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: P643921

Luminaire Tested: GWS-SA6F-830-U-SL3-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:	P643921
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-SL3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38738.9 lumens
Efficiency:	N/A
Efficacy:	104.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	372.6
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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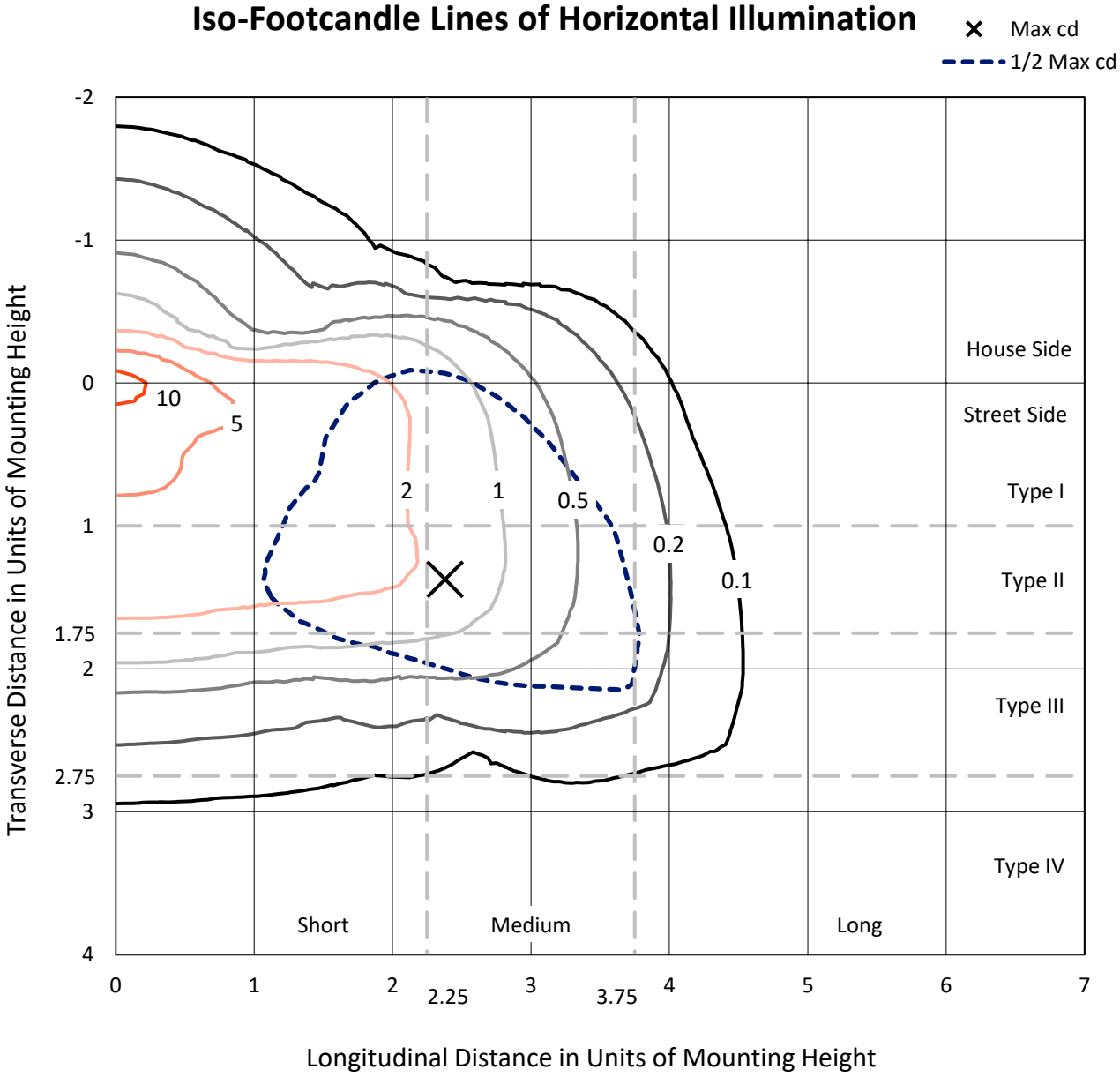
Scaled Data Report

REPORT NUMBER: P643921
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
Type III - Medium - N/A

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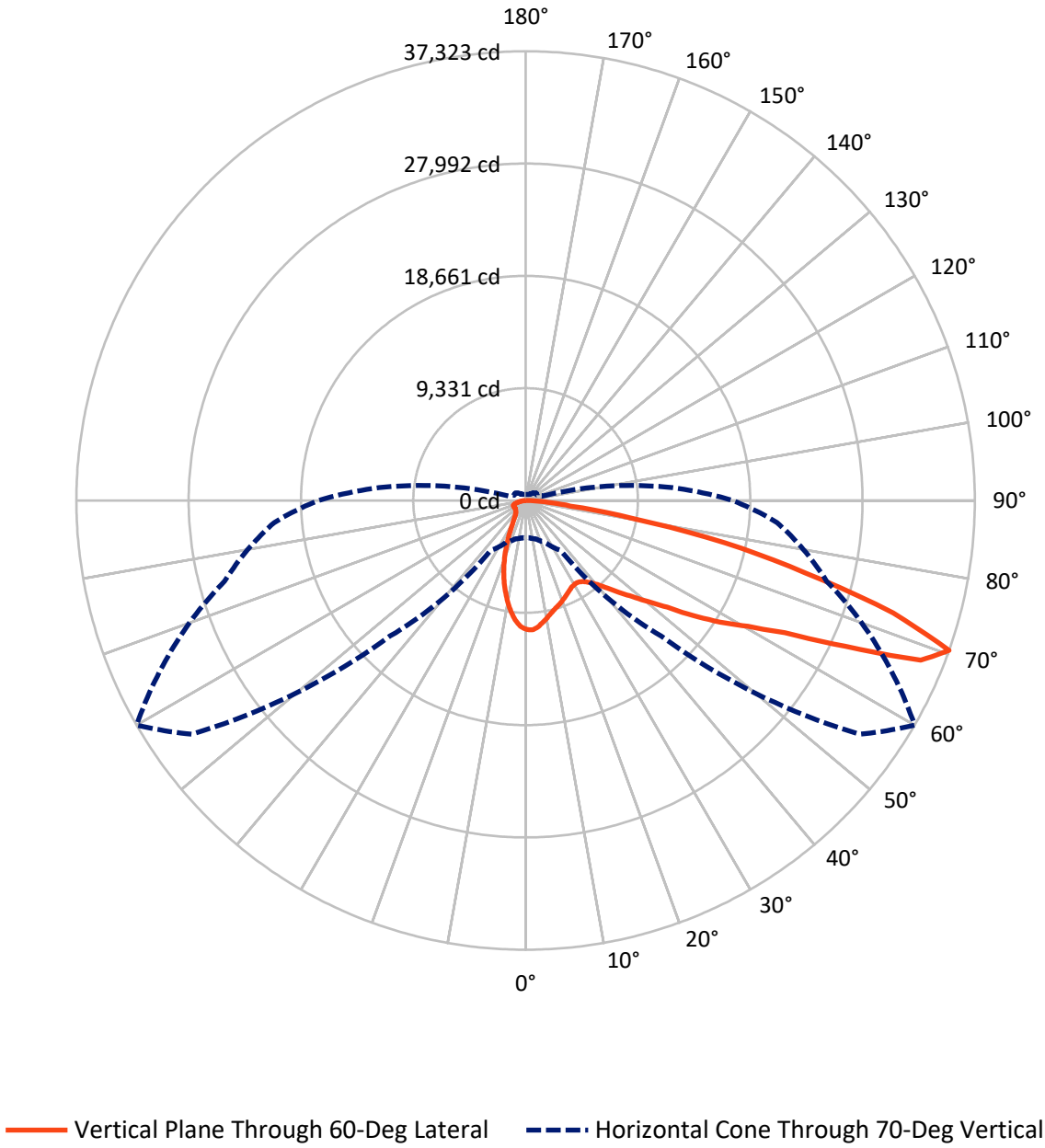
Luminous Intensity Polar Plot



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REPORT NUMBER: P643921
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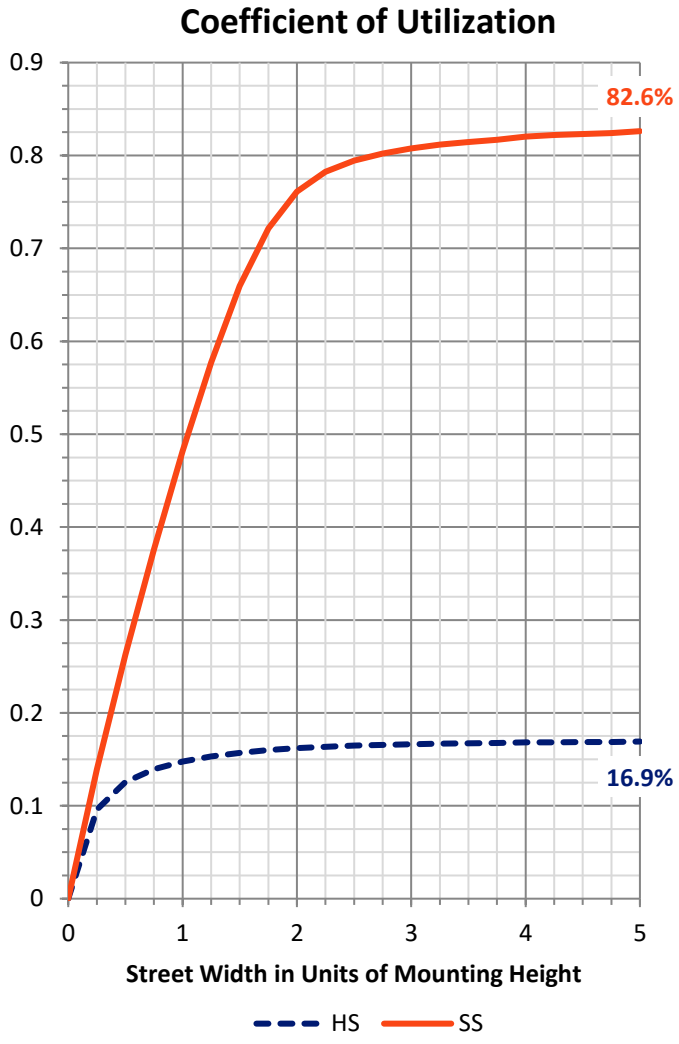
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6625.3	0.0	6625.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	32113.6	0.0	32113.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	38738.9	0.0	38738.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.0	2.4
10°-20°	2070.0	5.3
20°-30°	2651.0	6.8
30°-40°	3484.1	9.0
40°-50°	5054.8	13.0
50°-60°	7886.7	20.4
60°-70°	10325.2	26.7
70°-80°	5709.5	14.7
80°-90°	633.6	1.6
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°	38738.9	100.0
0°-180°	38738.9	100.0



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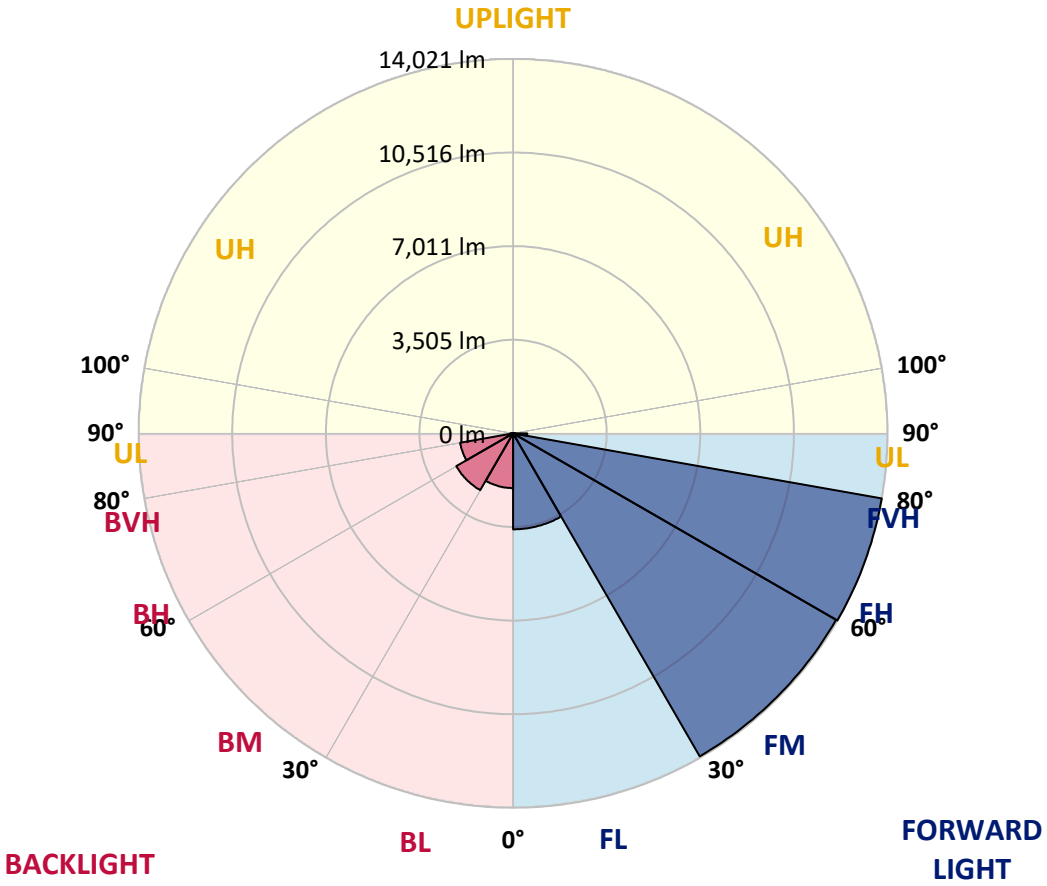
Scaled Data Report

REPORT NUMBER: P643921
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3595.2	9.3			
FM	(30°-60°)	13969.1	36.1			
FH	(60°-80°)	14021.3	36.2			G5
FVH	(80°-90°)	528.0	1.4			G4/750
BL	(0°-30°)	2049.8	5.3	B3/2500		
BM	(30°-60°)	2456.4	6.3	B2/2500		
BH	(60°-80°)	2013.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	105.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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REPORT NUMBER: P643921
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	*10719.6*	10719.6	10719.6	10719.6
2.5°	10569.3	10580.7	10611.8	10657.2	10702.5	10725.2	10781.9	*10764.9*	10753.6	10730.9	10702.5
5°	10101.7	10124.3	10152.7	10240.5	10339.8	10419.1	10546.7	*10560.8*	10566.5	10577.8	10532.5
7.5°	9506.4	9512.1	9580.1	9696.4	9826.7	9962.8	10175.4	*10234.9*	10285.9	10342.6	10305.7
10°	8848.9	8863.0	8914.1	9081.3	9305.2	9506.4	9792.7	*9891.9*	9999.6	10124.3	10073.3
12.5°	8310.3	8313.2	8395.4	8573.9	8817.7	9089.8	9446.9	*9566.0*	9707.7	9903.3	9857.9
15°	7882.4	7882.4	7958.9	8111.9	8392.5	8712.8	9138.0	*9291.0*	9483.8	9747.4	9668.0
17.5°	7542.2	7545.1	7593.3	7754.8	8004.2	8358.5	8863.0	*9070.0*	9282.5	9631.2	9512.1
20°	7363.7	7349.5	7358.0	7457.2	7669.8	8012.7	8588.1	*8829.0*	9115.3	9551.8	9370.4
22.5°	7355.2	7329.7	7292.8	7301.3	7426.0	7709.5	8293.3	*8585.3*	8945.2	9486.6	9225.8
25°	7499.7	7471.4	7406.2	7332.5	7321.2	7491.2	8015.6	*8347.2*	8769.5	9458.3	9087.0
27.5°	7743.5	7723.6	7638.6	7528.1	7411.9	7406.2	7805.8	*8151.6*	8642.0	9486.6	8987.8
30°	8066.6	8032.6	7978.7	7837.0	7661.3	7479.9	7723.6	*8046.8*	8556.9	9577.3	8945.2
32.5°	8432.2	8412.4	8361.4	8219.6	8032.6	7743.5	7788.8	*8069.4*	8556.9	9736.0	8953.7
35°	8820.5	8817.7	8817.7	8724.2	8517.3	8157.3	8046.8	*8262.2*	8687.3	9991.1	9044.4
37.5°	9197.5	9194.7	9285.4	9319.4	9084.1	8695.8	8486.1	*8647.6*	8973.6	10368.1	9268.4
40°	9503.6	9515.0	9713.4	9883.4	9753.0	9393.1	9098.3	*9180.5*	9438.4	10903.8	9659.5
42.5°	9812.6	9843.7	10141.3	10441.8	10492.8	10181.0	9883.4	*9931.6*	10104.5	11612.4	10243.4
45°	10149.8	10164.0	10580.7	11000.2	11246.7	11062.5	10818.8	*10883.9*	10923.6	12488.2	11113.5
47.5°	10475.8	10512.6	11051.2	11626.6	12094.2	12077.2	11941.2	*11921.3*	11929.8	13553.9	12142.4
50°	10920.8	10974.6	11606.7	12301.1	12987.0	13301.7	13341.3	*13191.1*	13128.8	14738.7	13423.5
52.5°	11765.4	11765.4	12332.3	13015.4	13936.6	14716.0	14982.4	*14735.8*	14537.4	15991.5	14784.0
55°	12822.7	12868.0	13318.7	13871.4	15039.1	16204.0	17105.4	*16833.3*	16272.1	17354.8	16209.7
57.5°	13293.2	13349.8	14064.1	14922.9	16481.8	17896.2	19146.1	*19049.7*	18230.6	18772.0	17689.2
60°	12442.8	12561.9	13545.4	14985.3	17788.5	20625.6	21507.1	*21226.5*	20055.9	20260.0	19293.5
62.5°	10379.4	10509.8	11601.0	13610.6	17607.1	23576.2	25228.7	*24194.1*	22334.8	22139.2	21430.6
65°	6193.1	6187.4	7499.7	10164.0	15370.7	24395.3	31118.5	*29188.3*	25855.0	24718.5	23630.1
67.5°	3936.9	3928.4	4203.4	5385.3	10229.2	22388.6	34905.2	*35406.8*	30636.6	26614.7	23811.5
70°	*3106.5*	*3103.6*	*3302.0*	*3840.6*	*5059.3*	*15931.9*	*33850.8*	*37322.9*	*33524.8*	*25891.9*	*20965.8*
72.5°	2264.7	2270.3	2576.4	3217.0	3902.9	7998.6	27411.1	*31934.8*	30835.0	22856.3	17020.3
75°	1626.9	1635.4	1819.7	2463.1	3599.6	4373.4	18227.8	*24012.7*	23460.0	18321.3	11708.7
77.5°	1034.5	1045.9	1207.4	1726.1	2908.1	3531.6	11051.2	*16952.3*	15608.8	10322.7	4163.7
80°	632.1	668.9	805.0	1286.8	2324.2	2650.1	5524.2	*8931.1*	7817.2	2831.5	1400.2
82.5°	326.0	354.3	484.7	796.5	1601.4	2327.0	3126.3	*3752.7*	2420.5	1184.8	745.4
85°	102.0	119.0	170.1	323.1	762.4	1442.7	2069.1	*1865.0*	1111.1	558.4	345.8
87.5°	25.5	25.5	28.3	28.3	31.2	65.2	399.6	*422.3*	294.8	175.7	141.7
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: P643921
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6
2.5°	10645.9	10577.8	10549.5	10546.7	10475.8	10373.8	10305.7	10257.6	10229.2	10223.5	10223.5
5°	10456.0	10368.1	10251.9	10164.0	9974.1	9781.4	9619.8	9529.1	9424.3	9410.1	9407.2
7.5°	10203.7	10076.2	9855.1	9608.5	9276.9	8956.6	8684.5	8500.2	8316.0	8282.0	8270.7
10°	9931.6	9758.7	9381.7	8948.1	8452.1	7973.1	7556.4	7230.5	7015.0	6862.0	6833.6
12.5°	9662.3	9432.8	8880.1	8233.8	7553.6	6898.8	6272.4	5739.6	5354.1	5130.2	5090.5
15°	9410.1	9089.8	8333.0	7508.2	6623.9	5728.2	4841.1	4149.5	3608.1	3415.4	3370.1
17.5°	9180.5	8780.9	7803.0	6757.1	5654.6	4484.0	3474.9	2859.9	2542.4	2446.1	2423.4
20°	8950.9	8463.4	7264.5	5966.3	4625.7	3313.4	2539.6	2250.5	2131.4	2094.6	2083.3
22.5°	8704.3	8114.8	6677.8	5186.9	3585.5	2480.1	2077.6	1950.0	1913.2	1916.0	1913.2
25°	8457.7	7760.5	6062.7	4339.4	2670.0	2012.4	1814.0	1765.8	1774.3	1799.8	1805.5
27.5°	8253.7	7445.9	5459.0	3409.7	2086.1	1731.8	1638.3	1635.4	1666.6	1700.6	1706.3
30°	8106.3	7165.3	4863.8	2621.8	1717.6	1539.1	1502.2	1519.2	1556.1	1581.6	1590.1
32.5°	8001.4	6924.3	4228.9	2060.6	1505.0	1403.0	1386.0	1403.0	1425.7	1451.2	1456.9
35°	7964.6	6748.6	3605.3	1680.8	1360.5	1303.8	1292.5	1301.0	1312.3	1326.5	1332.1
37.5°	8046.8	6660.7	2953.4	1462.5	1272.6	1238.6	1221.6	1215.9	1218.8	1224.4	1227.3
40°	8290.5	6700.4	2420.5	1335.0	1215.9	1184.8	1156.4	1145.1	1142.2	1147.9	1145.1
42.5°	8710.0	6867.7	2035.1	1261.3	1170.6	1125.2	1094.1	1082.7	1082.7	1096.9	1096.9
45°	9325.0	7196.4	1757.3	1207.4	1130.9	1074.2	1040.2	1034.5	1045.9	1068.6	1071.4
47.5°	10226.4	7678.3	1590.1	1167.8	1094.1	1028.9	994.9	992.0	1014.7	1051.5	1054.4
50°	11294.9	8372.7	1499.4	1139.4	1068.6	992.0	958.0	960.8	986.4	1026.0	1034.5
52.5°	12581.7	9319.4	1505.0	1128.1	1054.4	969.4	935.3	929.7	955.2	994.9	1003.4
55°	13911.0	10470.1	1615.6	1130.9	1034.5	958.0	912.7	892.8	915.5	943.8	946.7
57.5°	15373.6	11768.3	1890.5	1125.2	1009.0	946.7	892.8	847.5	861.6	878.7	887.2
60°	17023.2	13296.0	2482.9	1136.6	997.7	921.2	853.1	793.6	790.8	802.1	805.0
62.5°	19228.3	15373.6	3149.0	1156.4	1023.2	890.0	793.6	731.3	719.9	725.6	728.4
65°	20914.8	16365.6	2939.2	1139.4	1077.1	867.3	736.9	671.7	649.1	643.4	643.4
67.5°	20228.8	15053.3	2046.4	1094.1	1102.6	870.1	691.6	609.4	581.0	566.9	564.0
70°	*17213.1*	*12227.4*	*1422.8*	*1048.7*	*1074.2*	*864.5*	*643.4*	*558.4*	*521.5*	*501.7*	*498.8*
72.5°	13599.3	9336.4	1150.8	958.0	975.0	779.4	572.5	501.7	470.5	445.0	445.0
75°	8752.5	5697.1	960.8	853.1	796.5	606.6	496.0	447.8	416.7	391.1	391.1
77.5°	2944.9	2114.4	745.4	722.8	595.2	456.3	416.7	385.5	360.0	337.3	334.5
80°	1196.1	1003.4	547.0	547.0	416.7	348.6	326.0	311.8	294.8	266.4	266.4
82.5°	694.4	609.4	382.6	331.6	277.8	240.9	226.7	212.6	212.6	192.7	192.7
85°	334.5	337.3	229.6	204.1	158.7	138.9	133.2	124.7	121.9	110.5	107.7
87.5°	181.4	184.2	116.2	90.7	62.4	53.9	45.3	42.5	39.7	36.8	36.8
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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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

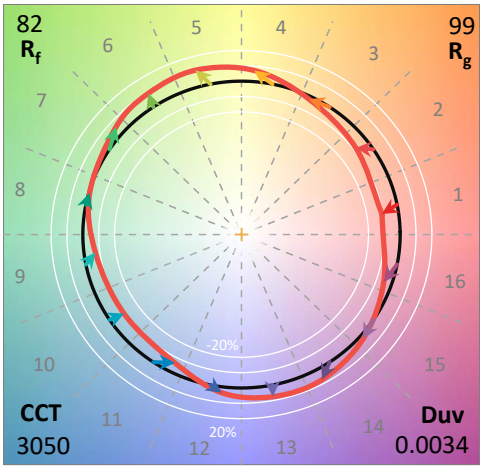
Test Information

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

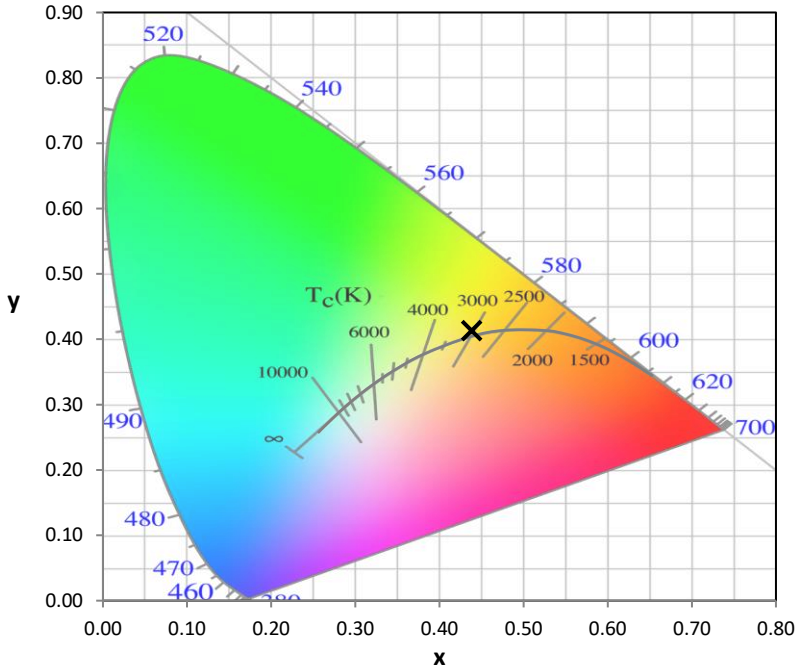
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

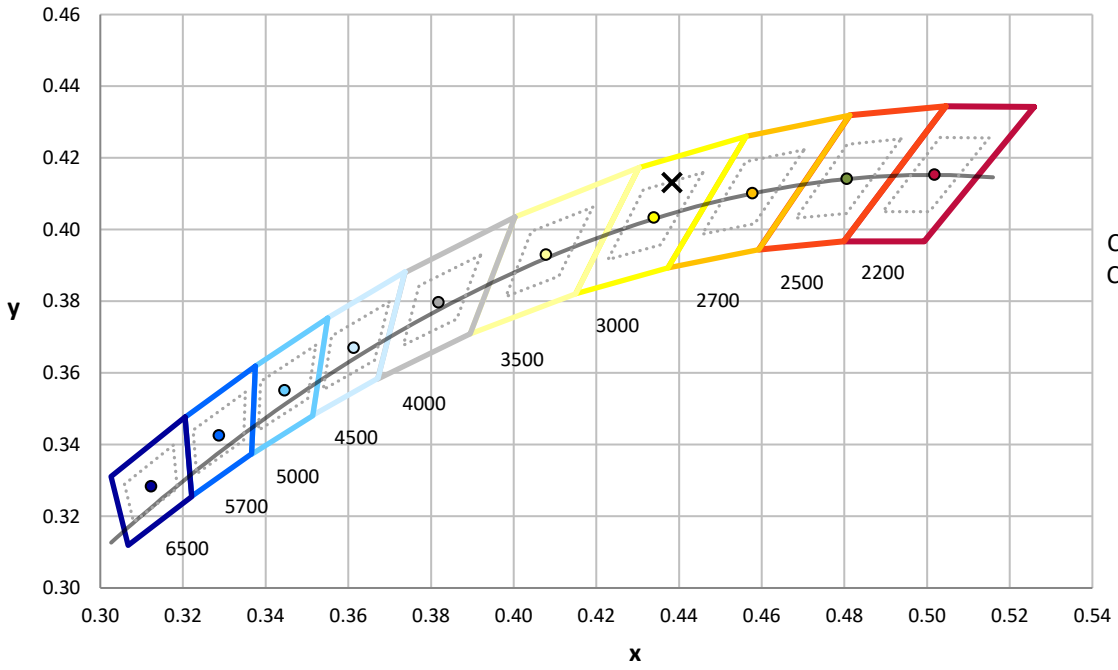
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

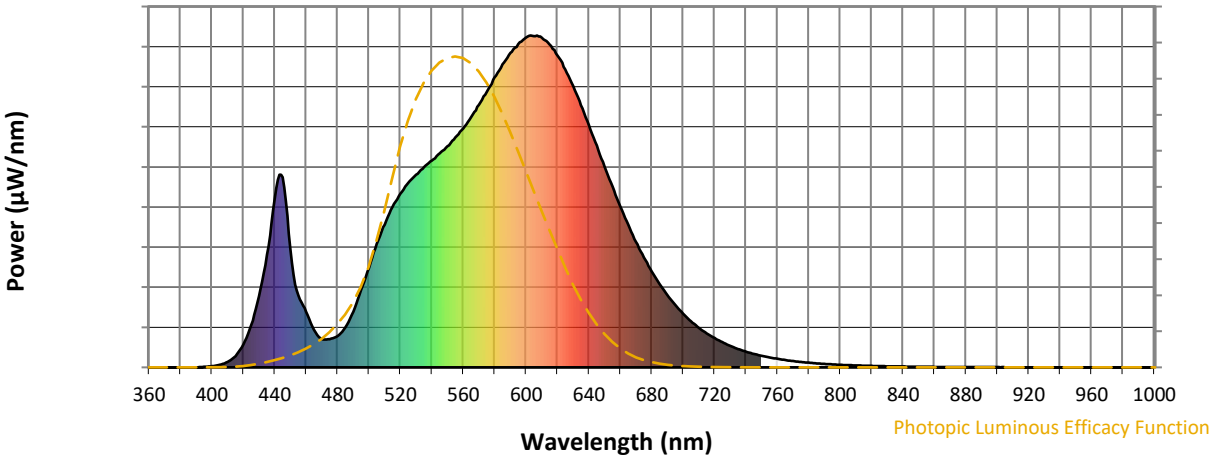


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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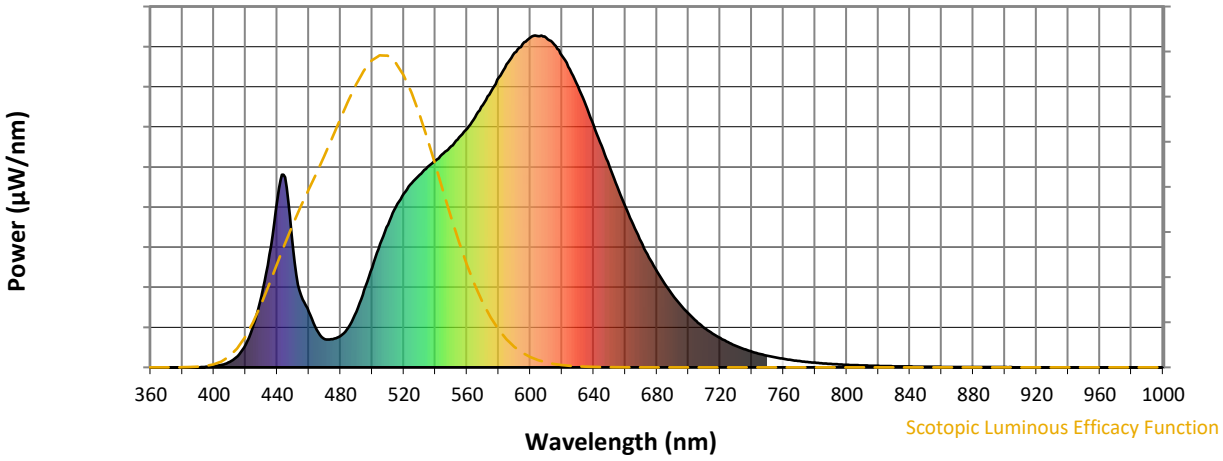
Scotopic Flux vs. Wavelength



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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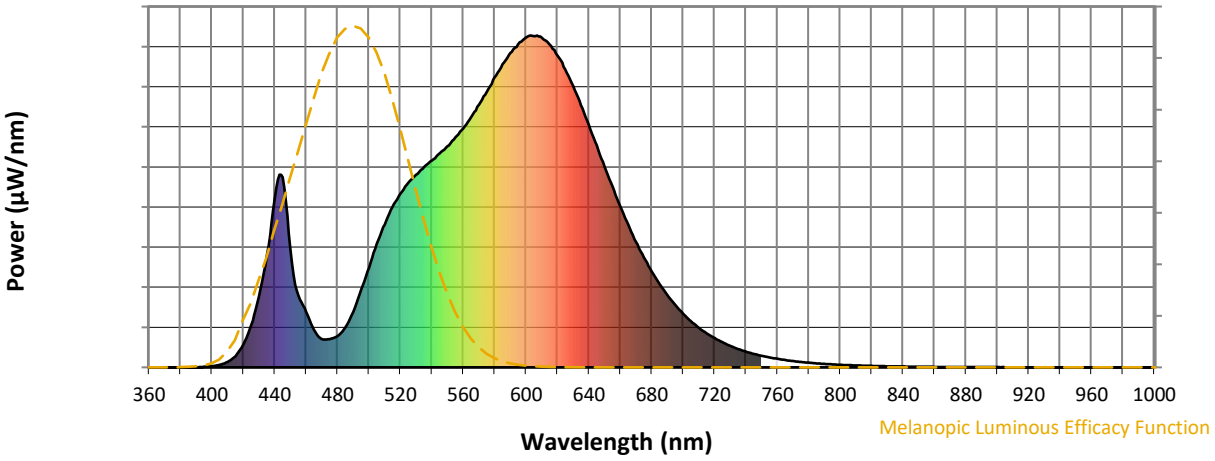
Melanopic Flux vs. Wavelength



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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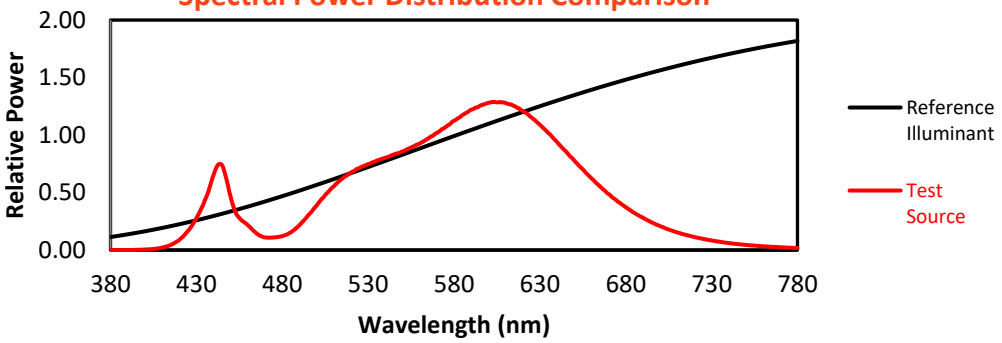
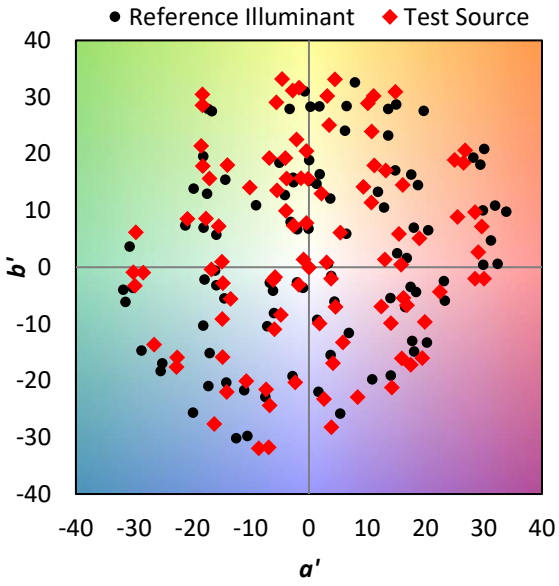
Summary

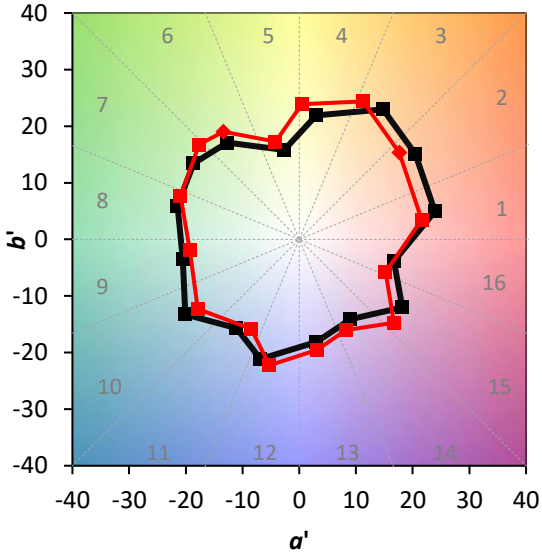
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

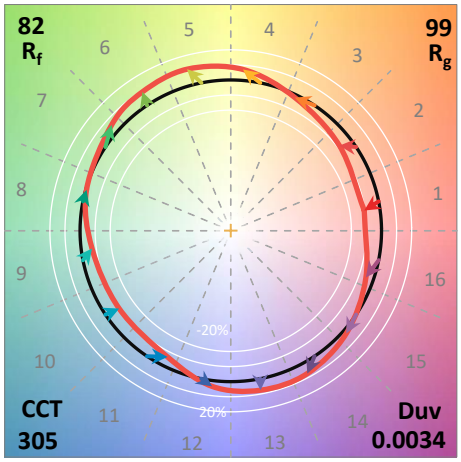
Spectral Power Distribution Comparison

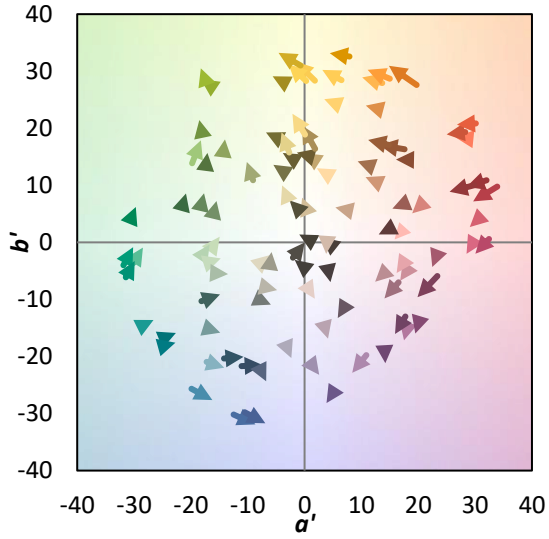


Color Vector Graphics









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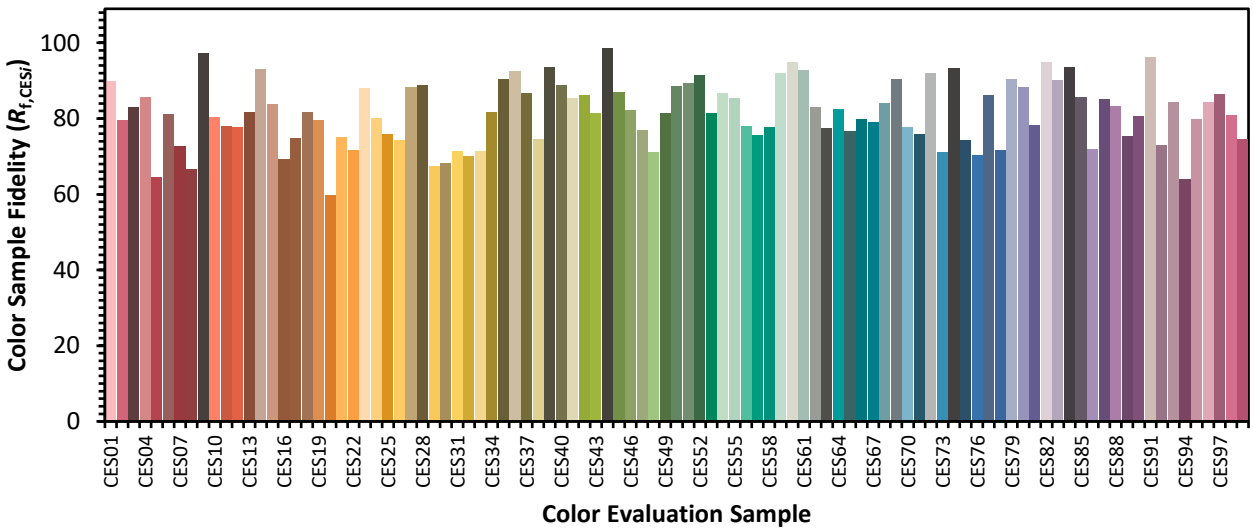
Individual Sample Fidelity Index ($R_{f,i}$)

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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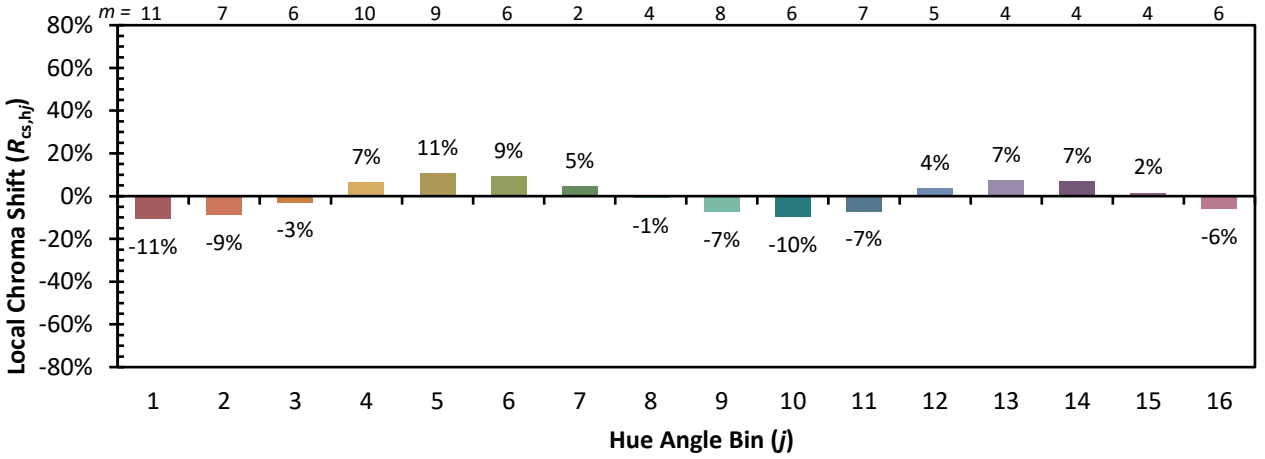
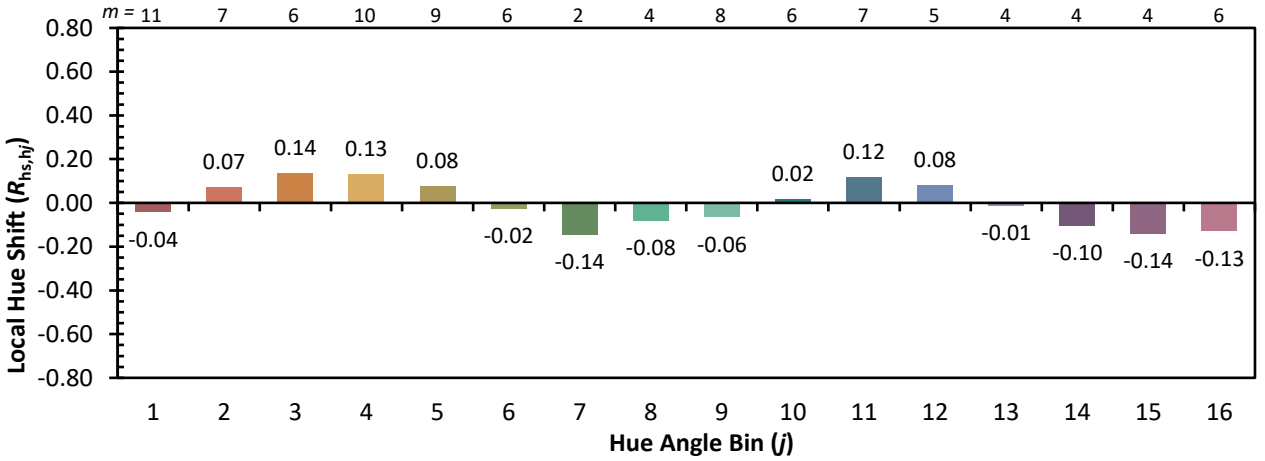
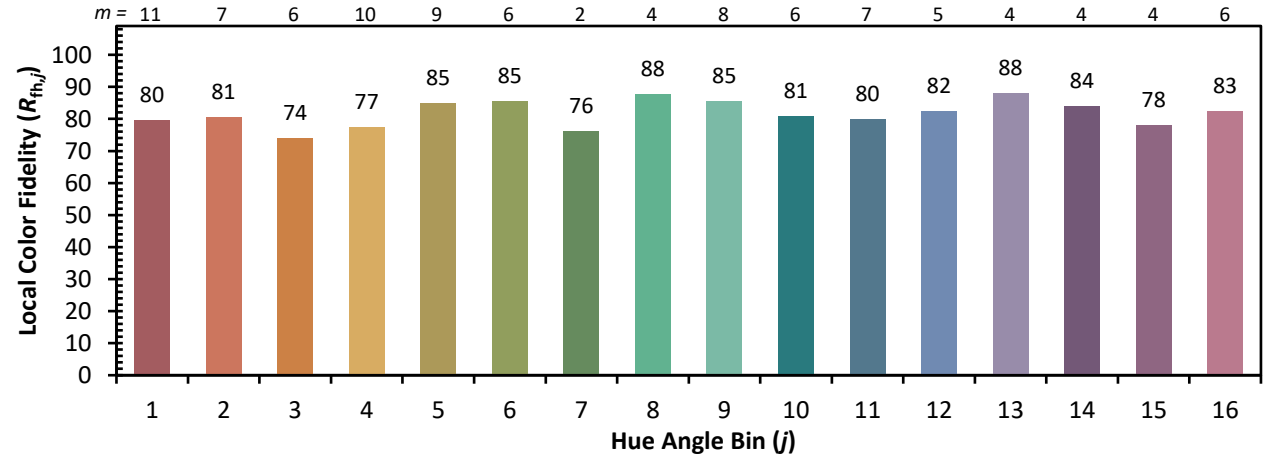
Color Rendition by Hue-Angle Bin







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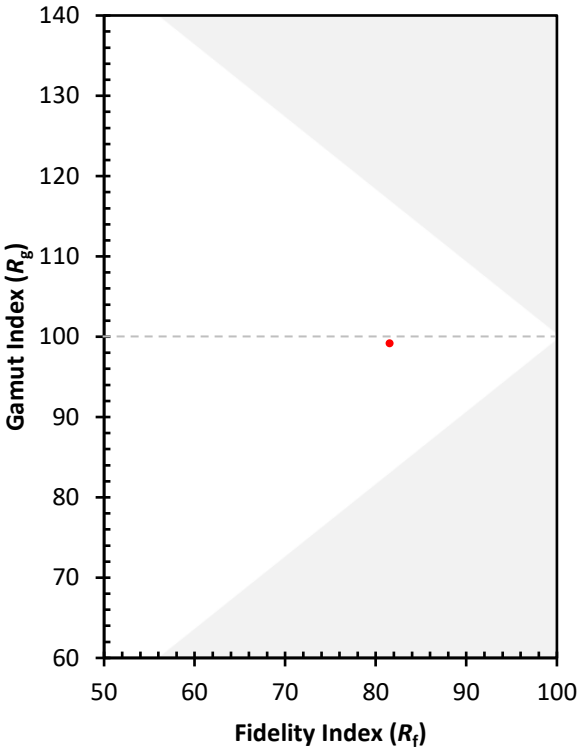
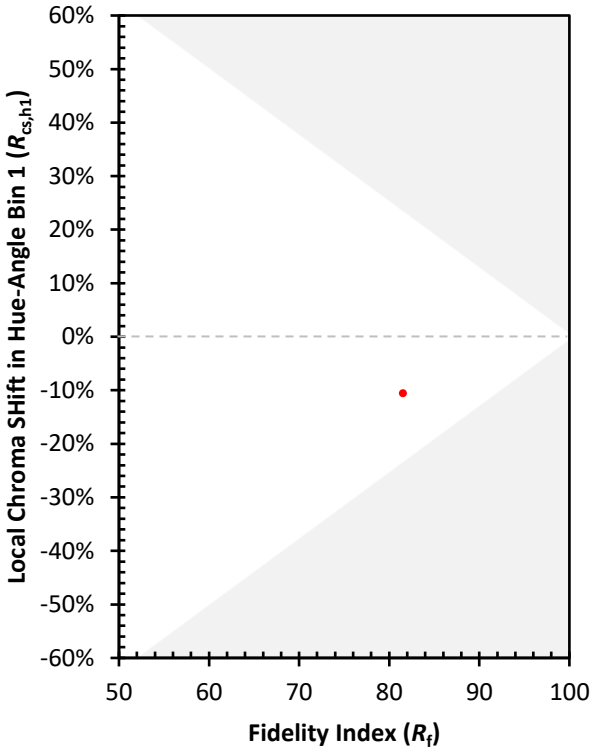
Measure Comparisons





(END OF REPORT)