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: P643441

Luminaire Tested: GWS-SA6E-830-U-T2-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:	P643441
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6E-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35281.3 lumens
Efficiency:	N/A
Efficacy:	109.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G4

Input Watts (W):	323.8
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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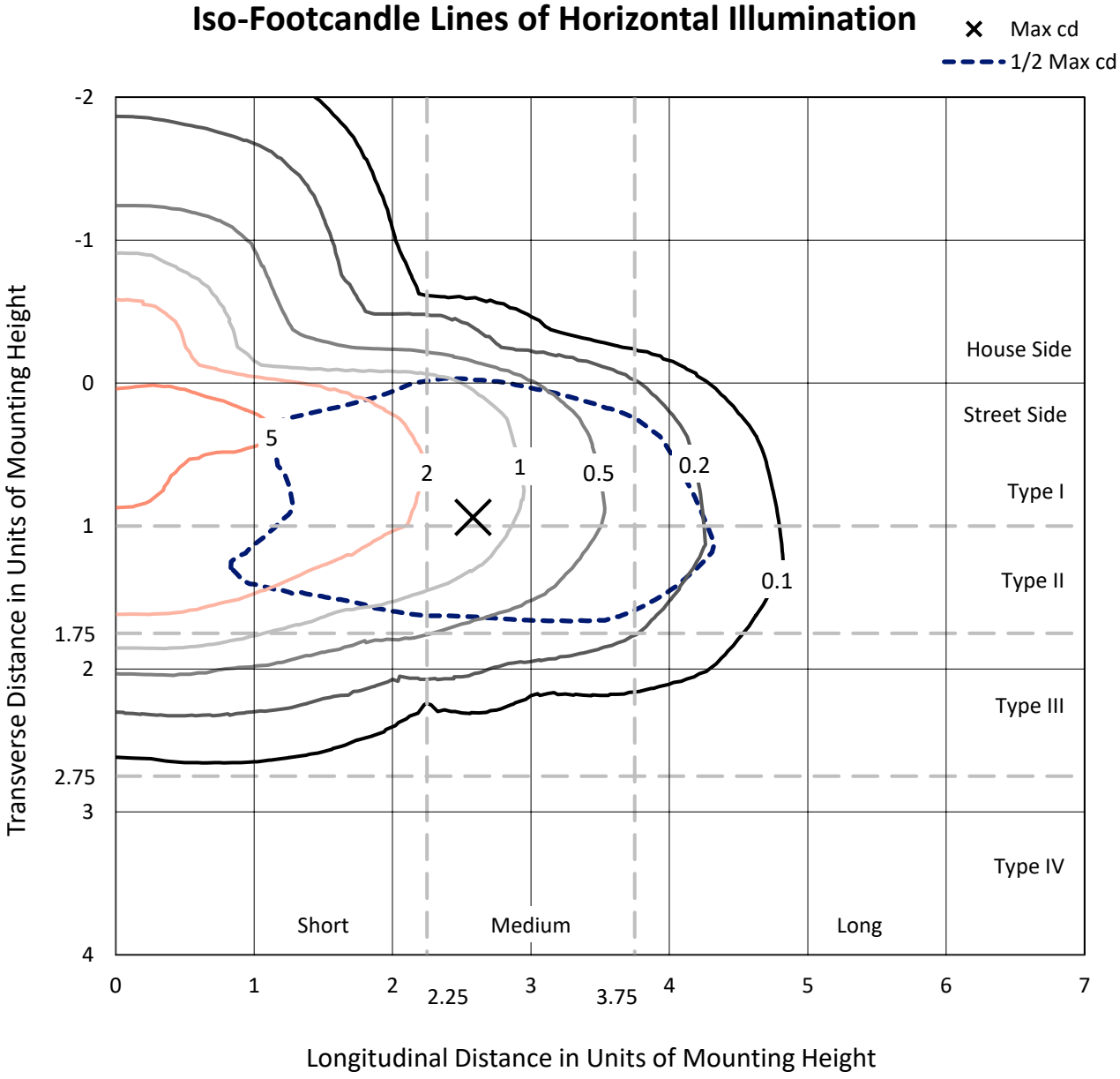
REPORT NUMBER: P643441
CATALOG NUMBER: GWS-SA6E-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Medium - N/A

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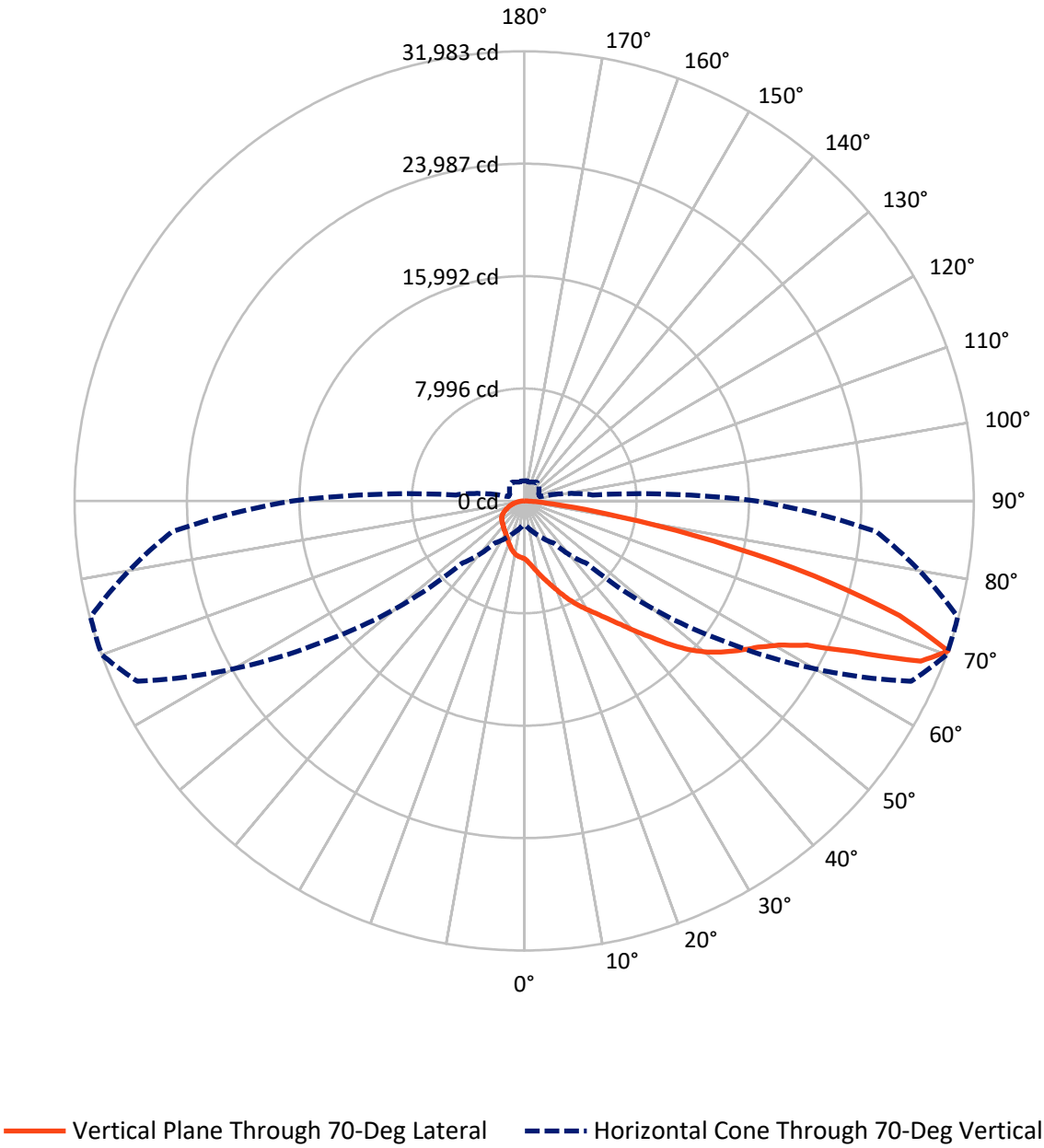
Luminous Intensity Polar Plot



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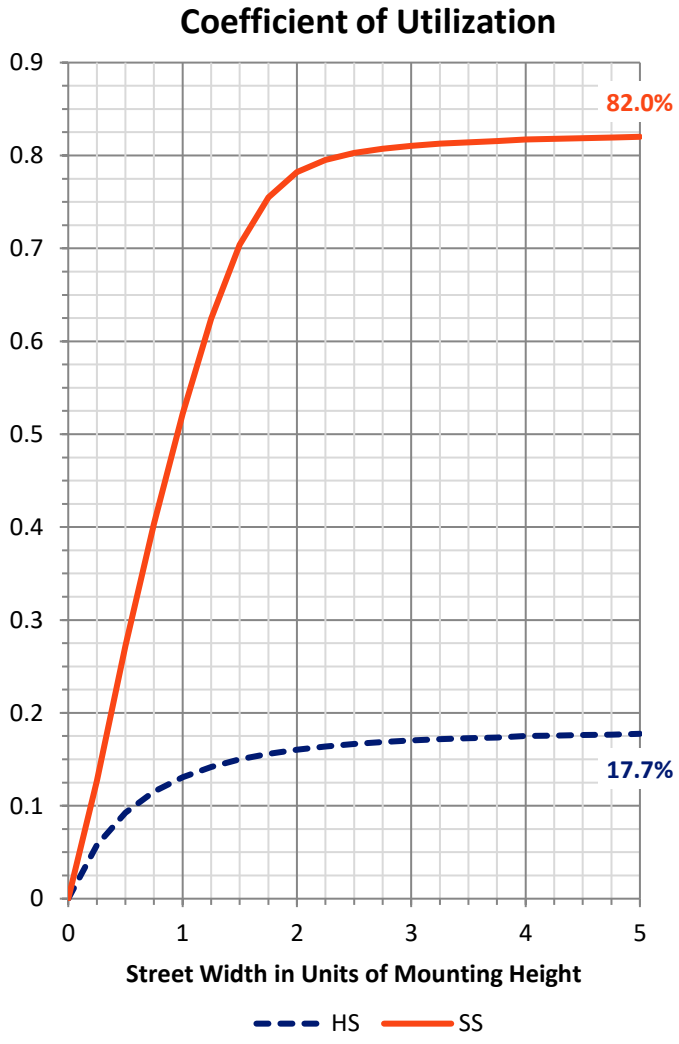
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6322.5	0.0	6322.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	28958.8	0.0	28958.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	35281.3	0.0	35281.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.2	1.2
10°-20°	1360.4	3.9
20°-30°	2410.0	6.8
30°-40°	3627.1	10.3
40°-50°	5487.3	15.6
50°-60°	7860.9	22.3
60°-70°	8689.3	24.6
70°-80°	4903.6	13.9
80°-90°	524.5	1.5
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°	35281.3	100.0
0°-180°	35281.3	100.0



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REPORT NUMBER: P643441
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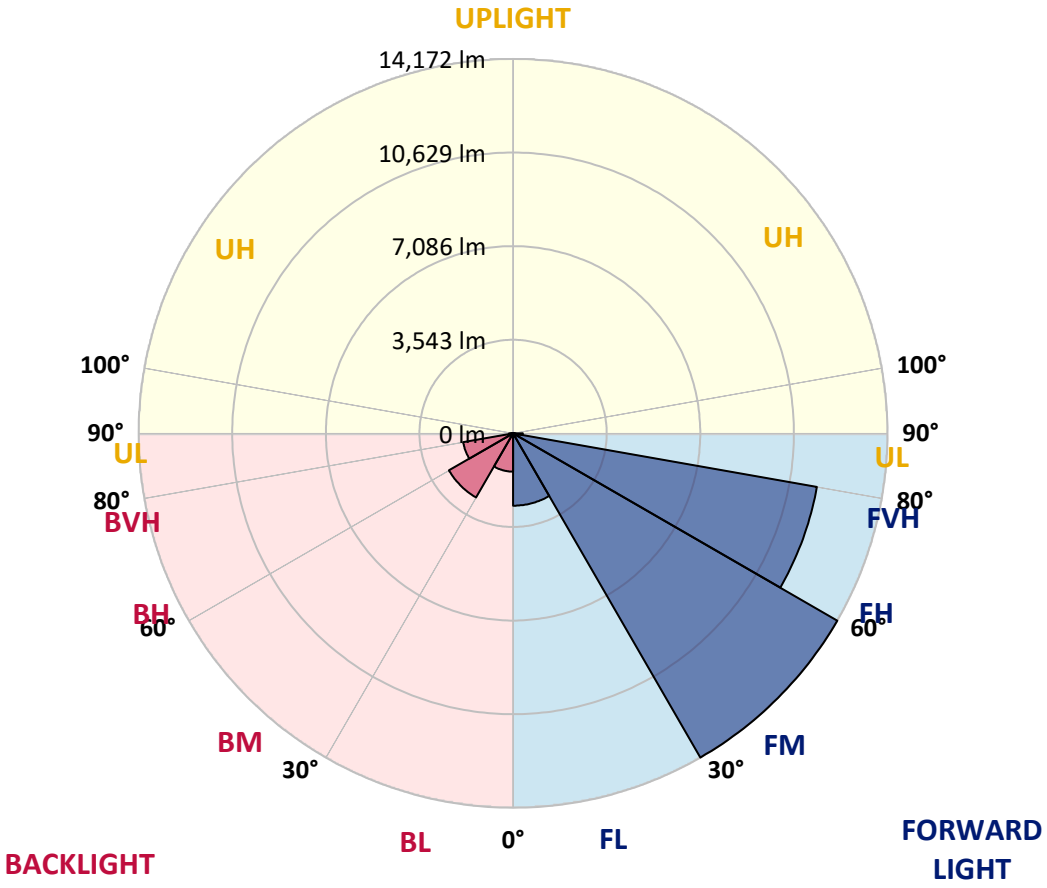
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2738.9	7.8			
FM	(30°-60°)	14172.5	40.2			
FH	(60°-80°)	11676.7	33.1			G4/12000
FVH	(80°-90°)	370.8	1.1			G3/500
BL	(0°-30°)	1449.7	4.1	B3/2500		
BM	(30°-60°)	2802.8	7.9	B3/5000		
BH	(60°-80°)	1916.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	153.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type II Medium



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Scaled Data Report

REPORT NUMBER: P643441
CATALOG NUMBER: GWS-SA6E-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	*4114.5*	4114.5	4114.5
2.5°	4558.1	4550.5	4555.6	4550.5	4522.4	4453.6	4397.5	4326.1	*4277.7*	4249.6	4183.4
5°	5093.5	5085.8	5068.0	5042.5	4991.5	4897.2	4756.9	4601.4	*4507.1*	4435.7	4295.5
7.5°	5478.4	5478.4	5475.8	5445.3	5409.6	5310.1	5144.4	4940.5	*4802.8*	4680.5	4451.0
10°	5674.7	5687.4	5705.3	5748.6	5741.0	5687.4	5531.9	5312.7	*5139.3*	4996.6	4655.0
12.5°	5781.8	5789.4	5820.0	5909.2	6001.0	6013.7	5922.0	5692.5	*5503.9*	5312.7	4881.9
15°	5919.4	5922.0	5962.8	6069.8	6204.9	6340.0	6317.1	6087.7	*5893.9*	5682.3	5134.2
17.5°	6026.5	6044.3	6118.3	6243.2	6411.4	6597.5	6709.7	6566.9	*6327.3*	6085.1	5409.6
20°	6064.7	6077.5	6174.3	6365.5	6595.0	6857.6	7107.4	7069.1	*6827.0*	6541.4	5720.6
22.5°	6202.4	6202.4	6273.8	6434.4	6704.6	7087.0	7492.3	7591.7	*7377.6*	7043.6	6054.5
25°	6505.8	6495.6	6528.7	6595.0	6798.9	7270.5	7872.2	8170.4	*7930.8*	7556.1	6388.5
27.5°	6921.3	6916.2	6913.6	6923.8	6992.7	7431.1	8193.4	8710.9	*8471.2*	8048.1	6686.7
30°	7372.5	7357.2	7390.3	7359.8	7344.5	7622.3	8466.1	9195.2	*9009.1*	8535.0	6934.0
32.5°	7986.9	7958.8	7951.2	7851.8	7790.6	7920.6	8685.4	9745.9	*9598.0*	9060.1	7211.9
35°	8797.5	8772.1	8642.0	8484.0	8303.0	8364.2	8958.2	10283.8	*10294.0*	9717.8	7576.4
37.5°	9615.9	9621.0	9519.0	9146.8	8960.7	8925.0	9373.7	10938.9	*11158.2*	10503.0	8048.1
40°	10296.5	10327.1	10327.1	9934.5	9656.7	9623.5	9957.5	11716.5	*12152.4*	11466.6	8644.6
42.5°	10814.0	10842.1	10931.3	10648.3	10355.2	10469.9	10666.2	12496.5	*13279.2*	12657.2	9399.2
45°	11382.5	11405.5	11453.9	11290.7	11119.9	11425.9	11469.2	13429.6	*14569.1*	13993.0	10276.1
47.5°	12137.1	12116.7	12121.8	12002.0	11869.4	12364.0	12353.8	14214.8	*15815.7*	15456.3	11227.0
50°	13075.2	13113.5	13077.8	12840.7	12685.2	13136.4	13195.0	15084.1	*16911.9*	16904.2	12185.5
52.5°	13977.7	13993.0	14181.6	14191.8	13873.2	13778.8	13931.8	15961.0	*17837.3*	18229.9	13105.8
55°	14023.6	14082.2	14648.1	15056.0	15571.0	14813.8	14676.2	16797.2	*18732.1*	19527.4	14061.8
57.5°	13047.2	13141.5	14102.6	14982.1	16414.8	16590.7	15950.8	17878.1	*19626.9*	20804.6	15168.2
60°	10961.9	11158.2	12463.4	13809.4	16034.9	17867.9	18558.7	19346.4	*20802.1*	22109.9	16511.7
62.5°	7000.3	7076.8	8907.2	11160.7	14324.4	17743.0	21398.6	21934.0	*22591.7*	23810.2	18581.7
65°	3505.3	3750.0	4823.2	6661.3	10329.7	15634.7	22833.9	26673.1	*25867.5*	26721.5	21936.5
67.5°	2378.5	2457.5	3000.5	4002.4	6057.1	11076.6	21944.2	30665.2	*30428.1*	30568.4	25513.1
70°	*1753.9*	*1804.9*	*2233.2*	*2834.8*	*3663.3*	*6289.1*	*17470.2*	*30364.4*	*31983.2*	*31932.2*	*25138.4*
72.5°	1279.7	1305.2	1629.0	2164.3	2715.0	3252.9	10668.7	24529.1	*27919.7*	29390.6	21984.9
75°	930.5	961.1	1131.9	1618.8	2110.8	2029.2	5266.8	17717.5	*21291.5*	24121.2	17911.2
77.5°	693.4	731.6	810.7	1014.6	1478.6	1453.1	2276.5	11504.9	*13771.2*	15754.5	10880.3
80°	499.7	507.3	553.2	650.1	938.1	851.5	1083.4	5998.4	*6877.9*	7535.7	4264.9
82.5°	303.4	311.0	369.6	400.2	581.2	535.3	563.4	1942.5	*2783.8*	2954.6	1593.3
85°	89.2	94.3	168.3	183.5	242.2	229.4	226.9	790.3	*943.2*	1205.8	627.1
87.5°	0.0	0.0	0.0	0.0	2.5	15.3	28.0	140.2	*211.6*	293.2	153.0
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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Scaled Data Report

REPORT NUMBER: P643441
CATALOG NUMBER: GWS-SA6E-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5
2.5°	4157.9	4099.2	4068.6	4015.1	3976.9	3938.6	3900.4	3864.7	3849.4	3826.5	3831.6
5°	4231.8	4140.0	4048.2	3943.7	3854.5	3780.6	3714.3	3655.7	3630.2	3607.2	3617.4
7.5°	4344.0	4206.3	4030.4	3839.2	3699.0	3597.0	3528.2	3487.4	3474.7	3456.8	3456.8
10°	4486.7	4280.2	3971.8	3699.0	3530.7	3449.2	3418.6	3416.0	3428.8	3431.3	3426.2
12.5°	4644.8	4351.6	3885.1	3533.3	3390.5	3365.0	3388.0	3431.3	3474.7	3497.6	3492.5
15°	4807.9	4397.5	3737.2	3375.2	3288.6	3321.7	3395.6	3482.3	3566.4	3609.8	3607.2
17.5°	4960.9	4407.7	3546.0	3222.3	3199.3	3283.5	3410.9	3546.0	3660.8	3721.9	3724.5
20°	5131.7	4389.9	3349.7	3084.6	3110.1	3247.8	3416.0	3579.2	3714.3	3775.5	3790.8
22.5°	5287.2	4328.7	3158.6	2954.6	3033.6	3204.4	3375.2	3528.2	3648.0	3706.6	3727.0
25°	5427.4	4211.4	2949.5	2845.0	2975.0	3143.3	3273.3	3380.3	3464.5	3500.2	3528.2
27.5°	5503.9	4035.5	2791.5	2758.3	2918.9	3056.6	3128.0	3161.1	3189.1	3178.9	3199.3
30°	5519.2	3816.3	2653.8	2689.5	2834.8	2936.8	2952.1	2918.9	2870.5	2791.5	2809.3
32.5°	5503.9	3563.9	2539.1	2615.6	2740.5	2801.7	2781.3	2694.6	2577.3	2455.0	2462.6
35°	5509.0	3309.0	2444.8	2534.0	2630.9	2664.0	2613.0	2493.2	2368.3	2256.1	2251.0
37.5°	5565.1	3094.8	2365.7	2455.0	2523.8	2528.9	2472.8	2347.9	2284.2	2200.0	2189.8
40°	5720.6	2936.8	2294.3	2375.9	2419.3	2416.7	2353.0	2263.8	2307.1	2279.1	2271.4
42.5°	5975.5	2839.9	2235.7	2291.8	2322.4	2327.5	2276.5	2220.4	2314.7	2279.1	2266.3
45°	6385.9	2834.8	2194.9	2207.7	2256.1	2291.8	2256.1	2192.4	2228.1	2054.7	2021.6
47.5°	6872.8	2921.5	2164.3	2133.7	2217.9	2281.6	2225.5	2123.5	2049.6	1891.6	1868.6
50°	7459.2	3097.4	2136.3	2054.7	2161.8	2243.4	2187.3	2047.1	1934.9	1850.8	1838.0
52.5°	8155.1	3329.4	2100.6	1965.5	2077.7	2223.0	2187.3	2039.4	1891.6	1815.1	1802.3
55°	8884.2	3597.0	2059.8	1858.4	1983.3	2228.1	2205.1	1985.9	1858.4	1817.6	1807.4
57.5°	9789.2	3918.2	1985.9	1733.5	1899.2	2182.2	2133.7	1955.3	1835.5	1802.3	1792.1
60°	10964.4	4395.0	1845.7	1606.0	1802.3	2100.6	2070.0	1904.3	1774.3	1746.3	1738.6
62.5°	12825.4	5203.1	1674.9	1483.7	1687.6	1929.8	1975.7	1807.4	1697.8	1695.3	1692.7
65°	15859.0	6174.3	1473.5	1374.1	1567.8	1789.6	1850.8	1708.0	1618.8	1646.8	1644.3
67.5°	17985.1	6258.5	1307.8	1259.3	1427.6	1636.6	1725.9	1606.0	1509.2	1562.7	1560.2
70°	*16473.4*	*4881.9*	*1165.0*	*1139.5*	*1277.2*	*1470.9*	*1590.7*	*1478.6*	*1381.7*	*1432.7*	*1422.5*
72.5°	13893.5	3742.3	1029.9	1014.6	1124.2	1297.6	1417.4	1351.1	1249.1	1249.1	1226.2
75°	11165.8	3087.2	887.1	879.5	953.4	1121.7	1256.8	1144.6	1050.3	1045.2	1029.9
77.5°	6403.8	2024.1	744.4	739.3	762.2	938.1	976.4	953.4	882.0	848.9	838.7
80°	2551.8	1052.9	586.3	553.2	576.1	688.3	769.9	731.6	670.5	629.7	606.7
82.5°	989.1	527.7	413.0	362.0	395.1	497.1	558.3	545.5	504.8	413.0	387.5
85°	402.8	257.5	247.3	209.0	229.4	267.7	321.2	277.9	229.4	163.2	155.5
87.5°	107.1	94.3	91.8	56.1	43.3	12.7	2.5	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

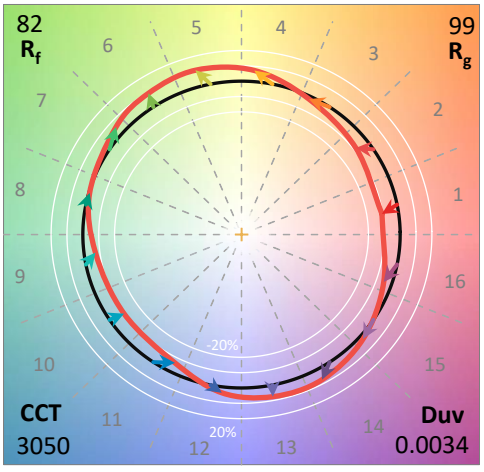
Test Information

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

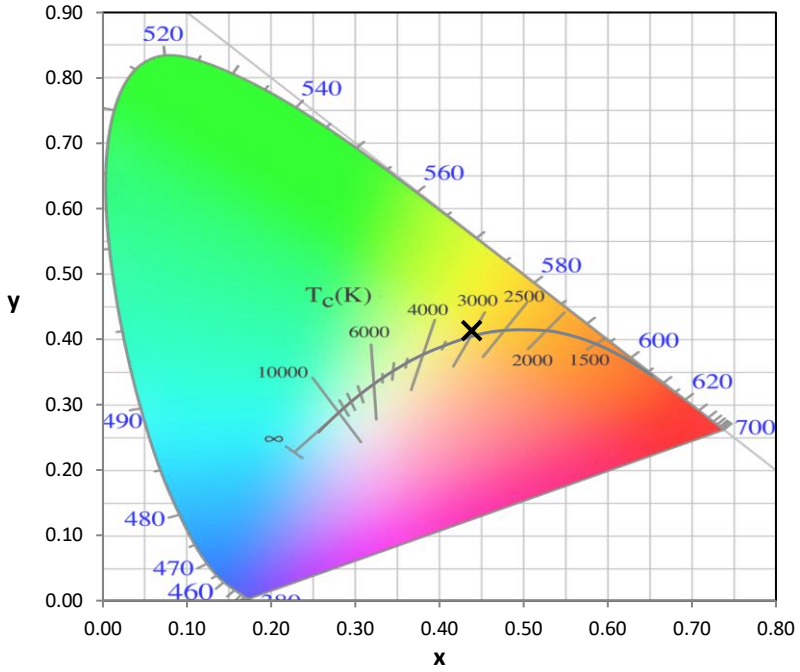
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

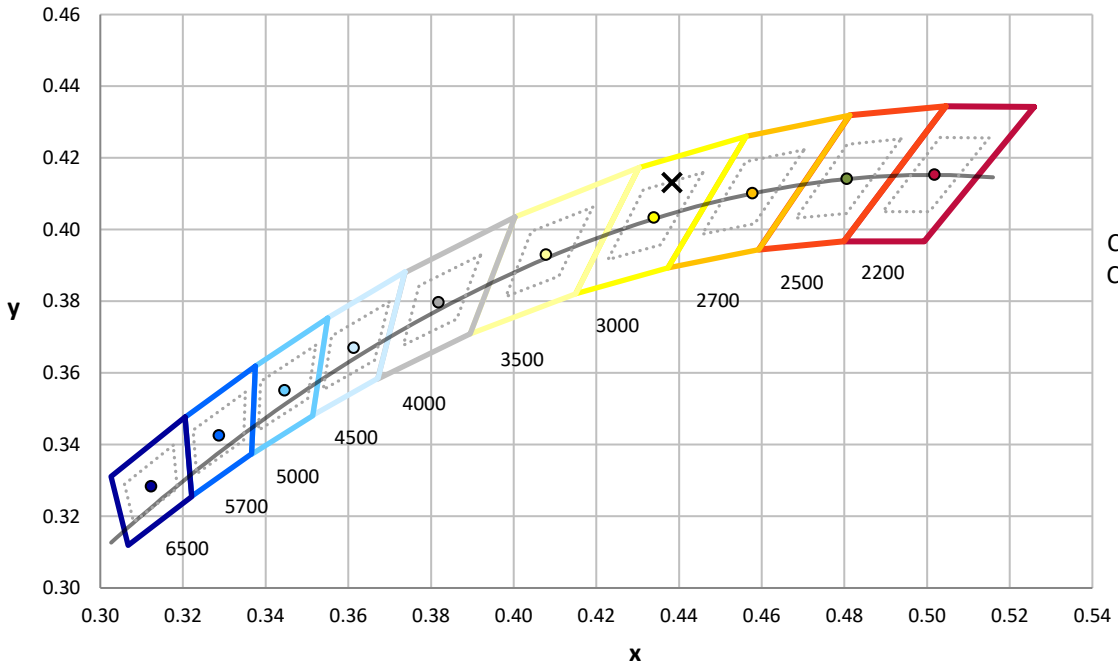
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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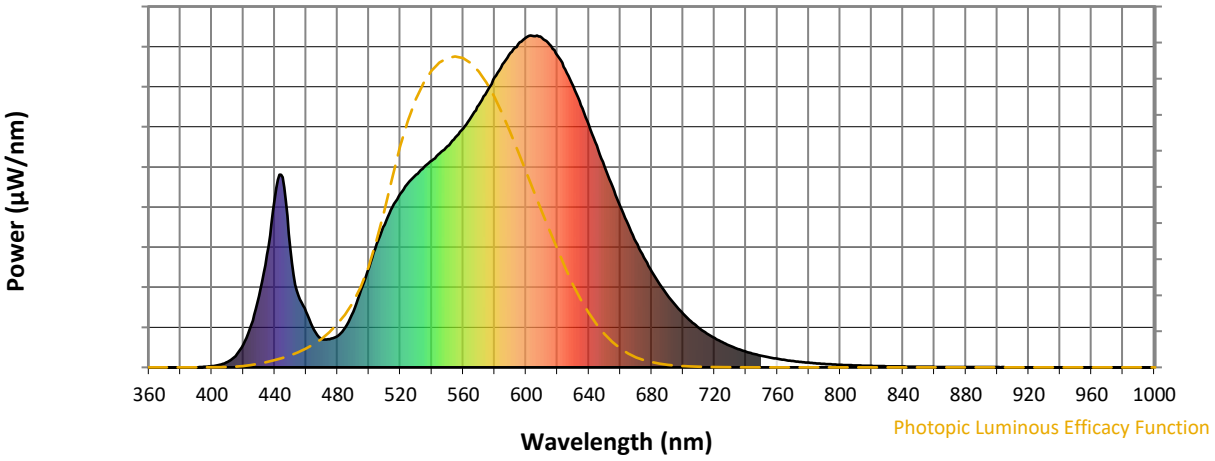
Photopic Flux vs. Wavelength



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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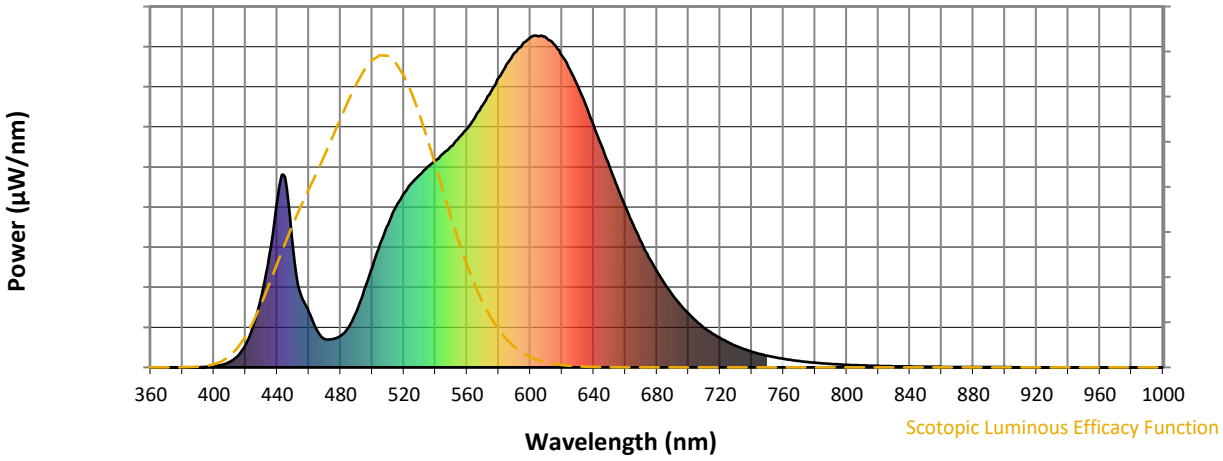
Scotopic Flux vs. Wavelength



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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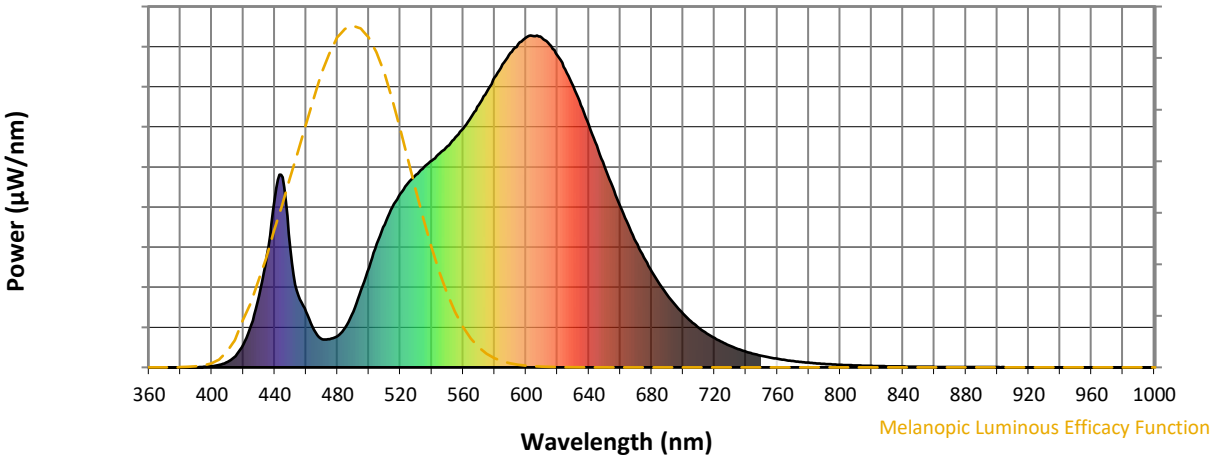
Melanopic Flux vs. Wavelength



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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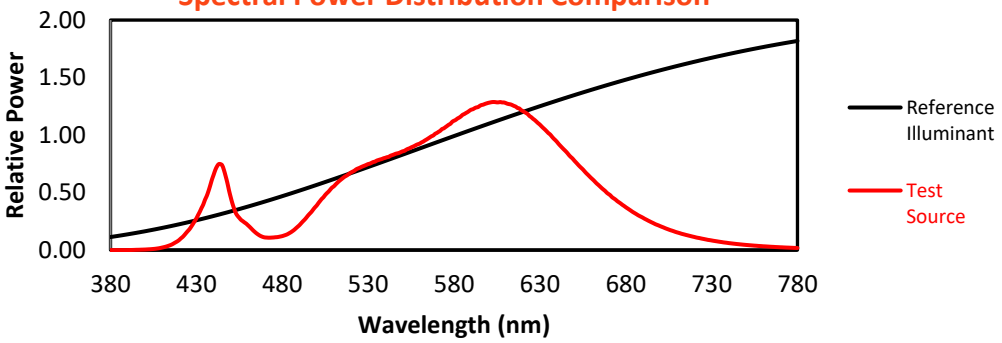
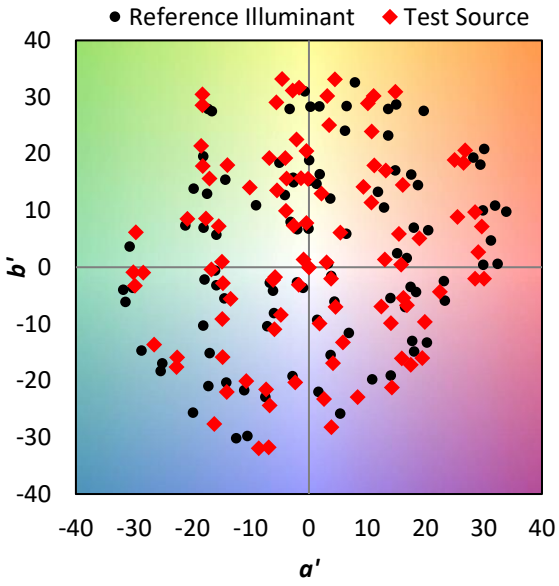
Summary

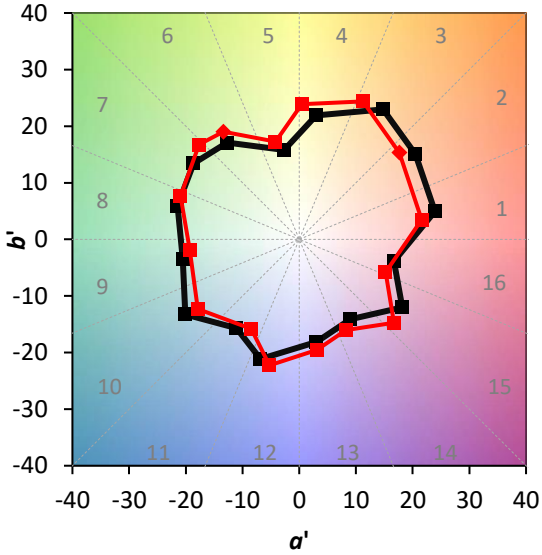
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

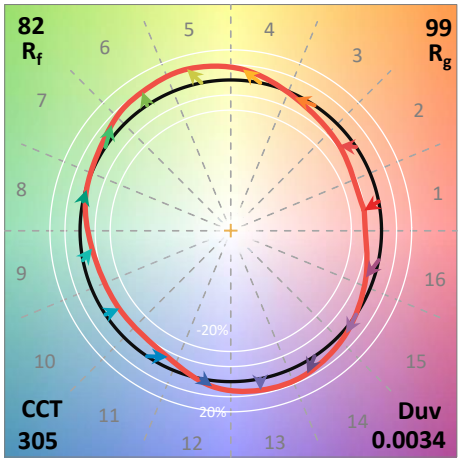
Spectral Power Distribution Comparison

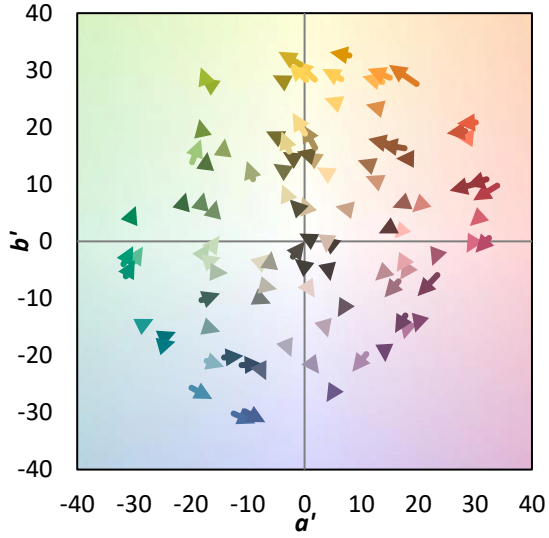


Color Vector Graphics









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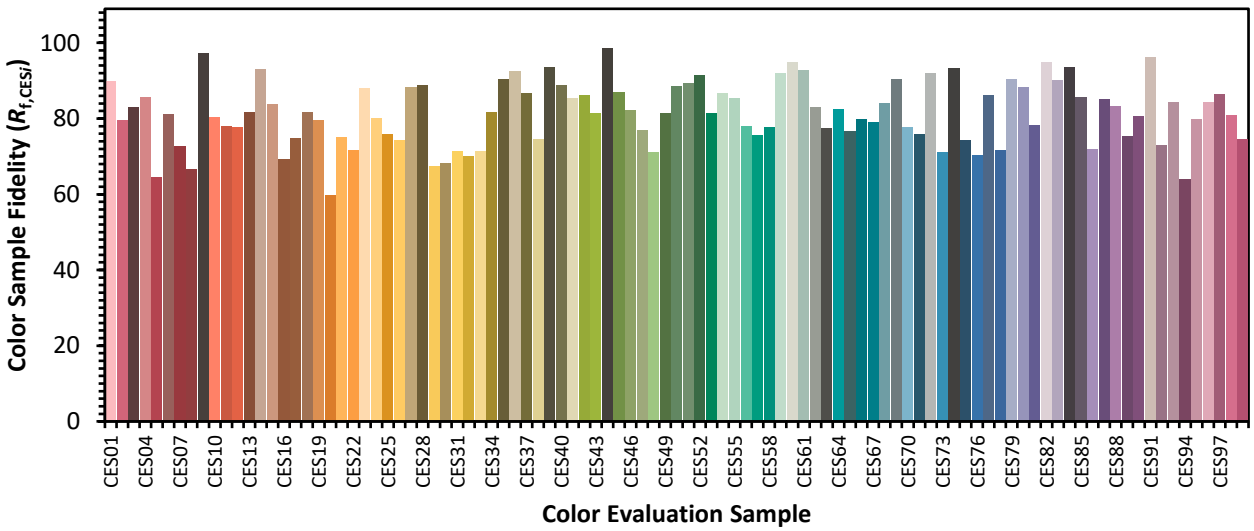
Individual Sample Fidelity Index ($R_{f,i}$)

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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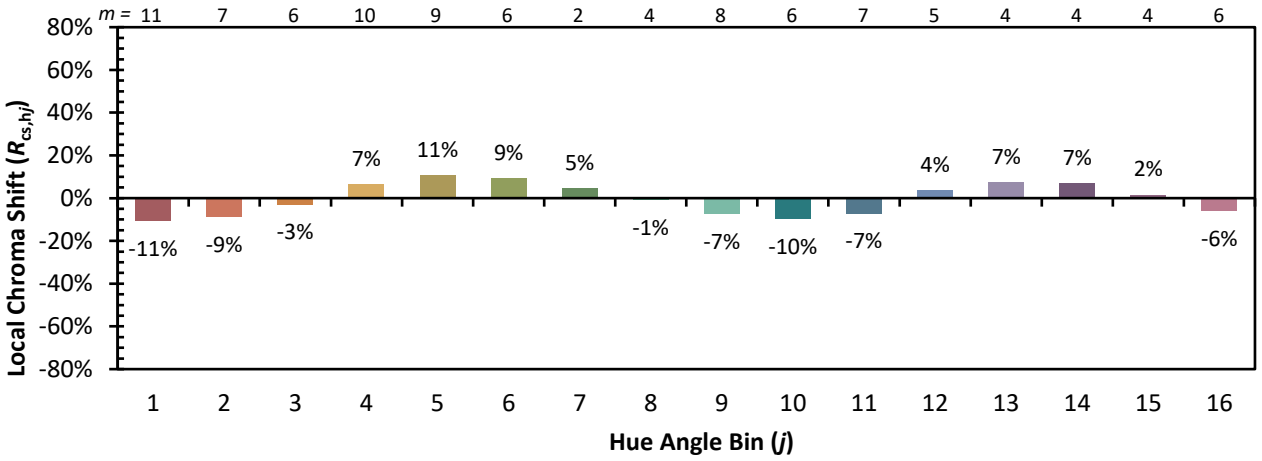
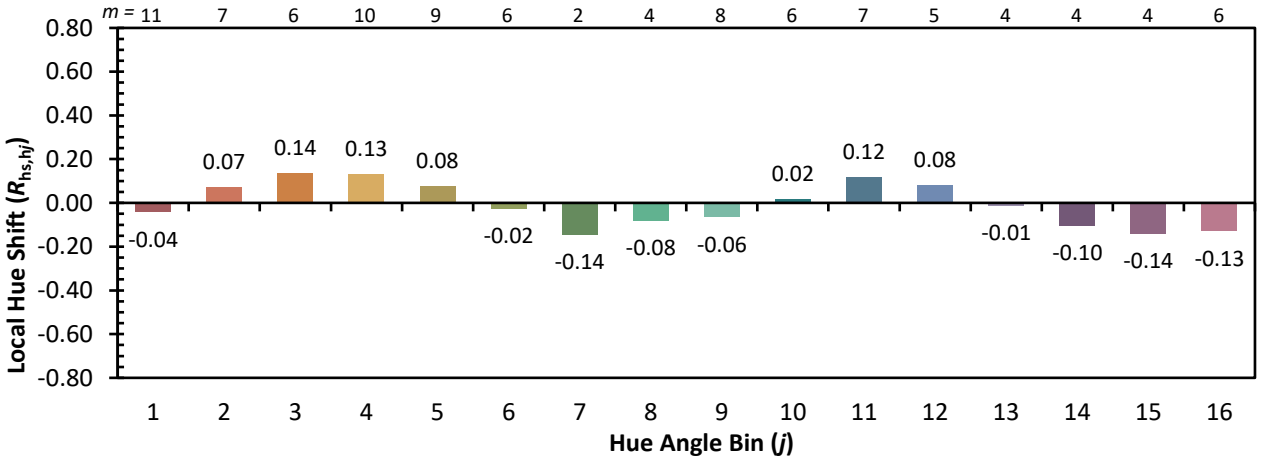
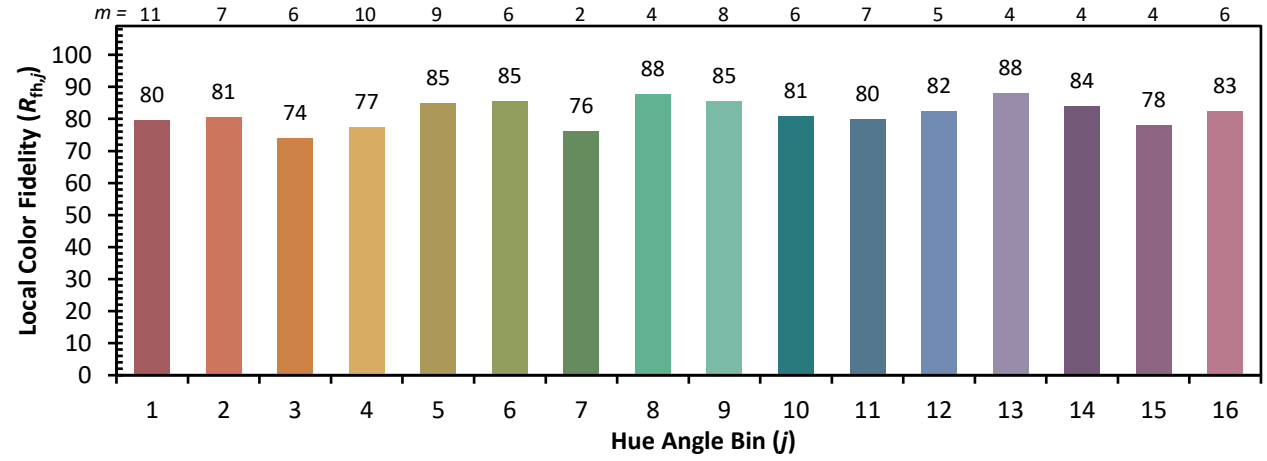
Color Rendition by Hue-Angle Bin







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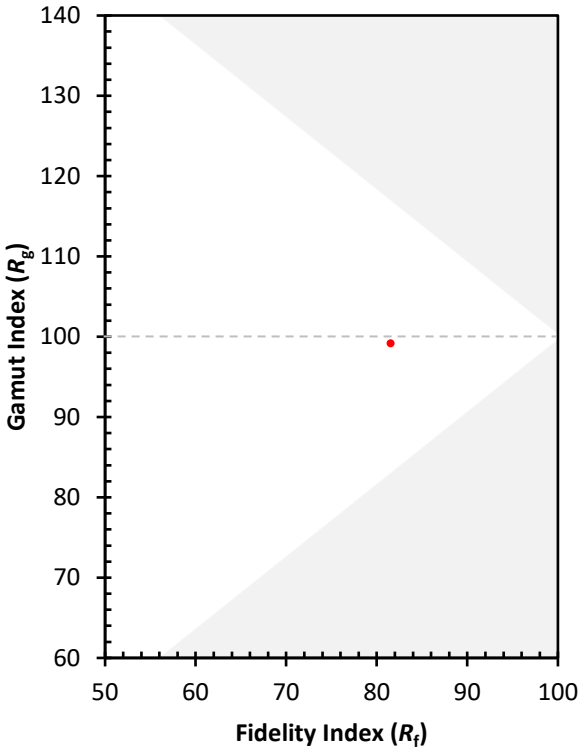
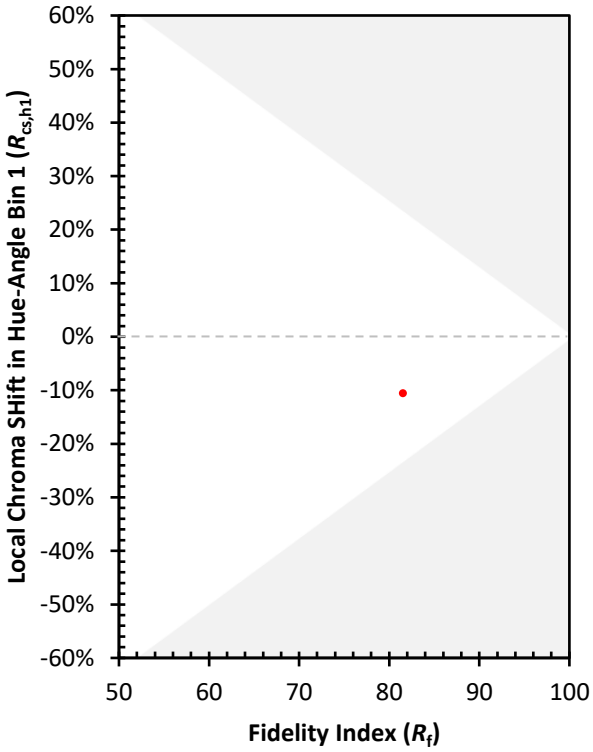
Measure Comparisons





(END OF REPORT)