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: P636015

Luminaire Tested: GWS-SA3E-830-U-T2-W-HSS

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:	P636015
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-T2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13085.9 lumens
Efficiency:	N/A
Efficacy:	82.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	159.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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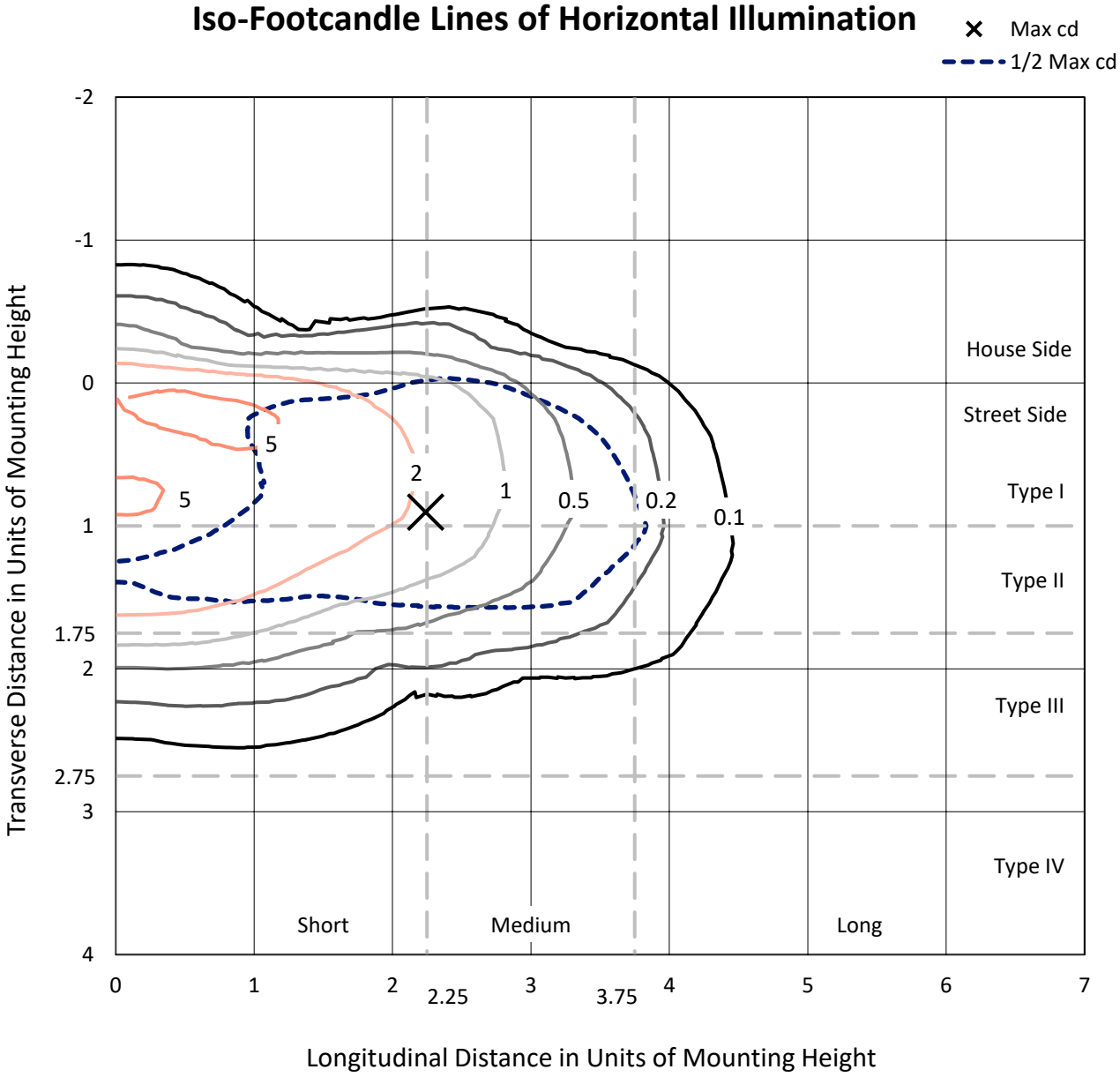
Scaled Data Report

REPORT NUMBER: P636015
CATALOG NUMBER: GWS-SA3E-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

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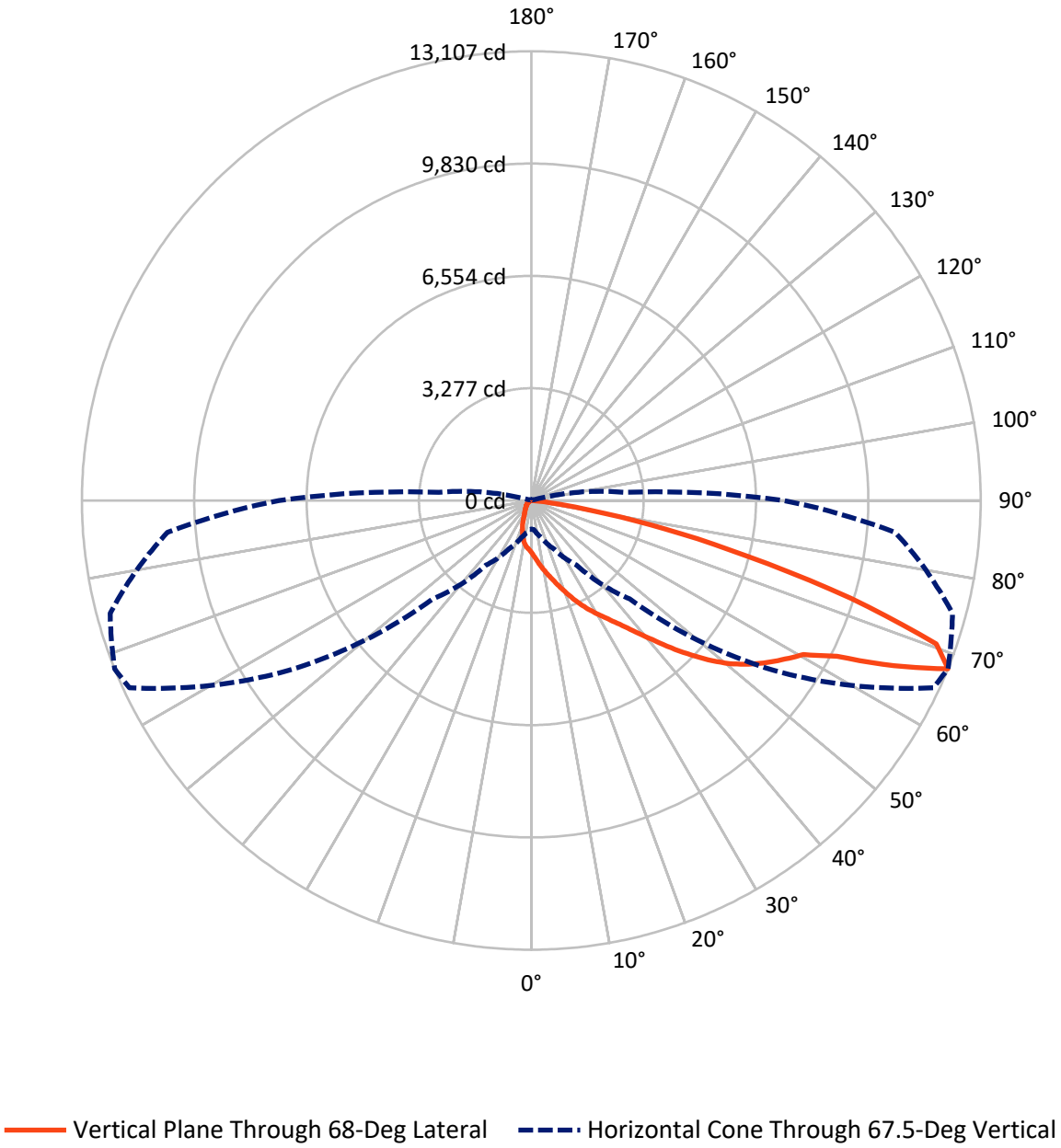
Luminous Intensity Polar Plot



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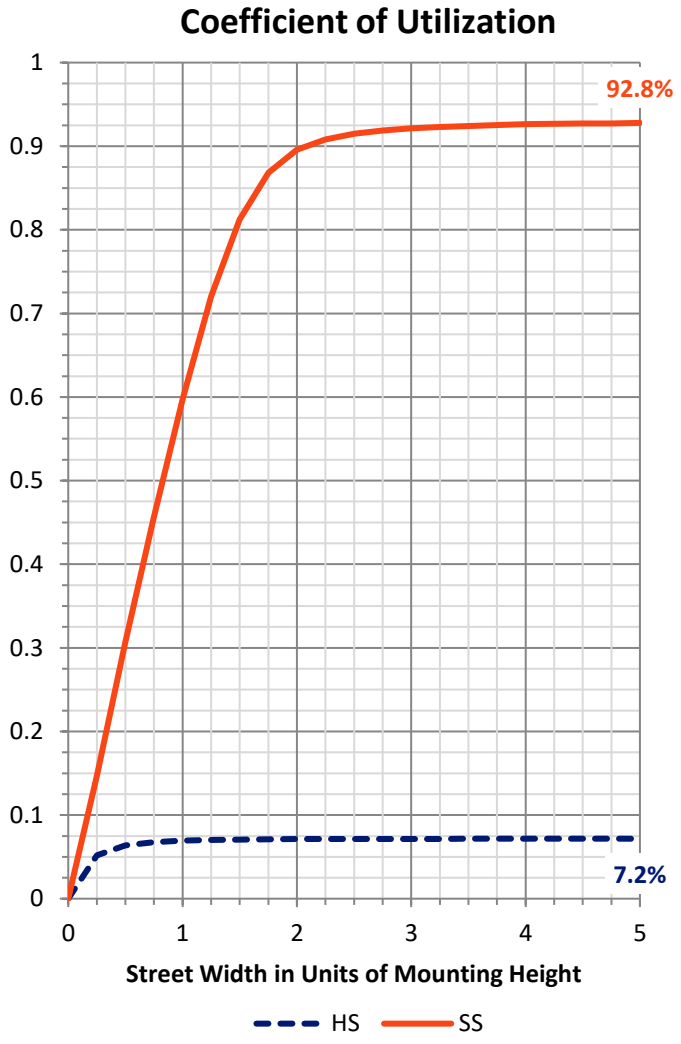
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.0	0.0	945.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12140.9	0.0	12140.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	13085.9	0.0	13085.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.1
10°-20°	426.5	3.3
20°-30°	733.0	5.6
30°-40°	1274.4	9.7
40°-50°	2223.6	17.0
50°-60°	3353.8	25.6
60°-70°	3363.0	25.7
70°-80°	1483.8	11.3
80°-90°	79.3	0.6
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°	13085.9	100.0
0°-180°	13085.9	100.0



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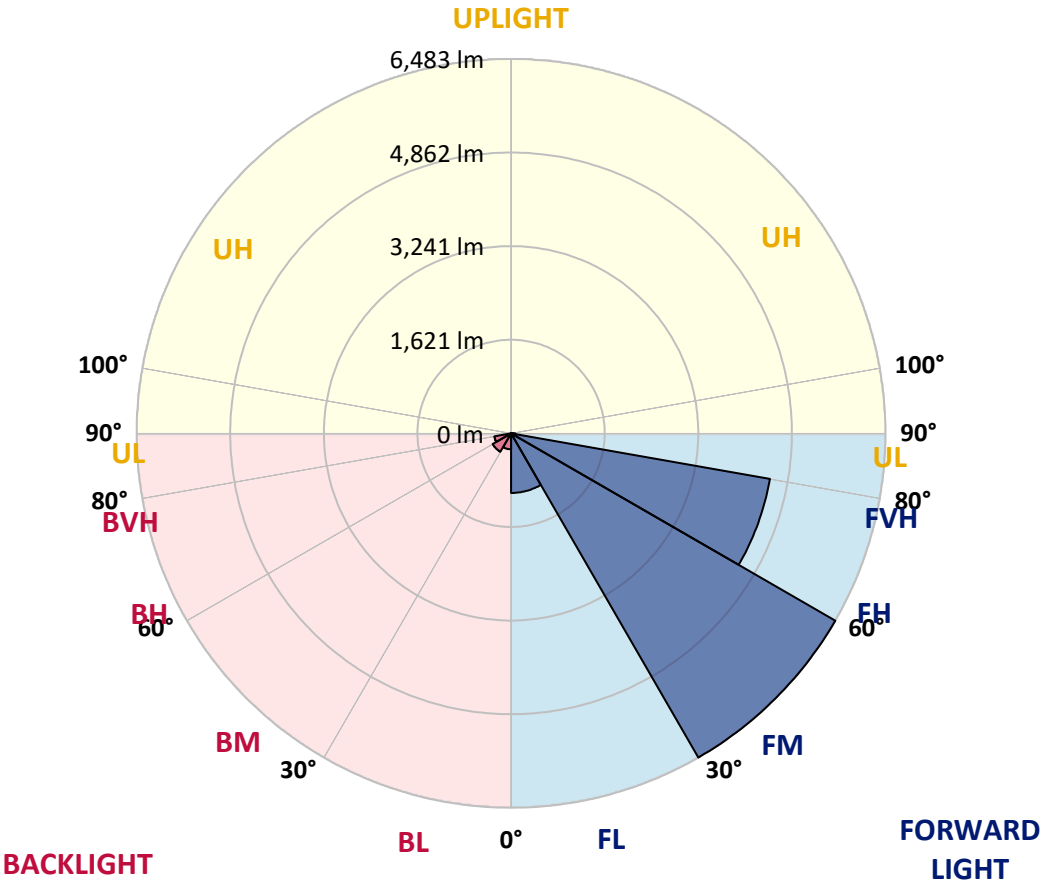
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1031.6	7.9			
FM	(30°-60°)	6482.7	49.5			
FH	(60°-80°)	4551.9	34.8			G2/5000
FVH	(80°-90°)	74.8	0.6			G1/100
BL	(0°-30°)	276.5	2.1	B1/500		
BM	(30°-60°)	369.1	2.8	B1/1000		
BH	(60°-80°)	294.9	2.3	B1/500		G1/500
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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REPORT NUMBER: P636015
CATALOG NUMBER: GWS-SA3E-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	*1522.9*	1522.9	1522.9
2.5°	1773.3	1784.6	1773.3	1775.8	1743.3	1728.3	1695.7	1650.6	*1639.3*	1610.5	1566.7
5°	1990.0	2000.0	1988.7	1986.2	1948.7	1921.1	1867.3	1789.6	*1767.1*	1710.7	1624.3
7.5°	2107.7	2114.0	2117.7	2124.0	2110.2	2087.7	2038.8	1942.4	*1918.6*	1827.2	1705.7
10°	2120.2	2125.2	2144.0	2181.6	2209.2	2222.9	2195.4	2106.5	*2068.9*	1980.0	1805.9
12.5°	2085.2	2092.7	2122.7	2185.4	2261.8	2331.9	2349.4	2271.8	*2238.0*	2124.0	1923.6
15°	2038.8	2045.1	2086.4	2171.6	2286.8	2415.8	2488.4	2454.6	*2417.0*	2298.1	2053.9
17.5°	1967.5	1976.2	2033.8	2149.0	2298.1	2482.2	2638.7	2650.0	*2623.7*	2494.7	2197.9
20°	1927.4	1933.6	1985.0	2104.0	2290.6	2531.0	2779.0	2885.4	*2856.6*	2721.4	2363.2
22.5°	1961.2	1966.2	2000.0	2092.7	2265.5	2558.6	2909.2	3120.9	*3104.6*	2964.3	2537.3
25°	2139.0	2155.3	2135.3	2151.5	2276.8	2573.6	3014.4	3356.3	*3360.1*	3218.6	2717.6
27.5°	2499.7	2478.4	2430.8	2349.4	2364.4	2613.7	3104.6	3578.0	*3610.5*	3466.5	2877.9
30°	2866.6	2854.1	2825.3	2698.8	2593.6	2702.6	3181.0	3804.7	*3856.0*	3710.7	3020.7
32.5°	3278.7	3291.2	3239.8	3088.3	2909.2	2882.9	3259.9	4020.1	*4116.5*	3987.5	3188.5
35°	3770.8	3774.6	3673.2	3505.3	3302.5	3181.0	3401.4	4258.0	*4435.8*	4340.7	3412.7
37.5°	4250.5	4273.0	4217.9	3953.7	3773.4	3551.7	3635.6	4563.6	*4814.1*	4776.5	3694.5
40°	4675.0	4710.1	4692.6	4437.1	4200.4	4013.8	3998.8	4921.8	*5271.2*	5313.8	4066.4
42.5°	5013.2	5035.7	5049.5	4867.9	4658.8	4553.6	4447.1	5337.5	*5810.9*	5985.0	4522.3
45°	5370.1	5377.6	5406.4	5283.7	5100.8	5109.6	4976.9	5842.2	*6379.5*	6728.9	5045.7
47.5°	5824.7	5849.8	5836.0	5707.0	5541.7	5640.6	5524.1	6362.0	*6940.6*	7522.9	5581.8
50°	6378.3	6404.6	6392.0	6241.7	6057.7	6099.0	6026.3	6866.7	*7481.6*	8271.8	6027.6
52.5°	6663.8	6685.1	6840.4	6908.0	6811.6	6548.6	6454.6	7421.5	*7938.7*	8888.0	6437.1
55°	6526.0	6541.1	6879.2	7164.7	7517.9	7254.9	6885.5	7849.8	*8341.9*	9368.9	6741.4
57.5°	5955.0	6036.4	6496.0	6979.4	7722.0	7952.5	7584.3	8315.6	*8730.2*	9703.3	7040.8
60°	4784.0	4780.2	5439.0	6306.9	7323.8	8144.1	8571.1	8945.6	*9119.7*	9960.0	7441.5
62.5°	2643.7	2667.5	3544.2	4687.6	6216.7	7648.1	9311.3	10033.9	*10007.6*	10408.3	8068.9
65°	1316.2	1363.8	1839.7	2685.1	4136.5	6320.6	9439.0	11694.5	*11619.4*	11464.1	9365.1
67.5°	*835.3*	*854.1*	*1117.1*	*1560.4*	*2299.3*	*4062.6*	*8643.8*	*12933.1*	*13107.2*	*12716.4*	*10651.3*
70°	541.0	572.3	776.5	1067.0	1387.6	2093.9	6331.9	12130.3	*12529.8*	12578.7	9849.8
72.5°	294.3	316.8	495.9	761.4	1001.9	1047.0	3556.7	9103.4	*9745.8*	10670.1	7705.8
75°	167.8	184.1	271.8	517.2	735.1	637.4	1576.7	6094.0	*6503.5*	7625.6	5521.6
77.5°	101.4	115.2	152.8	251.7	460.9	425.8	596.1	3709.5	*3970.0*	4549.8	2898.0
80°	46.3	55.1	96.4	139.0	251.7	201.6	227.9	1729.5	*1785.9*	1867.3	959.3
82.5°	21.3	25.0	43.8	82.7	142.8	116.5	87.7	399.5	*562.3*	532.3	244.2
85°	2.5	2.5	16.3	33.8	40.1	30.1	36.3	90.2	*114.0*	160.3	70.1
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.5	11.3	*16.3*	26.3	17.5
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: P636015
CATALOG NUMBER: GWS-SA3E-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1546.7	1511.6	1480.3	1433.9	1402.6	1367.6	1343.8	1315.0	1303.7	1294.9	1282.4
5°	1581.7	1525.4	1449.0	1363.8	1293.7	1227.3	1165.9	1125.9	1090.8	1085.8	1068.3
7.5°	1639.3	1555.4	1426.4	1287.4	1168.4	1058.2	971.8	901.7	866.6	855.4	835.3
10°	1715.7	1600.5	1392.6	1179.7	1008.1	876.6	779.0	700.1	645.0	624.9	609.9
12.5°	1800.9	1641.8	1338.8	1047.0	851.6	701.3	577.3	493.4	458.4	445.8	434.6
15°	1898.6	1680.7	1253.6	914.2	698.8	516.0	428.3	392.0	377.0	373.2	369.4
17.5°	1992.5	1705.7	1152.2	776.5	537.3	400.8	359.4	345.7	341.9	338.1	335.6
20°	2099.0	1723.2	1033.2	646.2	417.0	339.4	319.4	309.3	301.8	294.3	293.1
22.5°	2207.9	1723.2	904.2	518.5	349.4	304.3	281.8	263.0	249.2	241.7	239.2
25°	2311.9	1699.4	776.5	414.5	308.1	270.5	241.7	220.4	201.6	192.9	190.4
27.5°	2385.7	1638.1	665.0	350.7	279.3	240.5	205.4	181.6	166.6	157.8	156.5
30°	2432.1	1546.7	562.3	313.1	254.2	209.1	174.1	154.0	142.8	136.5	134.0
32.5°	2467.1	1433.9	470.9	286.8	230.4	181.6	151.5	135.3	125.2	120.2	119.0
35°	2537.3	1327.5	403.3	263.0	205.4	159.0	132.7	120.2	112.7	106.5	105.2
37.5°	2635.0	1238.6	349.4	241.7	181.6	141.5	120.2	109.0	102.7	96.4	95.2
40°	2779.0	1182.2	309.3	220.4	160.3	127.7	110.2	100.2	91.4	85.2	83.9
42.5°	3000.6	1155.9	283.0	199.1	141.5	115.2	101.4	88.9	80.2	73.9	72.6
45°	3264.9	1169.7	260.5	177.8	129.0	106.5	90.2	77.6	68.9	62.6	61.4
47.5°	3547.9	1218.5	241.7	157.8	116.5	97.7	80.2	66.4	58.9	52.6	51.3
50°	3843.5	1298.7	225.4	139.0	106.5	87.7	68.9	57.6	50.1	45.1	43.8
52.5°	4100.2	1407.6	209.1	125.2	97.7	77.6	60.1	50.1	42.6	37.6	36.3
55°	4345.7	1510.3	196.6	112.7	87.7	67.6	52.6	42.6	36.3	31.3	30.1
57.5°	4612.4	1619.3	181.6	101.4	78.9	60.1	46.3	36.3	31.3	26.3	25.0
60°	5000.7	1780.9	159.0	92.7	68.9	52.6	40.1	32.6	27.6	21.3	20.0
62.5°	5560.5	2075.2	134.0	80.2	58.9	45.1	33.8	27.6	22.5	17.5	15.0
65°	6607.4	2576.1	110.2	66.4	47.6	37.6	28.8	22.5	17.5	12.5	11.3
67.5°	*7361.4*	*2706.3*	*88.9*	*53.9*	*38.8*	*28.8*	*23.8*	*17.5*	*12.5*	*8.8*	*7.5*
70°	6435.9	1943.7	68.9	43.8	32.6	22.5	18.8	13.8	8.8	6.3	5.0
72.5°	4849.1	1269.9	51.3	33.8	25.0	18.8	13.8	11.3	7.5	5.0	3.8
75°	3417.7	733.9	37.6	25.0	17.5	13.8	11.3	8.8	6.3	3.8	3.8
77.5°	1752.0	303.1	26.3	17.5	12.5	8.8	7.5	5.0	5.0	3.8	2.5
80°	532.3	100.2	15.0	11.3	8.8	6.3	3.8	3.8	3.8	2.5	1.3
82.5°	121.5	32.6	8.8	8.8	6.3	5.0	3.8	1.3	1.3	0.0	0.0
85°	31.3	10.0	7.5	6.3	6.3	5.0	2.5	1.3	0.0	0.0	0.0
87.5°	11.3	6.3	6.3	6.3	5.0	3.8	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

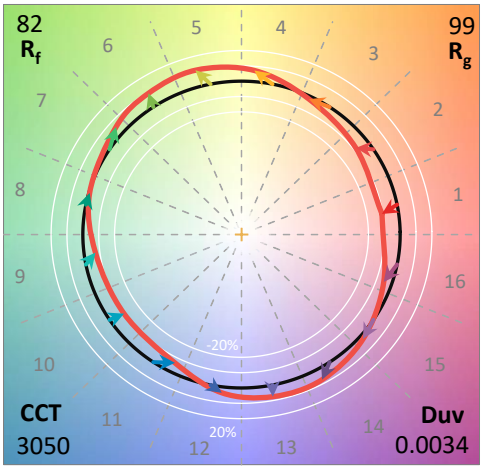
Test Information

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

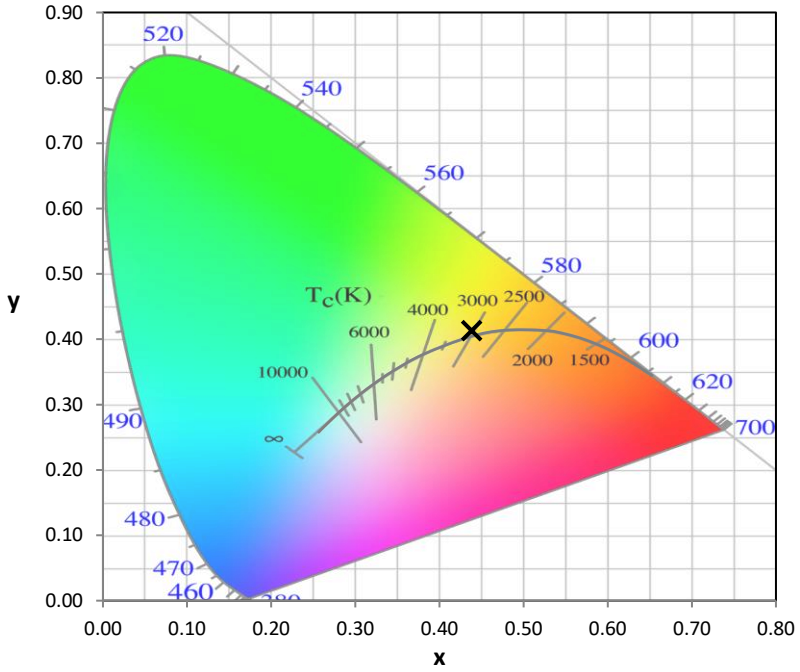
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

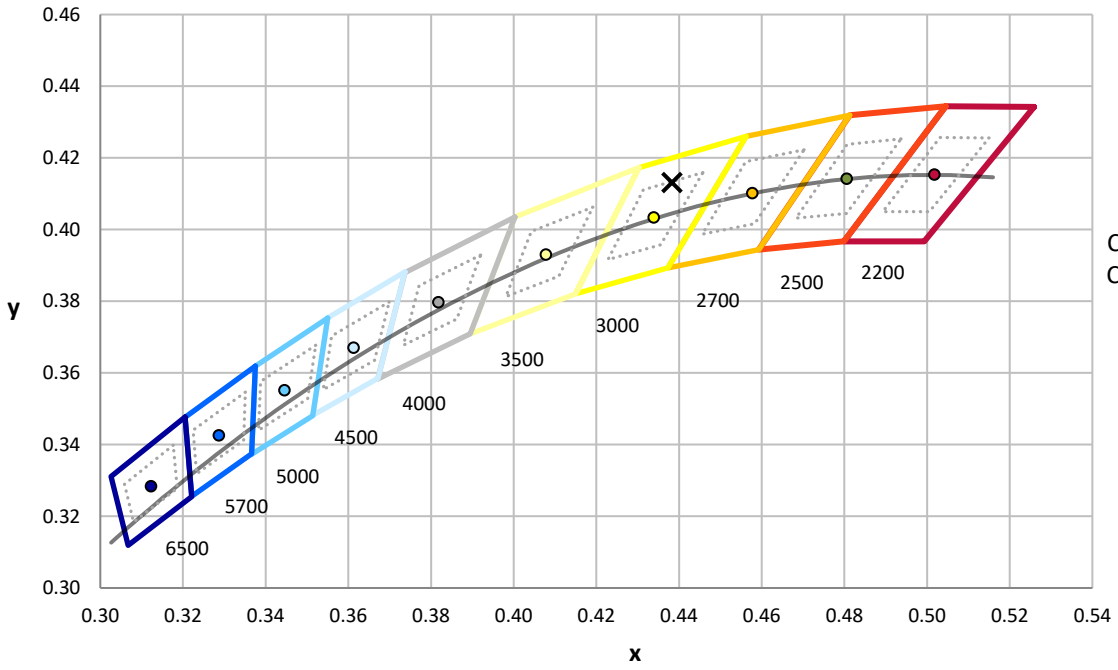
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

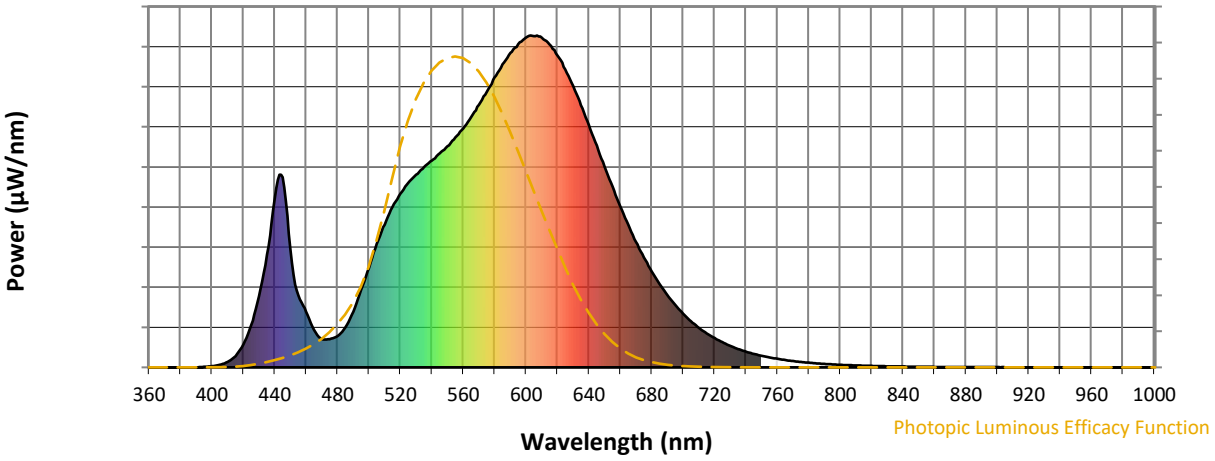


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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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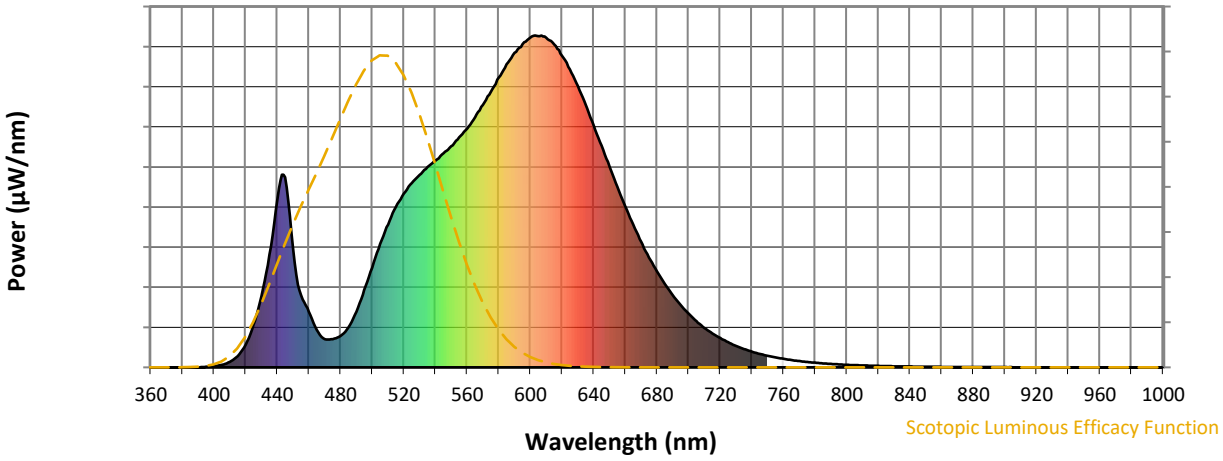
Scotopic Flux vs. Wavelength



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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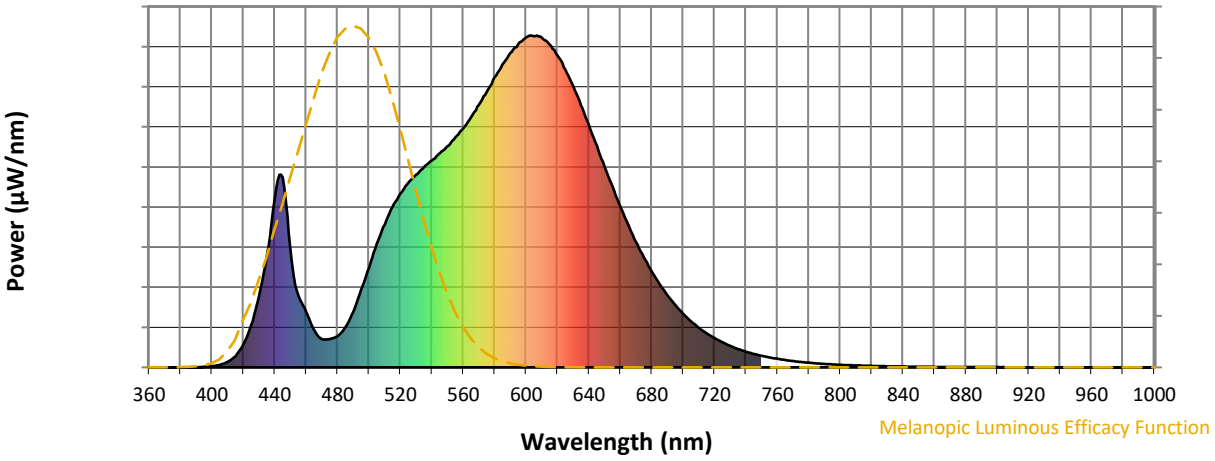
Melanopic Flux vs. Wavelength



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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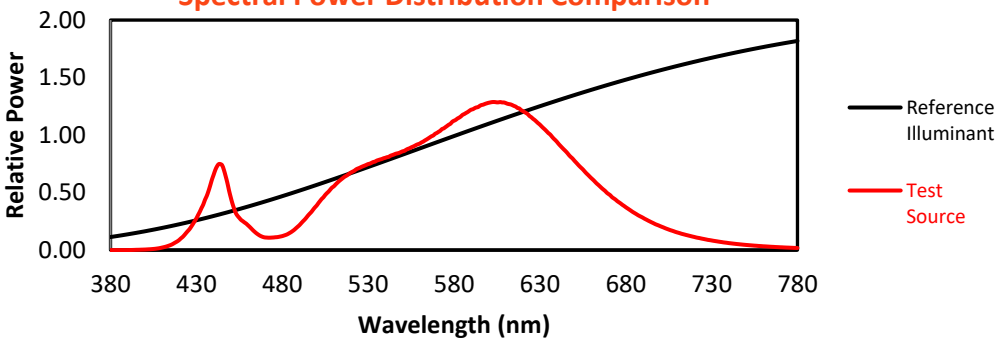
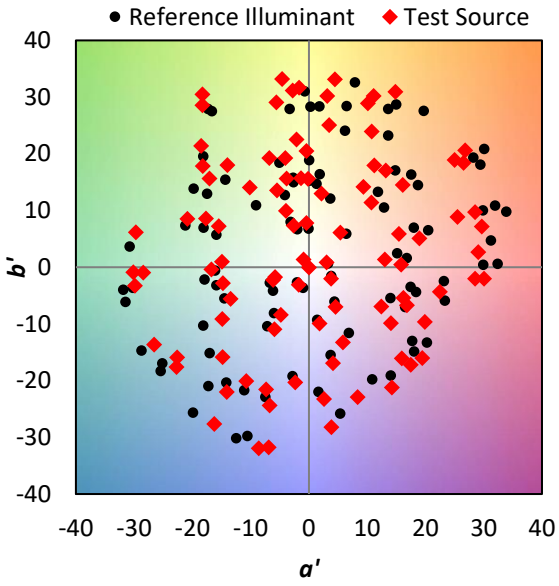
Summary

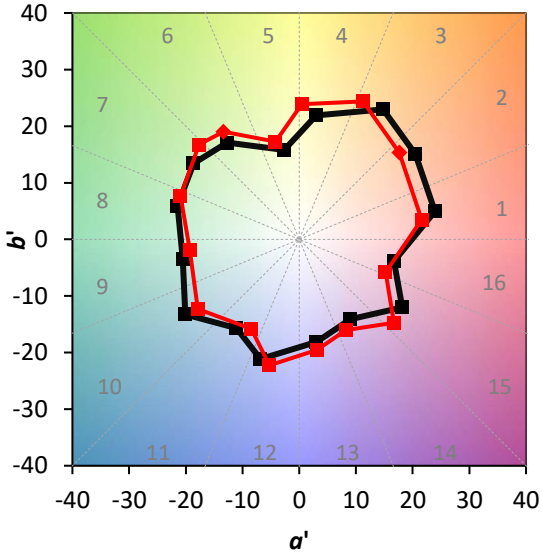
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

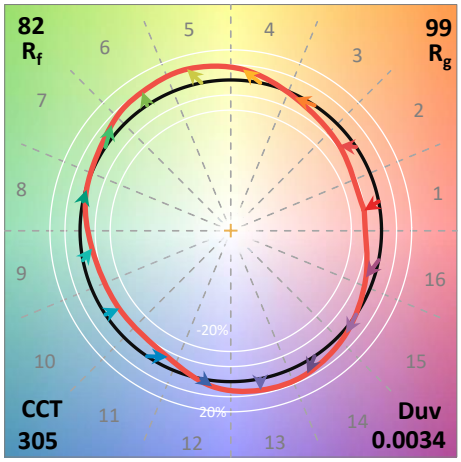
Spectral Power Distribution Comparison

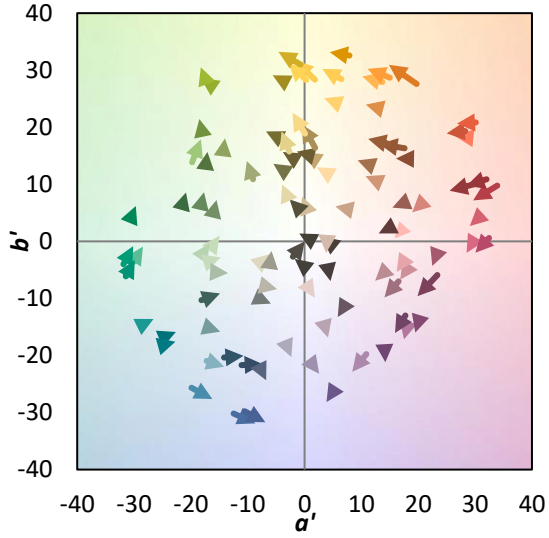


Color Vector Graphics









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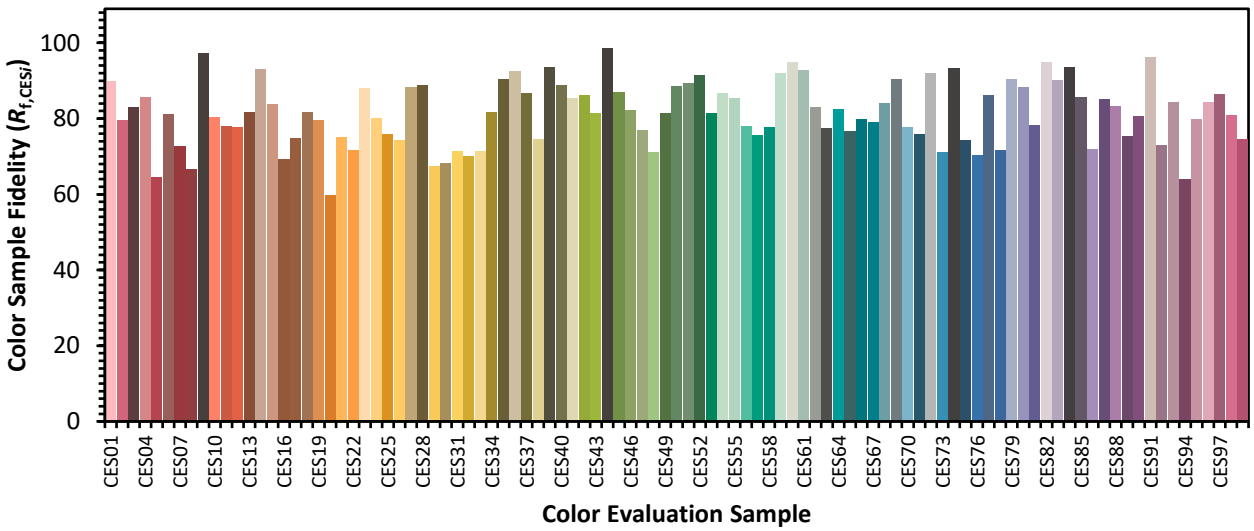
Individual Sample Fidelity Index ($R_{f,i}$)

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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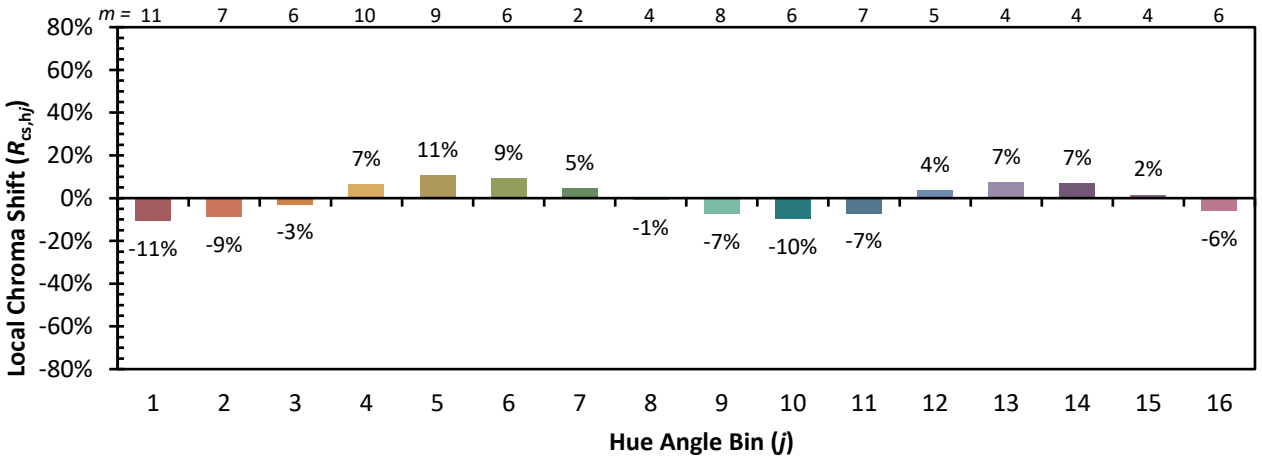
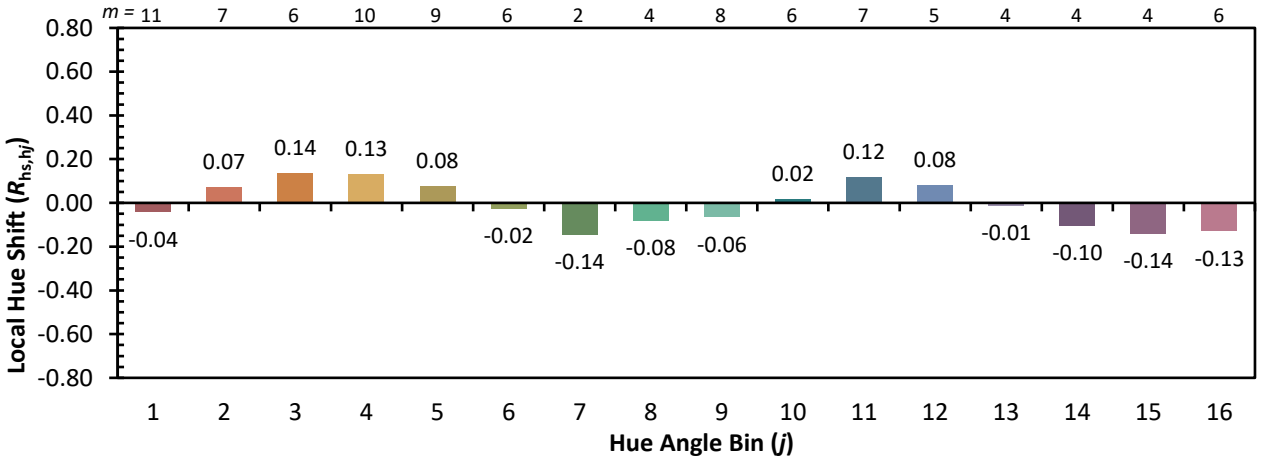
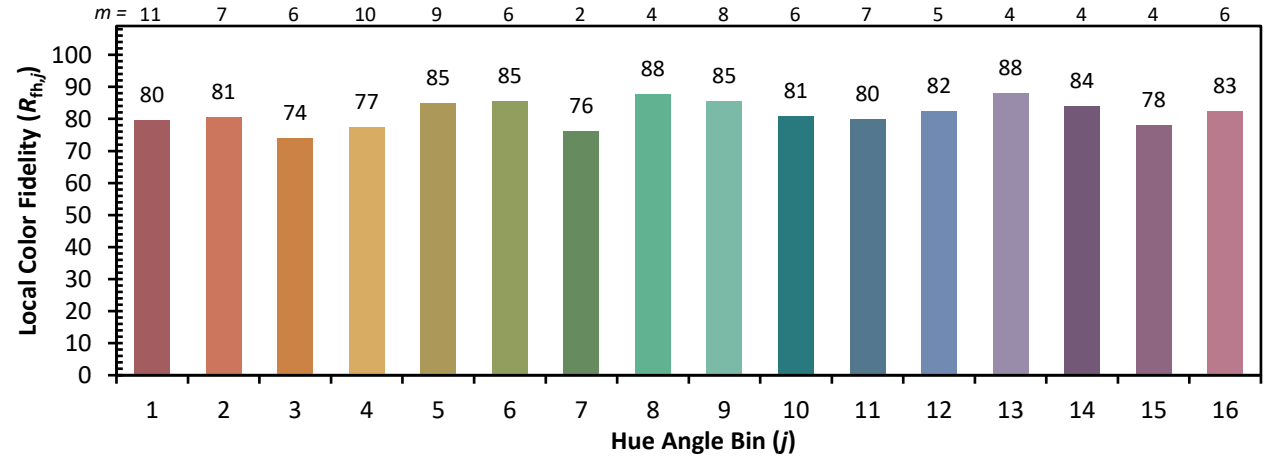
Color Rendition by Hue-Angle Bin







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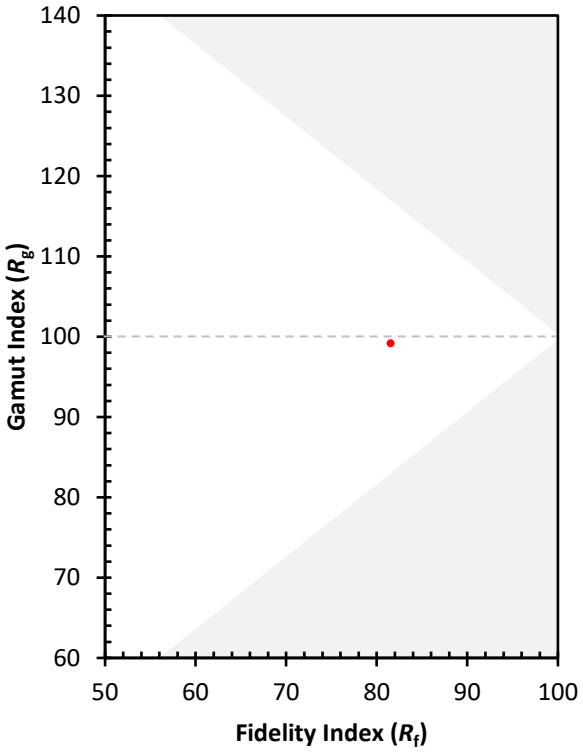
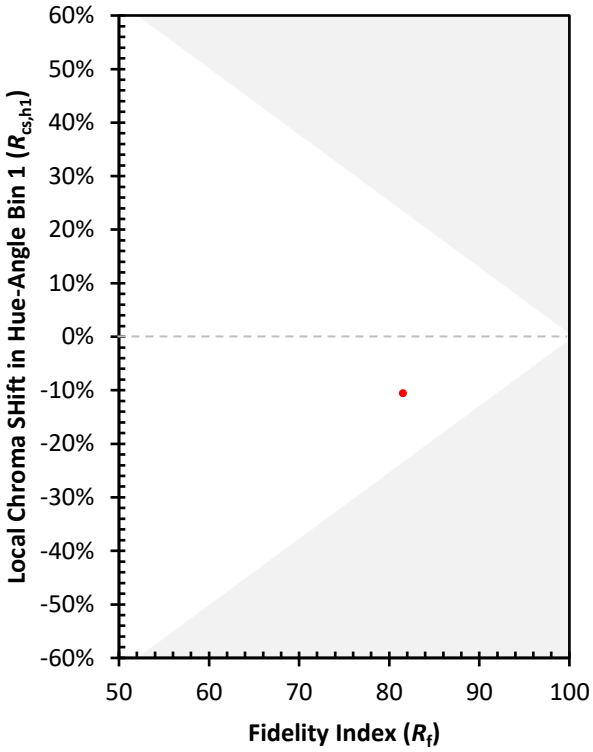
Measure Comparisons





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