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: P636026

Luminaire Tested: GWS-SA3E-830-U-T3R-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:	P636026
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-T3R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15316.4 lumens
Efficiency:	N/A
Efficacy:	96.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	159.2
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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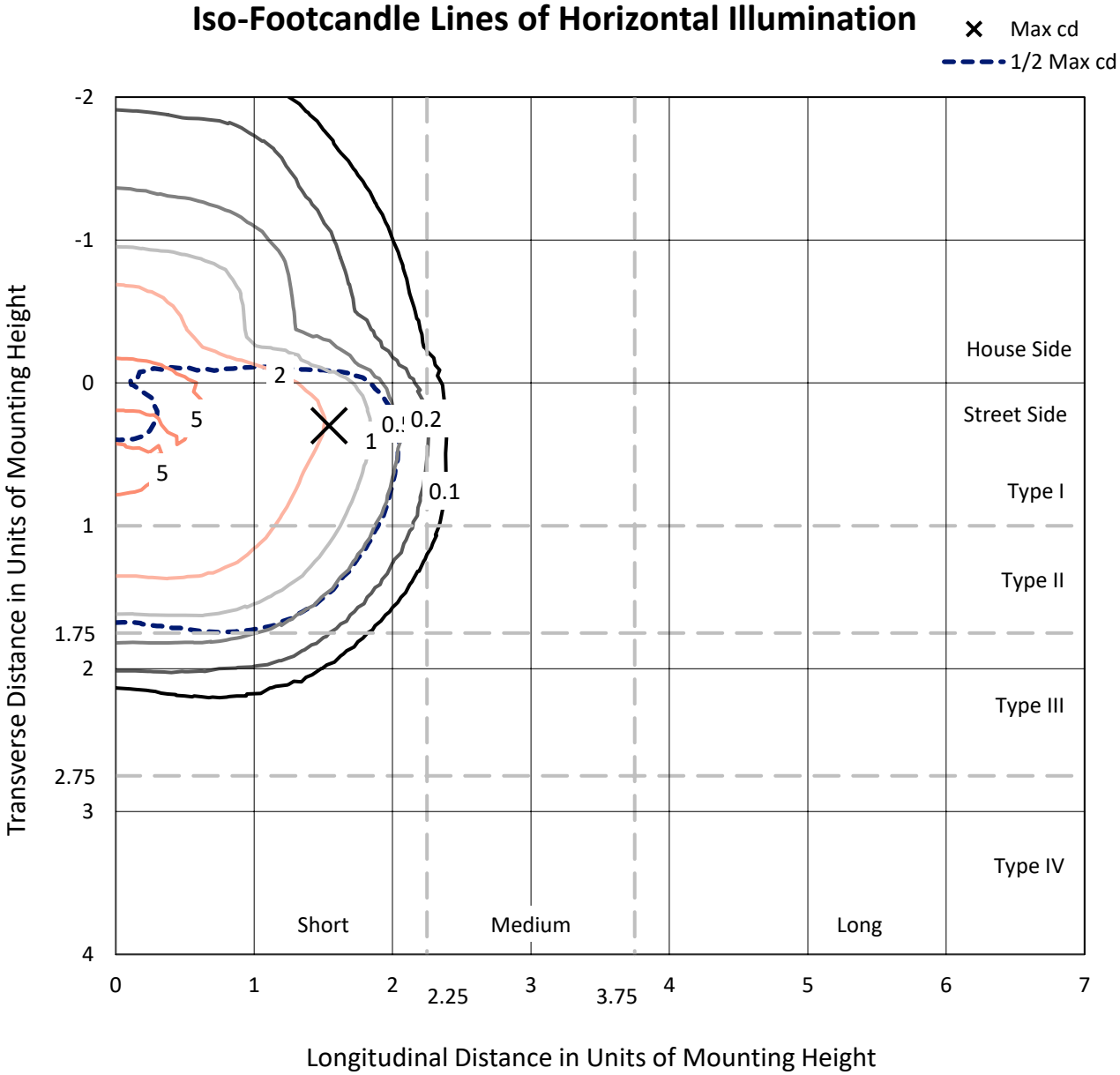
REPORT NUMBER: P636026
CATALOG NUMBER: GWS-SA3E-830-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

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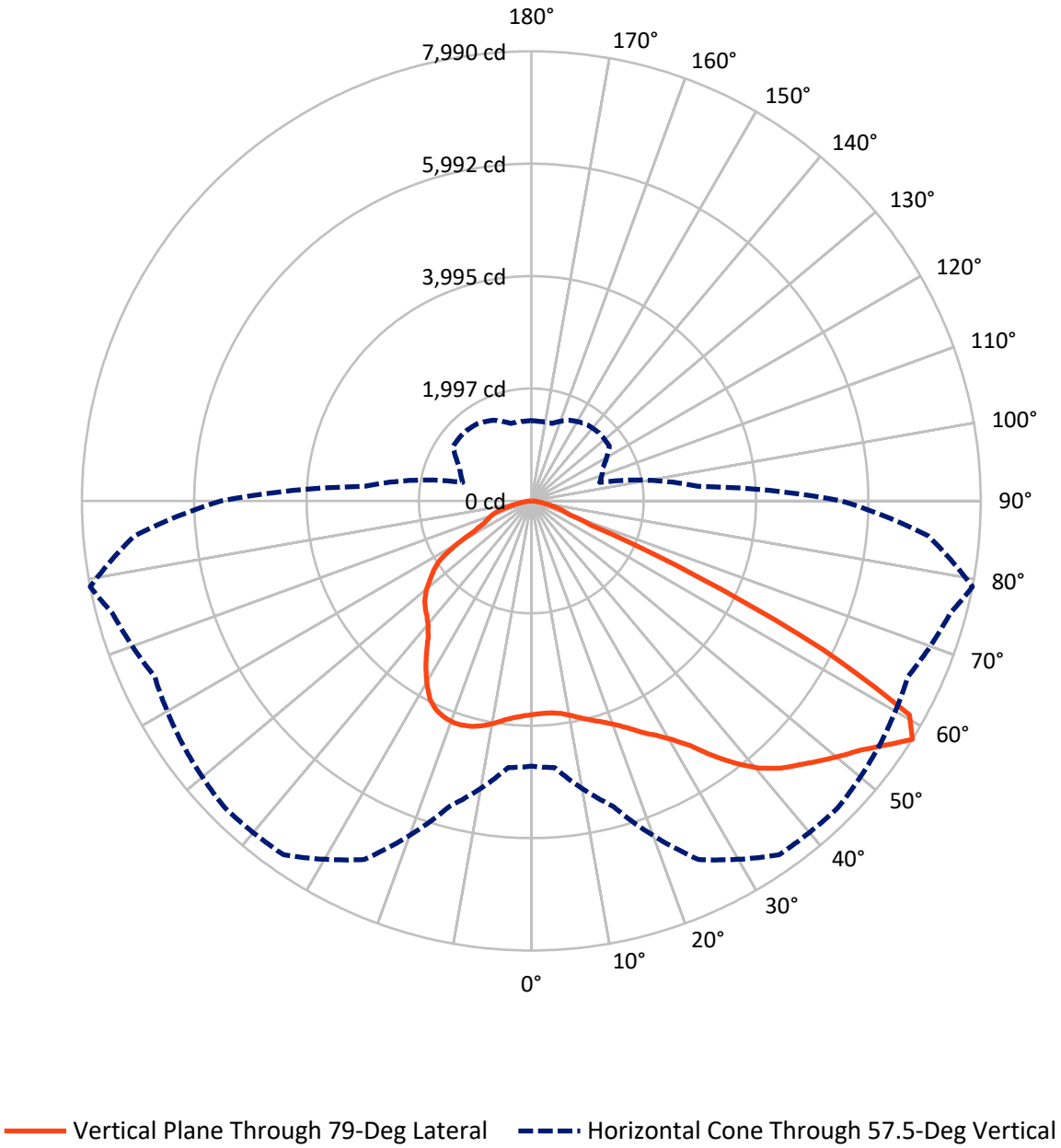
Luminous Intensity Polar Plot



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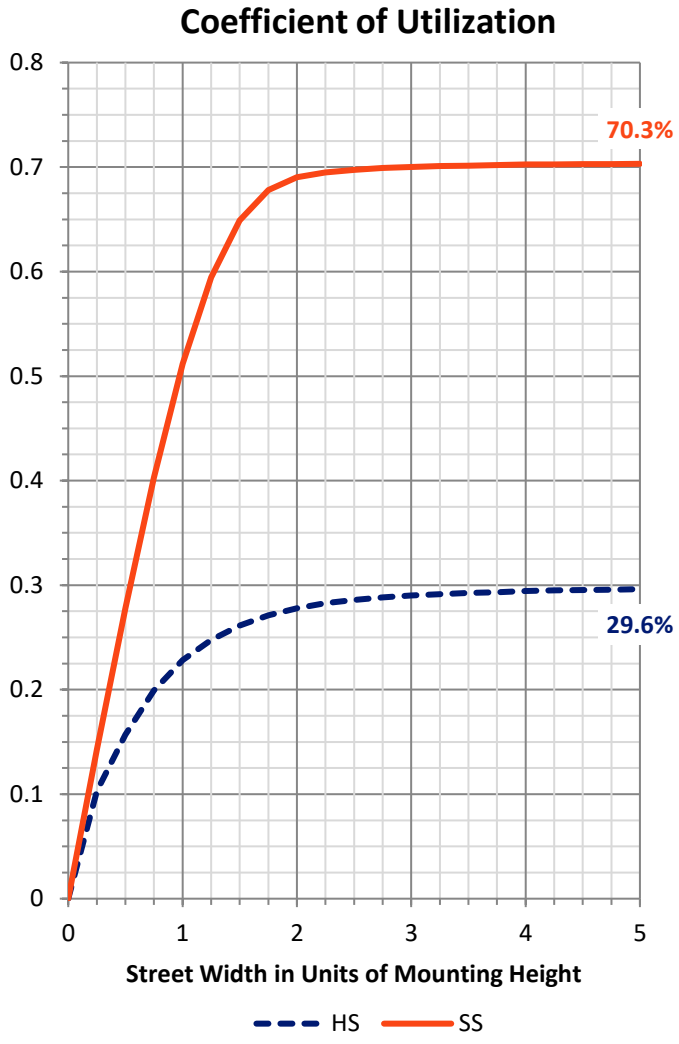
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4552.8	0.0	4552.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10763.5	0.0	10763.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	15316.4	0.0	15316.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.5	2.3
10°-20°	976.9	6.4
20°-30°	1655.8	10.8
30°-40°	2534.5	16.5
40°-50°	3379.5	22.1
50°-60°	3903.0	25.5
60°-70°	2028.2	13.2
70°-80°	431.1	2.8
80°-90°	55.8	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°	15316.4	100.0
0°-180°	15316.4	100.0



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REPORT NUMBER: P636026
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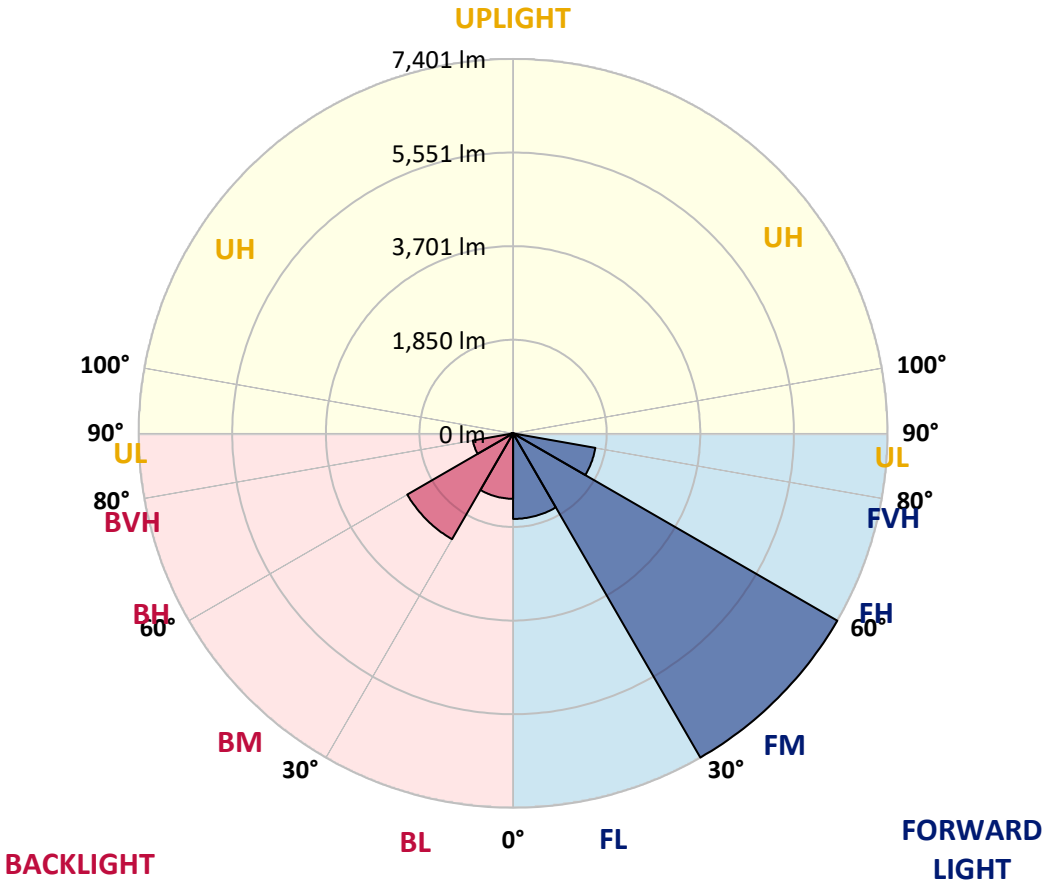
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1691.3	11.0			
FM	(30°-60°)	7401.3	48.3			
FH	(60°-80°)	1651.5	10.8			G1/1800
FVH	(80°-90°)	19.5	0.1			G1/100
BL	(0°-30°)	1293.0	8.4	B3/2500		
BM	(30°-60°)	2415.7	15.8	B2/2500		
BH	(60°-80°)	807.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P636026
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	*3795.8*	3795.8
2.5°	3622.9	3615.4	3617.9	3627.9	3665.5	3693.1	3721.9	3748.2	3773.2	*3780.7*	3787.0
5°	3494.0	3480.2	3483.9	3500.2	3544.0	3590.4	3641.7	3704.3	3764.5	*3784.5*	3810.8
7.5°	3402.5	3400.0	3406.3	3431.3	3477.7	3521.5	3587.9	3676.8	3780.7	*3814.5*	3860.9
10°	3281.1	3276.0	3301.1	3352.4	3428.8	3499.0	3577.9	3683.0	3828.3	*3878.4*	3949.8
12.5°	3184.6	3182.1	3208.4	3279.8	3377.5	3488.9	3597.9	3715.6	3892.2	*3961.1*	4048.7
15°	3241.0	3229.7	3231.0	3281.1	3368.7	3500.2	3648.0	3774.5	3956.1	*4043.7*	4156.4
17.5°	3405.0	3385.0	3370.0	3378.7	3428.8	3565.3	3724.4	3853.4	4029.9	*4132.6*	4270.4
20°	3631.7	3620.4	3579.1	3551.6	3562.8	3683.0	3844.6	3964.8	4126.4	*4241.6*	4389.4
22.5°	3936.0	3908.5	3852.1	3808.3	3774.5	3868.4	4017.4	4121.4	4260.4	*4380.6*	4534.6
25°	4313.0	4272.9	4184.0	4115.1	4042.5	4138.9	4271.6	4350.5	4444.5	*4555.9*	4702.4
27.5°	4697.4	4663.6	4564.7	4472.0	4381.8	4442.0	4599.7	4644.8	4634.8	*4716.2*	4841.4
30°	5106.9	5064.4	4970.4	4870.2	4753.8	4792.6	4934.1	4956.7	4850.2	*4917.8*	5003.0
32.5°	5539.0	5497.7	5416.2	5299.8	5168.3	5183.3	5222.1	5243.4	5142.0	*5180.8*	5245.9
35°	5978.5	5939.7	5857.1	5741.9	5645.4	5554.0	5456.3	5541.5	5482.6	*5557.8*	5552.8
37.5°	6380.5	6341.7	6290.4	6201.4	6036.1	5855.8	5630.4	5735.6	5827.0	*5922.2*	5905.9
40°	6652.3	6626.0	6638.5	6624.7	6411.8	6054.9	5715.6	5830.8	6080.0	*6242.8*	6234.0
42.5°	6886.5	6860.2	6932.8	6985.4	6734.9	6239.0	5756.9	5867.1	6241.5	*6495.7*	6483.2
45°	6990.4	6982.9	7103.1	7269.7	7030.5	6434.4	5863.3	5942.2	6364.3	*6689.9*	6642.3
47.5°	6866.4	6892.7	7129.4	7411.2	7275.9	6666.1	6081.2	6101.3	6524.5	*6900.2*	6766.2
50°	6619.7	6677.3	6996.7	7414.9	7455.0	6927.8	6383.0	6332.9	6739.9	*7124.4*	6831.4
52.5°	6260.3	6320.4	6841.4	7386.1	7557.7	7230.9	6785.0	6713.6	7011.7	*7348.6*	6842.6
55°	5435.0	5516.4	6485.7	7321.0	7657.9	7506.4	7238.4	7093.1	7362.3	*7656.6*	6954.1
57.5°	*4715.0*	*4757.5*	*5619.1*	*7031.7*	*7677.9*	*7709.2*	*7561.5*	*7388.6*	*7710.5*	*7989.8*	*7079.3*
60°	3460.1	3470.2	4245.3	5818.2	7063.0	7591.5	7535.2	7278.4	7545.2	*7723.0*	6505.8
62.5°	1954.9	1956.1	2574.8	3883.4	5276.0	6187.7	6222.7	5996.1	5771.9	*5824.5*	4528.4
65°	733.9	802.7	1175.9	1908.5	3041.9	3653.0	3798.3	3850.9	3477.7	*3246.0*	2428.2
67.5°	490.9	507.2	686.3	981.8	1353.7	1562.9	1748.2	1753.2	1282.4	*1143.4*	956.8
70°	374.4	390.7	539.7	702.5	686.3	633.7	685.0	666.2	688.8	*707.6*	727.6
72.5°	279.3	295.5	418.3	495.9	412.0	405.7	459.6	510.9	558.5	*578.6*	609.9
75°	185.3	197.9	281.8	265.5	227.9	269.2	335.6	387.0	414.5	*438.3*	462.1
77.5°	117.7	126.5	150.3	121.5	126.5	157.8	195.4	241.7	268.0	*291.8*	304.3
80°	53.8	52.6	51.3	57.6	71.4	92.7	117.7	145.3	165.3	*175.3*	182.8
82.5°	21.3	23.8	26.3	31.3	38.8	50.1	66.4	85.2	101.4	*103.9*	110.2
85°	8.8	10.0	11.3	13.8	17.5	22.5	27.6	38.8	48.8	*52.6*	56.4
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	6.3	11.3	*12.5*	13.8
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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CATALOG NUMBER: GWS-SA3E-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8
2.5°	3820.8	3804.5	3832.1	3850.9	3868.4	3849.6	3843.3	3827.1	3824.6	3824.6	3833.3
5°	3855.9	3844.6	3873.4	3884.7	3883.4	3842.1	3817.0	3784.5	3768.2	3768.2	3770.7
7.5°	3918.5	3912.2	3928.5	3911.0	3870.9	3787.0	3704.3	3635.5	3589.1	3565.3	3572.8
10°	4022.4	4014.9	4001.1	3936.0	3820.8	3646.7	3477.7	3352.4	3277.3	3234.7	3237.2
12.5°	4123.9	4111.3	4062.5	3918.5	3681.8	3405.0	3183.4	3043.1	2960.5	2910.4	2899.1
15°	4235.3	4202.8	4097.6	3828.3	3455.1	3109.5	2877.8	2726.3	2637.4	2607.3	2606.1
17.5°	4341.8	4284.2	4093.8	3668.0	3183.4	2800.2	2567.2	2473.3	2458.3	2472.1	2475.8
20°	4449.5	4356.8	4052.5	3446.4	2860.3	2492.1	2371.9	2410.7	2467.1	2504.6	2513.4
22.5°	4560.9	4416.9	3958.6	3160.8	2519.7	2284.2	2334.3	2419.5	2489.6	2539.7	2544.7
25°	4686.2	4473.3	3818.3	2811.4	2246.6	2226.6	2325.5	2415.7	2490.8	2548.5	2558.5
27.5°	4757.5	4474.5	3621.7	2452.0	2121.4	2204.1	2304.3	2389.4	2464.6	2527.2	2538.4
30°	4827.7	4440.7	3309.9	2160.2	2085.1	2177.8	2267.9	2346.8	2418.2	2479.6	2493.4
32.5°	4926.6	4409.4	2950.4	1992.4	2063.8	2152.7	2226.6	2296.7	2351.8	2379.4	2386.9
35°	5049.3	4369.3	2568.5	1919.8	2050.0	2132.7	2197.8	2235.4	2164.0	2149.0	2165.2
37.5°	5220.9	4331.7	2187.8	1888.5	2041.3	2125.2	2182.8	2086.4	1998.7	1963.6	1976.1
40°	5406.2	4310.5	1929.8	1863.4	2045.0	2132.7	2120.2	1977.4	1850.9	1777.0	1774.5
42.5°	5564.0	4277.9	1764.5	1847.2	2055.0	2161.5	2035.0	1881.0	1693.1	1649.3	1650.5
45°	5670.5	4195.2	1676.8	1829.6	2063.8	2167.8	1994.9	1748.2	1614.2	1586.7	1585.4
47.5°	5714.3	4045.0	1620.5	1802.1	2062.6	2116.4	1913.5	1693.1	1559.1	1551.6	1556.6
50°	5685.5	3798.3	1562.9	1748.2	2032.5	2062.6	1819.6	1644.3	1521.6	1562.9	1592.9
52.5°	5579.1	3478.9	1494.0	1674.3	1978.7	2001.2	1772.0	1614.2	1494.0	1549.1	1572.9
55°	5551.5	3219.7	1406.3	1577.9	1898.5	1892.2	1721.9	1599.2	1475.2	1453.9	1457.7
57.5°	*5515.2*	*2966.7*	*1261.1*	*1405.1*	*1695.6*	*1705.6*	*1674.3*	*1581.7*	*1426.4*	*1420.1*	*1426.4*
60°	4791.3	2274.2	1124.6	1212.2	1392.6	1446.4	1620.5	1549.1	1347.5	1321.2	1319.9
62.5°	3129.5	1377.5	1000.6	1057.0	1134.6	1197.2	1477.7	1455.2	1261.1	1244.8	1256.1
65°	1683.1	981.8	910.4	944.2	986.8	1034.4	1224.8	1296.1	1139.6	1082.0	1083.2
67.5°	860.3	835.3	842.8	866.6	899.2	923.0	988.1	1050.7	971.8	923.0	921.7
70°	736.4	756.4	767.7	781.4	802.7	799.0	805.2	816.5	810.2	786.5	785.2
72.5°	627.4	658.7	661.2	663.7	671.2	653.7	642.4	623.7	624.9	628.7	629.9
75°	477.1	507.2	514.7	510.9	518.5	495.9	480.9	462.1	439.6	435.8	438.3
77.5°	310.6	334.4	345.6	343.1	346.9	329.4	321.8	301.8	275.5	265.5	265.5
80°	187.8	201.6	210.4	212.9	216.6	204.1	191.6	174.1	162.8	151.5	151.5
82.5°	114.0	122.7	129.0	129.0	132.7	119.0	109.0	96.4	91.4	81.4	81.4
85°	57.6	63.9	66.4	65.1	62.6	51.3	47.6	41.3	38.8	33.8	33.8
87.5°	13.8	17.5	17.5	12.5	12.5	6.3	3.8	1.3	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

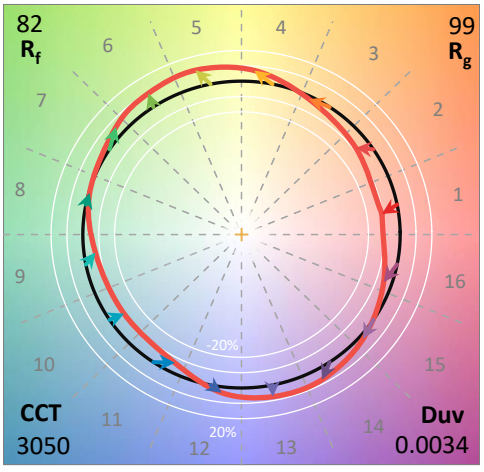
Test Information

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

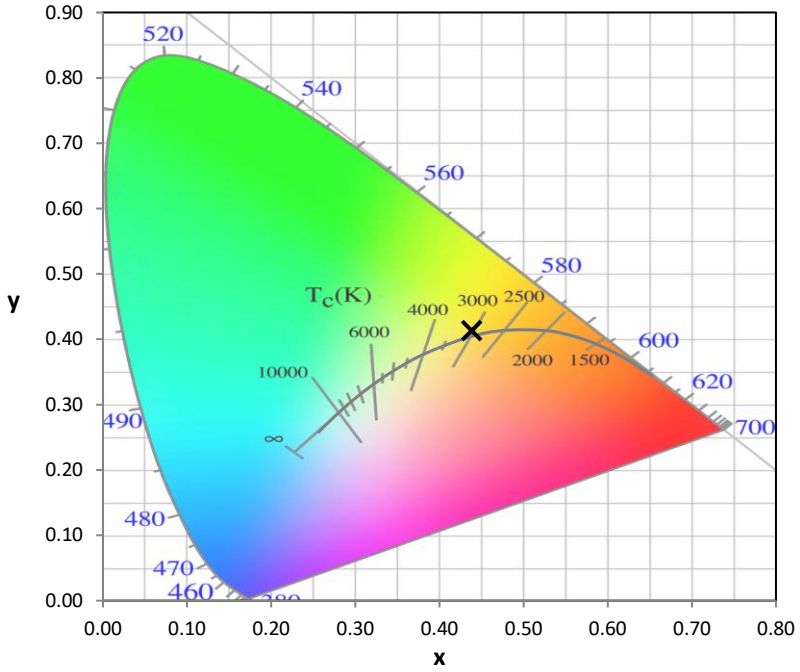
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

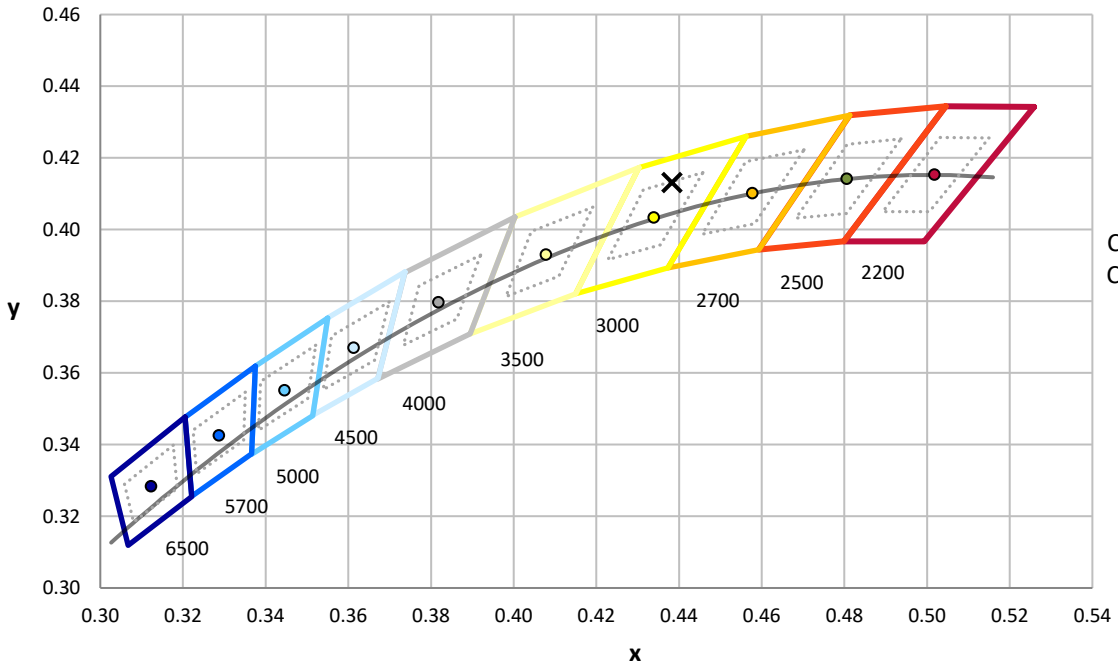
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

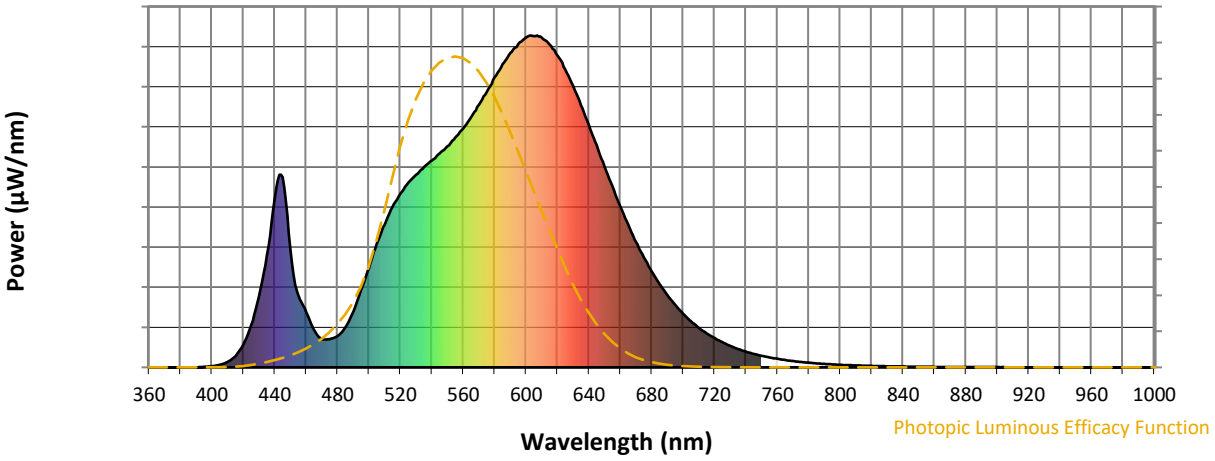


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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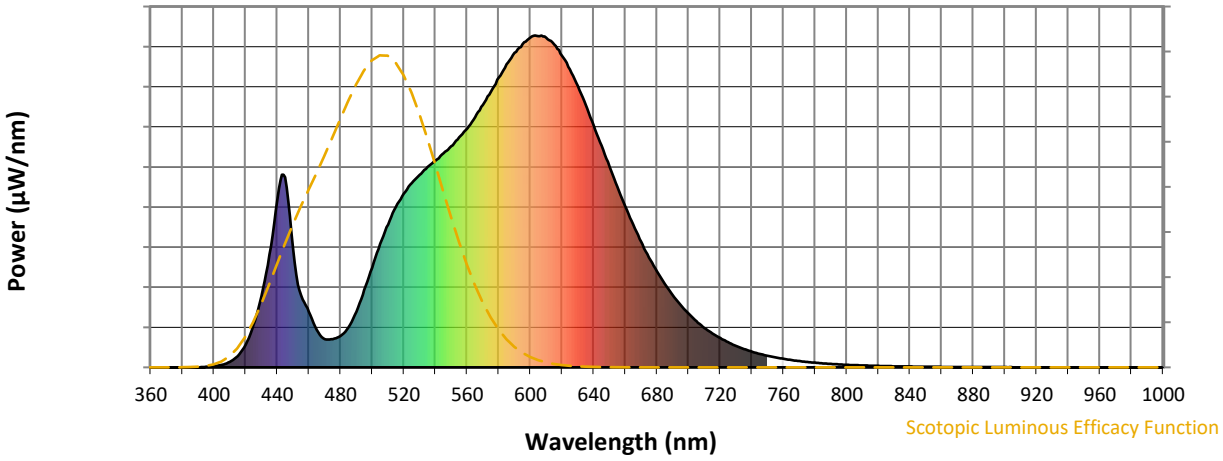
Scotopic Flux vs. Wavelength



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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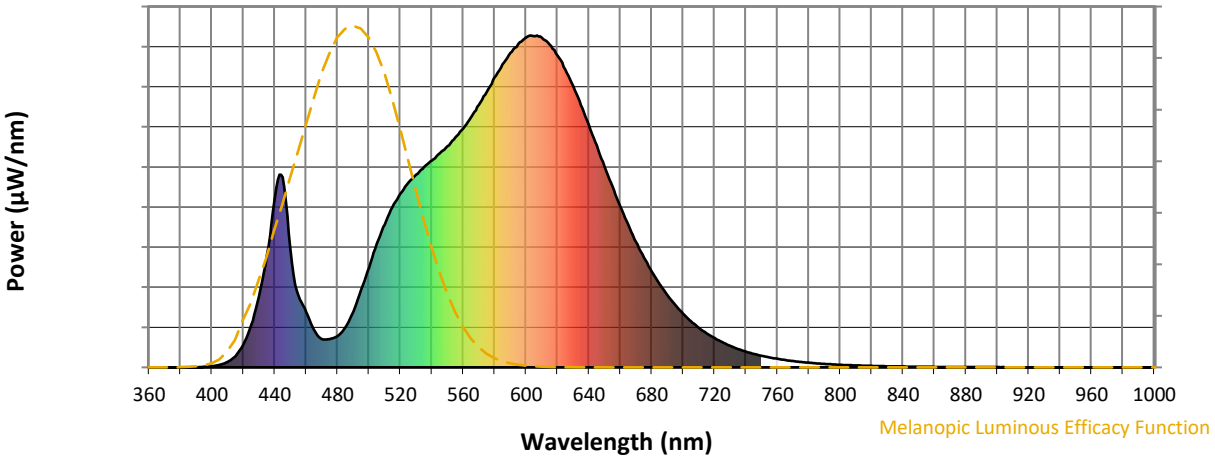
Melanopic Flux vs. Wavelength



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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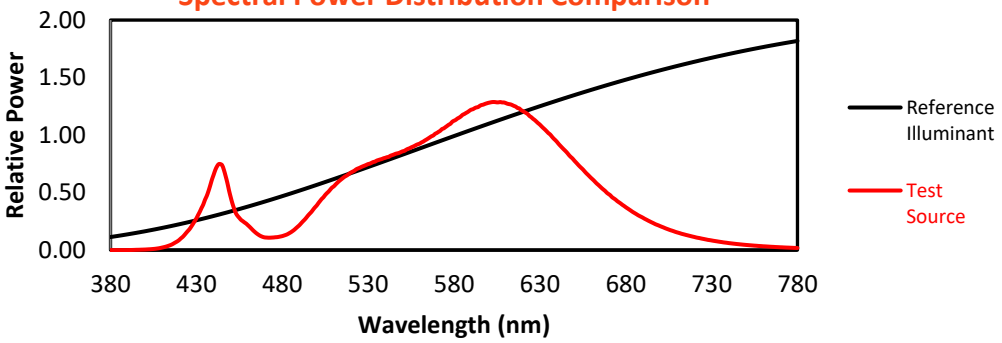
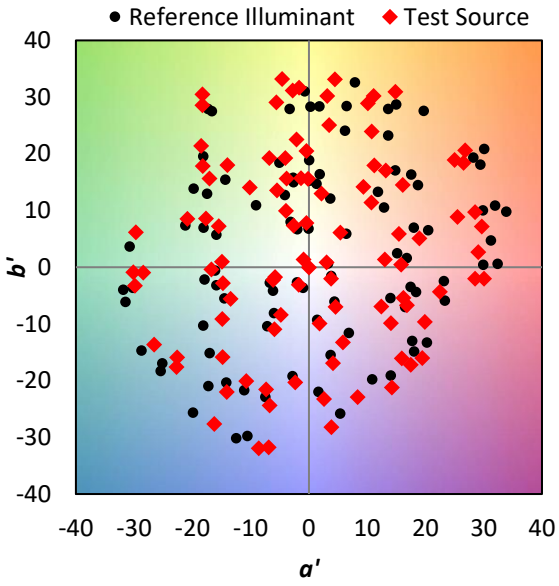
Summary

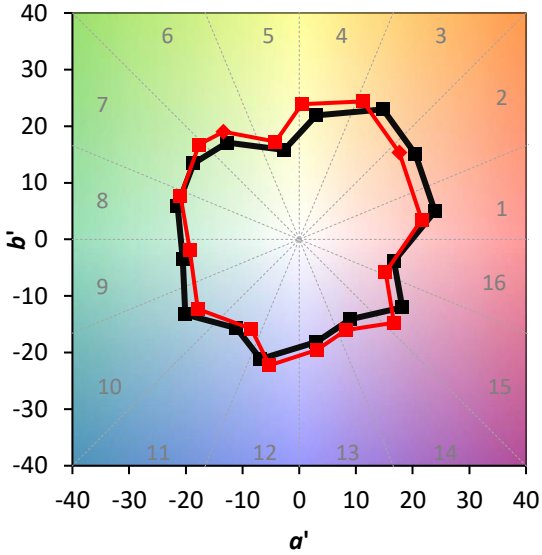
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

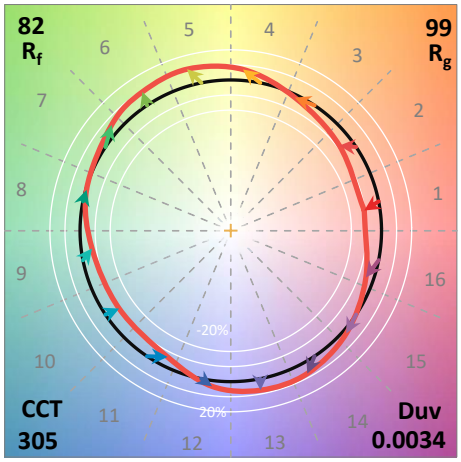
Spectral Power Distribution Comparison

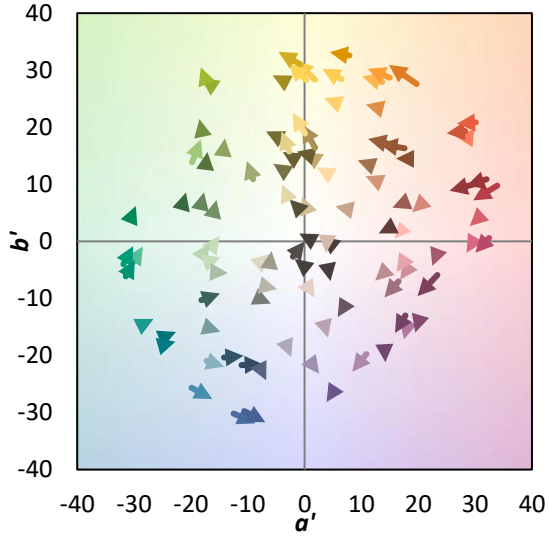


Color Vector Graphics









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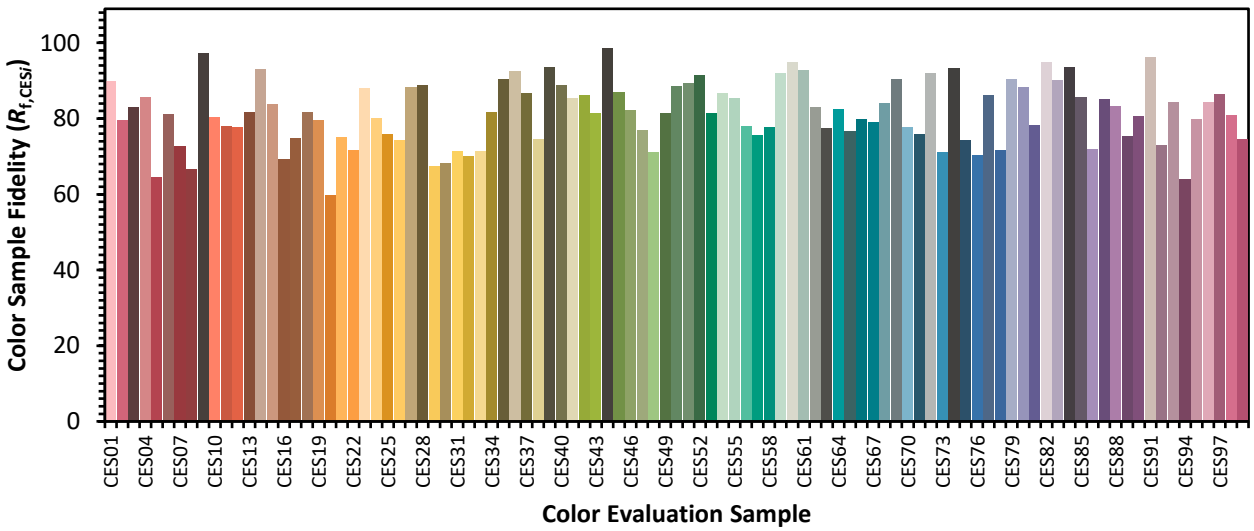
Individual Sample Fidelity Index ($R_{f,i}$)

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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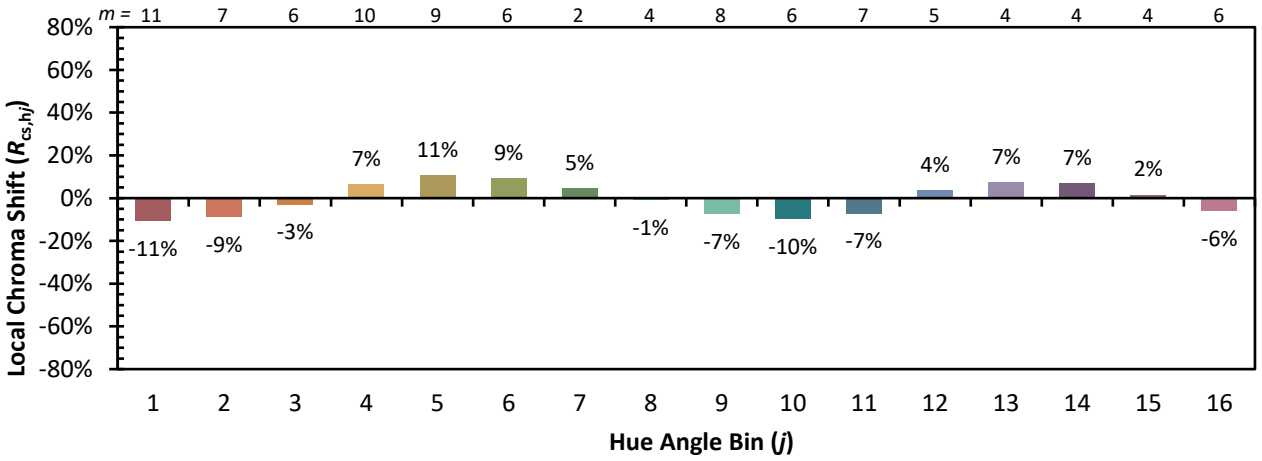
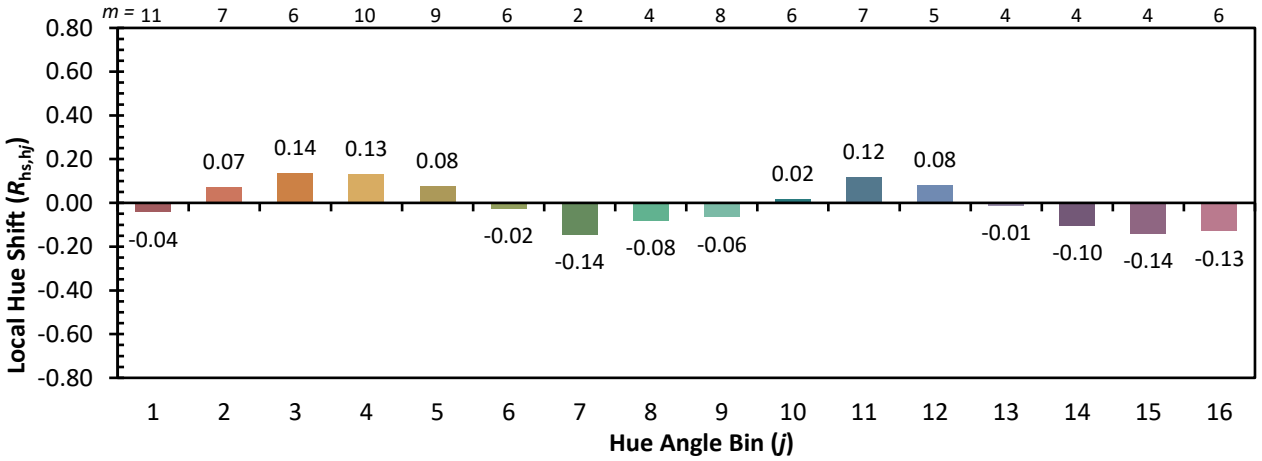
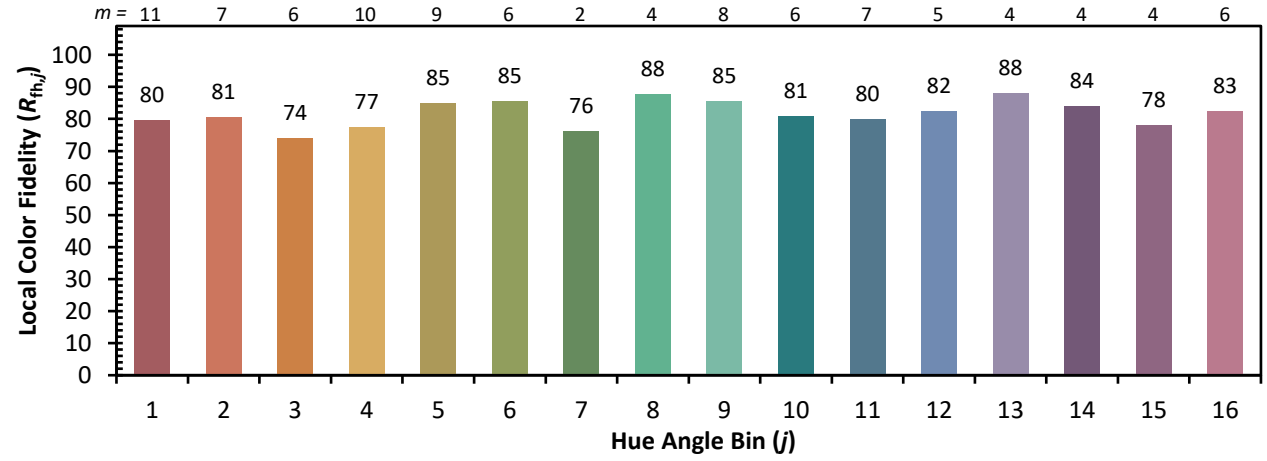
Color Rendition by Hue-Angle Bin







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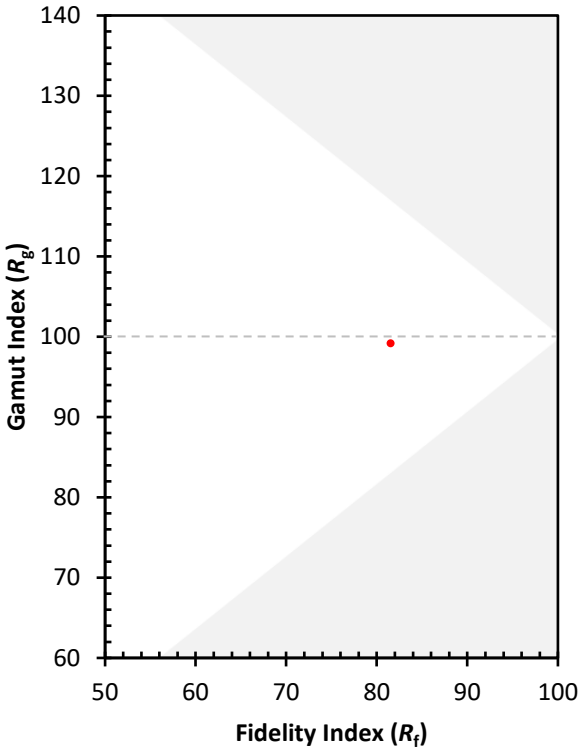
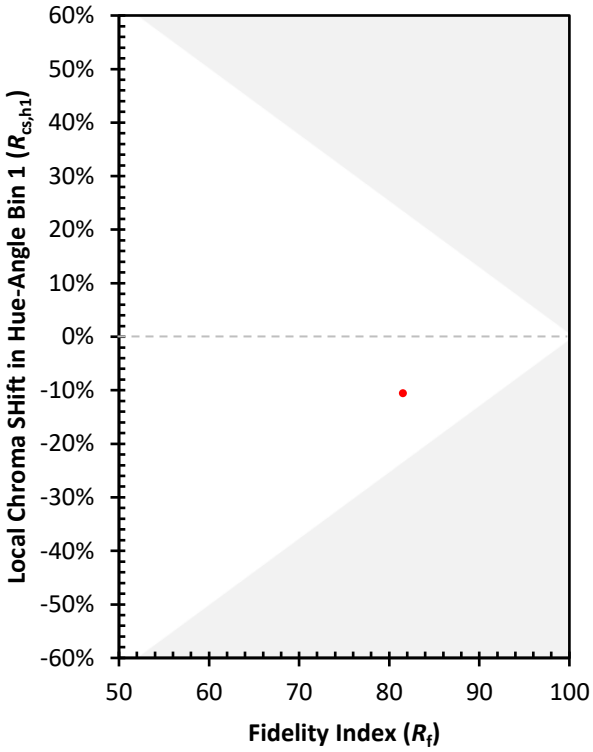
Measure Comparisons





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