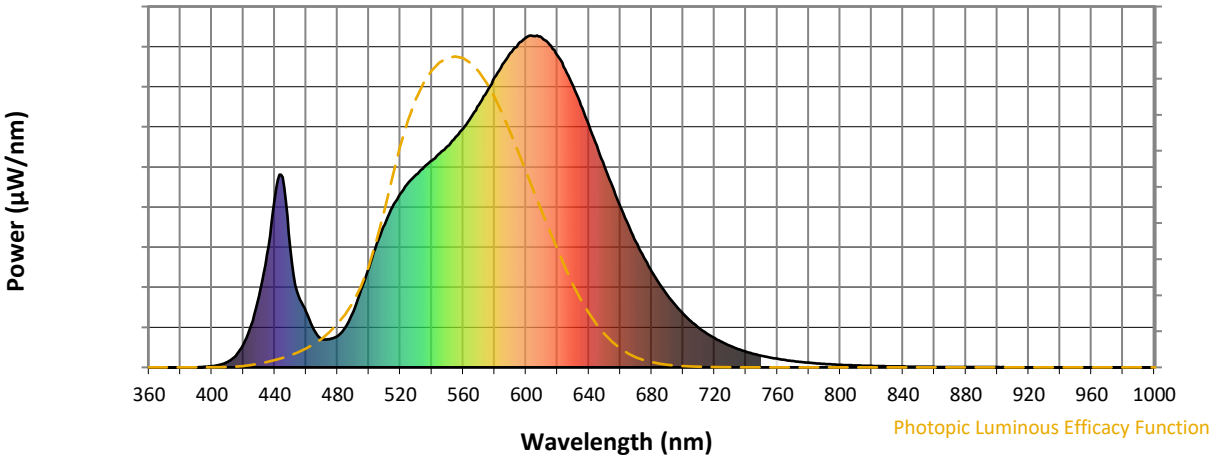


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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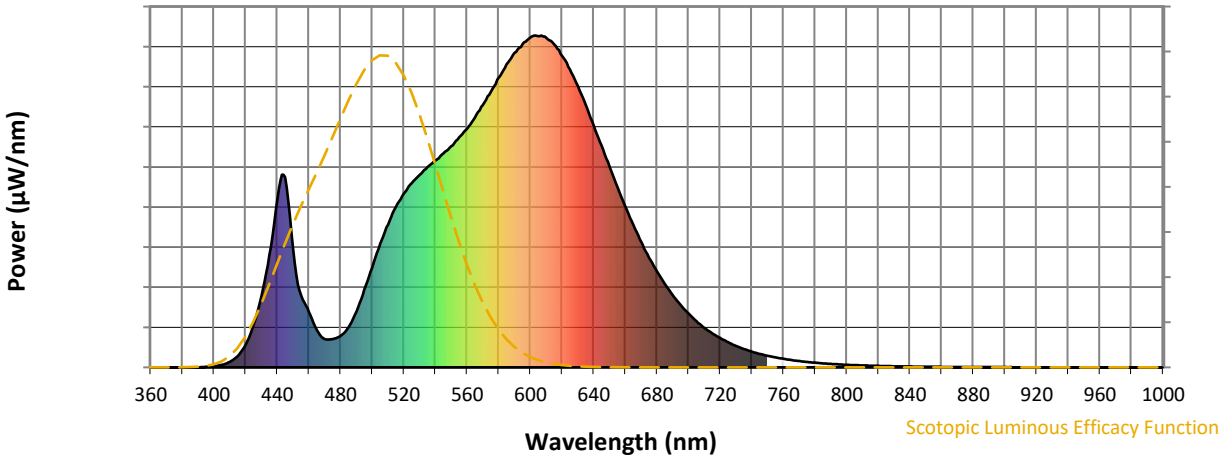
Scotopic Flux vs. Wavelength



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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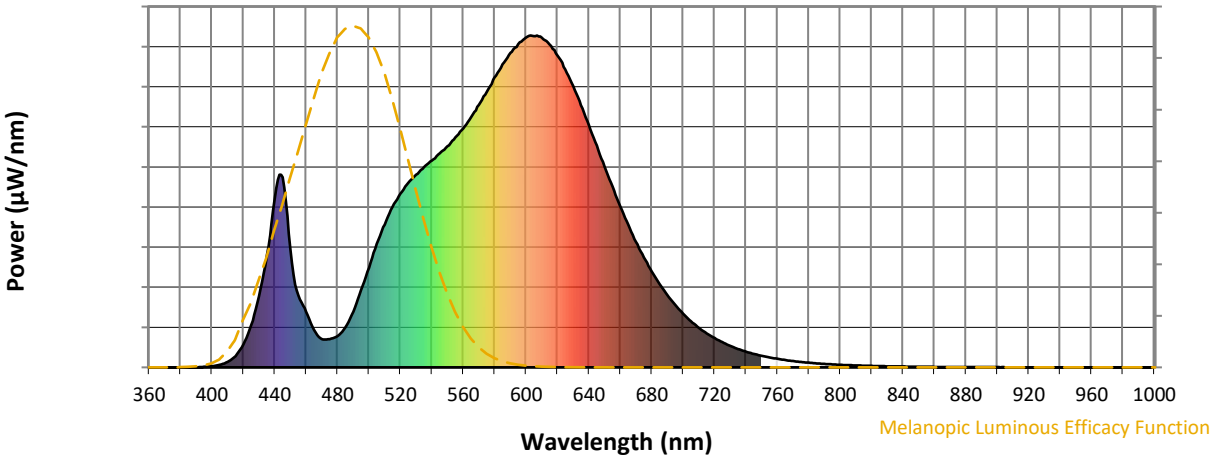
Melanopic Flux vs. Wavelength



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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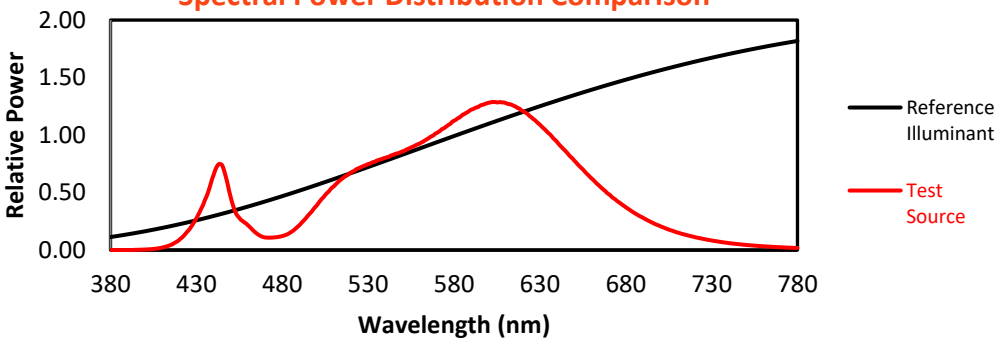
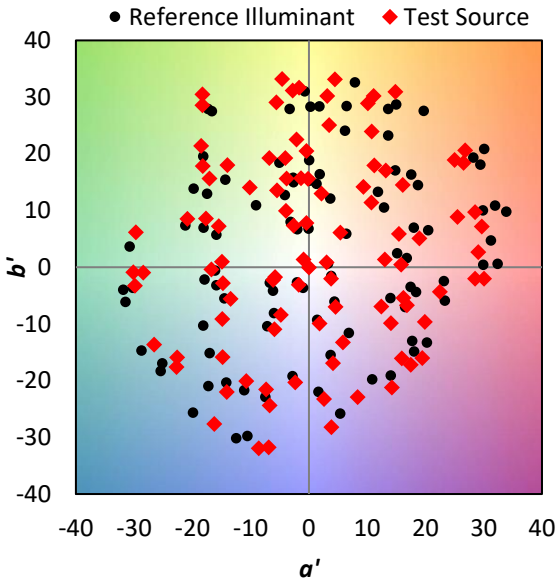
Summary

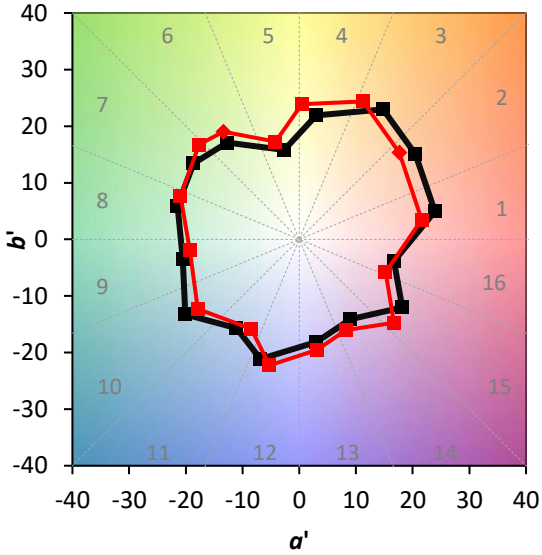
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

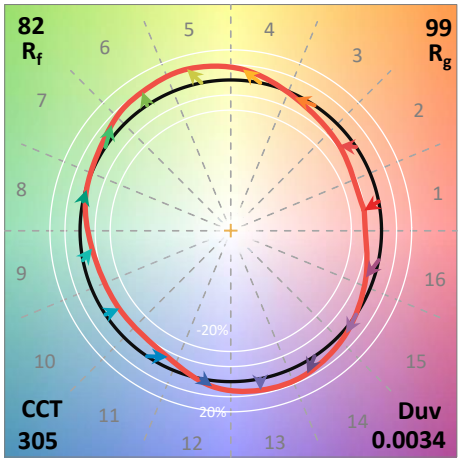
Spectral Power Distribution Comparison

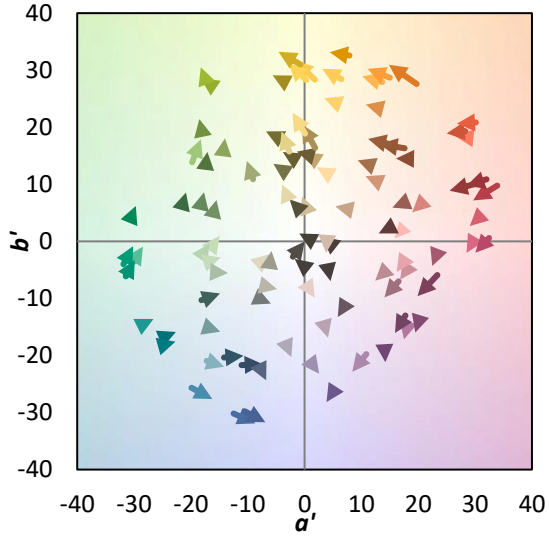


Color Vector Graphics









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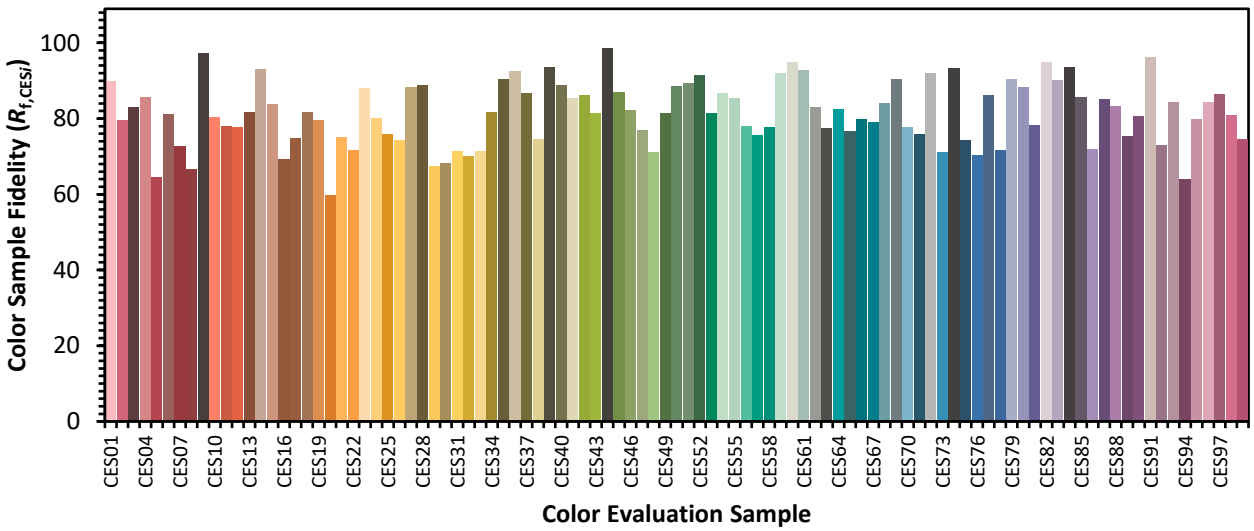
Individual Sample Fidelity Index ($R_{f,i}$)

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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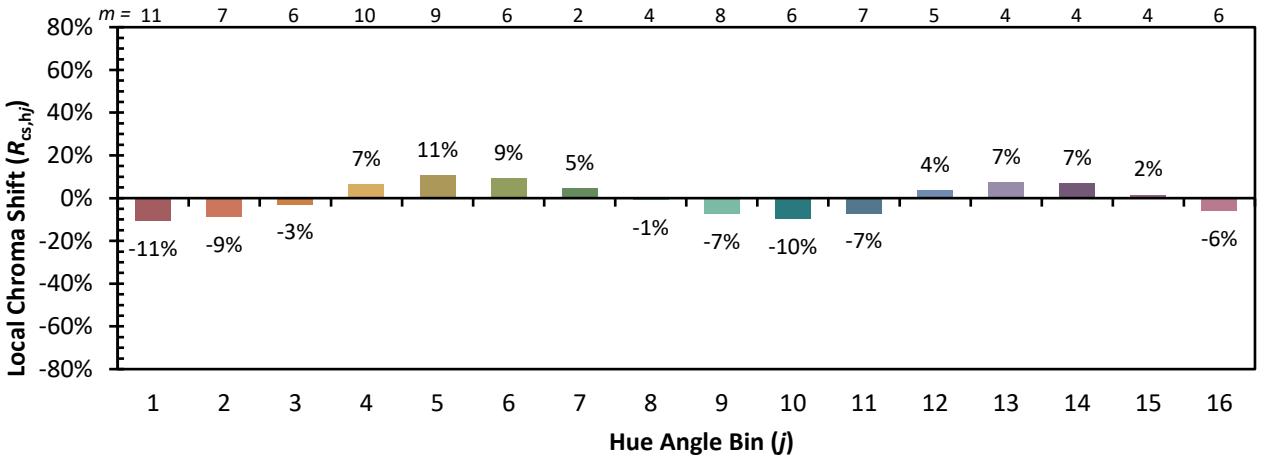
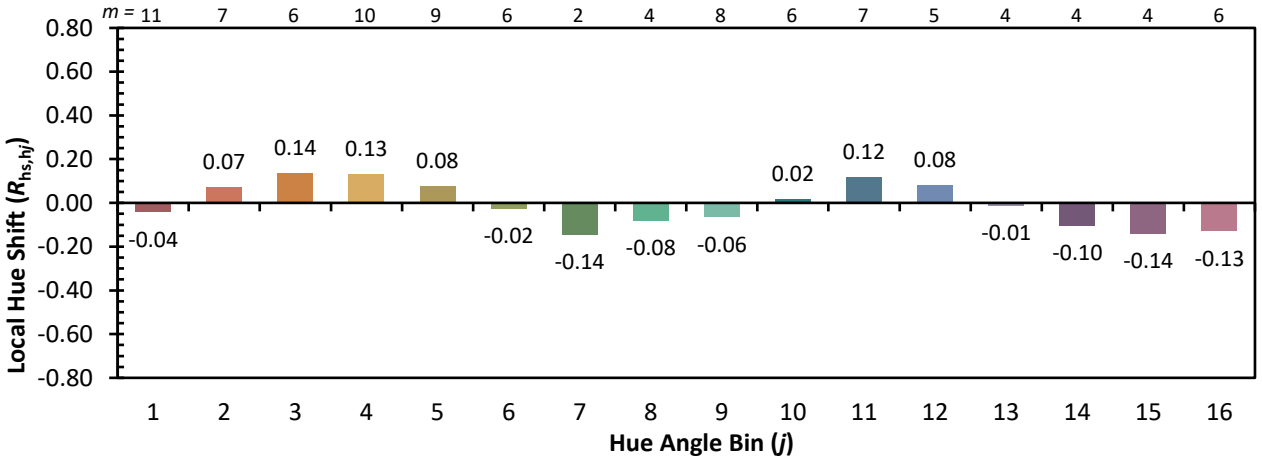
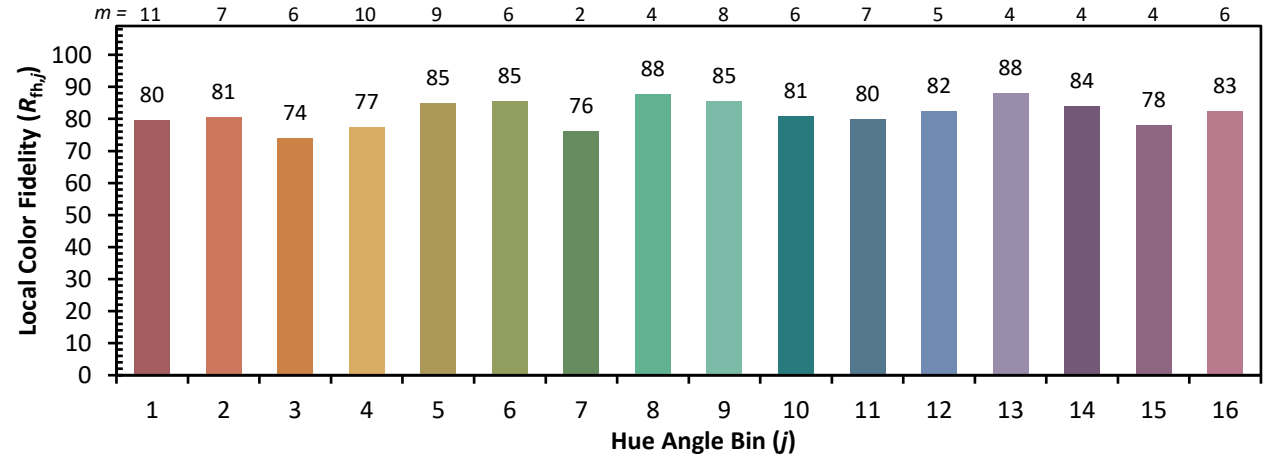
Color Rendition by Hue-Angle Bin







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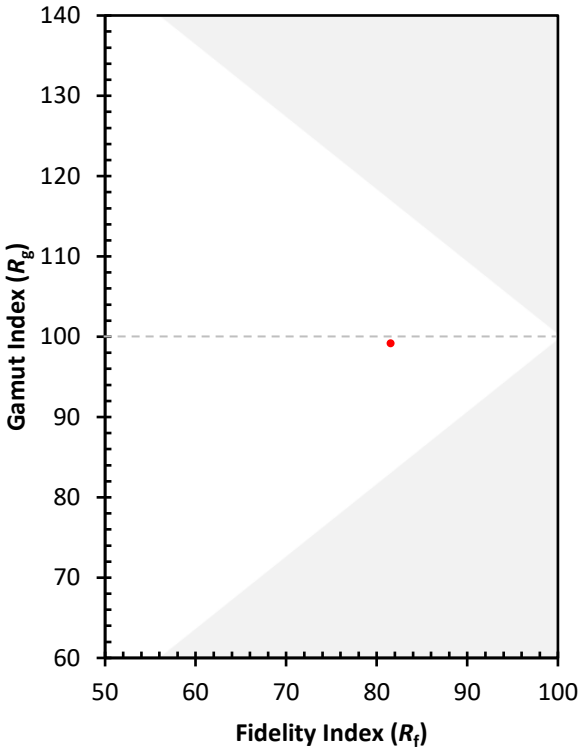
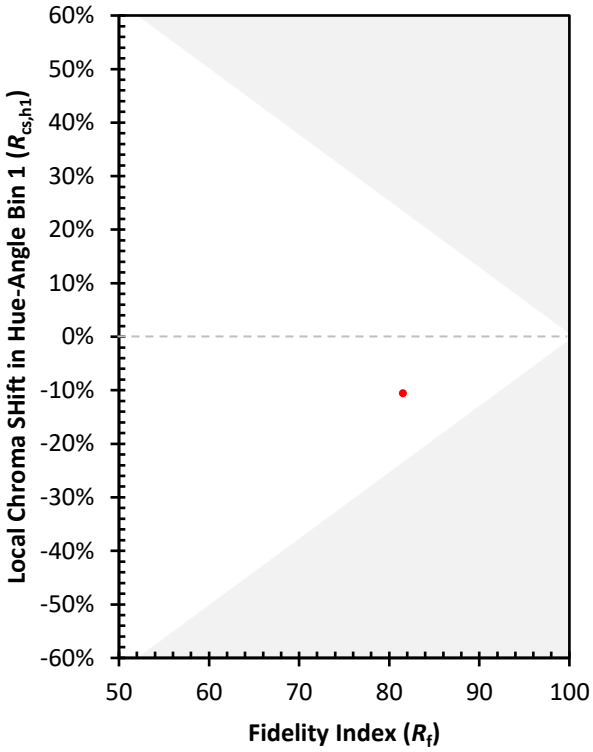
Measure Comparisons





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