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: P643413

Luminaire Tested: GWS-SA6E-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:	P643413
	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-SA6E-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32260.5 lumens
Efficiency:	N/A
Efficacy:	99.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

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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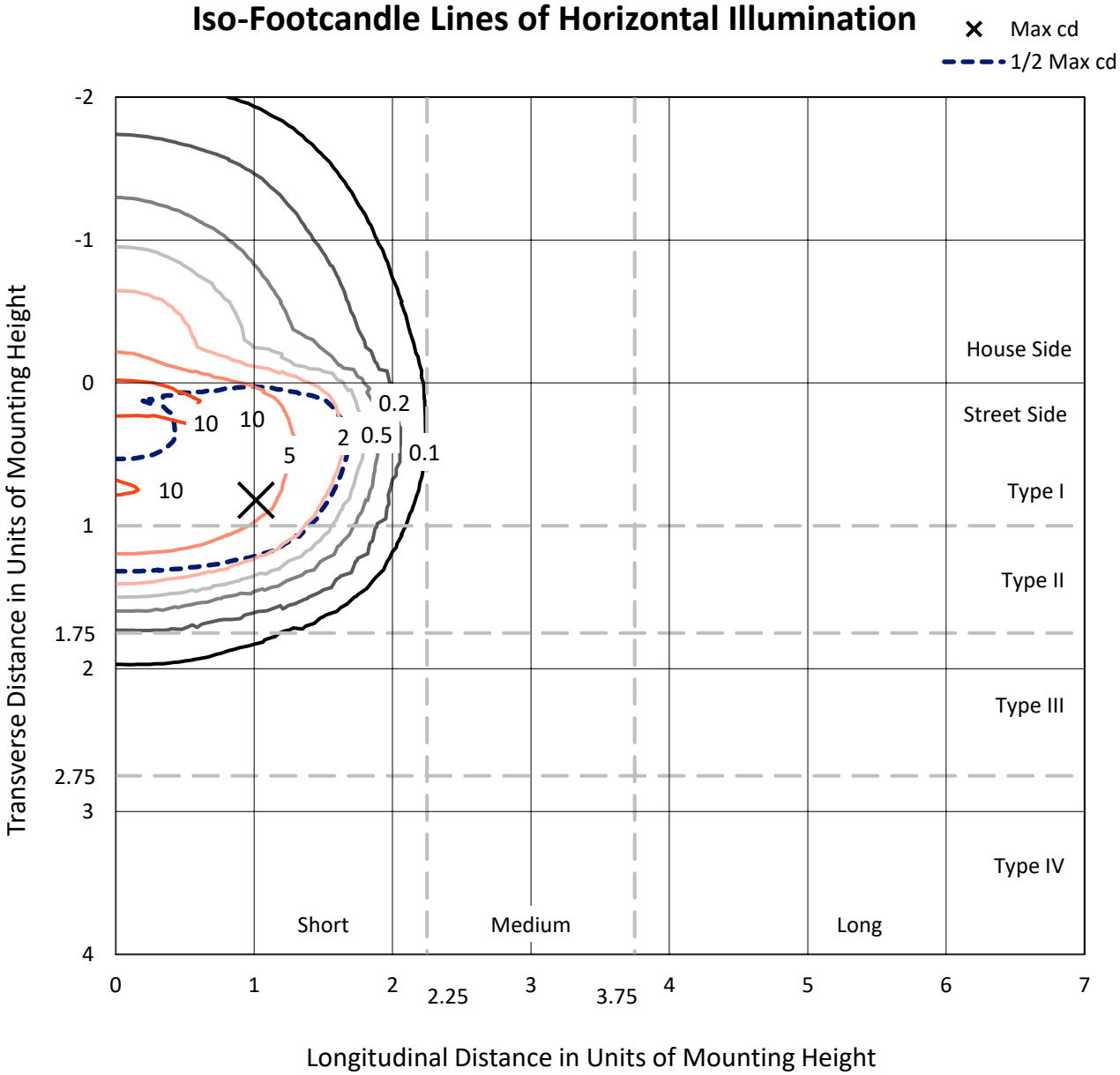
Scaled Data Report

REPORT NUMBER: P643413
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - N/A

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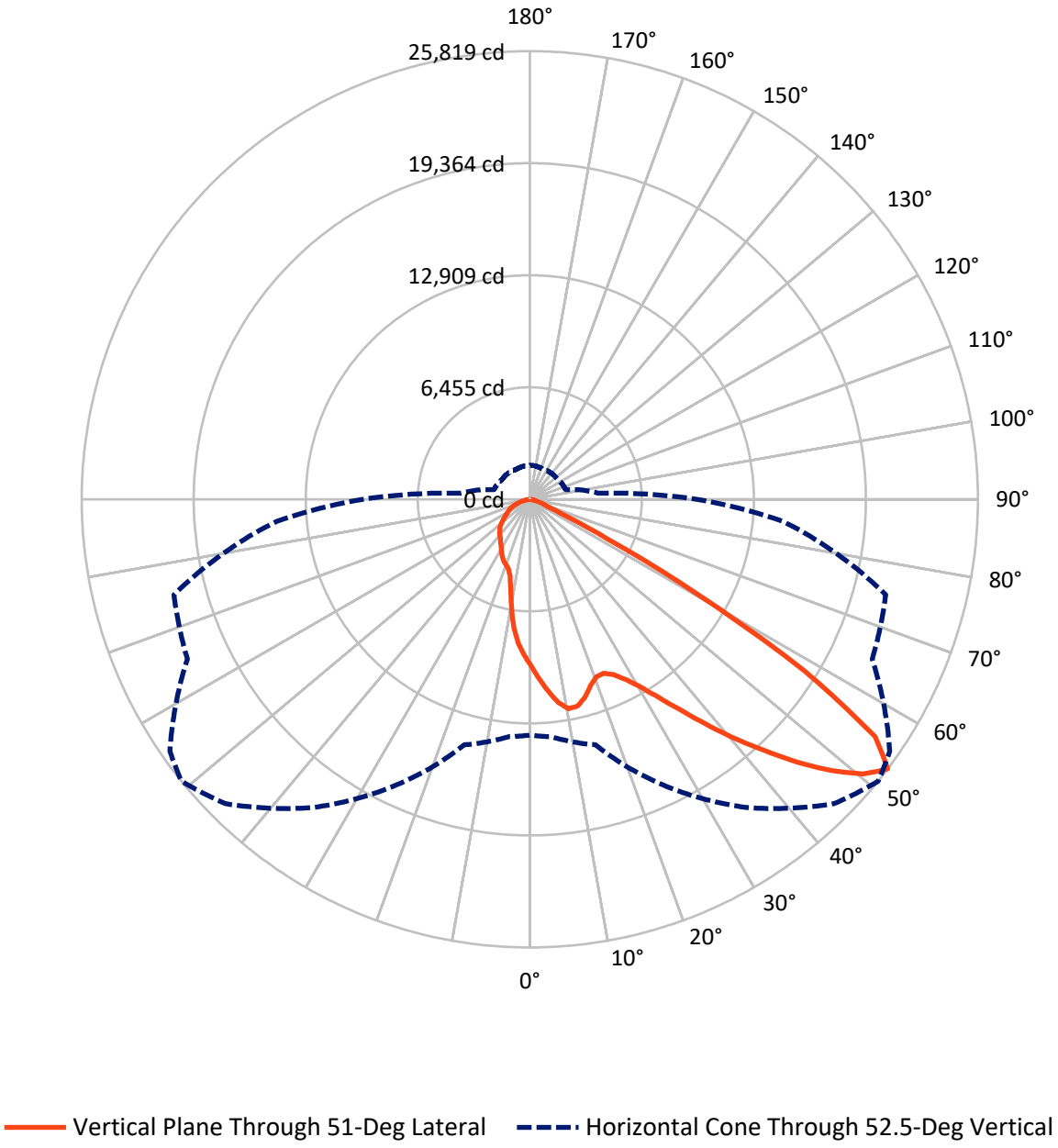
Luminous Intensity Polar Plot



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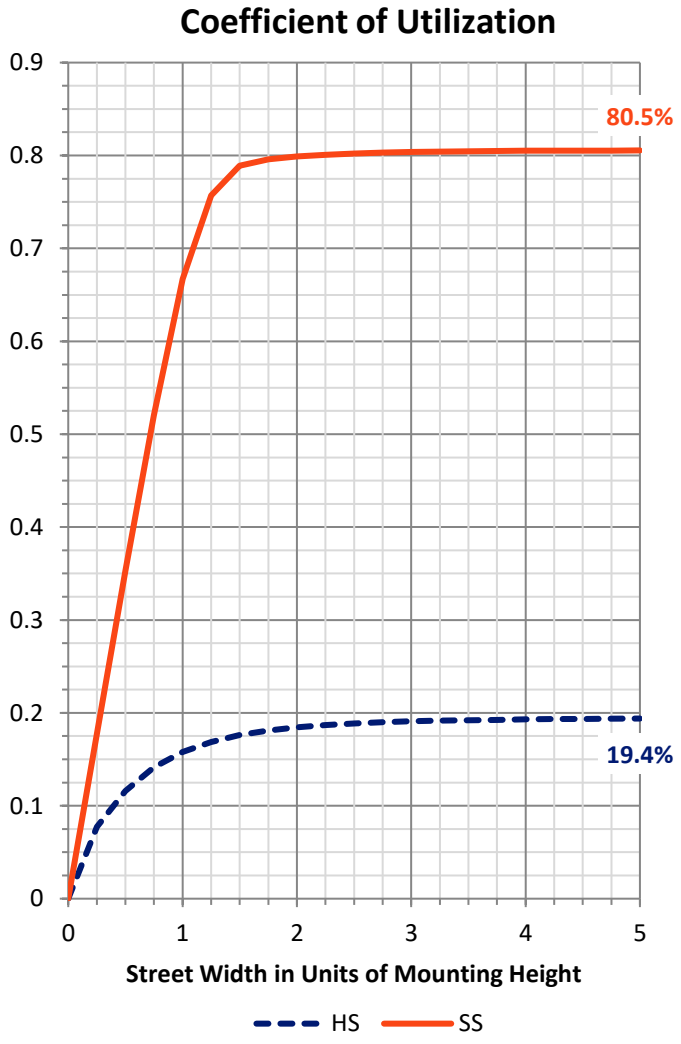
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6285.7	0.0	6285.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25974.8	0.0	25974.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	32260.5	0.0	32260.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	896.3	2.8
10°-20°	2329.0	7.2
20°-30°	3786.8	11.7
30°-40°	6001.2	18.6
40°-50°	9051.2	28.1
50°-60°	7830.0	24.3
60°-70°	1775.1	5.5
70°-80°	523.4	1.6
80°-90°	67.4	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°	32260.5	100.0
0°-180°	32260.5	100.0



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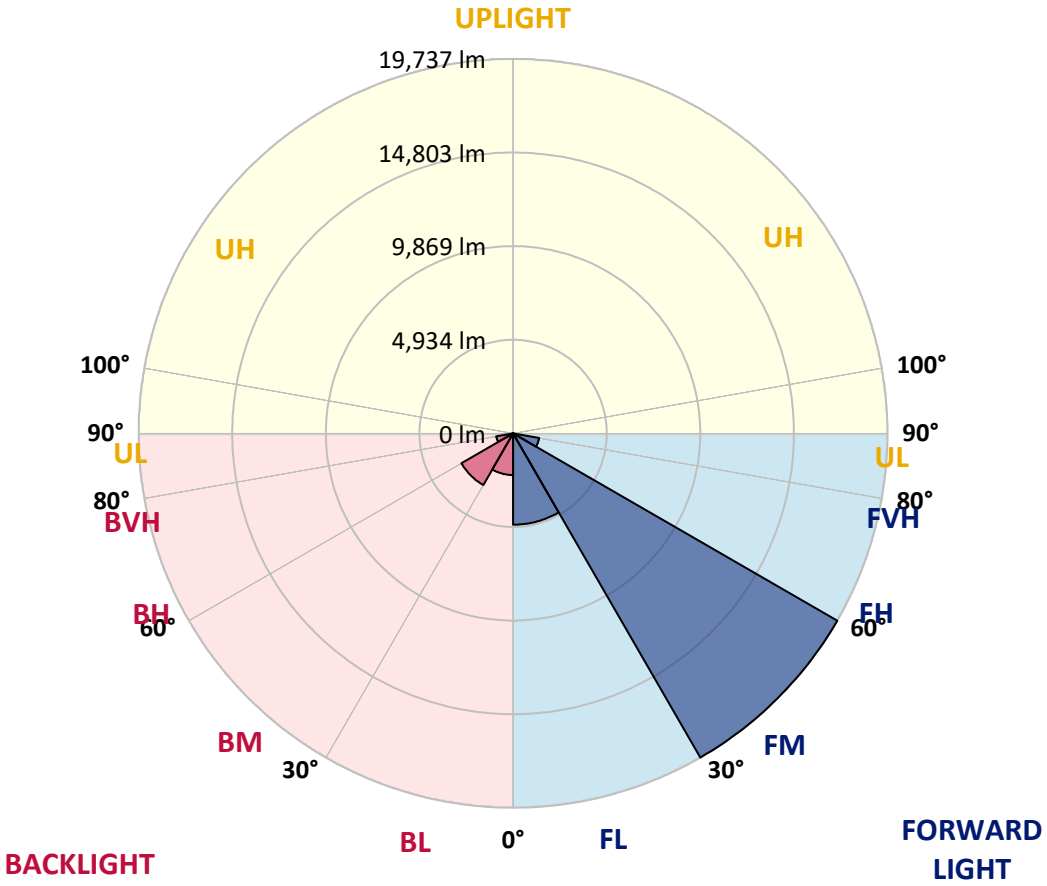
REPORT NUMBER: P643413
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4815.0	14.9			
FM	(30°-60°)	19737.4	61.2			
FH	(60°-80°)	1397.0	4.3			G1/1800
FVH	(80°-90°)	25.4	0.1			G1/100
BL	(0°-30°)	2197.2	6.8	B3/2500		
BM	(30°-60°)	3144.9	9.7	B3/5000		
BH	(60°-80°)	901.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	42.0	0.1			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: P643413
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	*9605.6*	9605.6	9605.6	9605.6	9605.6
2.5°	10704.3	10765.5	10671.1	10635.5	10576.8	10474.9	*10357.6*	10324.4	10072.1	9906.4	9720.3
5°	11780.1	11813.2	11736.7	11660.3	11514.9	11333.9	*11107.1*	11058.6	10599.8	10219.9	9824.8
7.5°	12019.7	12007.0	12073.2	12116.6	12098.7	12027.3	*11826.0*	11731.6	11183.5	10581.9	9998.1
10°	11071.4	11000.0	11244.7	11535.3	11884.6	12287.4	*12264.4*	12256.8	11780.1	11068.8	10219.9
12.5°	9814.6	9778.9	9977.8	10342.3	11002.5	11894.8	*12228.7*	12488.8	12318.0	11532.8	10467.2
15°	9095.7	9083.0	9218.1	9480.6	10005.8	11132.6	*11846.3*	12361.3	12779.4	12029.9	10729.8
17.5°	8965.7	8973.3	9019.2	9169.6	9546.9	10474.9	*11300.8*	12019.7	13138.8	12575.4	11058.6
20°	9345.5	9396.5	9317.5	9340.4	9544.4	10237.8	*10928.6*	11675.5	13368.2	13123.5	11413.0
22.5°	10189.3	10171.5	9998.1	9896.2	9898.7	10383.1	*10887.8*	11514.9	13518.7	13656.3	11734.2
25°	11145.3	11124.9	10918.4	10691.5	10548.8	10778.2	*11181.0*	11685.7	13653.8	14143.2	11991.7
27.5°	12274.6	12210.9	11981.5	11690.8	11374.7	11474.2	*11746.9*	12147.2	13862.8	14622.5	12162.5
30°	13368.2	13442.2	13113.3	12769.2	12435.2	12374.0	*12532.1*	12894.1	14288.5	15183.3	12366.4
32.5°	14818.8	14793.3	14428.7	13980.1	13503.4	13457.5	*13582.4*	13913.8	15053.3	15958.3	12677.4
35°	16575.2	16580.3	16062.8	15456.1	14778.0	14655.6	*14864.7*	15185.9	16192.8	17008.6	13169.4
37.5°	18400.5	18392.8	17941.6	17253.3	16327.9	16154.6	*16394.2*	16633.8	17617.8	18438.7	13934.2
40°	19680.2	19731.2	19519.6	19157.6	18280.6	17857.5	*18069.1*	18234.8	19167.8	20121.2	14941.1
42.5°	20406.7	20483.2	20529.1	20745.8	20284.4	19833.1	*19756.7*	19843.3	20552.0	21683.9	15886.9
45°	20562.2	20664.2	20998.1	21801.2	21979.6	21852.1	*21602.3*	21393.3	21584.5	22792.8	16506.4
47.5°	19876.5	20054.9	20768.7	22173.3	23216.0	23616.2	*23338.4*	23019.7	22181.0	23078.3	16442.6
50°	17159.0	17368.0	18976.6	21413.7	23391.9	24850.1	*24875.5*	24403.9	22109.6	22254.9	15642.2
52.5°	*13584.9*	*13727.7*	*14648.0*	*18153.2*	*21666.0*	*24799.1*	*25818.8*	*25314.0*	*21765.5*	*21225.0*	*14640.3*
55°	8119.3	8348.8	9207.9	11976.4	16878.6	21979.6	*24151.6*	24396.3	21597.2	20360.8	13957.1
57.5°	2740.4	2852.6	3673.5	5289.7	9947.2	16093.4	*18660.5*	19654.7	19606.3	19040.3	12623.9
60°	1305.2	1330.7	1496.4	2006.3	3981.9	8410.0	*11045.9*	12193.0	13238.2	13342.8	7854.2
62.5°	994.2	1009.5	1093.6	1203.2	1600.9	3543.5	*5062.8*	5939.7	6345.1	5445.2	2860.3
65°	831.1	843.8	907.5	976.4	1088.5	1534.6	*1942.5*	2240.8	2019.0	1572.9	1363.8
67.5°	693.4	703.6	752.0	826.0	902.4	1027.3	*1078.3*	1108.9	1162.5	1305.2	1254.2
70°	543.0	553.2	604.2	667.9	741.8	772.4	*820.9*	851.4	958.5	1142.1	1137.0
72.5°	418.1	430.8	458.9	499.7	560.8	591.4	*645.0*	680.6	741.8	889.7	950.9
75°	305.9	313.6	339.0	351.8	359.4	351.8	*405.3*	446.1	527.7	583.8	599.1
77.5°	124.9	140.2	135.1	135.1	160.6	193.7	*221.8*	247.3	303.4	336.5	339.0
80°	51.0	56.1	66.3	73.9	89.2	114.7	*132.6*	142.8	168.3	188.6	203.9
82.5°	30.6	33.1	38.2	40.8	51.0	66.3	*76.5*	84.1	104.5	124.9	132.6
85°	15.3	15.3	17.8	20.4	25.5	30.6	*35.7*	40.8	53.5	66.3	73.9
87.5°	2.5	2.5	2.5	5.1	7.6	10.2	*12.7*	15.3	17.8	20.4	25.5
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: P643413
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6
2.5°	9610.7	9473.0	9312.4	9184.9	9037.1	8927.5	8772.0	8675.1	8583.3	8506.8	8450.8
5°	9620.9	9388.9	9054.9	8759.2	8453.3	8162.7	7864.4	7622.2	7405.6	7224.6	7209.3
7.5°	9679.5	9345.5	8822.9	8305.4	7708.9	7132.8	6556.7	6087.6	5730.7	5544.6	5506.4
10°	9778.9	9340.4	8585.9	7759.9	6742.8	5814.8	5131.6	4774.7	4568.2	4494.3	4468.8
12.5°	9883.4	9327.7	8282.5	6990.0	5577.8	4764.5	4389.8	4346.5	4384.7	4389.8	4387.3
15°	10010.9	9320.0	7900.1	6087.6	4726.3	4277.6	4303.1	4394.9	4484.1	4504.5	4504.5
17.5°	10166.4	9302.2	7380.1	5205.6	4193.5	4183.3	4318.4	4440.8	4524.9	4540.2	4540.2
20°	10329.5	9256.3	6740.2	4486.7	3976.8	4124.7	4270.0	4364.3	4422.9	4443.3	4445.9
22.5°	10441.7	9133.9	6003.5	3953.9	3841.7	4012.5	4117.0	4213.9	4213.9	4162.9	4147.6
25°	10464.7	8871.4	5205.6	3589.3	3681.1	3839.2	3946.2	3890.1	3785.6	3744.8	3742.3
27.5°	10380.5	8489.0	4417.8	3329.3	3487.4	3645.4	3627.6	3546.0	3500.1	3459.3	3474.6
30°	10278.6	8030.1	3734.6	3115.2	3263.0	3418.5	3357.4	3329.3	3296.2	3250.3	3260.5
32.5°	10209.7	7517.7	3209.5	2949.5	3112.6	3138.1	3181.5	3178.9	3148.3	3061.6	3056.5
35°	10230.1	7000.2	2857.7	2814.4	2987.7	2977.5	3059.1	3043.8	2832.2	2712.4	2704.8
37.5°	10393.3	6503.1	2651.2	2707.3	2788.9	2852.6	2924.0	2740.4	2666.5	2590.0	2595.1
40°	10704.3	6041.7	2539.0	2648.7	2669.1	2763.4	2597.7	2595.1	2562.0	2493.2	2490.6
42.5°	11056.1	5651.7	2462.6	2620.6	2592.6	2610.4	2434.5	2454.9	2452.4	2409.0	2396.3
45°	11270.2	5292.2	2401.4	2516.1	2523.8	2345.3	2291.8	2314.7	2327.5	2304.5	2302.0
47.5°	11048.4	4879.3	2337.7	2355.5	2421.8	2225.5	2159.2	2161.8	2184.7	2187.3	2177.1
50°	10426.4	4417.8	2261.2	2217.8	2174.5	2100.6	2039.4	2026.7	2049.6	2072.5	2080.2
52.5°	*9623.4*	*3976.8*	*2133.7*	*2067.4*	*1965.5*	*1965.5*	*1937.4*	*1896.6*	*1927.2*	*1957.8*	*1968.0*
55°	9034.5	3650.5	1952.7	1878.8	1766.6	1804.9	1799.8	1764.1	1804.9	1827.8	1835.5
57.5°	7828.7	2934.2	1718.2	1695.2	1600.9	1646.8	1657.0	1611.1	1590.7	1595.8	1603.5
60°	4647.3	1894.1	1549.9	1547.4	1463.3	1516.8	1547.4	1501.5	1440.3	1448.0	1458.2
62.5°	2085.3	1448.0	1338.4	1328.2	1325.6	1394.4	1427.6	1384.2	1297.6	1305.2	1315.4
65°	1312.9	1251.7	1162.5	1162.5	1203.2	1261.9	1287.4	1251.7	1152.3	1139.5	1149.7
67.5°	1218.5	1165.0	1073.2	1055.4	1075.8	1124.2	1126.8	1057.9	999.3	989.1	989.1
70°	1093.6	1052.8	963.6	927.9	920.3	917.7	910.1	892.2	854.0	843.8	848.9
72.5°	905.0	876.9	820.9	782.6	762.2	759.7	729.1	713.8	680.6	675.6	673.0
75°	599.1	606.7	606.7	601.6	583.8	576.1	543.0	527.7	489.5	474.2	471.6
77.5°	354.3	362.0	372.2	374.7	372.2	372.2	341.6	323.8	285.5	265.1	260.0
80°	216.7	221.8	226.9	234.5	224.3	216.7	188.6	170.8	153.0	140.2	137.7
82.5°	140.2	145.3	147.9	153.0	147.9	137.7	114.7	104.5	91.8	81.6	79.0
85°	79.0	81.6	86.7	86.7	79.0	71.4	58.6	51.0	43.3	38.2	38.2
87.5°	28.0	28.0	28.0	30.6	25.5	22.9	15.3	10.2	7.6	7.6	7.6
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

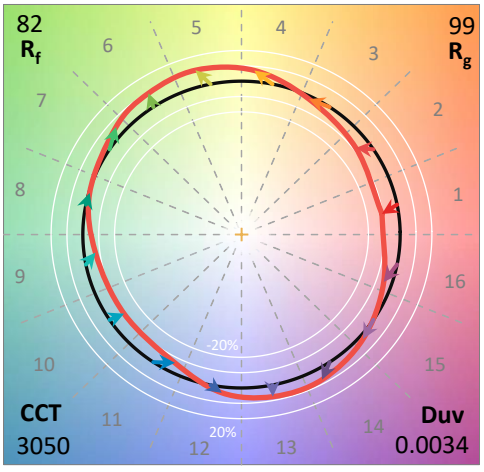
Test Information

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

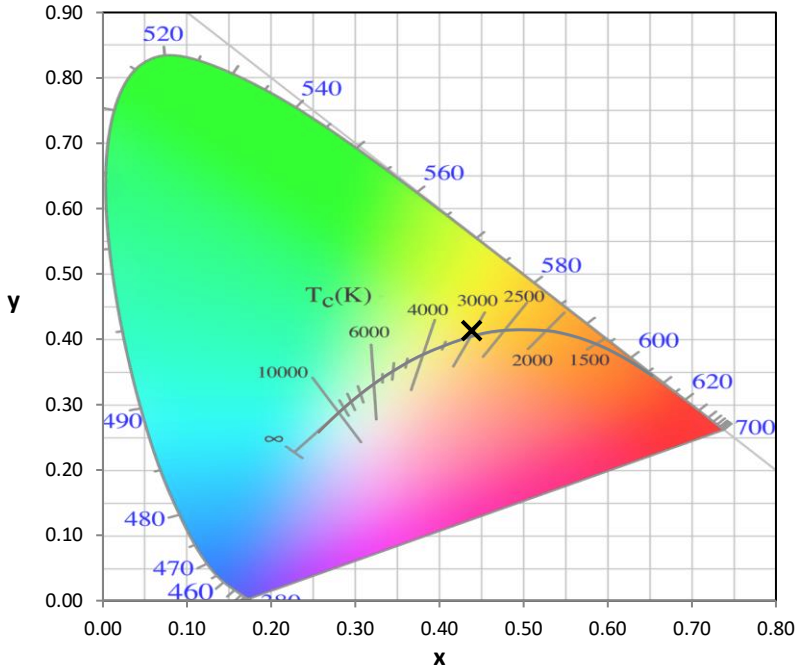
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

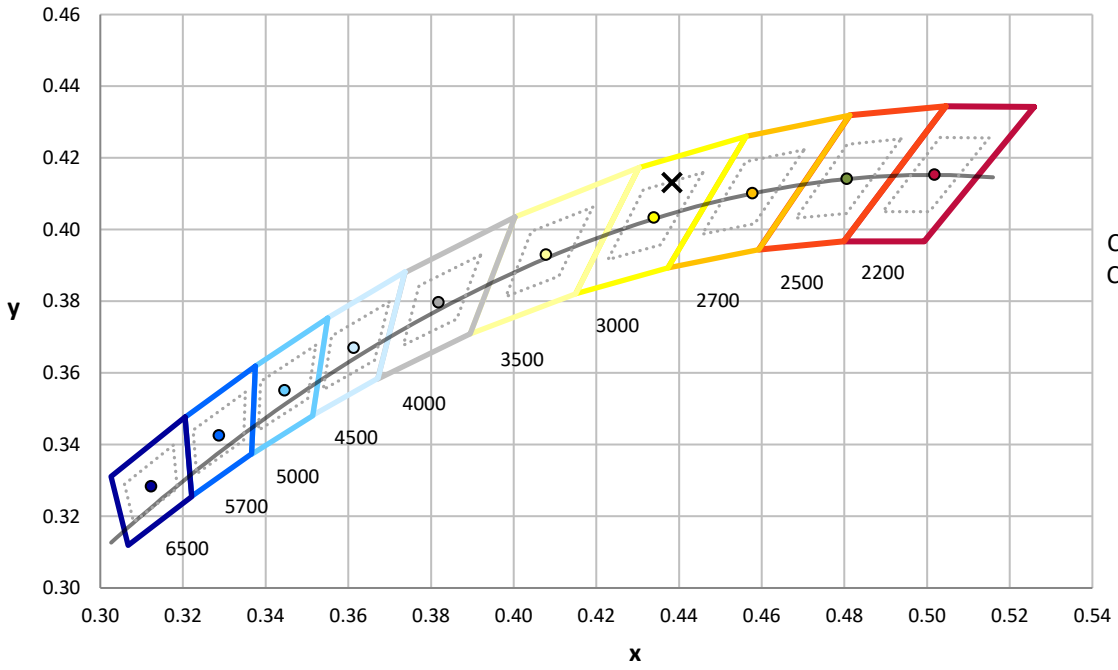
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

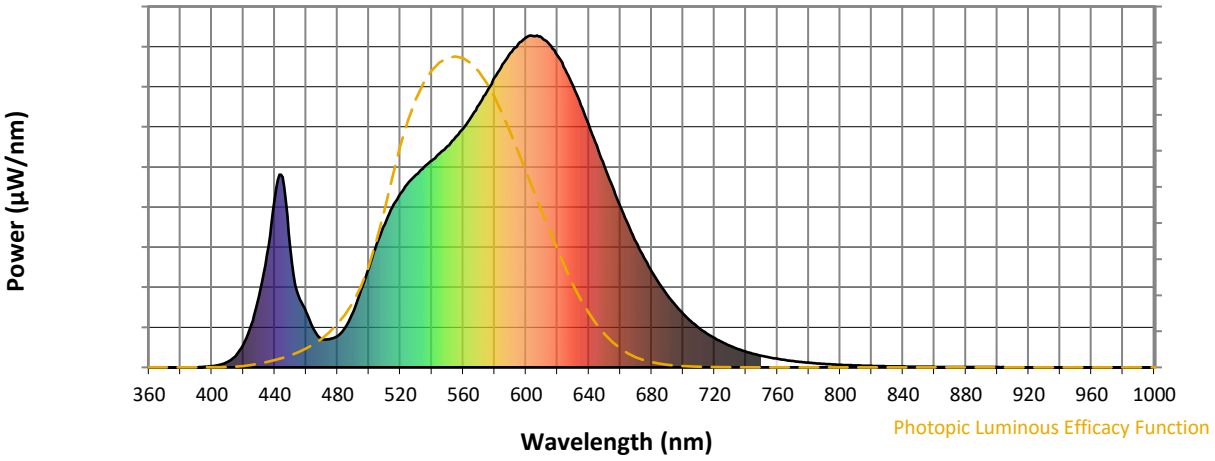


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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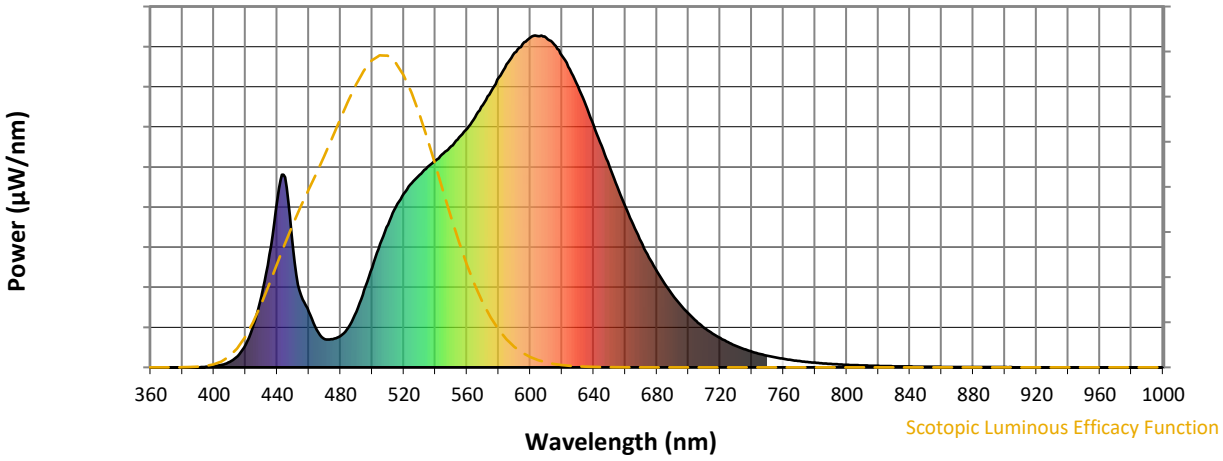
Scotopic Flux vs. Wavelength



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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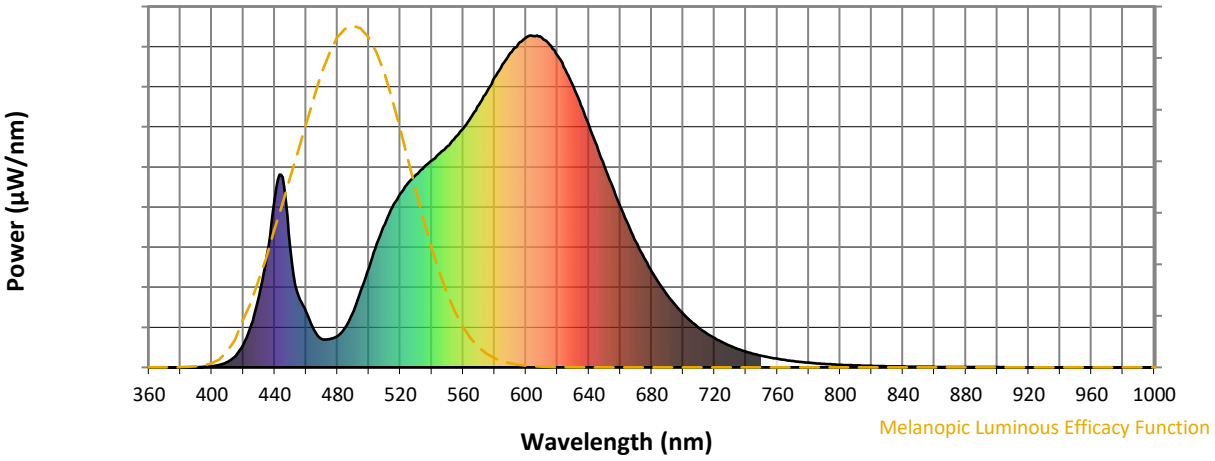
Melanopic Flux vs. Wavelength



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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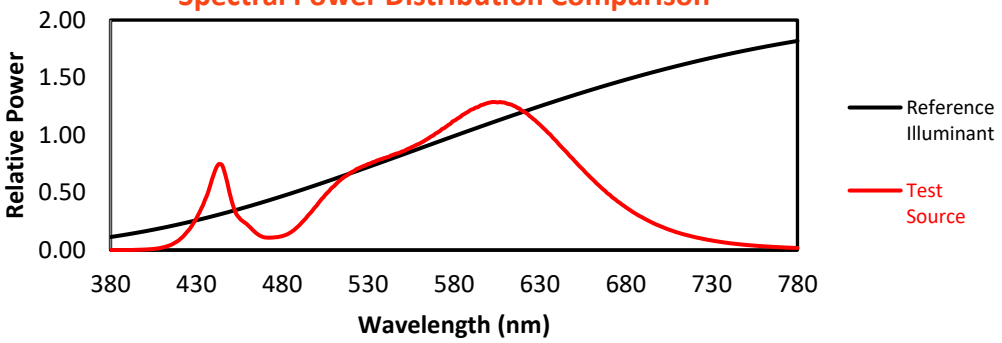
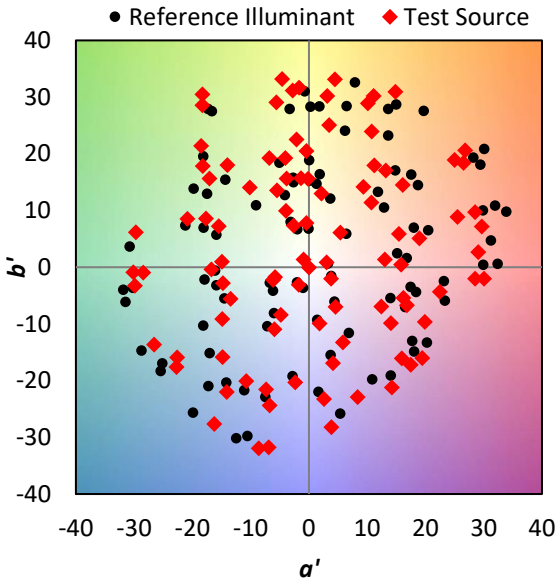
Summary

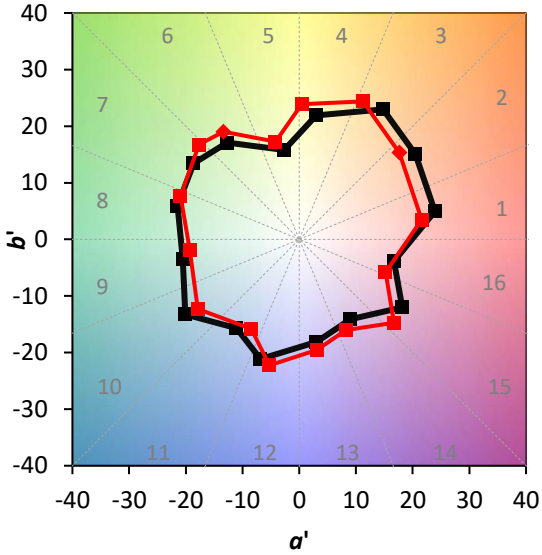
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

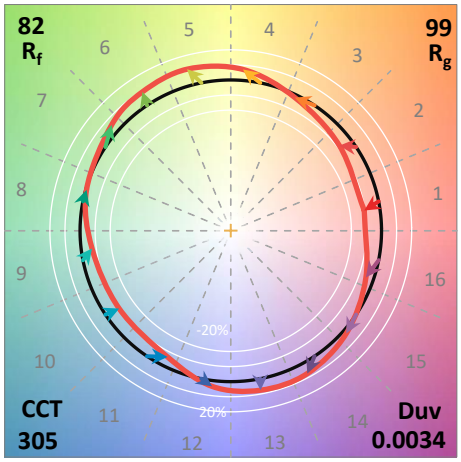
Spectral Power Distribution Comparison

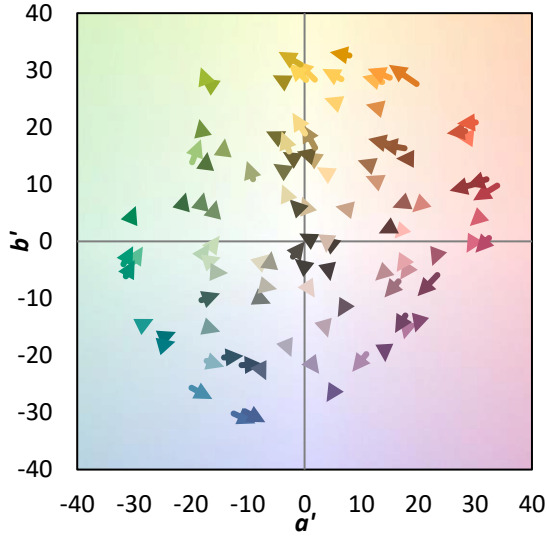


Color Vector Graphics









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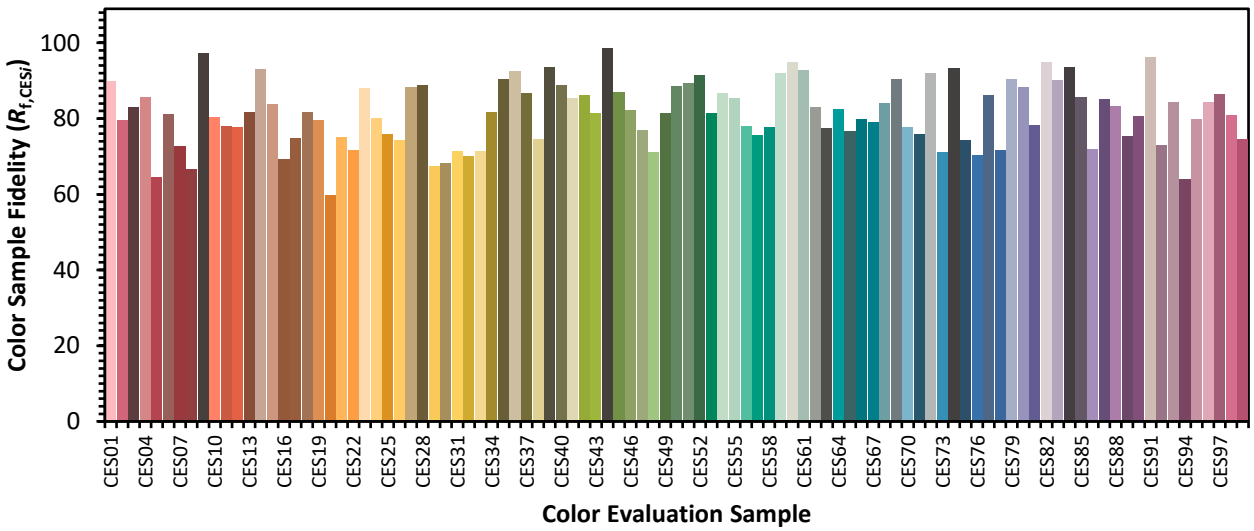
Individual Sample Fidelity Index ($R_{f,i}$)

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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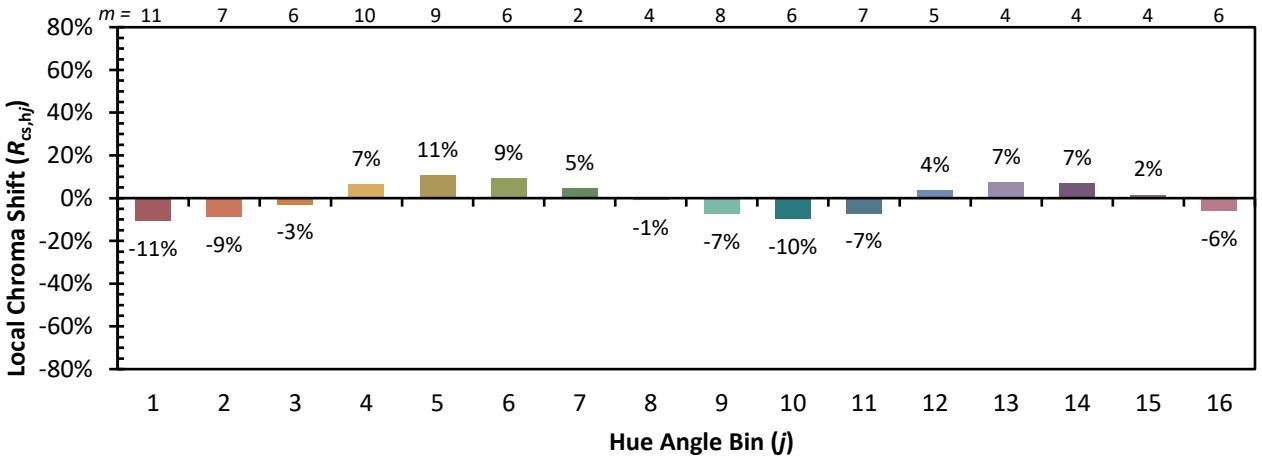
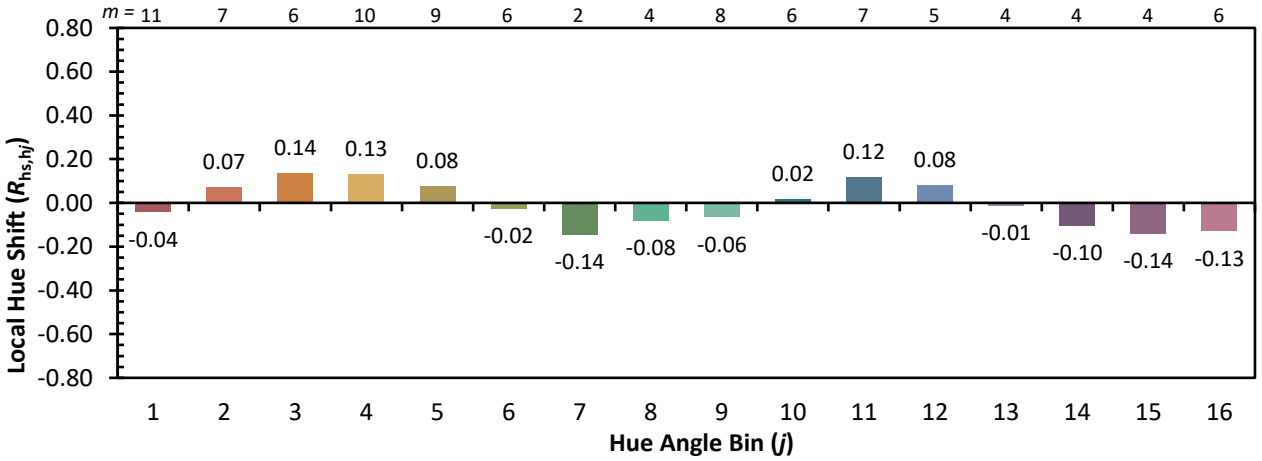
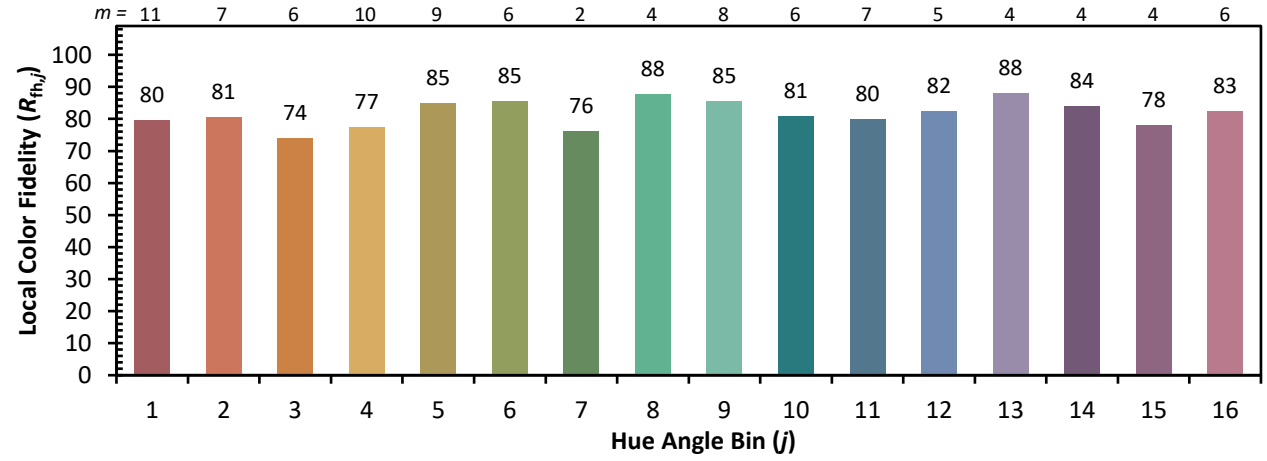
Color Rendition by Hue-Angle Bin







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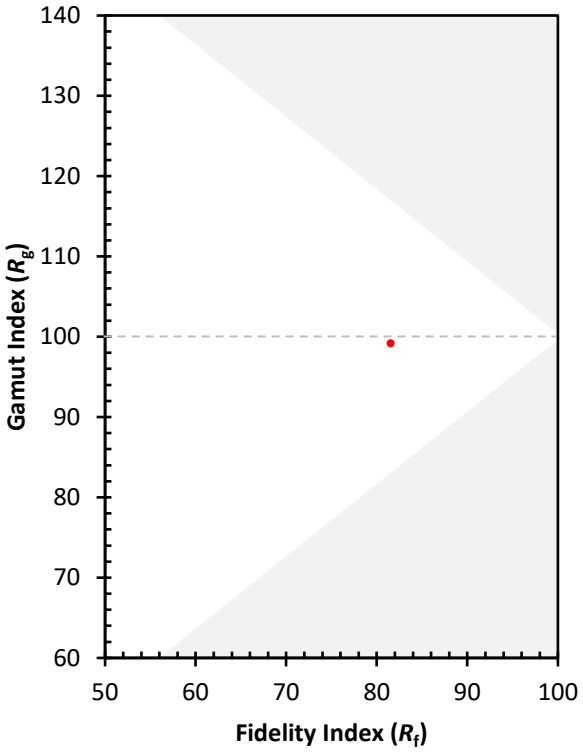
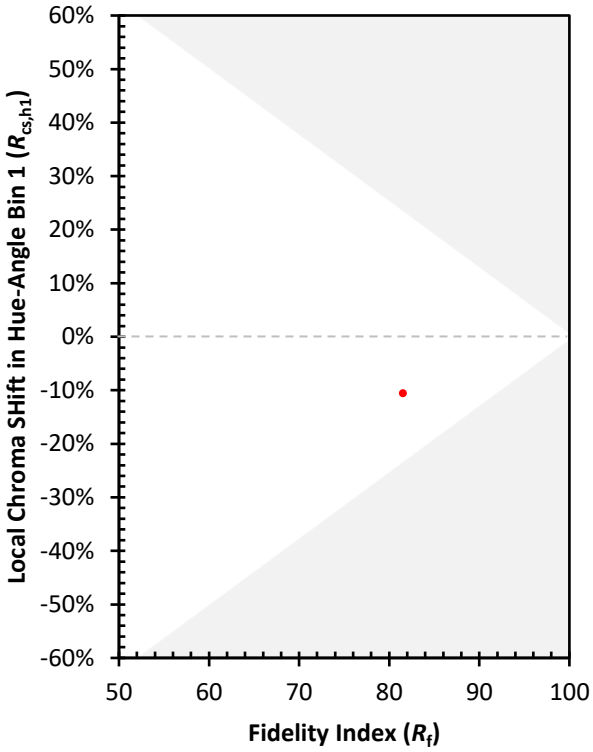
Measure Comparisons





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