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: P637506

Luminaire Tested: GWS-SA4C-830-U-T3-W-GRSBK

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:	P637506
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-T3-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9522.3 lumens
Efficiency:	N/A
Efficacy:	74.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	128.5
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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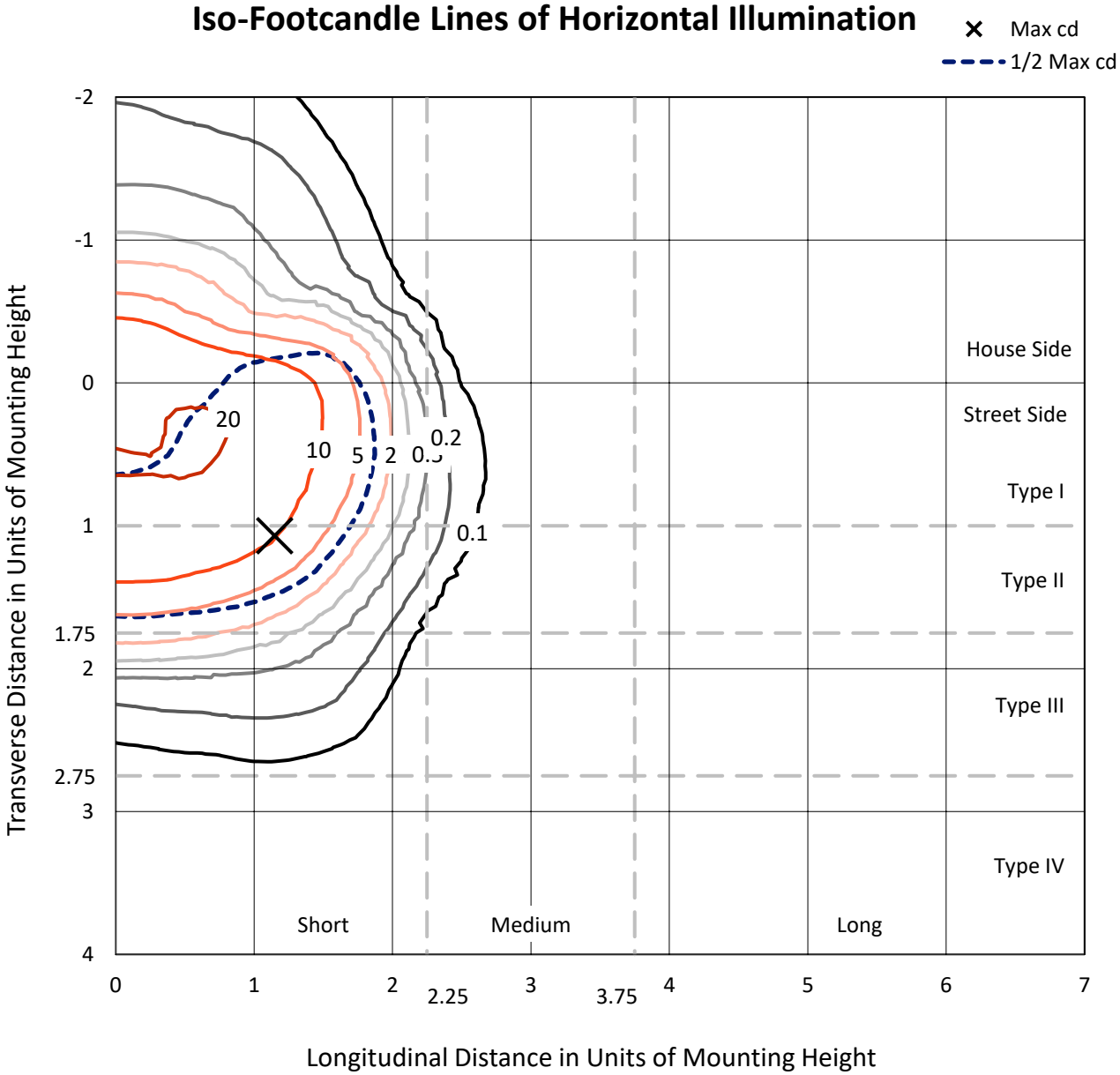
Scaled Data Report

REPORT NUMBER: P637506
CATALOG NUMBER: GWS-SA4C-830-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
Type II - Short - N/A

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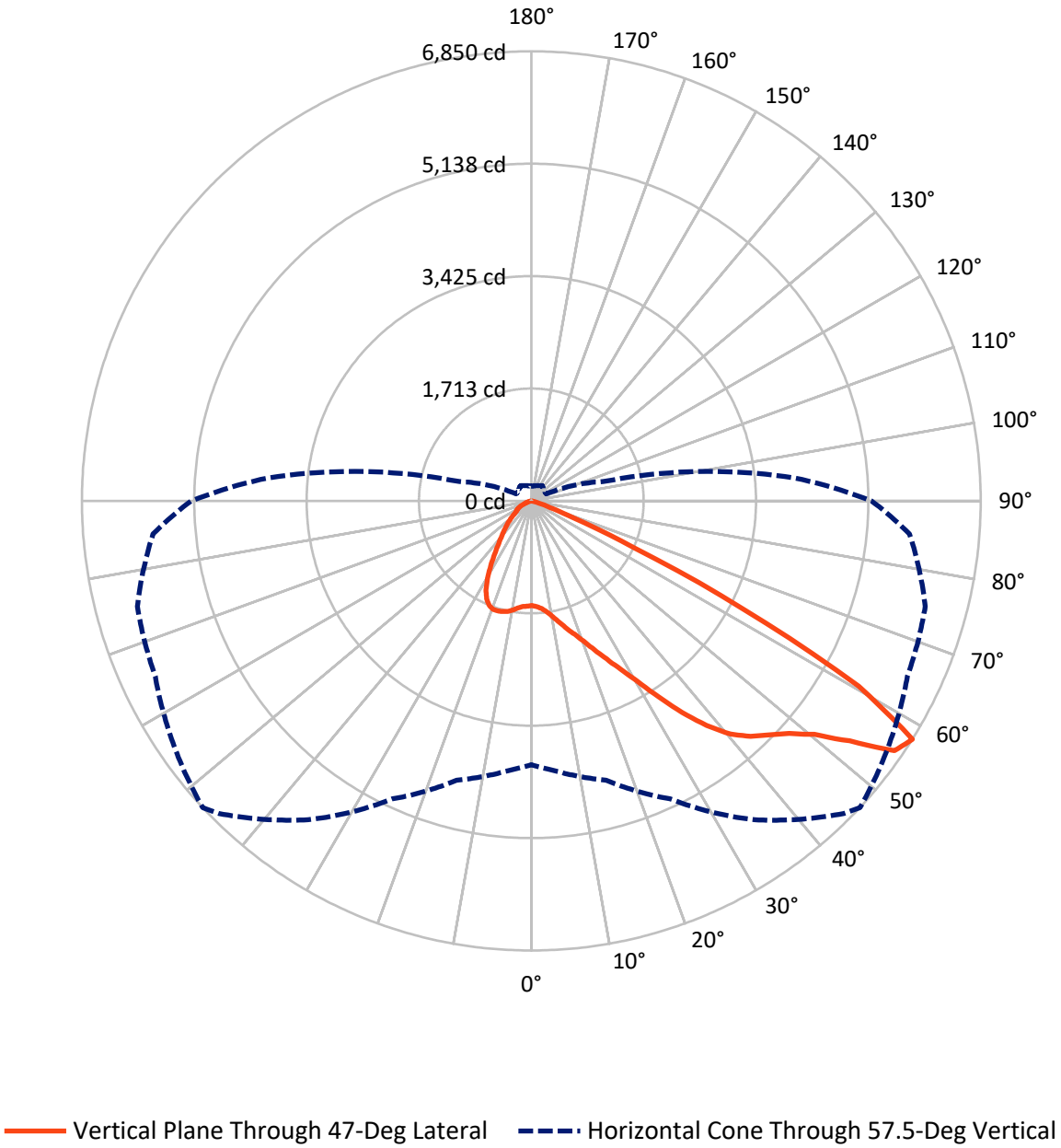
Luminous Intensity Polar Plot



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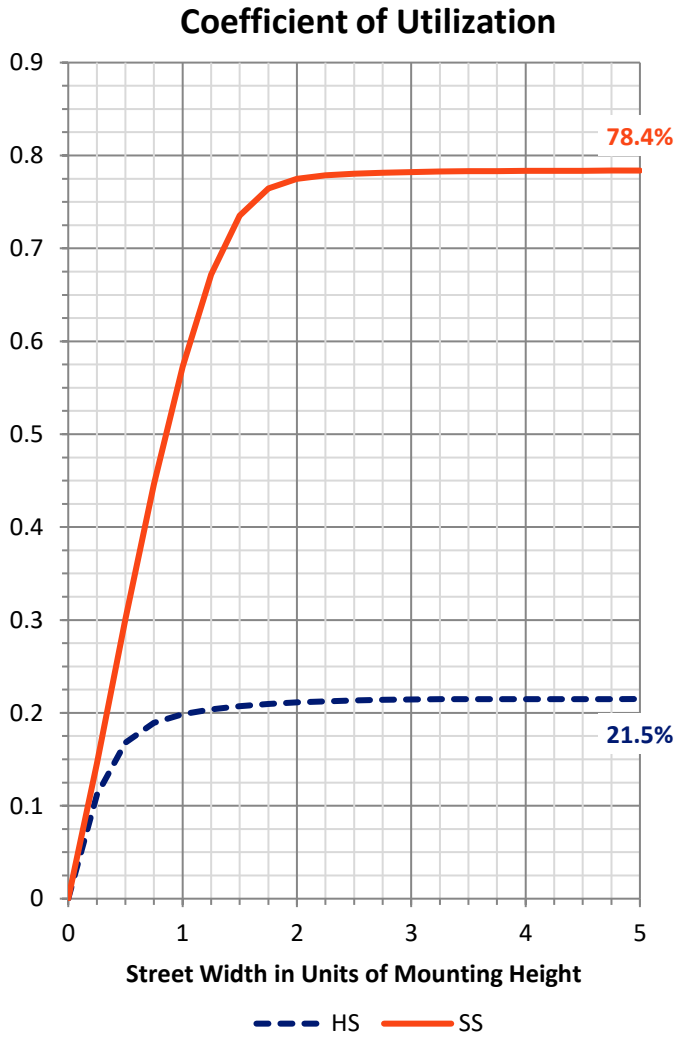
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.8	0.0	2065.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7456.4	0.0	7456.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	9522.3	0.0	9522.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	1.7
10°-20°	535.1	5.6
20°-30°	993.6	10.4
30°-40°	1590.5	16.7
40°-50°	2325.0	24.4
50°-60°	2869.5	30.1
60°-70°	958.8	10.1
70°-80°	89.3	0.9
80°-90°	1.8	0.0
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°	9522.3	100.0
0°-180°	9522.3	100.0



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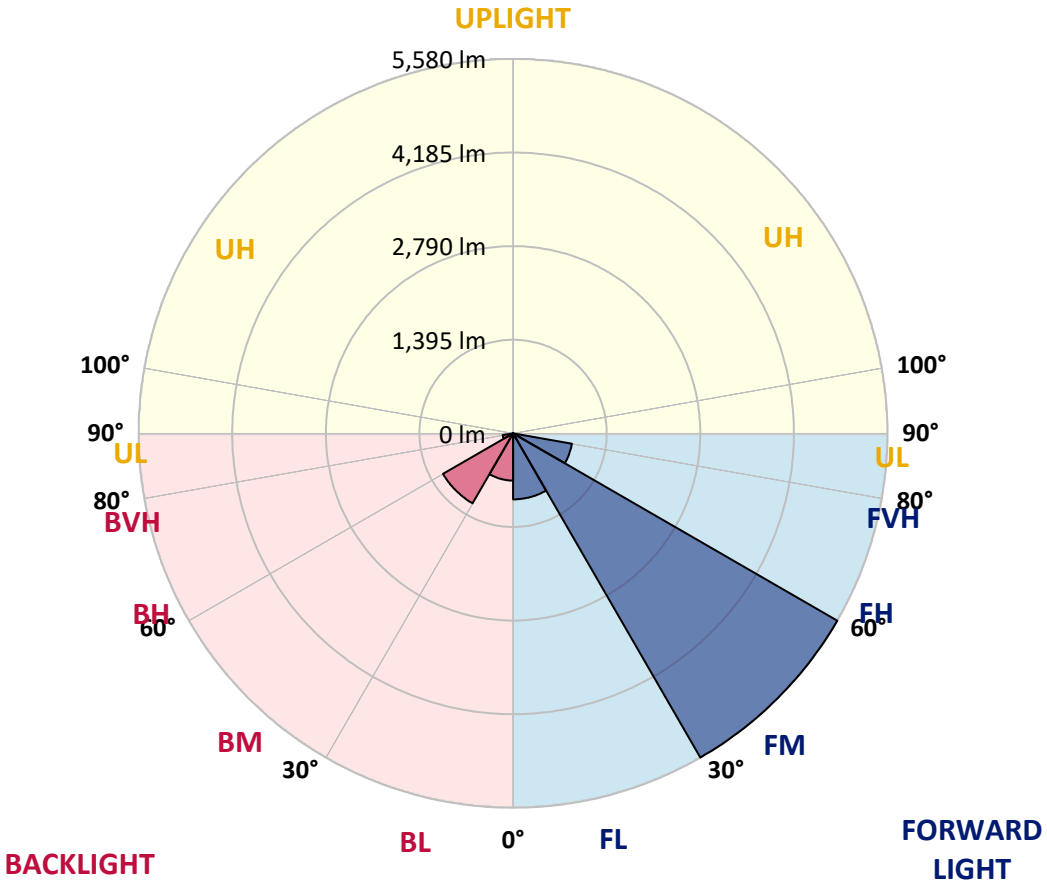
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	984.1	10.3			
FM	(30°-60°)	5580.0	58.6			
FH	(60°-80°)	891.1	9.4			G1/1800
FVH	(80°-90°)	1.3	0.0			G0/10
BL	(0°-30°)	703.2	7.4	B2/1000		
BM	(30°-60°)	1205.0	12.7	B2/2500		
BH	(60°-80°)	157.1	1.6	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P637506
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	*1594.0*	1594.0	1594.0	1594.0	1594.0
2.5°	1610.6	1609.5	1608.4	1615.0	1612.8	1611.7	*1613.9*	1613.9	1613.9	1607.3	1594.0
5°	1649.3	1649.3	1648.2	1654.8	1649.3	1646.0	*1647.1*	1647.1	1642.7	1630.5	1613.9
7.5°	1710.1	1707.9	1705.7	1712.3	1706.8	1705.7	*1707.9*	1701.3	1693.5	1673.6	1650.4
10°	1797.4	1797.4	1794.1	1800.8	1796.3	1794.1	*1794.1*	1789.7	1775.3	1744.4	1710.1
12.5°	1917.9	1912.4	1904.7	1899.1	1896.9	1895.8	*1896.9*	1890.3	1874.8	1835.0	1787.5
15°	2049.5	2045.1	2032.9	2024.1	2011.9	2009.7	*2016.3*	2010.8	1995.3	1941.2	1873.7
17.5°	2215.3	2220.8	2189.9	2171.1	2135.7	2133.5	*2135.7*	2144.6	2133.5	2063.9	1965.5
20°	2356.8	2361.2	2338.0	2324.7	2292.7	2278.3	*2282.7*	2297.1	2284.9	2203.1	2066.1
22.5°	2508.2	2513.8	2489.4	2461.8	2447.4	2447.4	*2464.0*	2483.9	2467.3	2360.1	2181.0
25°	2689.5	2694.0	2674.1	2637.6	2612.2	2644.2	*2668.5*	2721.6	2694.0	2548.0	2317.0
27.5°	2897.4	2898.5	2869.7	2832.1	2818.9	2878.6	*2902.9*	2984.7	2973.6	2759.2	2460.7
30°	3119.5	3120.7	3114.0	3088.6	3076.4	3154.9	*3188.1*	3306.4	3298.6	3021.2	2656.4
32.5°	3350.6	3350.6	3362.7	3360.5	3374.9	3503.1	*3556.2*	3691.1	3683.3	3341.7	2899.6
35°	3582.7	3583.8	3604.8	3657.9	3717.6	3887.8	*3957.5*	4121.1	4103.4	3725.3	3210.2
37.5°	3846.9	3835.9	3864.6	3944.2	4076.9	4273.6	*4340.0*	4495.8	4475.9	4117.8	3615.9
40°	4165.3	4145.4	4145.4	4238.3	4388.6	4615.2	*4671.6*	4749.0	4681.5	4435.0	4013.8
42.5°	4516.8	4498.0	4473.7	4555.5	4681.5	4858.4	*4904.8*	4883.8	4828.6	4734.6	4467.1
45°	4872.8	4844.0	4860.6	4910.4	4983.3	5067.3	*5085.0*	4987.7	4962.3	4988.8	4841.8
47.5°	5143.6	5123.7	5164.6	5234.3	5293.9	5306.1	*5293.9*	5159.1	5156.9	5250.8	5101.6
50°	5234.3	5236.5	5349.2	5501.8	5597.9	5607.9	*5591.3*	5436.5	5415.5	5443.2	5242.0
52.5°	5243.1	5251.9	5416.7	5707.4	5969.4	6088.8	*6075.5*	5908.6	5703.0	5673.1	5454.2
55°	5029.7	5081.7	5311.6	5736.1	6293.3	6674.6	*6718.9*	6399.4	6094.3	6068.9	5910.8
57.5°	*4020.5*	*4126.6*	*4404.1*	*5008.7*	*5931.8*	*6735.4*	*6850.4*	*6620.5*	*6325.3*	*6217.0*	*5788.1*
60°	2403.2	2534.8	2801.2	3542.9	4514.6	5536.0	*5733.9*	5766.0	5630.0	5317.2	4440.5
62.5°	1031.4	1020.3	1348.6	1916.8	2685.1	3518.6	*3608.2*	3747.4	3865.7	3538.5	2695.1
65°	353.7	384.7	535.0	864.5	1344.2	1633.8	*1713.4*	1838.3	2006.4	1655.9	987.2
67.5°	218.9	232.1	308.4	510.7	725.2	714.1	*678.7*	658.8	641.2	438.9	270.8
70°	159.2	170.2	216.7	351.5	487.5	342.7	*297.4*	241.0	267.5	246.5	192.3
72.5°	107.2	116.1	149.2	213.3	249.8	166.9	*154.8*	175.8	212.2	202.3	157.0
75°	64.1	69.6	85.1	103.9	101.7	86.2	*87.3*	123.8	162.5	151.4	111.6
77.5°	44.2	46.4	56.4	67.4	49.7	26.5	*24.3*	34.3	55.3	55.3	37.6
80°	11.1	14.4	14.4	8.8	7.7	6.6	*6.6*	9.9	15.5	11.1	5.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	*1.1*	2.2	2.2	2.2	2.2
85°	0.0	0.0	1.1	1.1	1.1	1.1	*1.1*	1.1	2.2	2.2	2.2
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	*1.1*	1.1	1.1	2.2	2.2
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: P637506
CATALOG NUMBER: GWS-SA4C-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0
2.5°	1601.8	1588.5	1597.4	1595.1	1601.8	1604.0	1594.0	1591.8	1592.9	1579.7	1575.3
5°	1617.3	1601.8	1606.2	1601.8	1609.5	1616.2	1612.8	1617.3	1622.8	1612.8	1608.4
7.5°	1650.4	1634.9	1633.8	1627.2	1638.3	1642.7	1641.6	1653.7	1664.8	1658.2	1651.5
10°	1707.9	1686.9	1684.7	1679.2	1682.5	1685.8	1673.6	1675.8	1685.8	1678.1	1674.7
12.5°	1778.7	1753.2	1747.7	1734.4	1734.4	1717.9	1691.3	1685.8	1693.5	1688.0	1682.5
15°	1854.9	1820.7	1811.8	1788.6	1766.5	1735.5	1707.9	1701.3	1706.8	1700.2	1695.7
17.5°	1940.0	1901.4	1872.6	1831.7	1783.1	1746.6	1715.6	1701.3	1692.4	1679.2	1678.1
20°	2024.1	1973.2	1924.6	1859.3	1795.2	1740.0	1689.1	1651.5	1619.5	1599.6	1591.8
22.5°	2121.3	2046.2	1967.7	1875.9	1784.2	1700.2	1610.6	1546.5	1491.2	1472.4	1463.6
25°	2225.2	2128.0	2010.8	1891.4	1746.6	1611.7	1490.1	1395.1	1322.1	1297.8	1287.8
27.5°	2340.2	2206.5	2055.0	1888.1	1669.2	1485.7	1324.3	1206.0	1134.2	1112.1	1119.8
30°	2486.1	2308.2	2110.3	1853.8	1553.1	1308.8	1119.8	1020.3	966.2	945.2	946.3
32.5°	2680.7	2454.1	2191.0	1780.9	1403.9	1107.7	941.8	868.9	832.4	804.8	802.5
35°	2959.3	2676.3	2266.2	1663.7	1222.6	928.6	808.1	750.6	699.7	667.7	673.2
37.5°	3293.1	2955.9	2307.1	1505.6	1019.2	789.3	707.5	648.9	591.4	543.9	549.4
40°	3688.9	3321.8	2303.7	1297.8	833.5	694.2	623.5	554.9	483.1	440.0	444.4
42.5°	4129.9	3667.8	2231.9	1077.8	690.9	616.8	542.8	456.5	386.9	360.4	361.5
45°	4512.4	3948.6	2105.9	850.1	581.5	541.7	458.8	370.3	339.4	320.6	319.5
47.5°	4795.4	4154.2	1925.7	668.8	493.0	473.1	377.0	331.6	307.3	291.8	289.6
50°	4953.5	4226.1	1726.7	524.0	416.8	401.3	337.2	300.7	284.1	274.1	271.9
52.5°	5165.7	4312.3	1584.1	413.4	349.3	328.3	310.6	279.7	268.6	260.9	257.6
55°	5501.8	4479.2	1460.3	328.3	290.7	286.3	292.9	267.5	260.9	248.7	244.3
57.5°	*5185.6*	*4023.8*	*1134.2*	*254.3*	*245.4*	*262.0*	*283.0*	*255.4*	*238.8*	*227.7*	*223.3*
60°	3649.1	2675.2	570.4	204.5	218.9	245.4	266.4	231.0	214.5	216.7	214.5
62.5°	2011.9	1338.7	256.5	171.3	190.1	216.7	227.7	200.1	189.0	207.8	211.1
65°	657.7	455.4	148.1	132.7	150.3	176.9	196.8	190.1	187.9	210.0	216.7
67.5°	202.3	150.3	100.6	95.1	103.9	130.4	165.8	205.6	221.1	227.7	231.0
70°	151.4	118.3	86.2	80.7	85.1	99.5	140.4	171.3	161.4	162.5	160.3
72.5°	121.6	94.0	74.1	70.7	70.7	68.5	74.1	92.9	105.0	110.5	110.5
75°	85.1	66.3	56.4	52.0	40.9	33.2	29.8	29.8	26.5	25.4	24.3
77.5°	28.7	24.3	22.1	17.7	12.2	9.9	8.8	7.7	5.5	3.3	2.2
80°	4.4	3.3	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
82.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
85°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	0.0	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

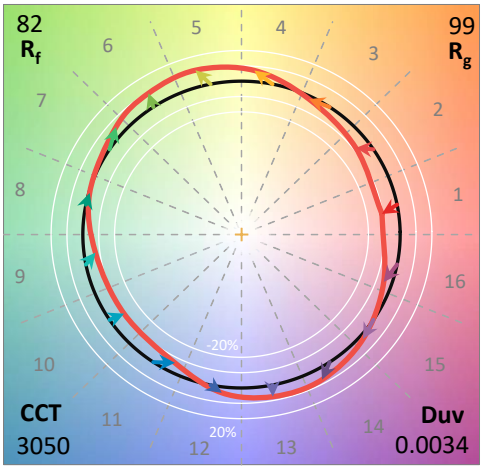
Test Information

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

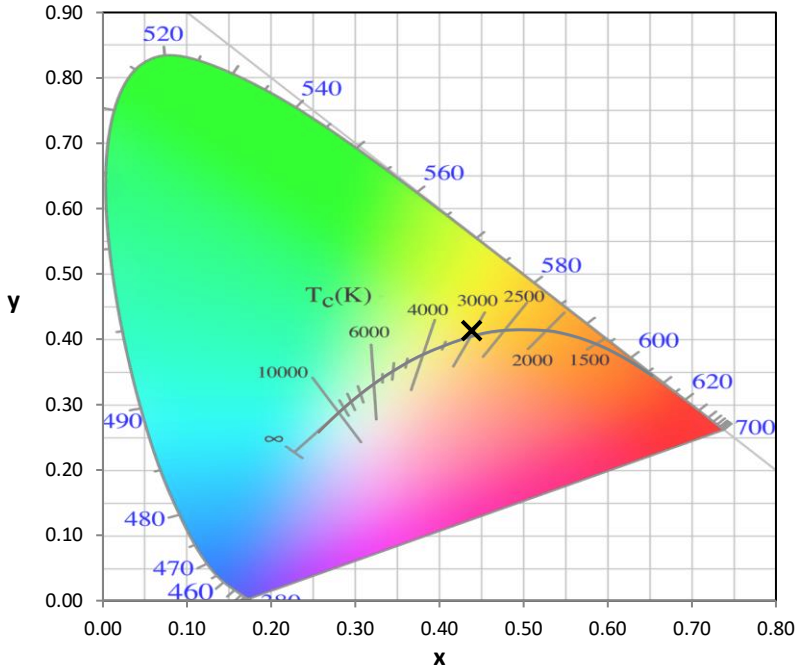
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

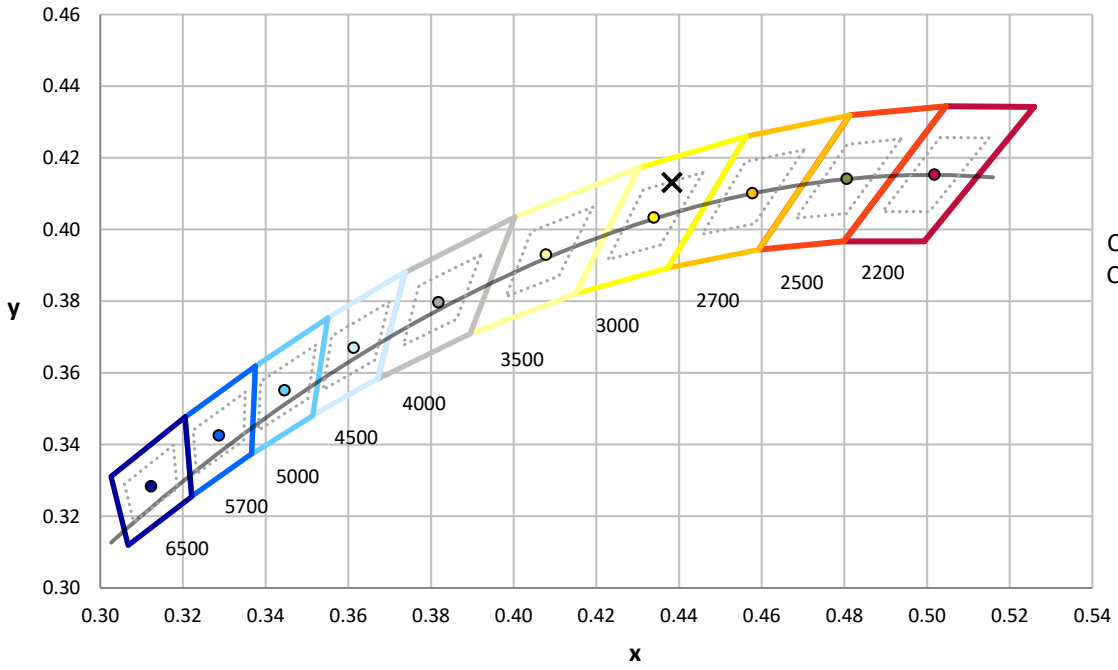
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

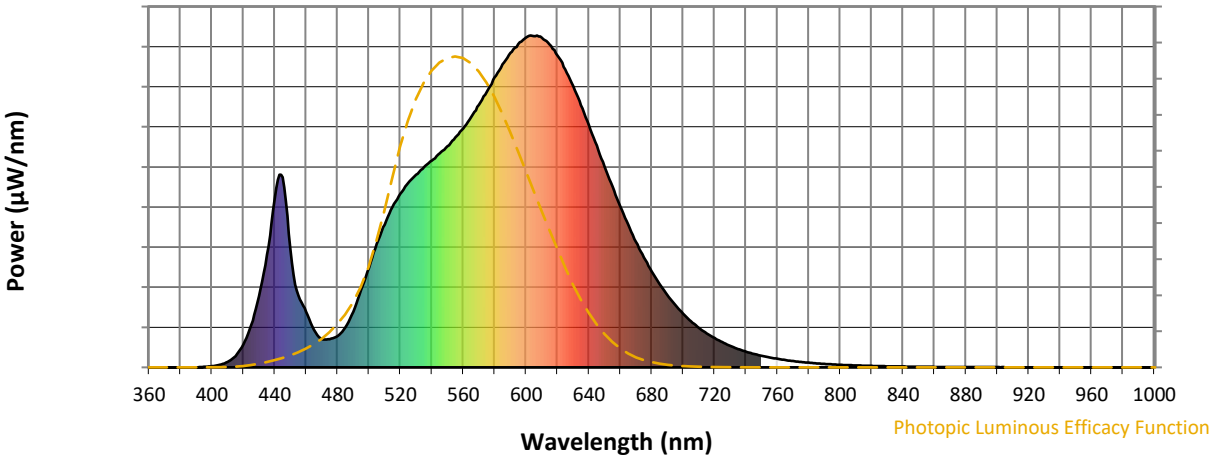


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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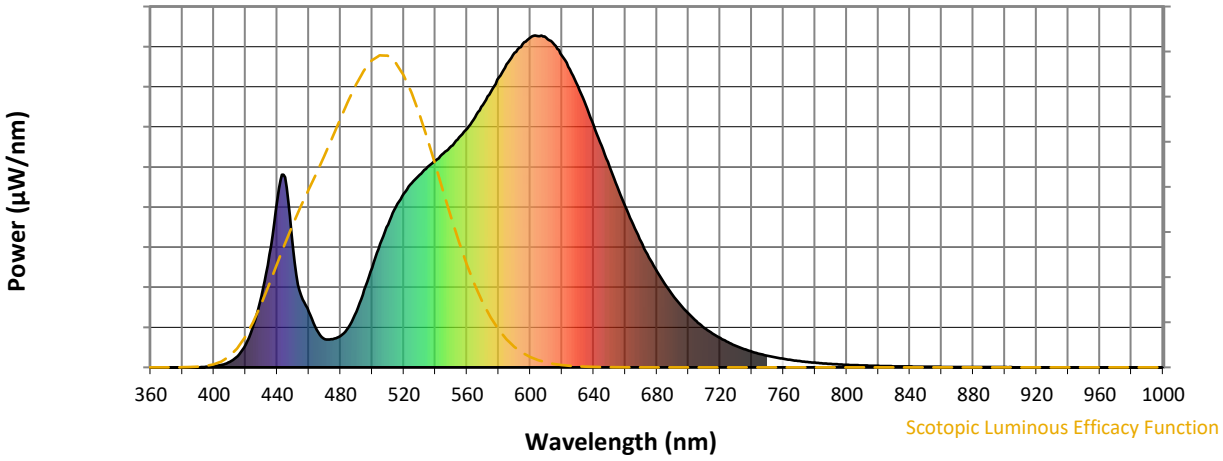
Scotopic Flux vs. Wavelength



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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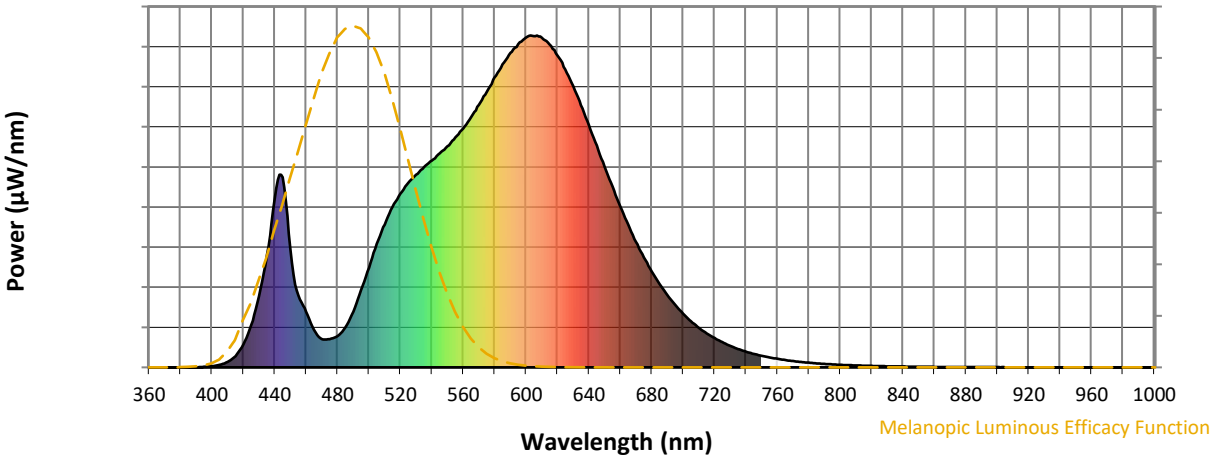
Melanopic Flux vs. Wavelength



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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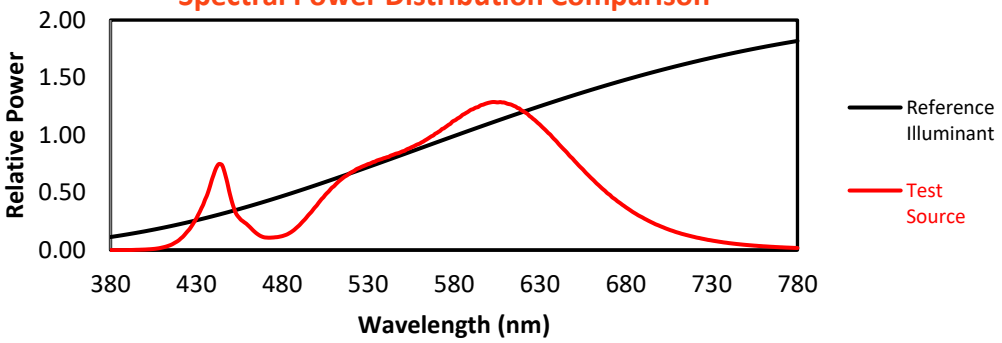
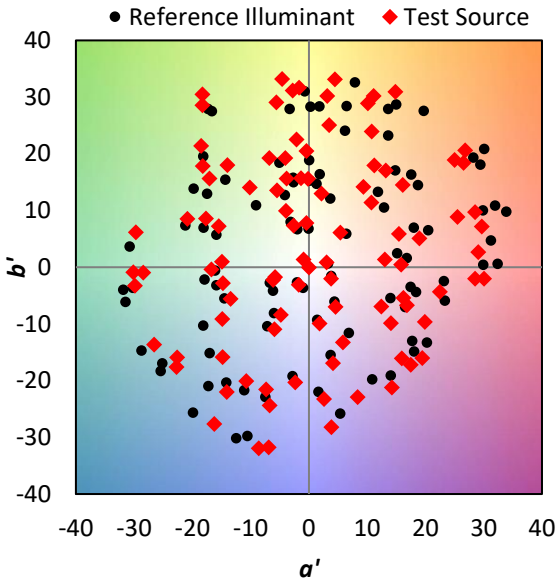
Summary

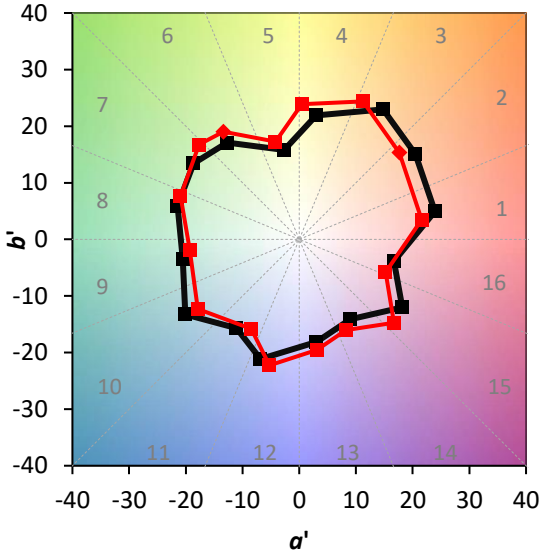
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

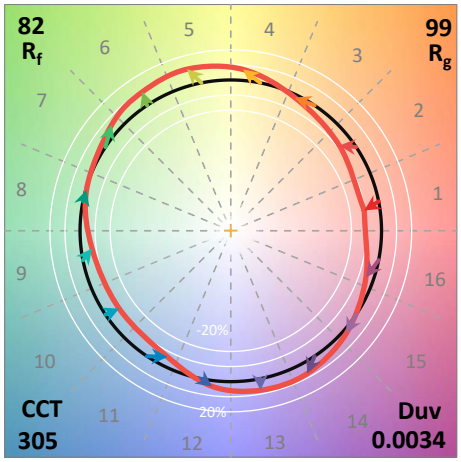
Spectral Power Distribution Comparison

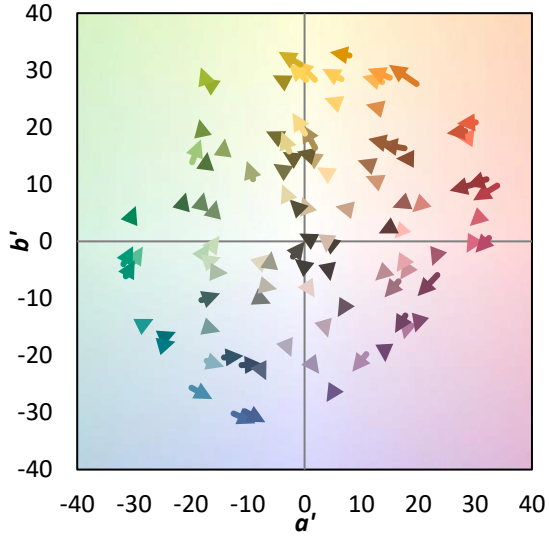


Color Vector Graphics









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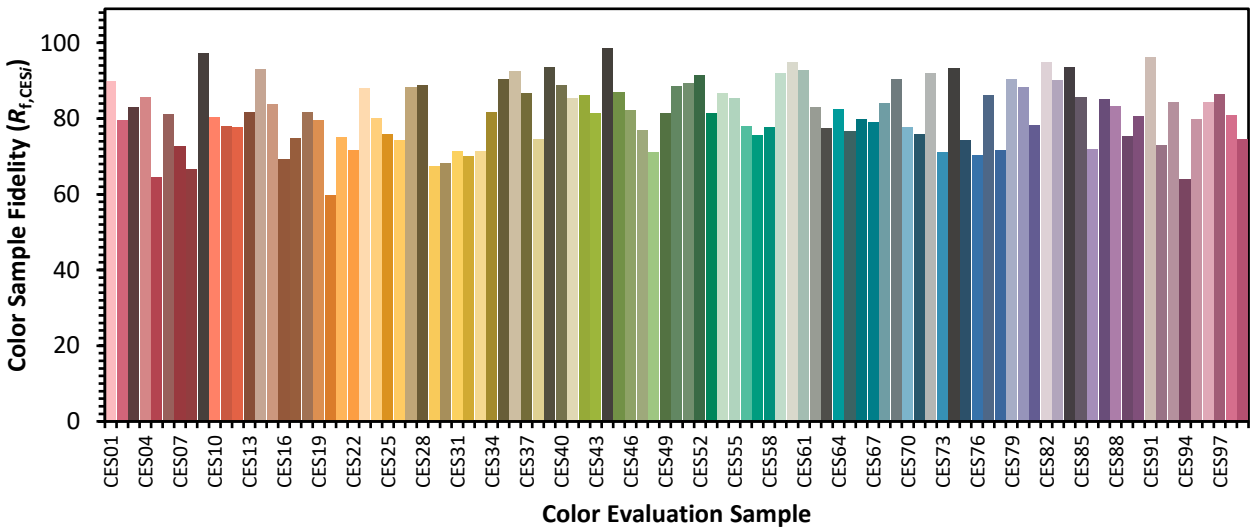
Individual Sample Fidelity Index ($R_{f,i}$)

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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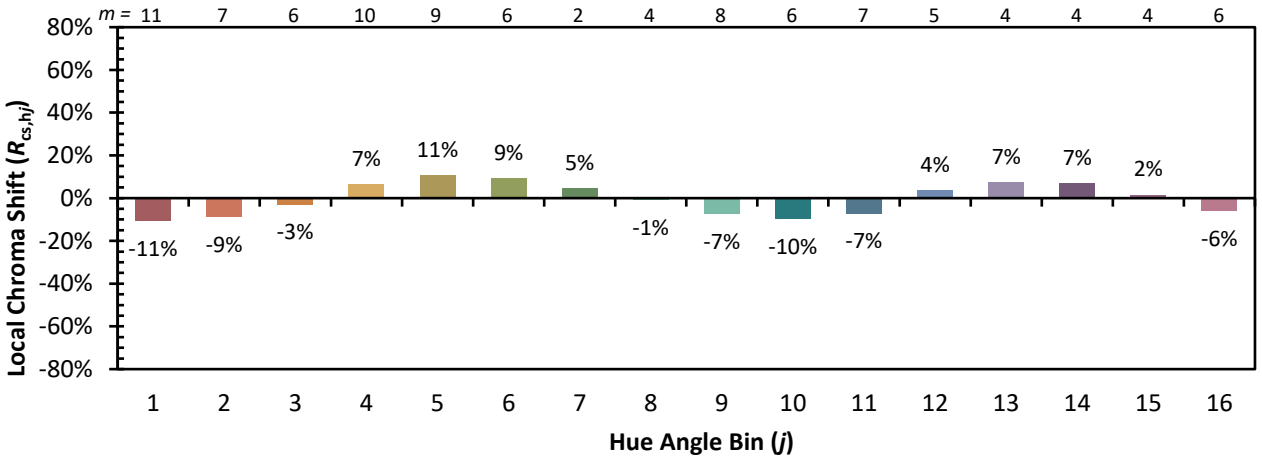
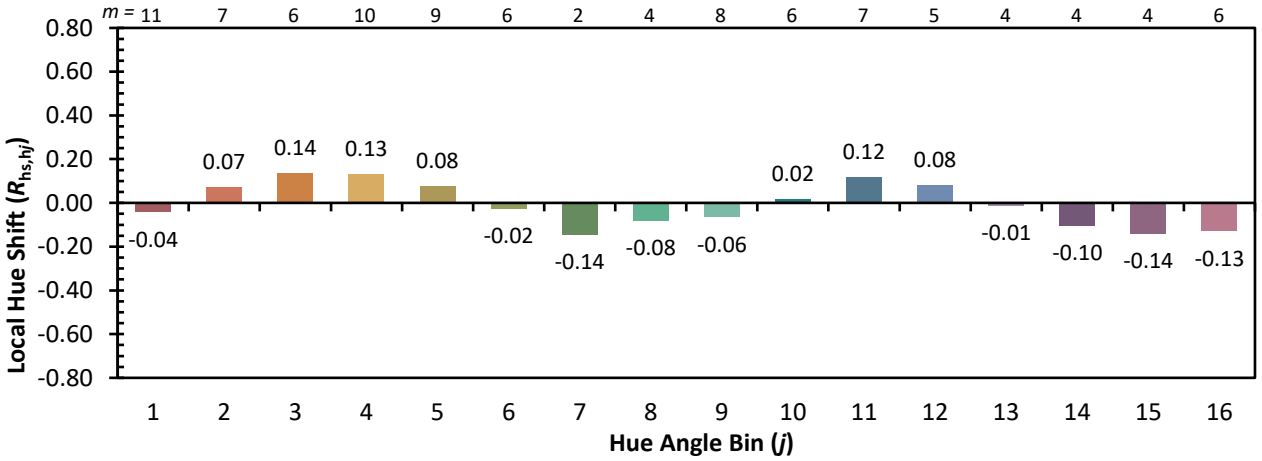
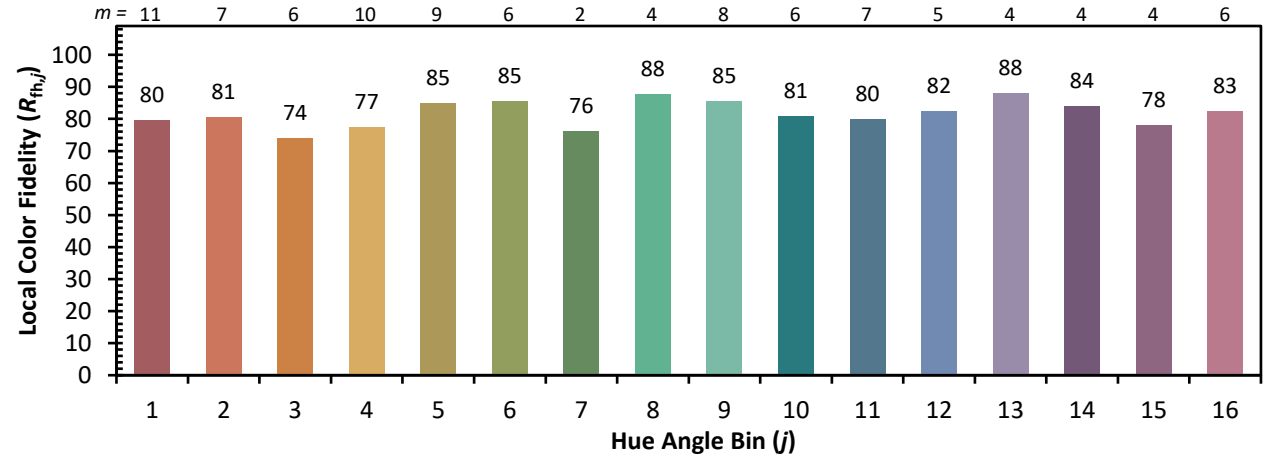
Color Rendition by Hue-Angle Bin







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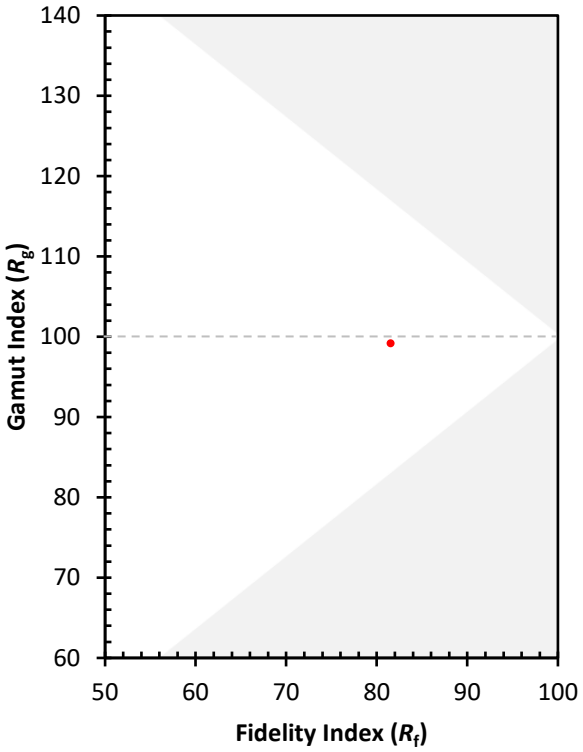
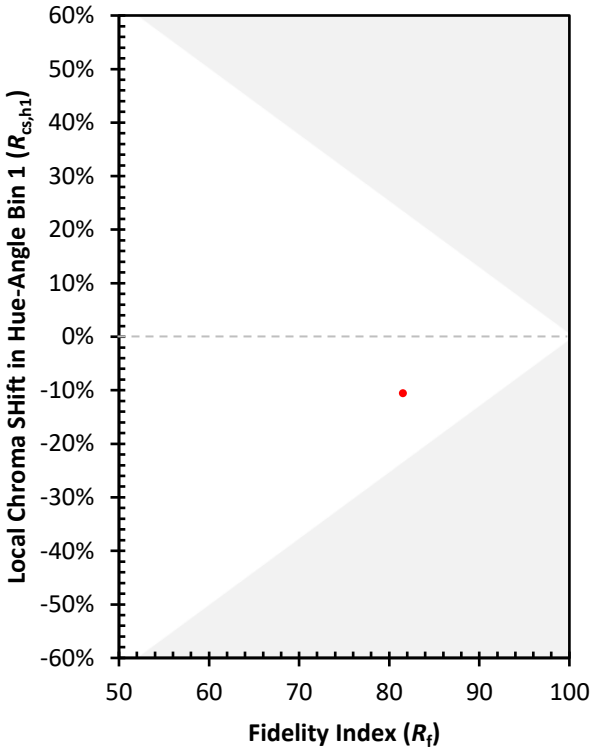
Measure Comparisons





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