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: P632028

Luminaire Tested: GWS-SA2B-830-U-AFL-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:	P632028
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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:	4973.5 lumens
Efficiency:	N/A
Efficacy:	107.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	46.4
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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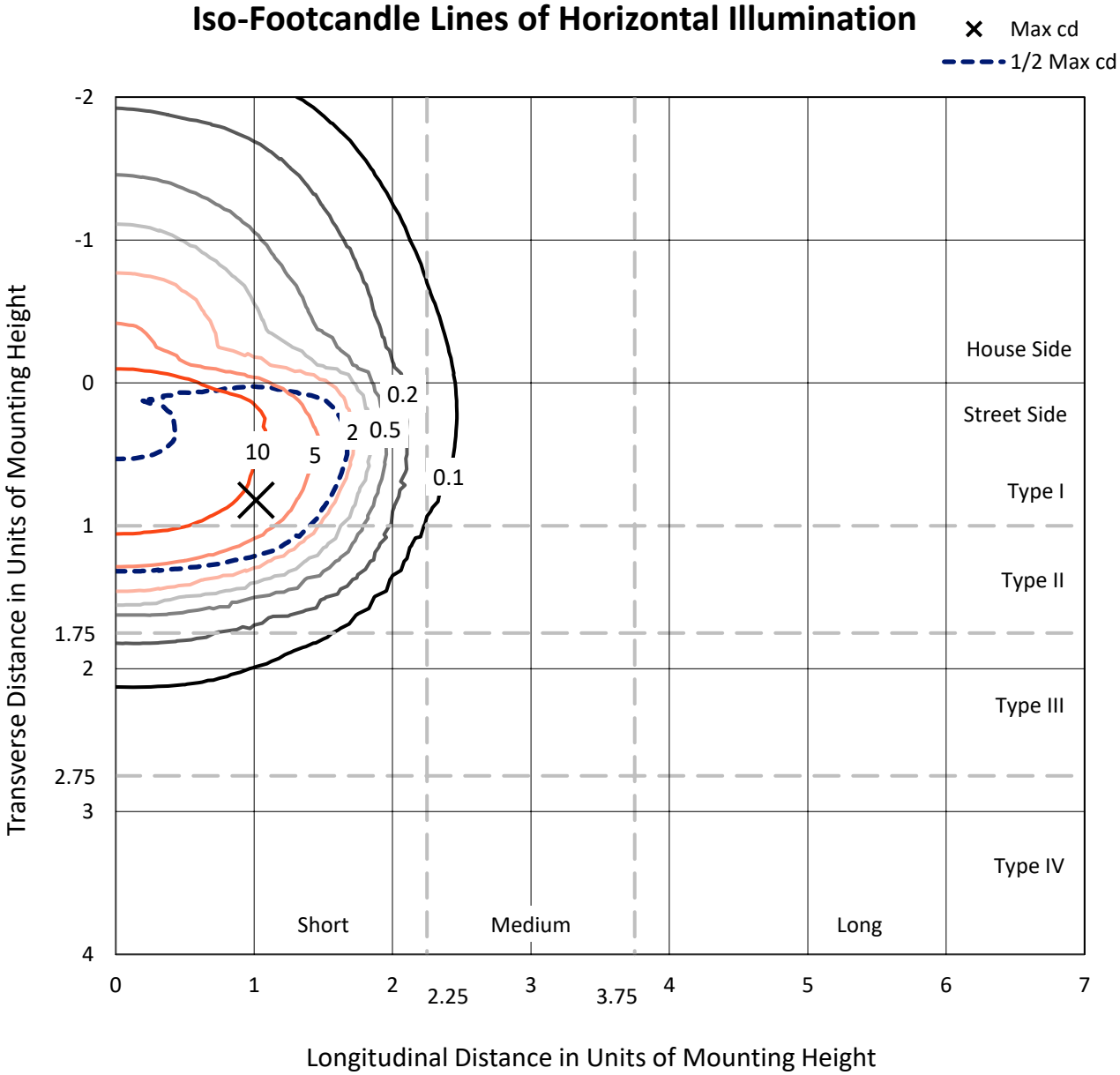
REPORT NUMBER: P632028
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - N/A

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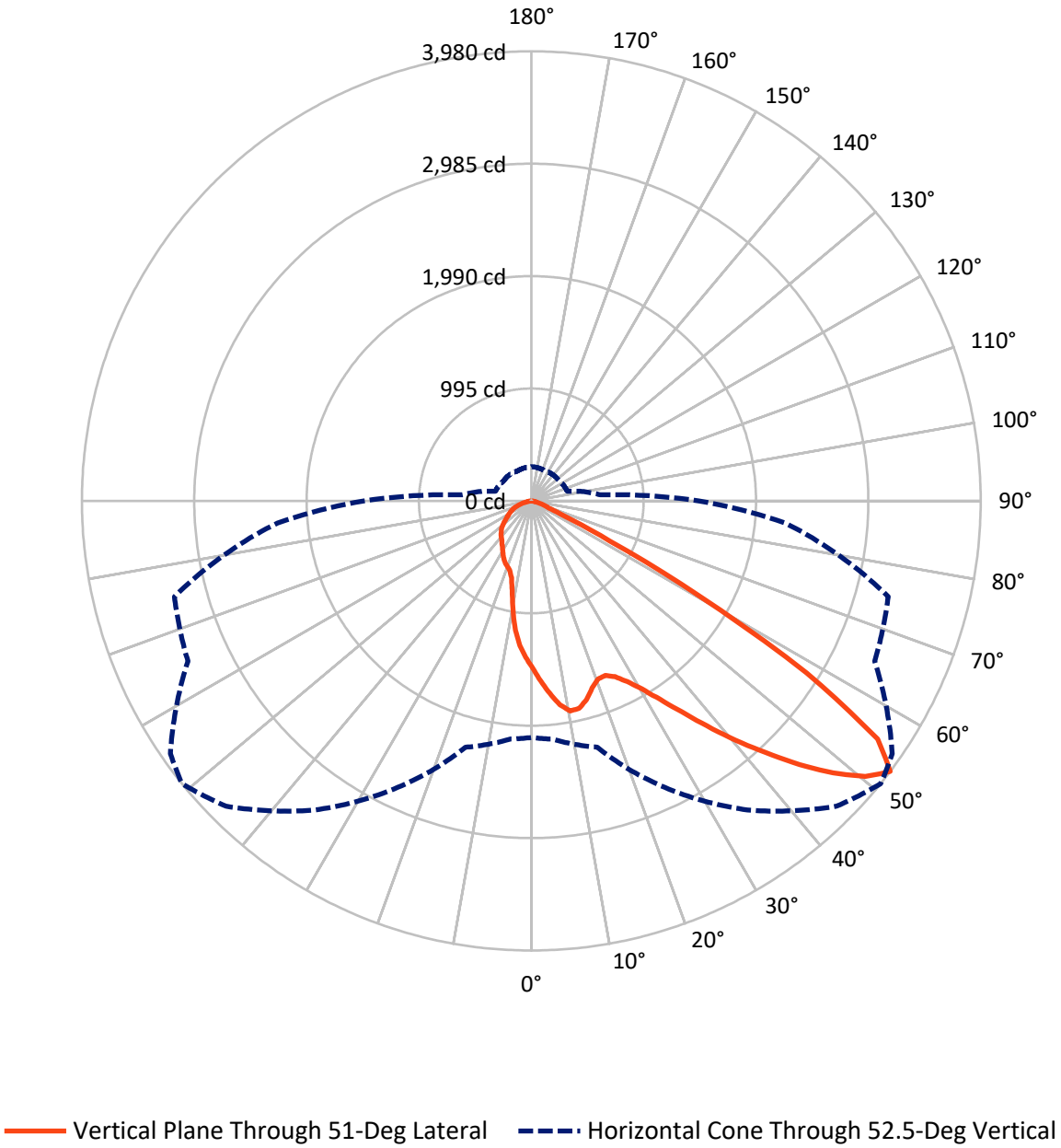
Luminous Intensity Polar Plot



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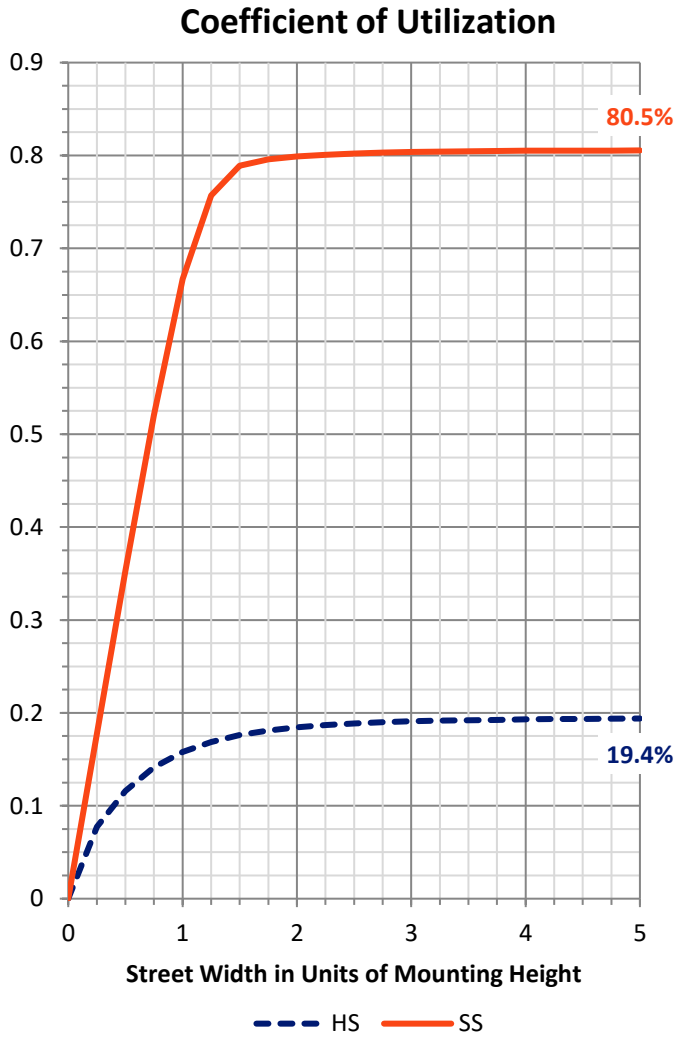
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.1	0.0	969.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4004.5	0.0	4004.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	4973.5	0.0	4973.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	2.8
10°-20°	359.1	7.2
20°-30°	583.8	11.7
30°-40°	925.2	18.6
40°-50°	1395.4	28.1
50°-60°	1207.1	24.3
60°-70°	273.7	5.5
70°-80°	80.7	1.6
80°-90°	10.4	0.2
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°	4973.5	100.0
0°-180°	4973.5	100.0



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REPORT NUMBER: P632028
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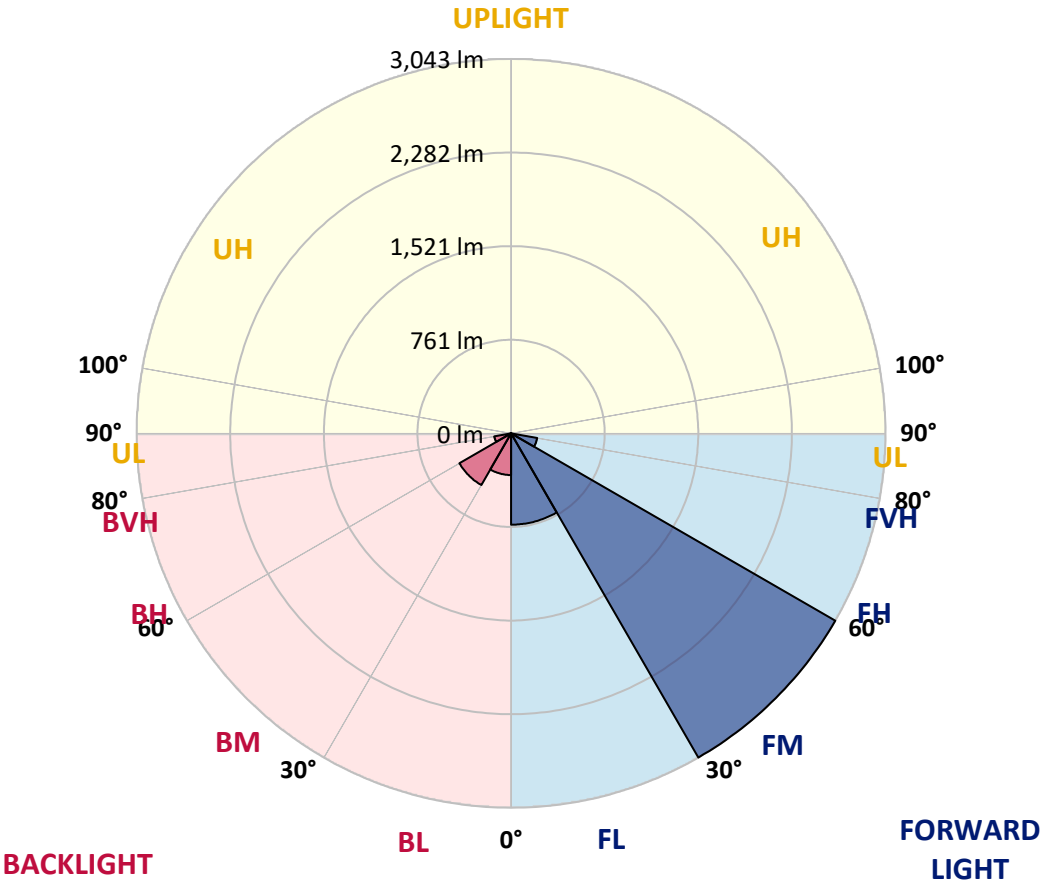
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	742.3	14.9			
FM	(30°-60°)	3042.9	61.2			
FH	(60°-80°)	215.4	4.3			G0/660
FVH	(80°-90°)	3.9	0.1			G0/10
BL	(0°-30°)	338.7	6.8	B1/500		
BM	(30°-60°)	484.8	9.7	B1/1000		
BH	(60°-80°)	139.0	2.8	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P632028
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	*1480.9*	1480.9	1480.9	1480.9	1480.9
2.5°	1650.2	1659.7	1645.1	1639.6	1630.6	1614.9	*1596.8*	1591.7	1552.8	1527.2	1498.5
5°	1816.1	1821.2	1809.4	1797.6	1775.2	1747.3	*1712.3*	1704.9	1634.1	1575.6	1514.7
7.5°	1853.0	1851.1	1861.3	1868.0	1865.2	1854.2	*1823.2*	1808.6	1724.1	1631.4	1541.4
10°	1706.8	1695.8	1733.6	1778.4	1832.2	1894.3	*1890.8*	1889.6	1816.1	1706.4	1575.6
12.5°	1513.1	1507.6	1538.2	1594.4	1696.2	1833.8	*1885.3*	1925.4	1899.0	1778.0	1613.7
15°	1402.3	1400.3	1421.1	1461.6	1542.6	1716.3	*1826.3*	1905.7	1970.2	1854.6	1654.2
17.5°	1382.2	1383.4	1390.5	1413.7	1471.8	1614.9	*1742.2*	1853.0	2025.6	1938.7	1704.9
20°	1440.8	1448.6	1436.4	1440.0	1471.4	1578.3	*1684.8*	1800.0	2060.9	2023.2	1759.5
22.5°	1570.9	1568.1	1541.4	1525.7	1526.1	1600.7	*1678.5*	1775.2	2084.1	2105.4	1809.0
25°	1718.2	1715.1	1683.3	1648.3	1626.3	1661.6	*1723.7*	1801.6	2105.0	2180.4	1848.7
27.5°	1892.3	1882.5	1847.1	1802.3	1753.6	1768.9	*1811.0*	1872.7	2137.2	2254.3	1875.0
30°	2060.9	2072.3	2021.6	1968.6	1917.1	1907.7	*1932.0*	1987.8	2202.8	2340.8	1906.5
32.5°	2284.6	2280.6	2224.4	2155.3	2081.8	2074.7	*2094.0*	2145.0	2320.7	2460.2	1954.4
35°	2555.3	2556.1	2476.4	2382.8	2278.3	2259.4	*2291.6*	2341.2	2496.4	2622.2	2030.3
37.5°	2836.7	2835.6	2766.0	2659.9	2517.2	2490.5	*2527.4*	2564.4	2716.1	2842.6	2148.2
40°	3034.0	3041.9	3009.3	2953.5	2818.3	2753.0	*2785.7*	2811.2	2955.0	3102.0	2303.4
42.5°	3146.0	3157.8	3164.9	3198.3	3127.2	3057.6	*3045.8*	3059.2	3168.4	3342.9	2449.2
45°	3170.0	3185.7	3237.2	3361.0	3388.5	3368.9	*3330.4*	3298.1	3327.6	3513.9	2544.7
47.5°	3064.3	3091.8	3201.8	3418.4	3579.1	3640.8	*3598.0*	3548.9	3419.6	3557.9	2534.9
50°	2645.3	2677.6	2925.6	3301.3	3606.3	3831.1	*3835.0*	3762.3	3408.6	3431.0	2411.5
52.5°	*2094.3*	*2116.4*	*2258.2*	*2798.6*	*3340.2*	*3823.2*	*3980.4*	*3902.6*	*3355.5*	*3272.2*	*2257.1*
55°	1251.7	1287.1	1419.5	1846.4	2602.1	3388.5	*3723.4*	3761.1	3329.6	3139.0	2151.7
57.5°	422.5	439.8	566.3	815.5	1533.5	2481.1	*2876.8*	3030.1	3022.6	2935.4	1946.2
60°	201.2	205.2	230.7	309.3	613.9	1296.5	*1702.9*	1879.8	2040.9	2057.0	1210.9
62.5°	153.3	155.6	168.6	185.5	246.8	546.3	*780.5*	915.7	978.2	839.5	441.0
65°	128.1	130.1	139.9	150.5	167.8	236.6	*299.5*	345.5	311.3	242.5	210.3
67.5°	106.9	108.5	115.9	127.3	139.1	158.4	*166.2*	171.0	179.2	201.2	193.4
70°	83.7	85.3	93.1	103.0	114.4	119.1	*126.5*	131.3	147.8	176.1	175.3
72.5°	64.5	66.4	70.7	77.0	86.5	91.2	*99.4*	104.9	114.4	137.2	146.6
75°	47.2	48.3	52.3	54.2	55.4	54.2	*62.5*	68.8	81.4	90.0	92.4
77.5°	19.3	21.6	20.8	20.8	24.8	29.9	*34.2*	38.1	46.8	51.9	52.3
80°	7.9	8.6	10.2	11.4	13.8	17.7	*20.4*	22.0	25.9	29.1	31.4
82.5°	4.7	5.1	5.9	6.3	7.9	10.2	*11.8*	13.0	16.1	19.3	20.4
85°	2.4	2.4	2.8	3.1	3.9	4.7	*5.5*	6.3	8.3	10.2	11.4
87.5°	0.4	0.4	0.4	0.8	1.2	1.6	*2.0*	2.4	2.8	3.1	3.9
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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REPORT NUMBER: P632028
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1481.6	1460.4	1435.7	1416.0	1393.2	1376.3	1352.3	1337.4	1323.3	1311.5	1302.8
5°	1483.2	1447.5	1396.0	1350.4	1303.2	1258.4	1212.4	1175.1	1141.7	1113.8	1111.4
7.5°	1492.3	1440.8	1360.2	1280.4	1188.5	1099.6	1010.8	938.5	883.5	854.8	848.9
10°	1507.6	1440.0	1323.7	1196.3	1039.5	896.5	791.1	736.1	704.3	692.9	688.9
12.5°	1523.7	1438.0	1276.9	1077.6	859.9	734.5	676.8	670.1	676.0	676.8	676.4
15°	1543.3	1436.8	1217.9	938.5	728.6	659.5	663.4	677.5	691.3	694.4	694.4
17.5°	1567.3	1434.1	1137.8	802.5	646.5	644.9	665.8	684.6	697.6	699.9	699.9
20°	1592.5	1427.0	1039.1	691.7	613.1	635.9	658.3	672.8	681.9	685.0	685.4
22.5°	1609.8	1408.2	925.5	609.6	592.3	618.6	634.7	649.6	649.6	641.8	639.4
25°	1613.3	1367.7	802.5	553.4	567.5	591.9	608.4	599.7	583.6	577.3	576.9
27.5°	1600.3	1308.7	681.1	513.3	537.6	562.0	559.3	546.7	539.6	533.3	535.7
30°	1584.6	1238.0	575.8	480.3	503.1	527.0	517.6	513.3	508.2	501.1	502.7
32.5°	1574.0	1159.0	494.8	454.7	479.9	483.8	490.5	490.1	485.4	472.0	471.2
35°	1577.1	1079.2	440.6	433.9	460.6	459.0	471.6	469.3	436.6	418.2	417.0
37.5°	1602.3	1002.6	408.7	417.4	430.0	439.8	450.8	422.5	411.1	399.3	400.1
40°	1650.2	931.4	391.4	408.3	411.5	426.0	400.5	400.1	395.0	384.4	384.0
42.5°	1704.5	871.3	379.6	404.0	399.7	402.4	375.3	378.5	378.1	371.4	369.4
45°	1737.5	815.9	370.2	387.9	389.1	361.6	353.3	356.9	358.8	355.3	354.9
47.5°	1703.3	752.2	360.4	363.1	373.4	343.1	332.9	333.3	336.8	337.2	335.6
50°	1607.4	681.1	348.6	341.9	335.2	323.8	314.4	312.4	316.0	319.5	320.7
52.5°	*1483.6*	*613.1*	*328.9*	*318.7*	*303.0*	*303.0*	*298.7*	*292.4*	*297.1*	*301.8*	*303.4*
55°	1392.8	562.8	301.0	289.6	272.4	278.3	277.5	272.0	278.3	281.8	283.0
57.5°	1206.9	452.4	264.9	261.4	246.8	253.9	255.5	248.4	245.2	246.0	247.2
60°	716.5	292.0	238.9	238.6	225.6	233.8	238.6	231.5	222.1	223.2	224.8
62.5°	321.5	223.2	206.3	204.8	204.4	215.0	220.1	213.4	200.0	201.2	202.8
65°	202.4	193.0	179.2	179.2	185.5	194.5	198.5	193.0	177.6	175.7	177.2
67.5°	187.9	179.6	165.5	162.7	165.8	173.3	173.7	163.1	154.1	152.5	152.5
70°	168.6	162.3	148.6	143.1	141.9	141.5	140.3	137.6	131.7	130.1	130.9
72.5°	139.5	135.2	126.5	120.7	117.5	117.1	112.4	110.0	104.9	104.1	103.8
75°	92.4	93.5	93.5	92.8	90.0	88.8	83.7	81.4	75.5	73.1	72.7
77.5°	54.6	55.8	57.4	57.8	57.4	57.4	52.7	49.9	44.0	40.9	40.1
80°	33.4	34.2	35.0	36.2	34.6	33.4	29.1	26.3	23.6	21.6	21.2
82.5°	21.6	22.4	22.8	23.6	22.8	21.2	17.7	16.1	14.1	12.6	12.2
85°	12.2	12.6	13.4	13.4	12.2	11.0	9.0	7.9	6.7	5.9	5.9
87.5°	4.3	4.3	4.3	4.7	3.9	3.5	2.4	1.6	1.2	1.2	1.2
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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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

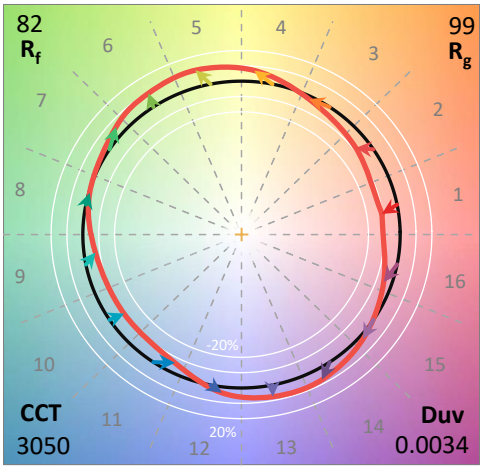
Test Information

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

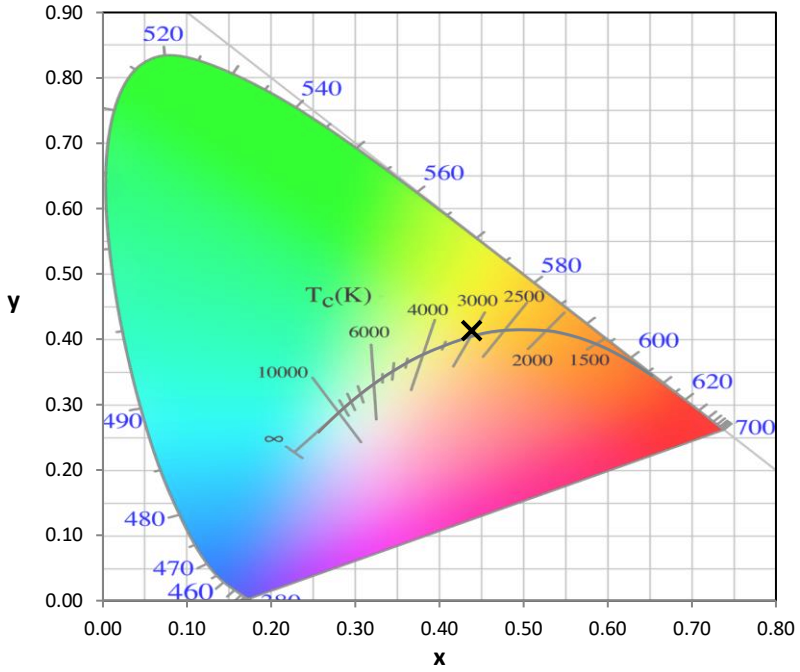
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

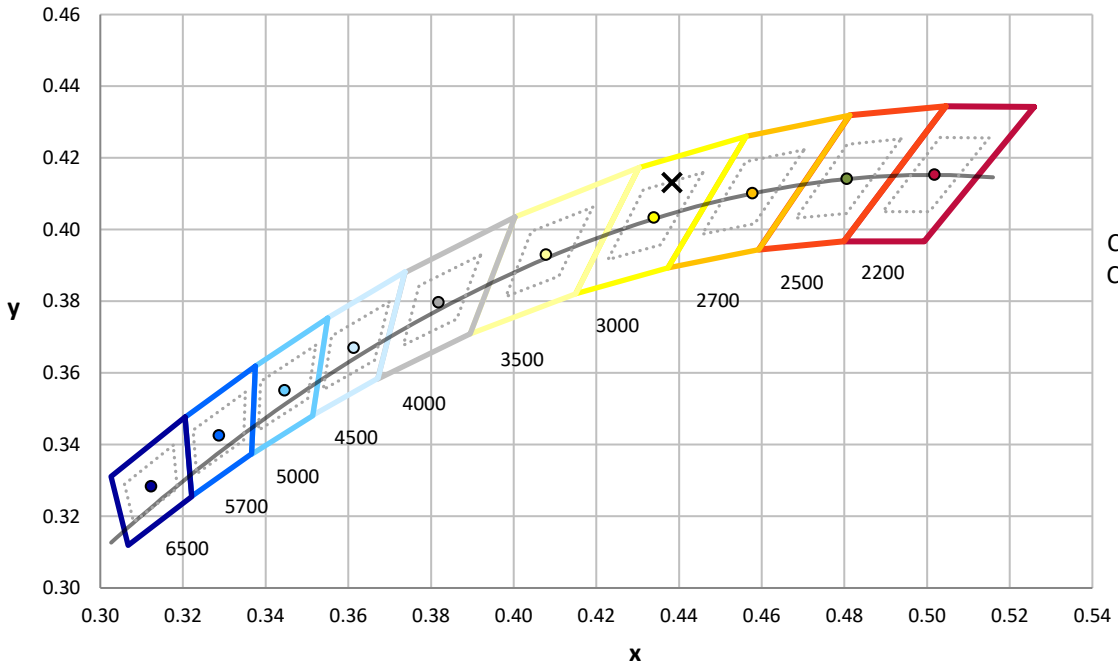
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

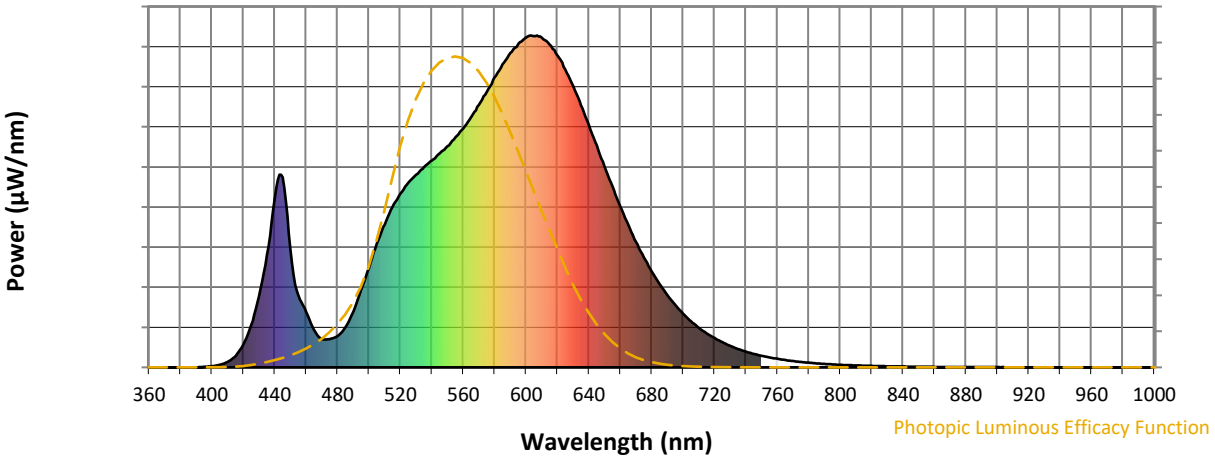


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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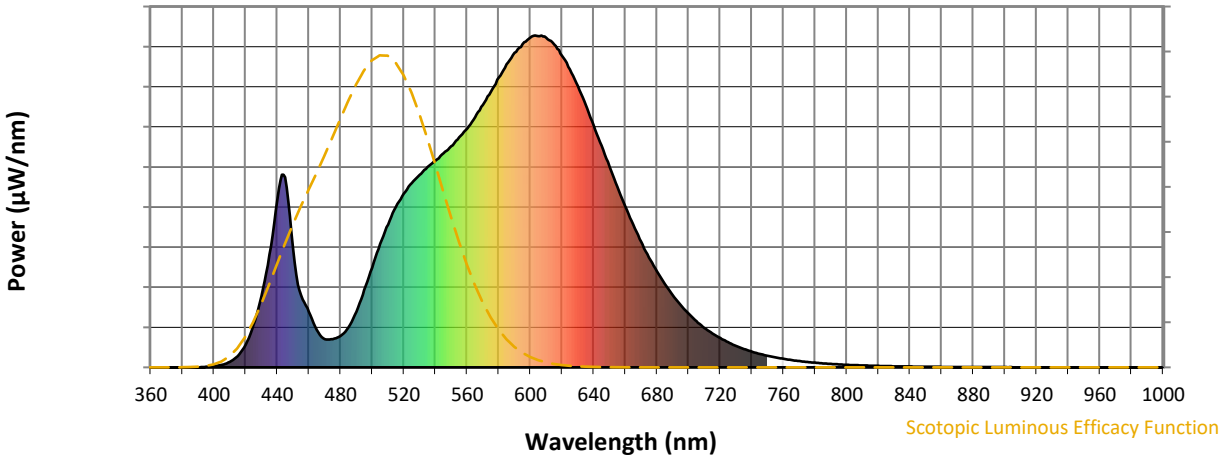
Scotopic Flux vs. Wavelength



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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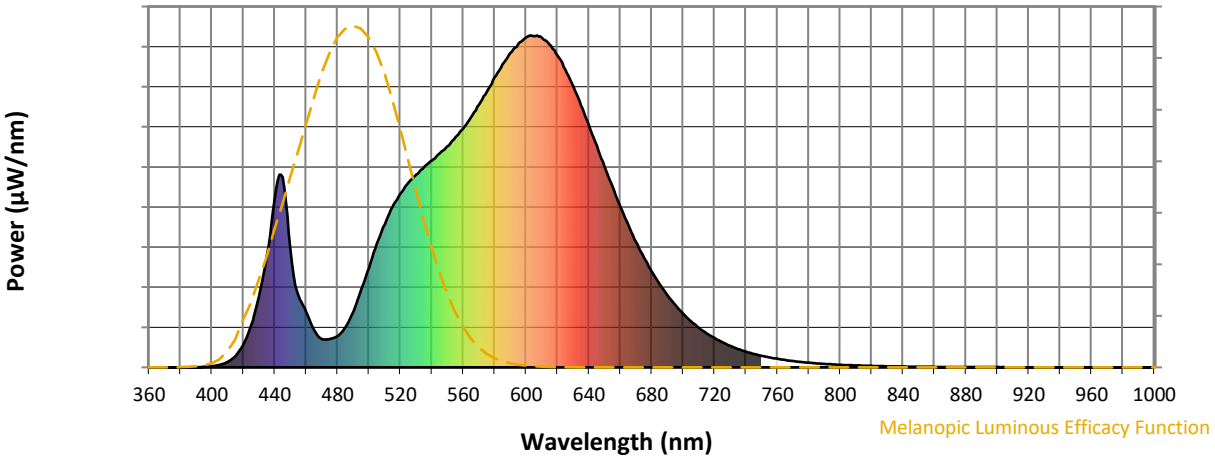
Melanopic Flux vs. Wavelength



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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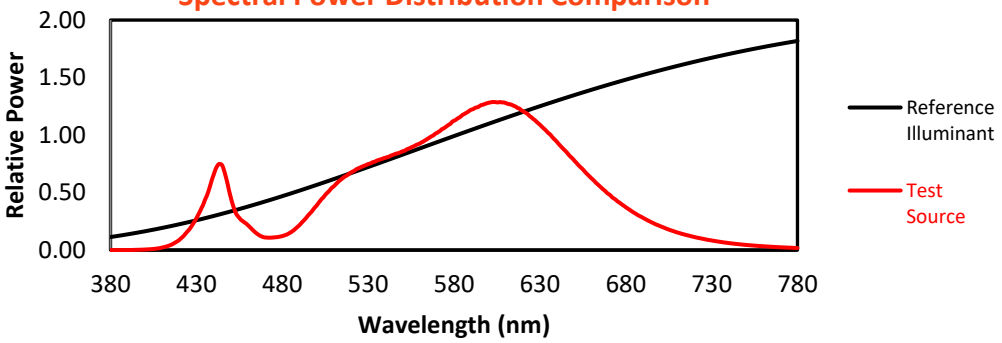
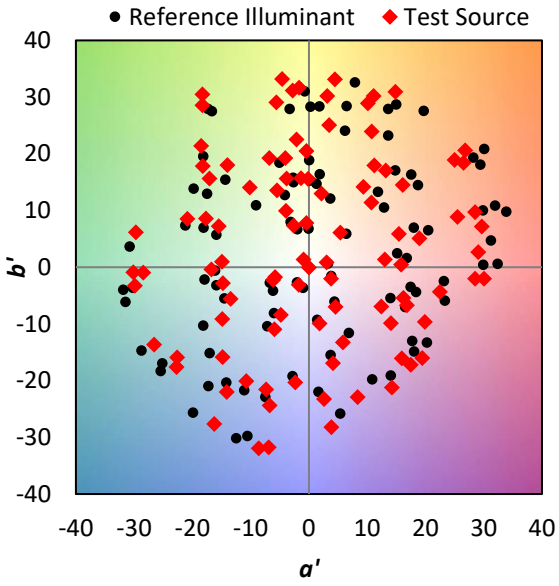
Summary

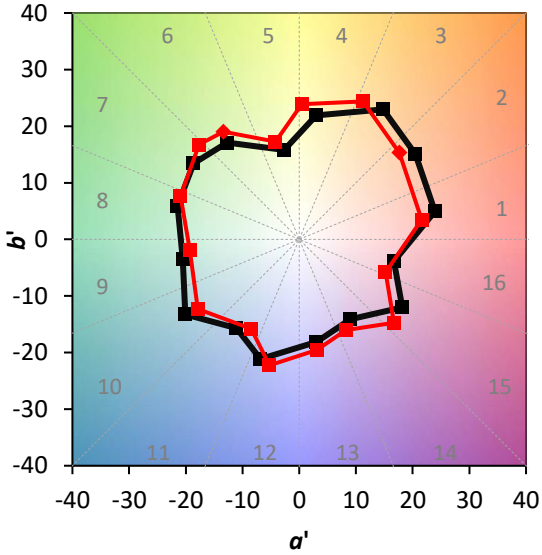
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

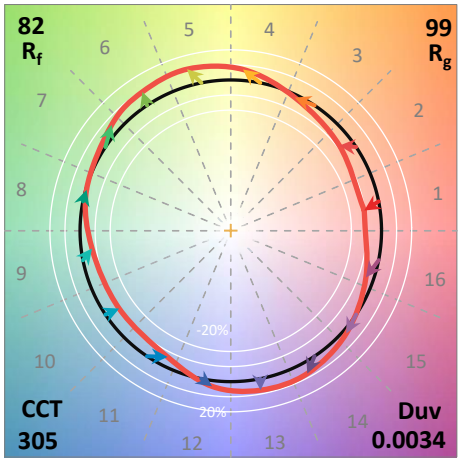
Spectral Power Distribution Comparison

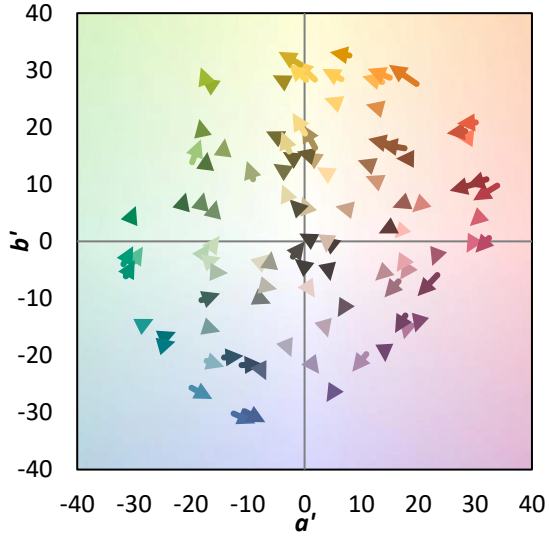


Color Vector Graphics









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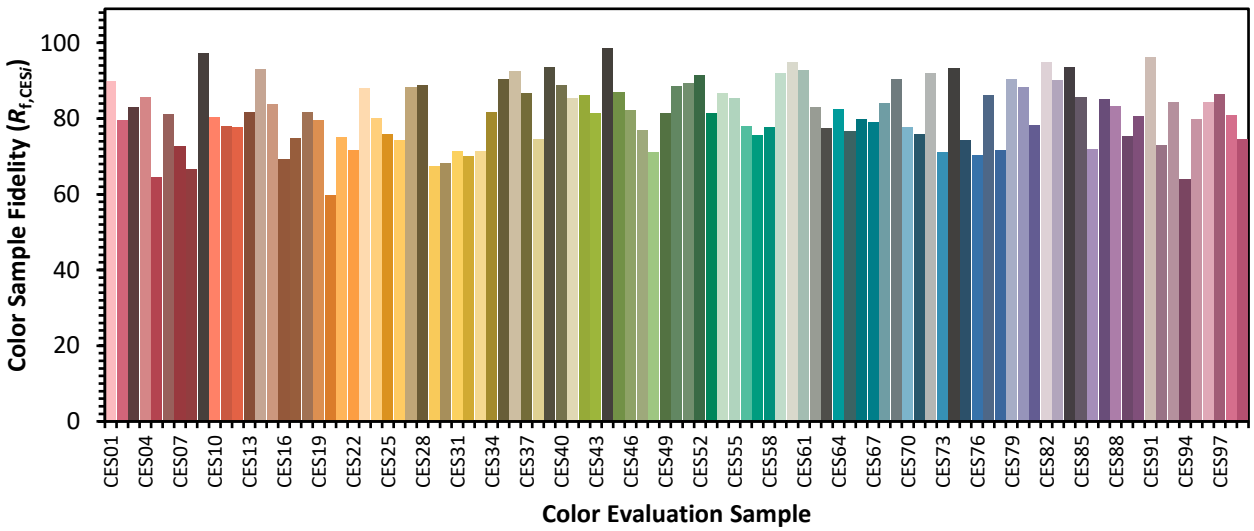
Individual Sample Fidelity Index ($R_{f,i}$)

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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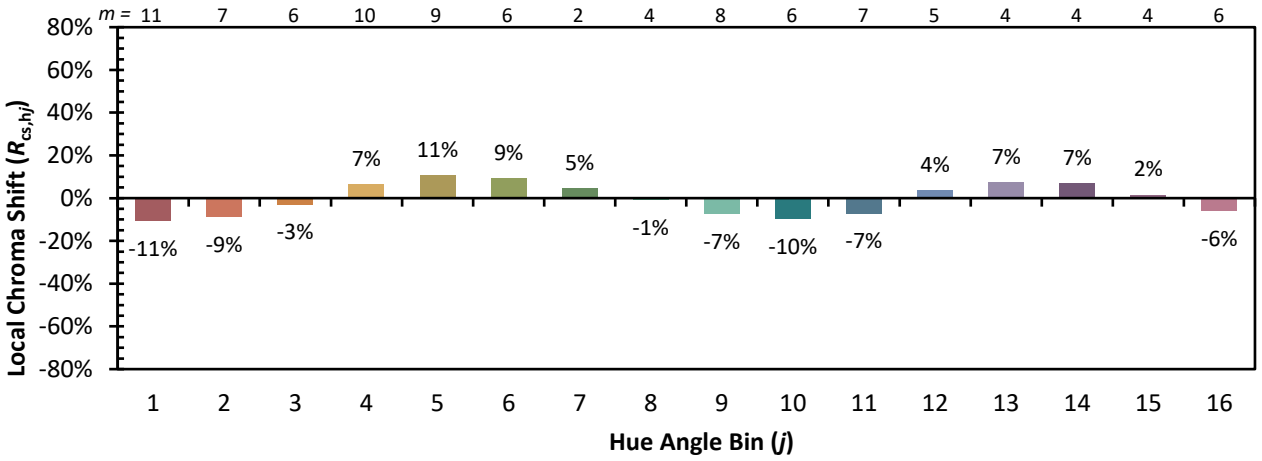
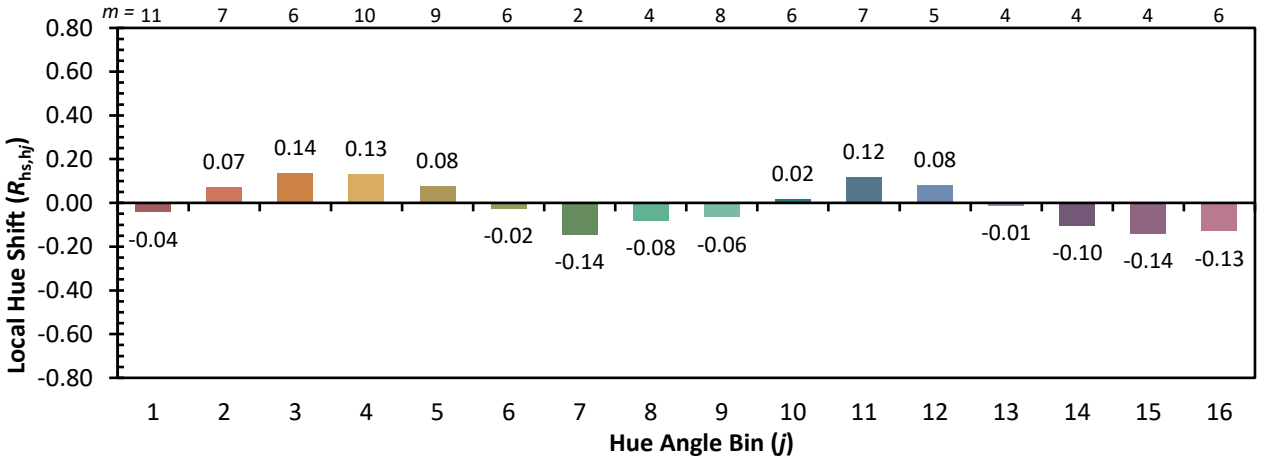
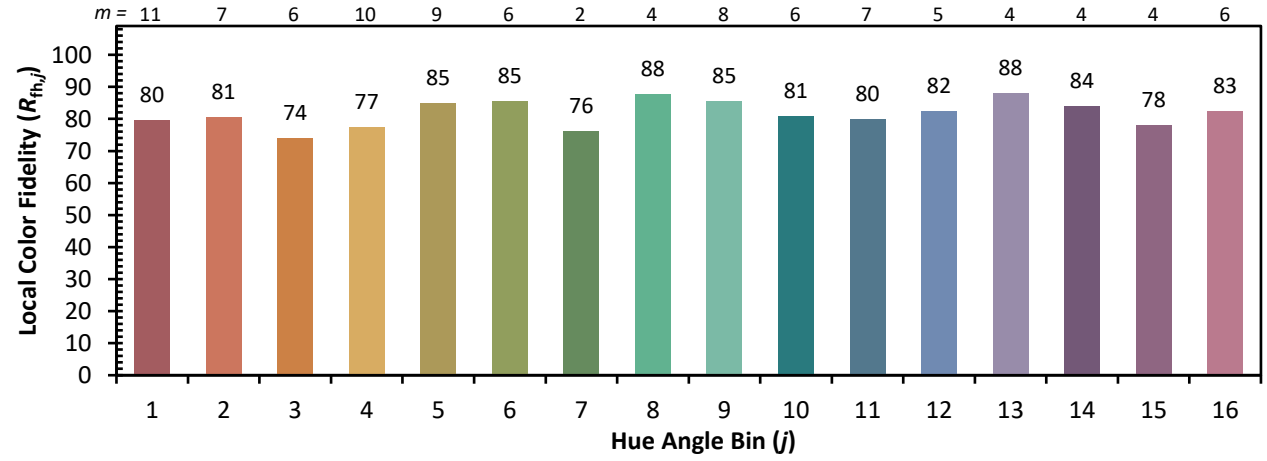
Color Rendition by Hue-Angle Bin







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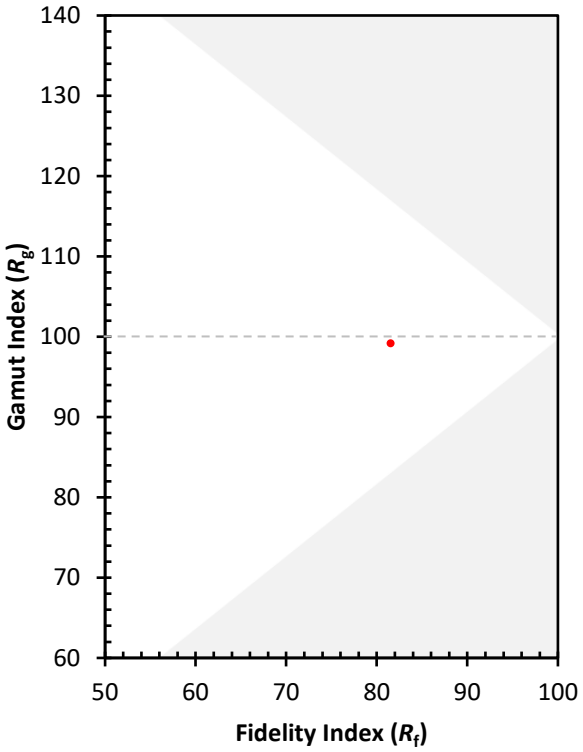
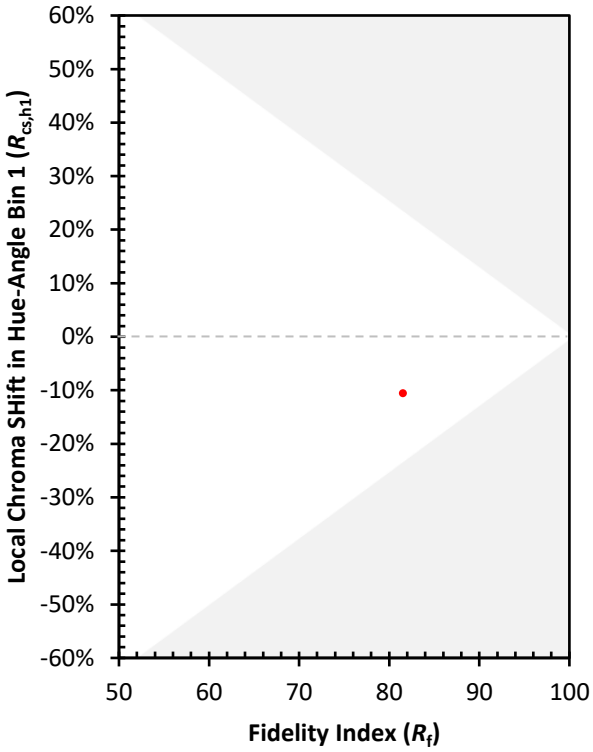
Measure Comparisons





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