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: P643412

Luminaire Tested: GWS-SA6E-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P643412
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
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-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26782.2 lumens
Efficiency:	N/A
Efficacy:	82.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G1

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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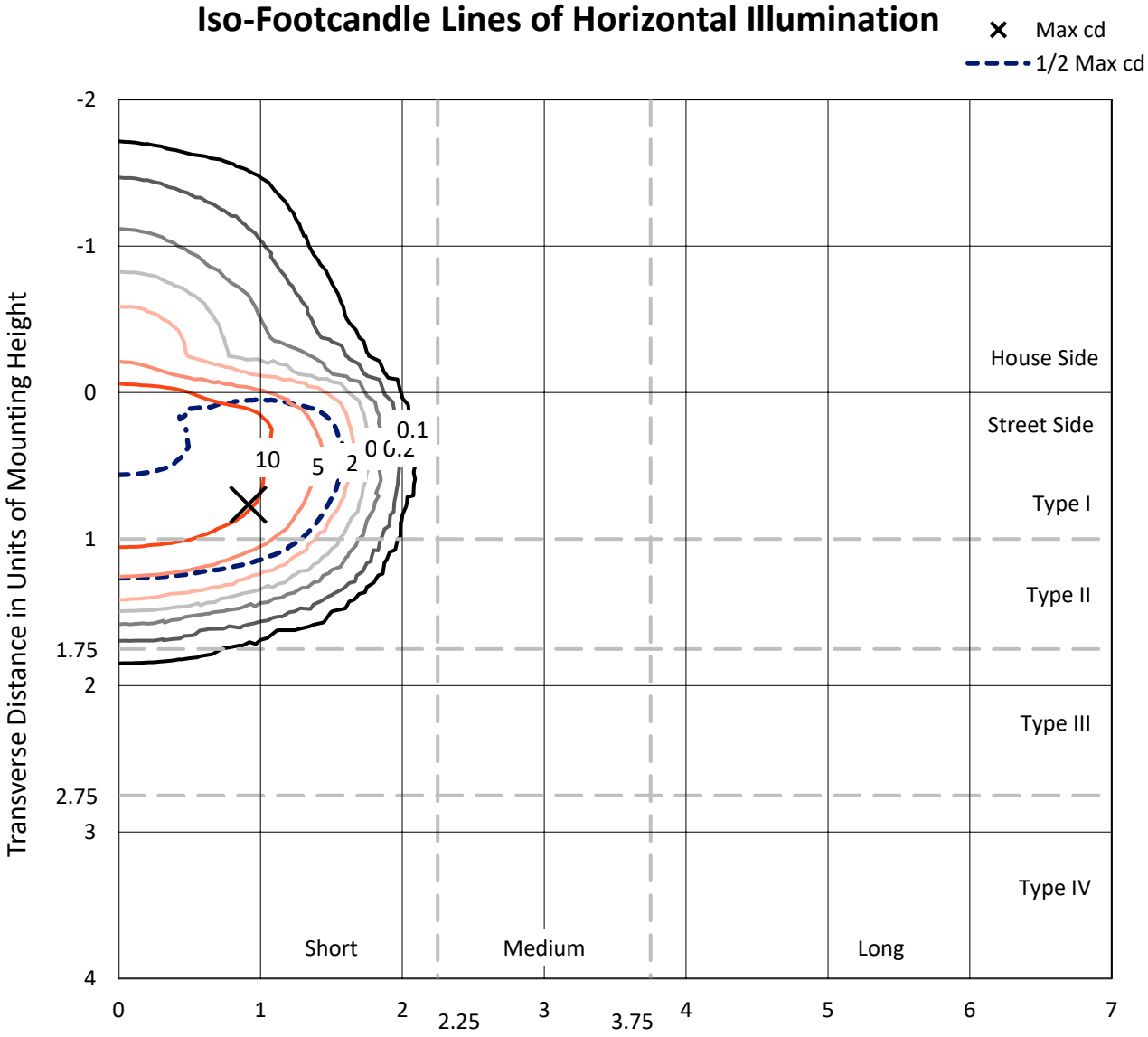
Scaled Data Report

REPORT NUMBER: P643412
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type II - Short - N/A

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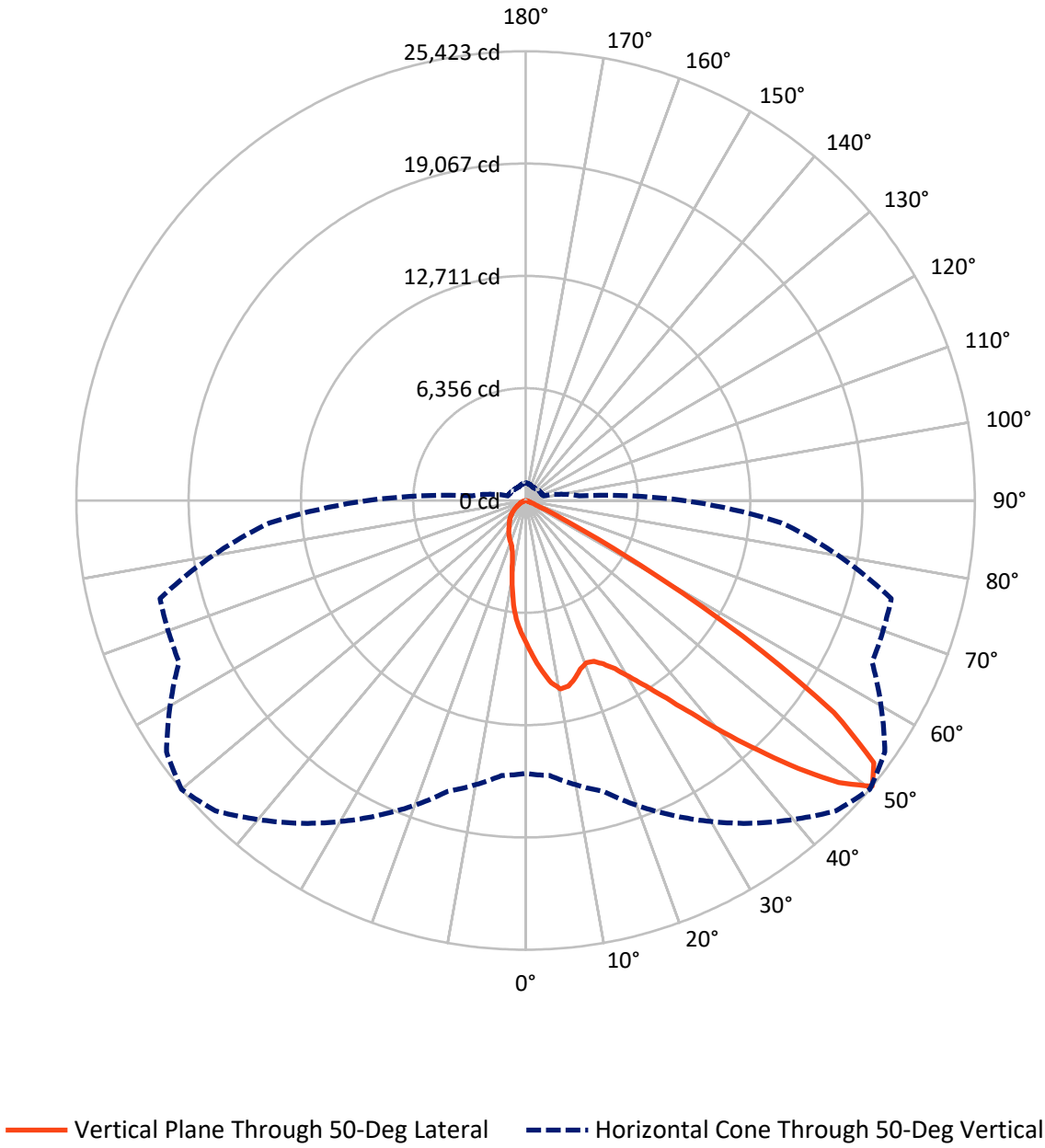
Luminous Intensity Polar Plot



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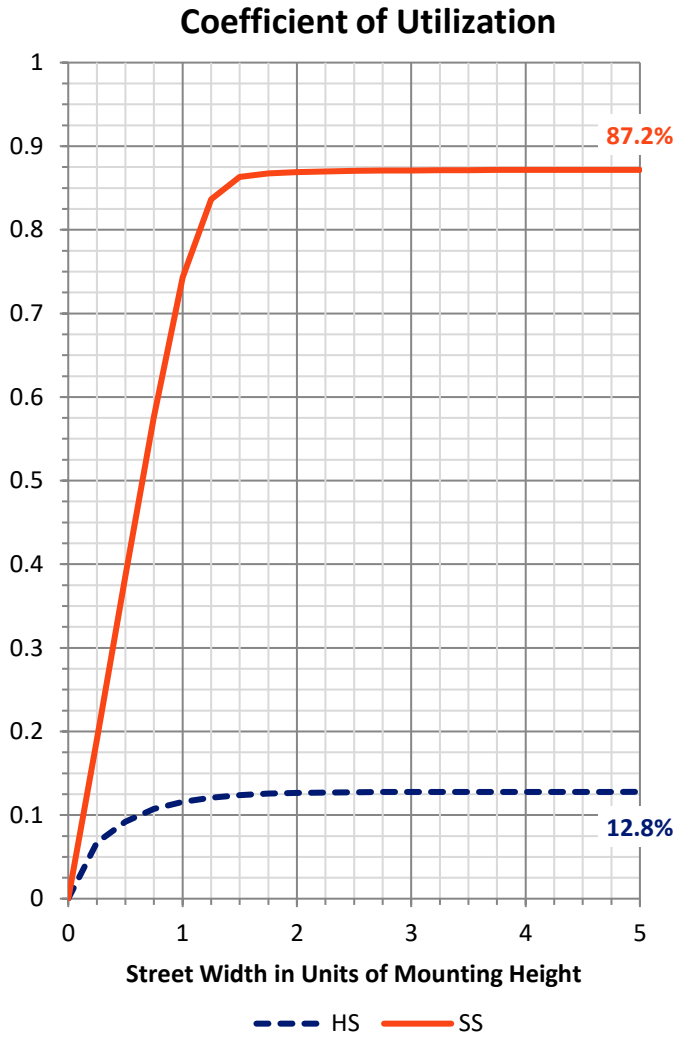
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3441.1	0.0	3441.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23341.1	0.0	23341.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	26782.2	0.0	26782.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.7	2.8
10°-20°	1942.0	7.3
20°-30°	3205.0	12.0
30°-40°	5288.9	19.7
40°-50°	8368.3	31.2
50°-60°	6335.8	23.7
60°-70°	793.0	3.0
70°-80°	89.7	0.3
80°-90°	6.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26782.2	100.0
0°-180°	26782.2	100.0



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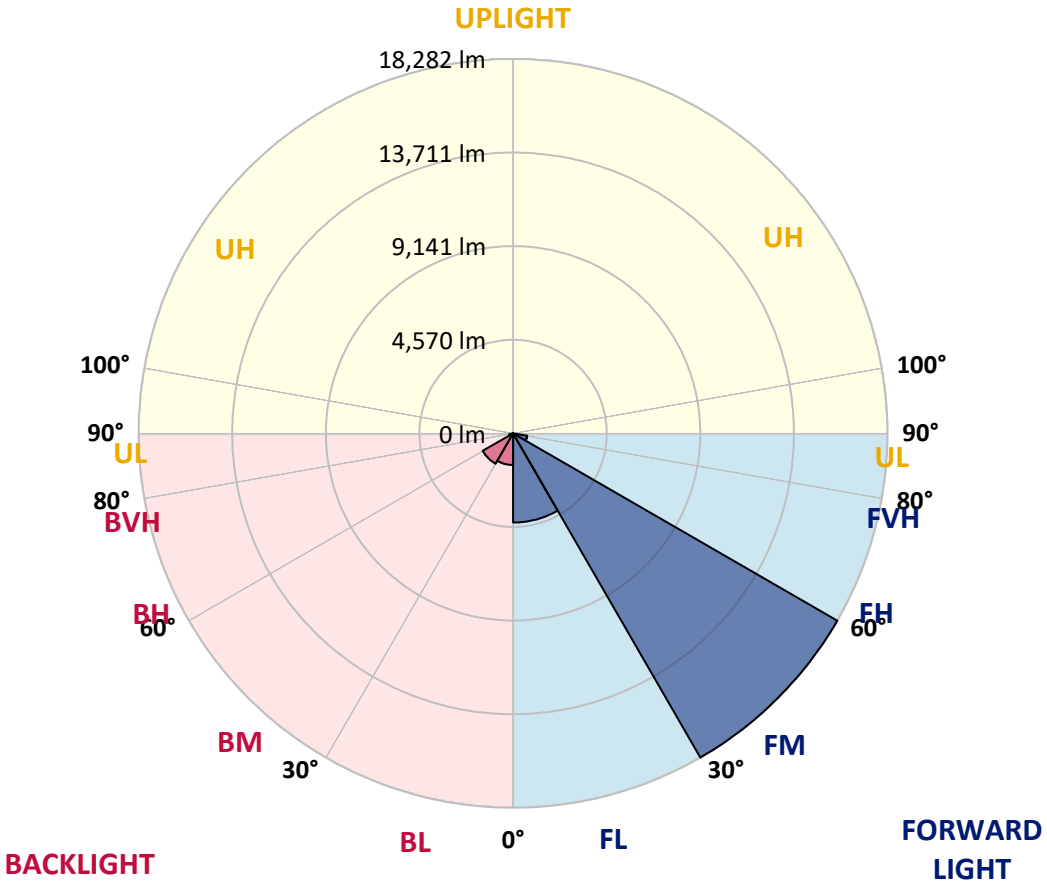
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4355.2	16.3			
FM	(30°-60°)	18281.7	68.3			
FH	(60°-80°)	701.1	2.6			G1/1800
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	1544.5	5.8	B3/2500		
BM	(30°-60°)	1711.3	6.4	B2/2500		
BH	(60°-80°)	181.6	0.7	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
Type II Short



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REPORT NUMBER: P643412
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	*8113.9*	8113.9	8113.9	8113.9	8113.9
2.5°	9245.8	9319.7	9299.3	9202.4	9097.9	9024.0	*8909.3*	8873.6	8613.6	8432.6	8241.4
5°	10362.3	10385.2	10359.7	10242.5	10058.9	9883.1	*9694.4*	9584.8	9148.9	8756.3	8356.1
7.5°	10630.0	10601.9	10650.3	10709.0	10683.5	10607.0	*10408.2*	10288.4	9768.3	9128.5	8521.8
10°	9793.8	9730.1	9911.1	10214.4	10533.1	10892.5	*10841.5*	10851.7	10372.5	9597.5	8738.5
12.5°	8685.0	8659.5	8794.6	9146.3	9770.9	10586.6	*10782.9*	11111.7	10925.7	10104.8	8985.8
15°	8198.1	8210.8	8292.4	8514.2	8962.8	9977.4	*10449.0*	11042.9	11420.2	10596.8	9258.5
17.5°	8272.0	8317.9	8315.3	8389.2	8662.0	9475.2	*10025.8*	10826.2	11802.6	11162.7	9572.1
20°	8774.2	8820.1	8751.2	8695.1	8786.9	9347.7	*9804.0*	10607.0	12060.0	11733.7	9903.4
22.5°	9526.2	9579.7	9416.6	9256.0	9197.3	9556.8	*9888.1*	10517.8	12256.3	12256.3	10199.1
25°	10436.2	10510.1	10257.8	9972.3	9809.1	9997.8	*10247.6*	10719.2	12457.7	12725.4	10400.5
27.5°	11453.3	11455.9	11239.2	10918.0	10612.1	10635.1	*10785.5*	11172.9	12679.5	13230.1	10558.6
30°	12597.9	12605.5	12317.5	11932.6	11547.6	11443.1	*11570.6*	11863.7	13140.9	13864.8	10777.8
32.5°	14076.4	14112.1	13699.1	13133.2	12633.6	12437.3	*12511.2*	12819.7	13875.0	14660.2	11106.6
35°	16074.9	16113.2	15503.9	14757.0	13961.7	13666.0	*13739.9*	14050.9	14938.0	15789.4	11631.8
37.5°	18048.0	18099.0	17482.1	16786.1	15695.1	15205.7	*15282.1*	15577.9	16533.8	17349.5	12473.0
40°	19411.8	19480.6	19289.4	18820.4	17808.4	17166.0	*17257.7*	17364.8	18290.1	19215.5	13564.0
42.5°	20130.6	20227.5	20309.1	20548.7	20015.9	19478.0	*19322.6*	19330.2	20077.1	21117.2	14698.4
45°	20174.0	20268.3	20686.3	21611.7	22017.0	21904.8	*21621.9*	21430.7	21440.9	22384.1	15407.1
47.5°	18771.9	18947.8	19730.4	21542.9	23067.3	23997.7	*23854.9*	23401.2	22014.5	22468.2	15330.6
50°	*15450.4*	*15623.7*	*17046.2*	*19653.9*	*22302.5*	*24833.8*	*25422.7*	*24813.4*	*21639.7*	*21420.5*	*14542.9*
52.5°	11221.4	11239.2	12162.0	15208.2	19202.7	23291.6	*24678.3*	24619.7	21068.7	20151.0	13467.2
55°	5330.3	5266.5	6304.0	8583.0	13281.1	18838.2	*21175.8*	21838.6	20258.1	19233.3	12633.6
57.5°	1552.4	1583.0	2044.4	3349.6	6643.1	12039.6	*14502.1*	15735.9	16628.1	15812.4	9798.9
60°	695.9	698.5	777.5	1019.7	2212.7	5600.5	*7497.0*	9024.0	9941.7	9212.6	4861.2
62.5°	504.7	507.3	537.9	576.1	752.0	1896.6	*2811.7*	3747.2	3816.1	2498.2	1231.2
65°	420.6	420.6	425.7	425.7	451.2	678.1	*854.0*	1101.2	927.9	688.3	481.8
67.5°	339.0	341.6	346.7	346.7	339.0	339.0	*367.1*	402.8	430.8	532.8	443.6
70°	265.1	262.6	262.6	265.1	257.5	219.2	*237.1*	270.2	295.7	415.5	384.9
72.5°	206.5	209.0	206.5	196.3	178.4	130.0	*140.2*	175.9	188.6	260.0	260.0
75°	155.5	158.0	147.9	112.2	73.9	40.8	*53.5*	86.7	109.6	127.5	94.3
77.5°	20.4	20.4	15.3	15.3	12.7	15.3	*15.3*	20.4	30.6	30.6	22.9
80°	2.5	2.5	2.5	5.1	7.6	10.2	*10.2*	10.2	10.2	12.7	12.7
82.5°	2.5	2.5	2.5	2.5	7.6	7.6	*10.2*	10.2	10.2	10.2	10.2
85°	0.0	0.0	0.0	2.5	5.1	7.6	*7.6*	10.2	10.2	10.2	10.2
87.5°	0.0	0.0	0.0	2.5	5.1	7.6	*7.6*	7.6	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P643412
CATALOG NUMBER: GWS-SA6E-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9
2.5°	8126.7	7978.8	7800.4	7678.0	7504.7	7390.0	7226.8	7117.2	7022.9	6949.0	6989.8
5°	8129.2	7894.7	7530.2	7219.2	6880.2	6569.2	6235.2	5972.7	5735.6	5628.5	5687.2
7.5°	8180.2	7843.7	7285.5	6732.3	6082.3	5439.9	4838.3	4348.8	4106.7	3992.0	4027.7
10°	8279.6	7820.8	7012.7	6095.0	5039.7	4162.8	3579.0	3247.6	3112.5	3041.1	3053.9
12.5°	8371.4	7805.5	6658.4	5256.3	3976.7	3229.8	2926.4	2880.5	2908.6	2911.1	2908.6
15°	8496.3	7777.5	6219.9	4394.7	3181.3	2791.3	2799.0	2865.2	2931.5	2951.9	2946.8
17.5°	8628.9	7734.1	5654.0	3568.8	2699.5	2663.9	2753.1	2842.3	2908.6	2918.8	2921.3
20°	8766.5	7644.9	5009.1	2913.7	2475.2	2567.0	2666.4	2732.7	2781.1	2796.4	2801.5
22.5°	8830.3	7456.3	4264.7	2444.6	2324.8	2447.2	2521.1	2607.8	2623.1	2567.0	2577.2
25°	8797.1	7137.6	3538.2	2128.5	2174.4	2296.8	2406.4	2363.1	2299.3	2258.5	2271.3
27.5°	8692.6	6714.5	2827.0	1896.6	2013.8	2169.3	2182.1	2133.6	2123.4	2090.3	2100.5
30°	8580.4	6227.6	2273.8	1710.5	1850.7	2013.8	1975.6	1993.4	1996.0	1957.7	1970.5
32.5°	8511.6	5717.7	1809.9	1585.6	1746.2	1776.8	1853.2	1888.9	1891.5	1802.2	1817.5
35°	8534.6	5215.6	1532.0	1483.6	1649.3	1641.7	1748.7	1769.1	1621.3	1498.9	1511.6
37.5°	8720.6	4751.6	1374.0	1404.6	1481.1	1539.7	1621.3	1486.2	1453.0	1396.9	1404.6
40°	9067.3	4356.5	1279.7	1356.1	1366.3	1460.7	1335.8	1353.6	1356.1	1320.5	1328.1
42.5°	9472.6	4027.7	1223.6	1328.1	1302.6	1317.9	1193.0	1228.7	1266.9	1251.6	1254.2
45°	9676.6	3706.5	1175.2	1231.2	1238.9	1093.6	1065.5	1103.8	1152.2	1159.9	1162.4
47.5°	9495.6	3400.6	1124.2	1091.0	1142.0	996.7	963.6	976.3	1032.4	1063.0	1068.1
50°	*8942.4*	*3048.8*	*1047.7*	*966.1*	*938.1*	*894.8*	*864.2*	*866.7*	*930.4*	*984.0*	*994.2*
52.5°	8164.9	2681.7	922.8	818.3	754.5	787.7	795.3	780.0	838.7	892.2	902.4
55°	7410.4	2222.9	731.6	665.3	606.7	678.1	698.5	678.1	695.9	731.6	734.2
57.5°	5218.1	1256.7	560.8	550.6	502.2	581.2	614.3	583.8	553.2	576.1	581.2
60°	2419.1	657.7	430.8	430.8	418.1	499.6	555.7	512.4	453.7	463.9	471.6
62.5°	757.1	415.5	316.1	298.3	341.6	425.7	471.6	428.3	359.4	359.4	369.6
65°	428.3	356.9	249.8	229.4	277.9	341.6	369.6	323.7	262.6	257.5	257.5
67.5°	397.7	339.0	221.8	186.1	196.3	219.2	229.4	198.8	181.0	178.4	181.0
70°	328.8	283.0	178.4	127.5	119.8	117.3	122.4	114.7	109.6	112.2	119.8
72.5°	203.9	170.8	112.2	76.5	66.3	63.7	63.7	63.7	61.2	61.2	61.2
75°	73.9	63.7	51.0	38.2	33.1	30.6	30.6	33.1	30.6	28.0	25.5
77.5°	22.9	20.4	20.4	20.4	17.8	15.3	12.7	12.7	10.2	7.6	7.6
80°	12.7	12.7	12.7	12.7	10.2	10.2	7.6	5.1	2.5	2.5	0.0
82.5°	12.7	12.7	12.7	10.2	10.2	10.2	7.6	5.1	2.5	0.0	0.0
85°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	5.1	2.5	0.0	0.0
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	5.1	2.5	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

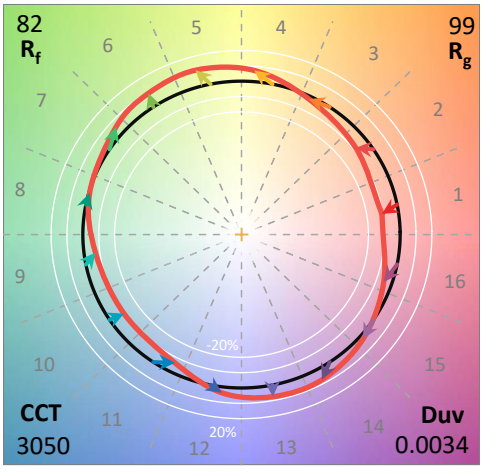
Test Information

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

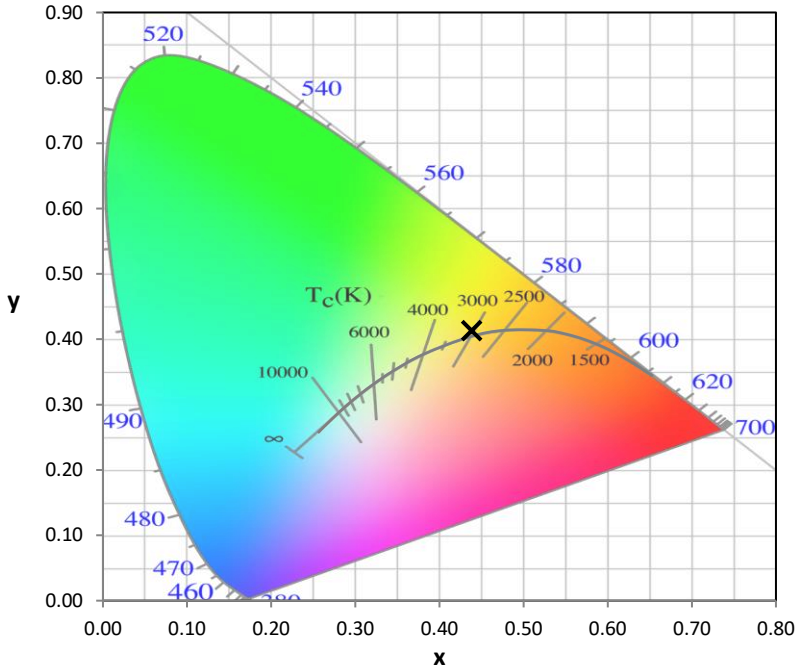
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

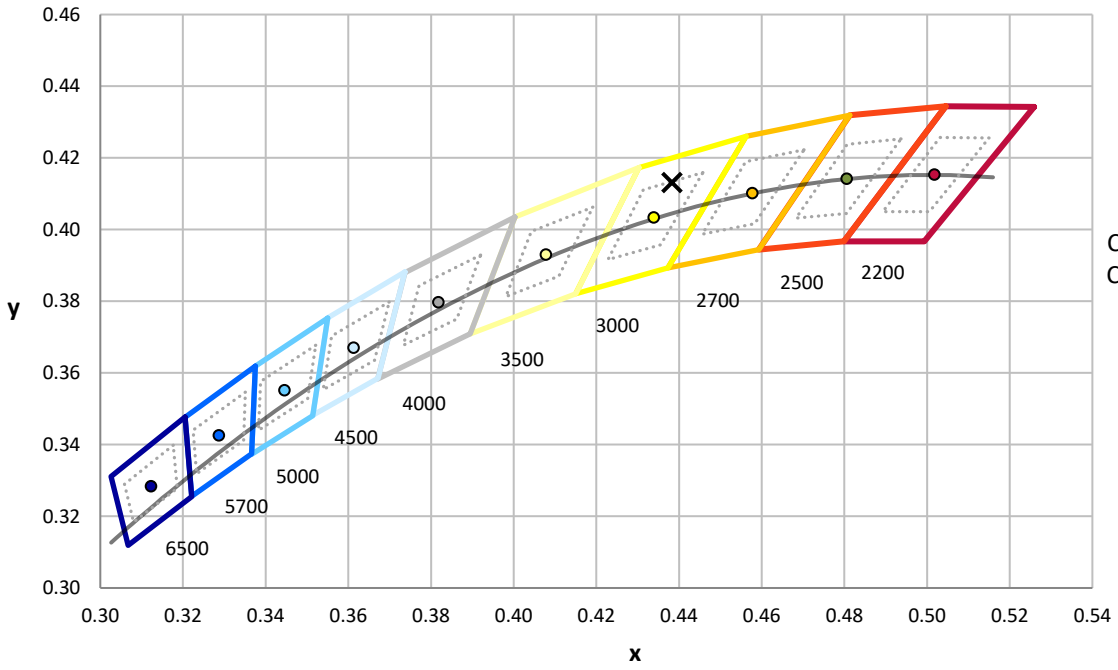
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

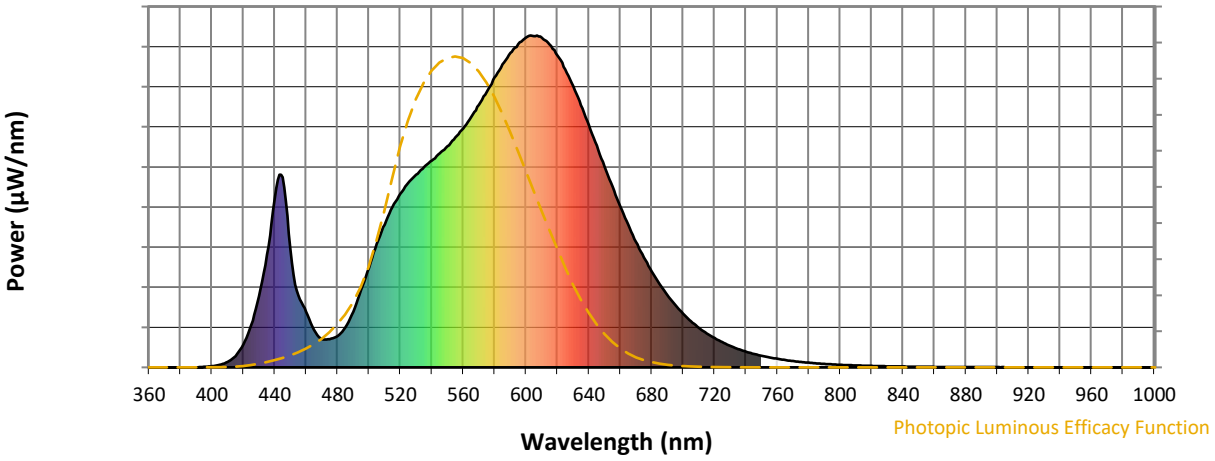


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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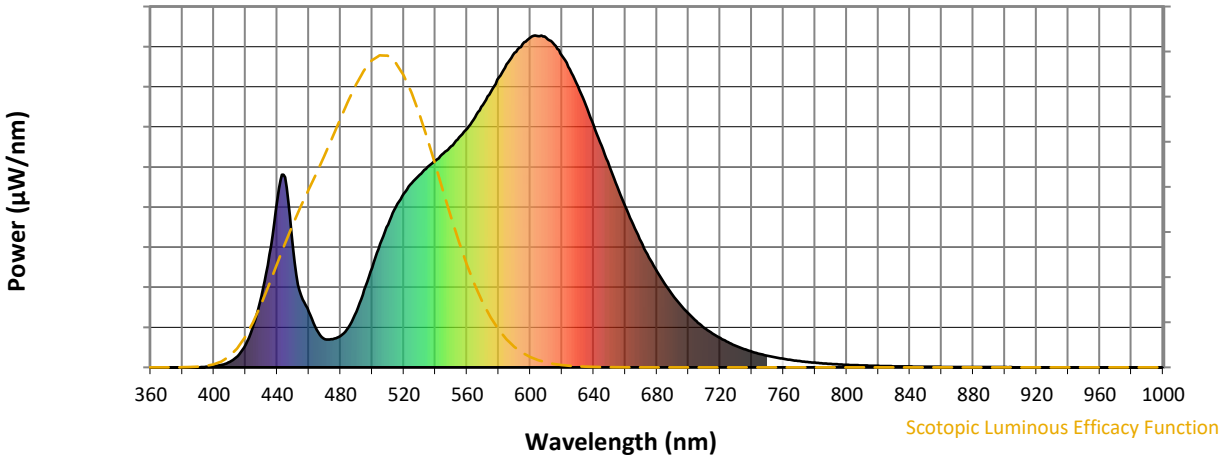
Scotopic Flux vs. Wavelength



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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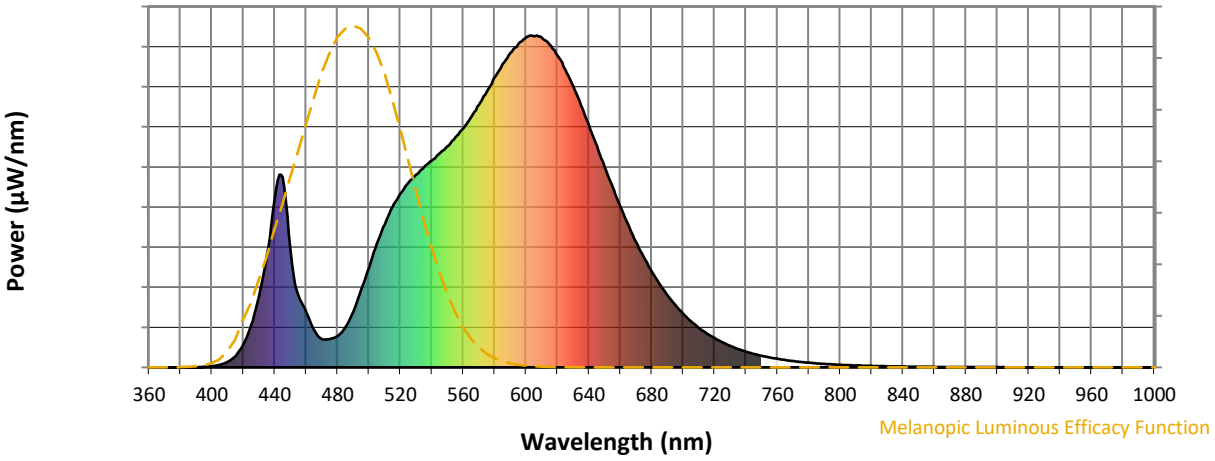
Melanopic Flux vs. Wavelength



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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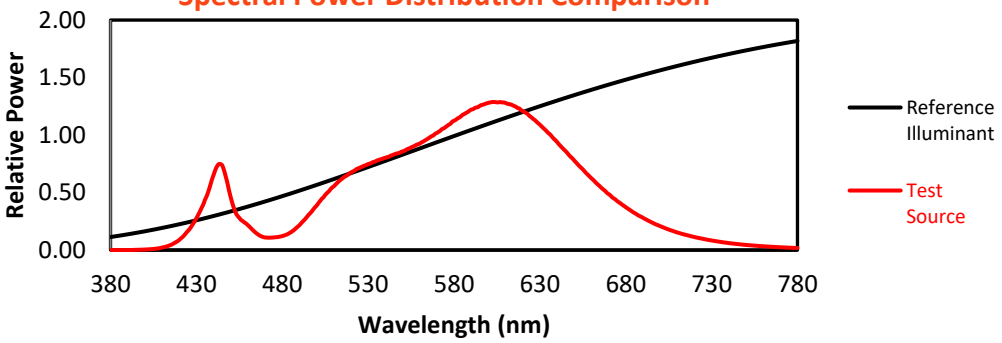
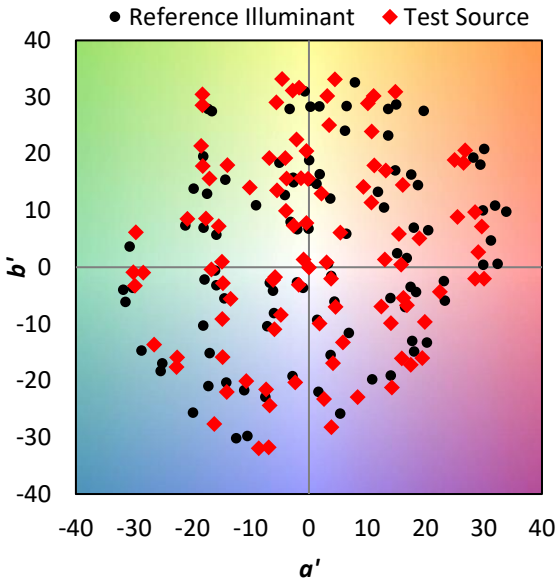
Summary

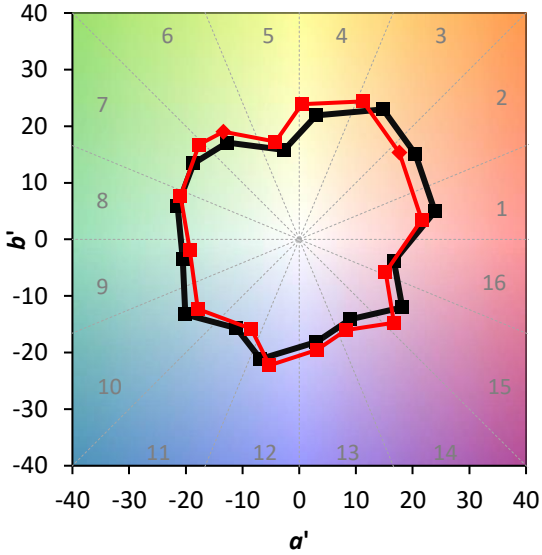
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

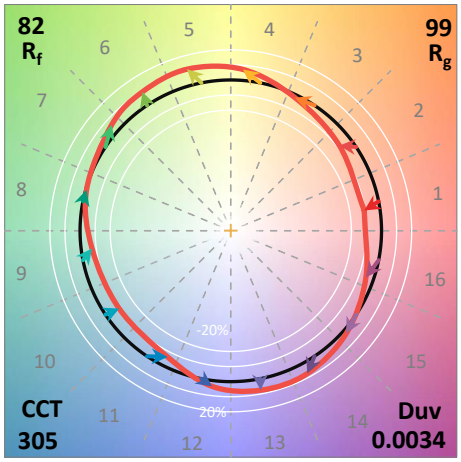
Spectral Power Distribution Comparison

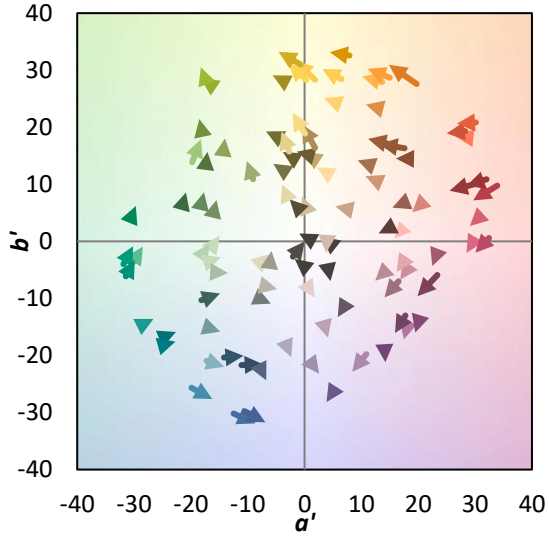


Color Vector Graphics









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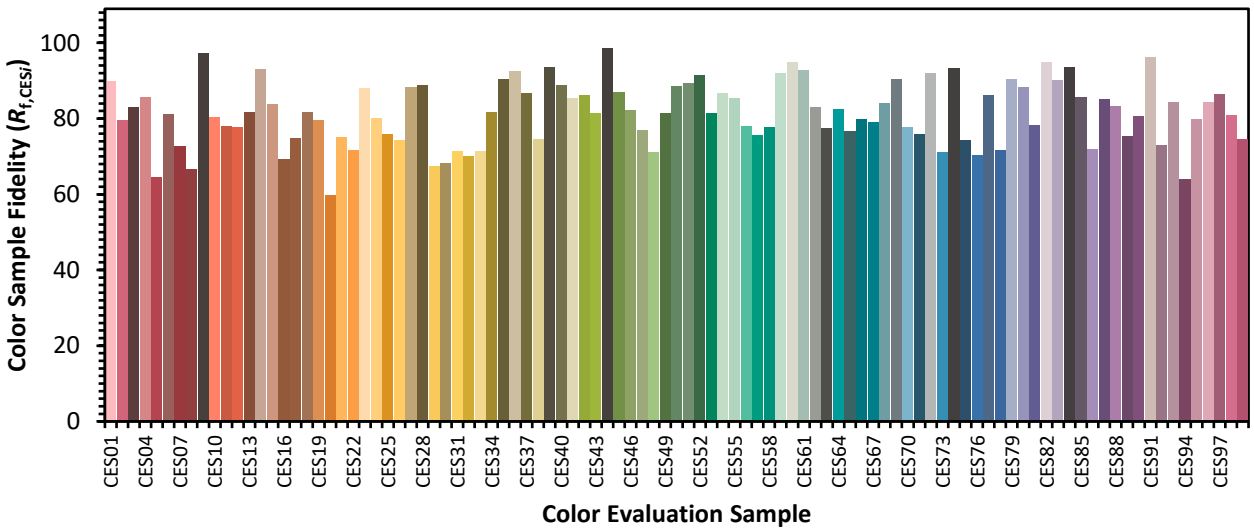
Individual Sample Fidelity Index ($R_{f,i}$)

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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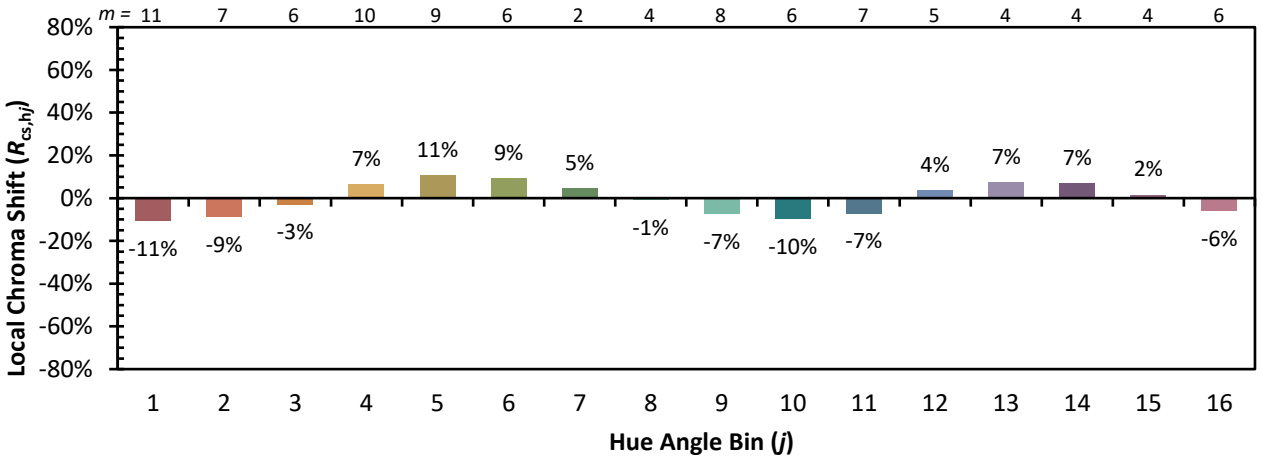
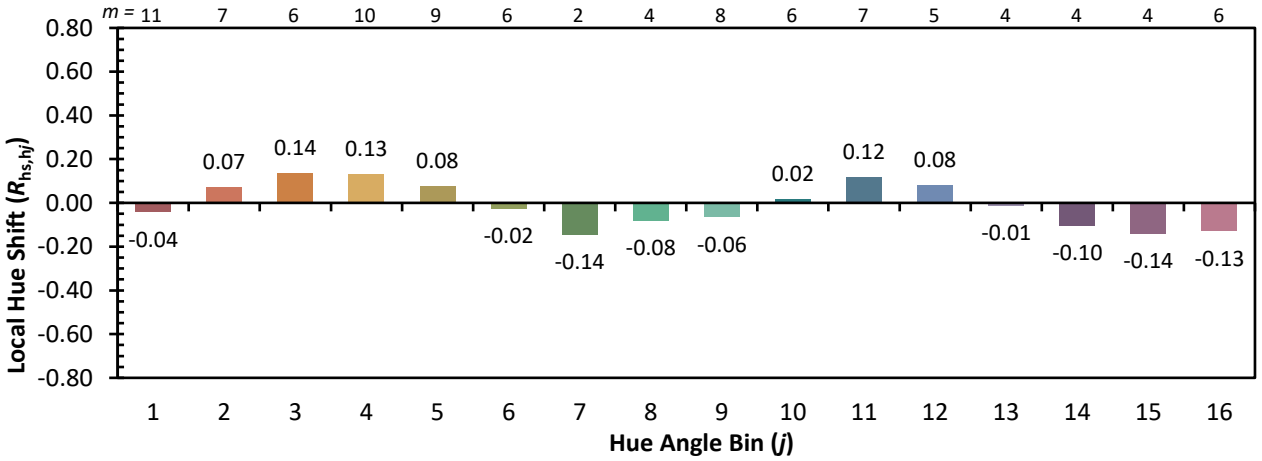
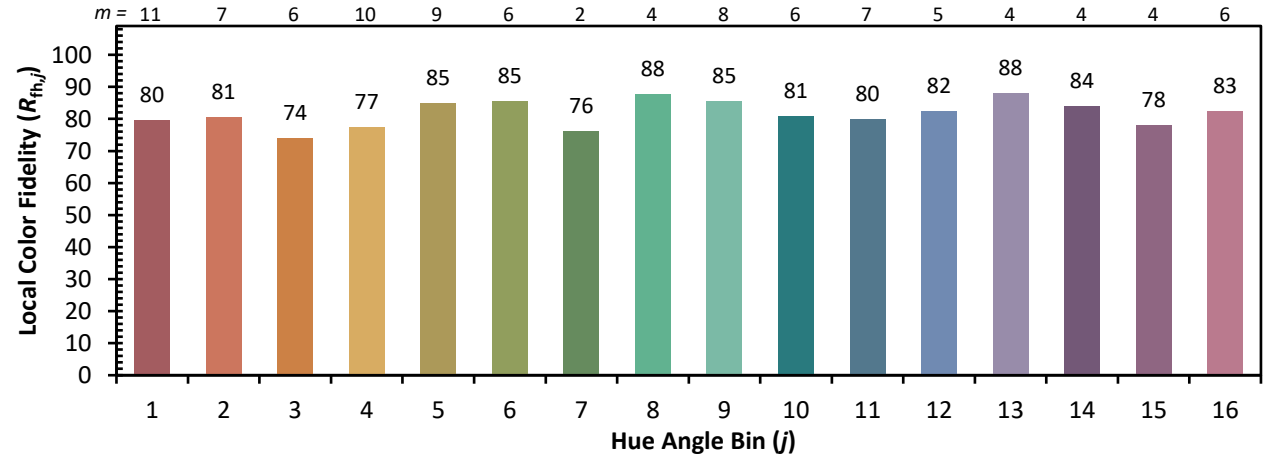
Color Rendition by Hue-Angle Bin







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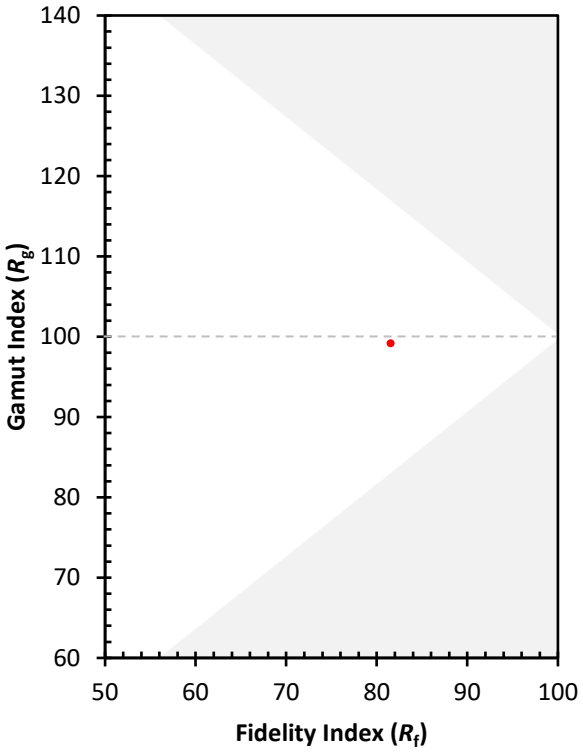
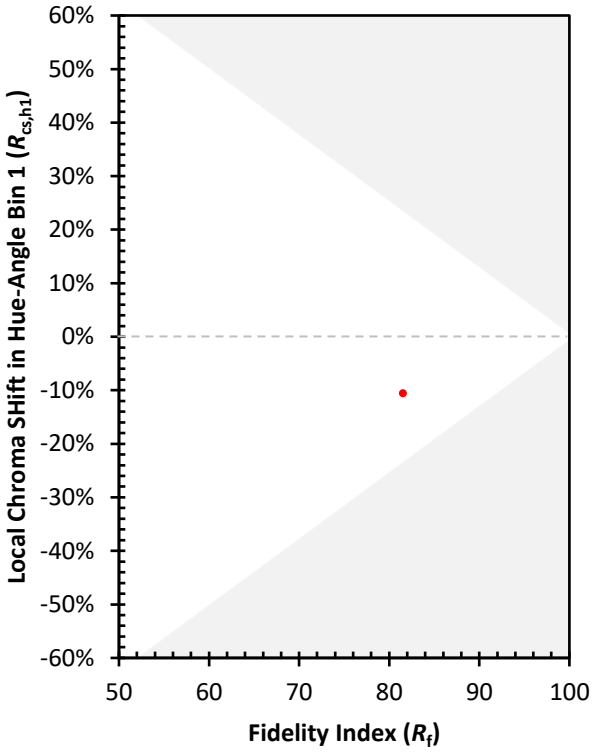
Measure Comparisons





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