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: P642954

Luminaire Tested: GWS-SA6D-830-U-T3-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:	P642954
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28475.7 lumens
Efficiency:	N/A
Efficacy:	115.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	245.7
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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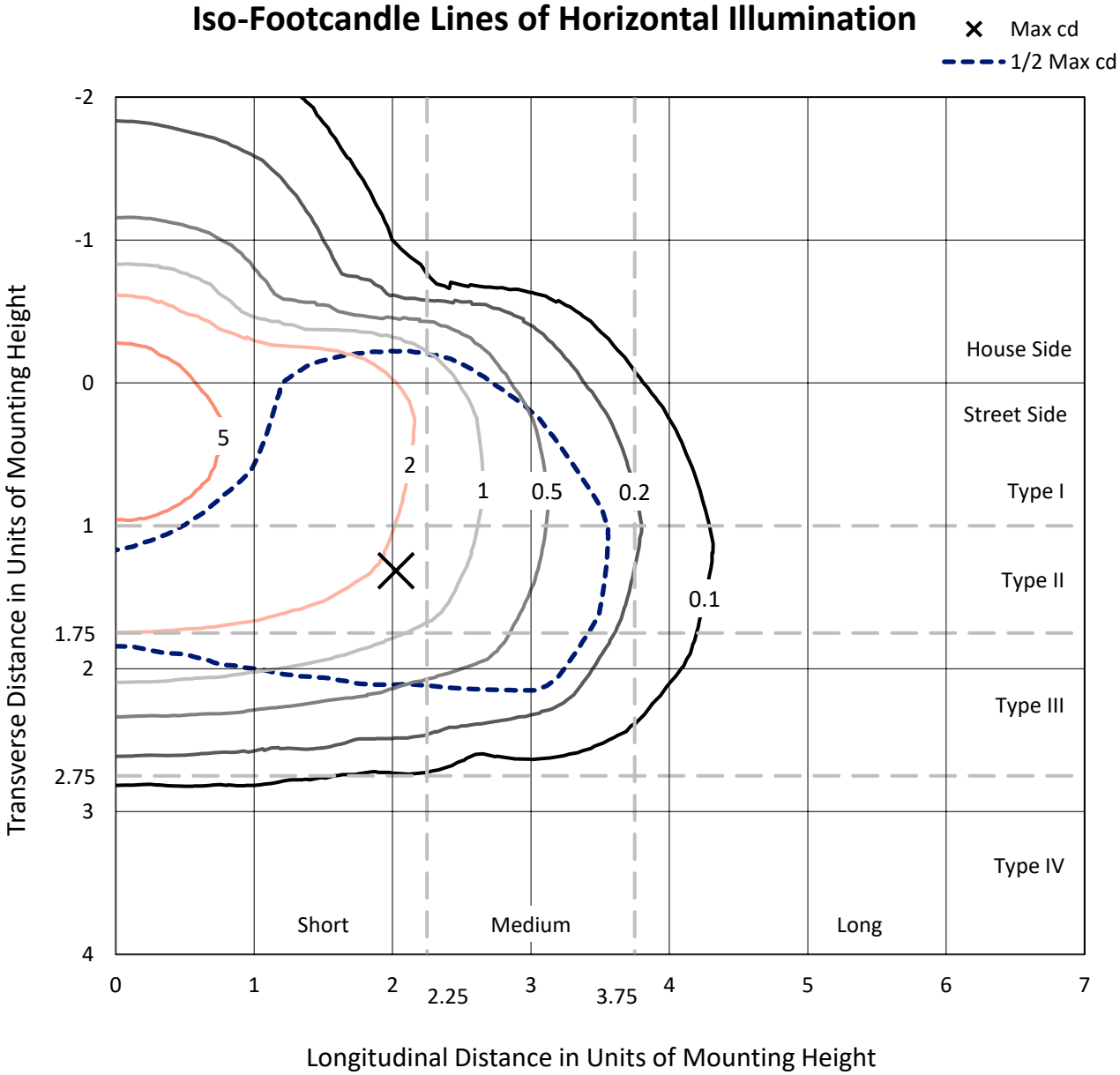
Scaled Data Report

REPORT NUMBER: P642954
CATALOG NUMBER: GWS-SA6D-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

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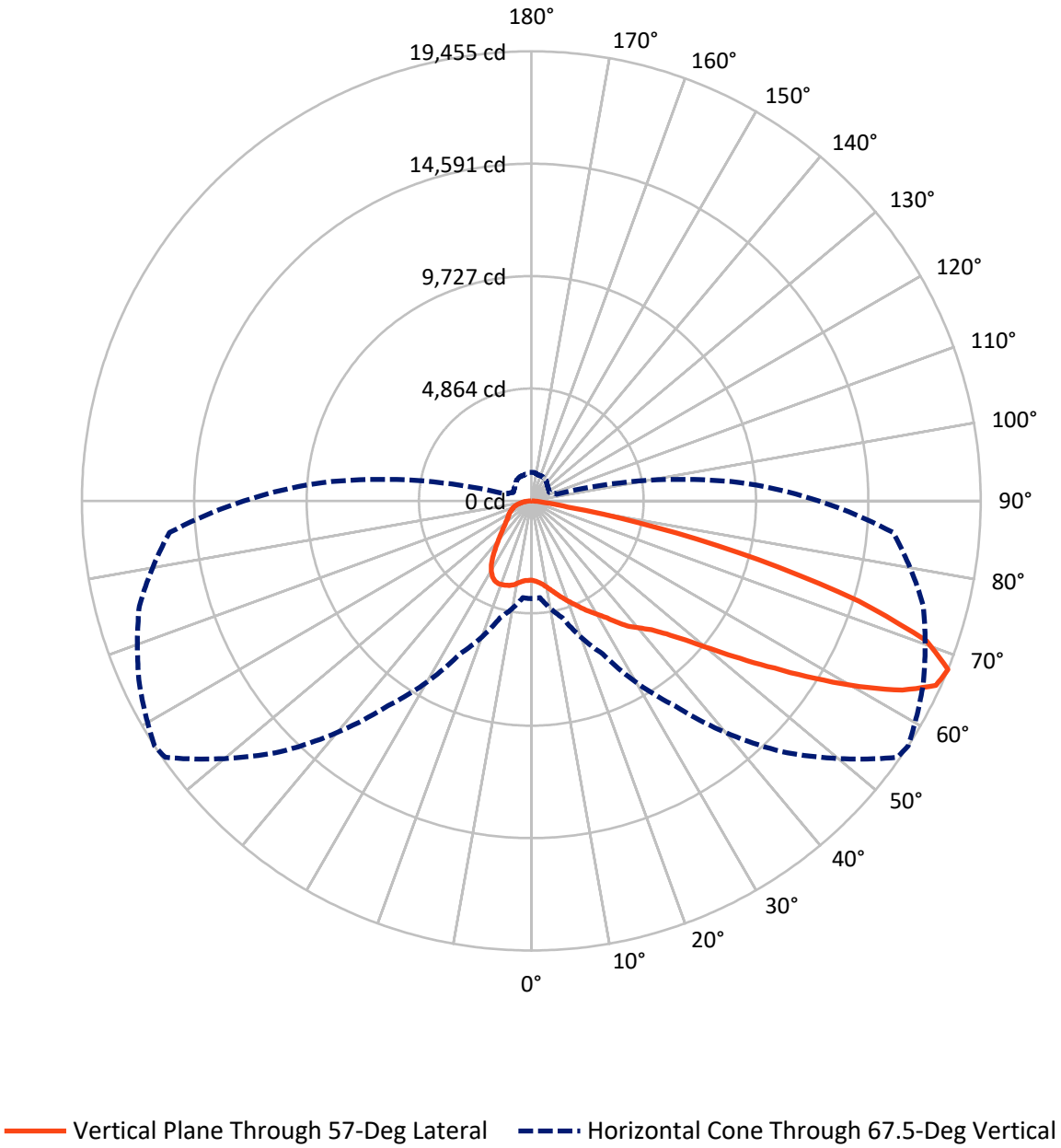
Luminous Intensity Polar Plot



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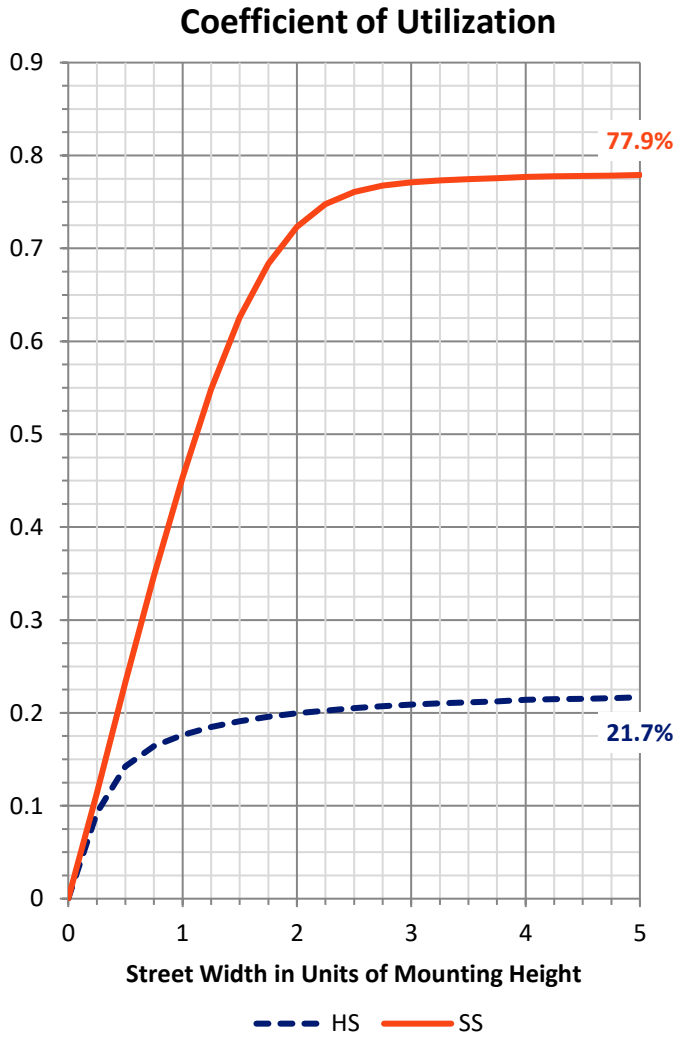
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6260.7	0.0	6260.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22215.0	0.0	22215.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	28475.7	0.0	28475.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	1.2
10°-20°	1126.6	4.0
20°-30°	2008.4	7.1
30°-40°	2920.0	10.3
40°-50°	4226.2	14.8
50°-60°	6613.9	23.2
60°-70°	7715.5	27.1
70°-80°	3220.8	11.3
80°-90°	303.9	1.1
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°	28475.7	100.0
0°-180°	28475.7	100.0



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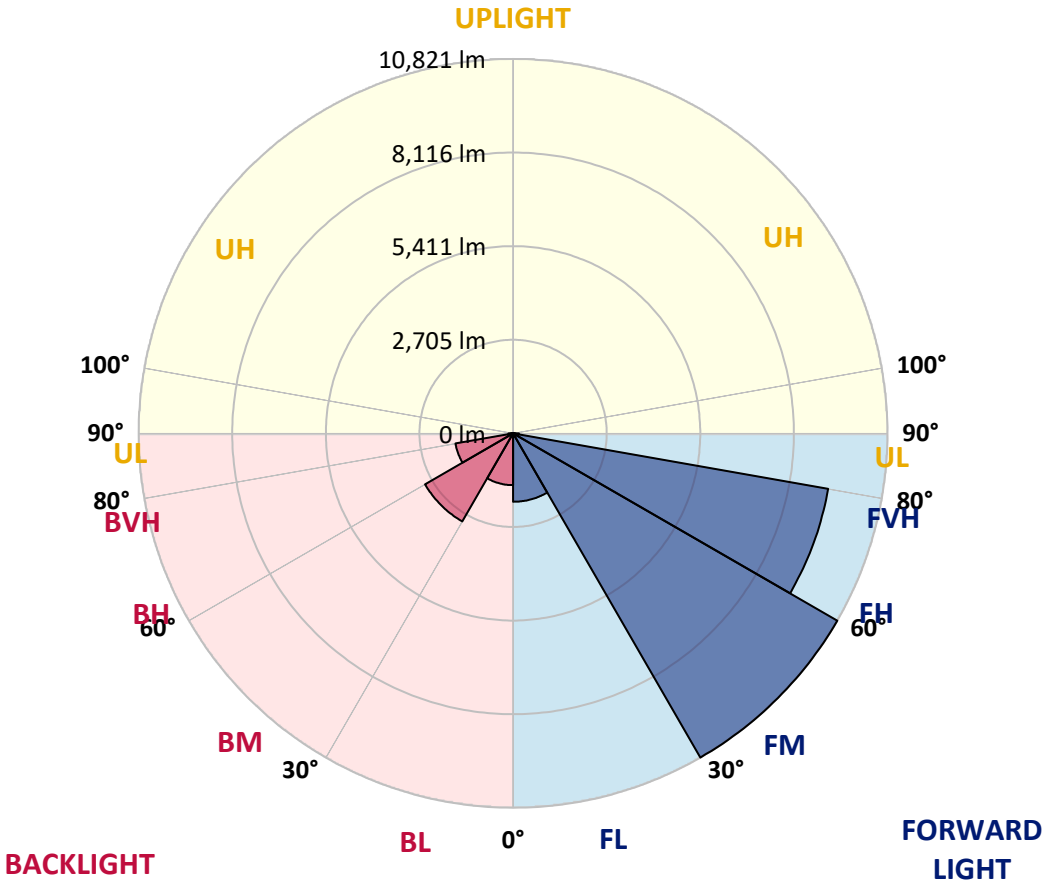
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1977.9	6.9			
FM	(30°-60°)	10821.2	38.0			
FH	(60°-80°)	9246.5	32.5			G4/12000
FVH	(80°-90°)	169.3	0.6			G2/225
BL	(0°-30°)	1497.4	5.3	B3/2500		
BM	(30°-60°)	2939.0	10.3	B3/5000		
BH	(60°-80°)	1689.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	134.6	0.5			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 III Short



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REPORT NUMBER: P642954
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1
2.5°	3480.1	3476.0	3474.0	3486.2	3482.1	3480.1	3480.1	3478.0	3474.0	3457.6	3435.2
5°	3576.0	3567.8	3559.6	3569.8	3561.7	3553.5	3551.5	3547.4	3533.1	3508.6	3474.0
7.5°	3675.9	3667.8	3669.8	3675.9	3669.8	3665.7	3659.6	3655.5	3633.1	3594.3	3547.4
10°	3816.7	3816.7	3820.8	3826.9	3828.9	3822.8	3810.6	3804.4	3777.9	3729.0	3663.7
12.5°	4020.7	4016.6	4016.6	4012.5	4018.6	4012.5	4000.3	3990.1	3957.4	3894.2	3800.4
15°	4289.9	4273.6	4259.3	4232.8	4224.7	4202.2	4206.3	4200.2	4169.6	4083.9	3965.6
17.5°	4577.6	4575.5	4553.1	4500.0	4447.0	4410.3	4418.4	4416.4	4400.1	4283.8	4132.9
20°	4830.5	4840.7	4820.3	4779.5	4708.1	4638.8	4634.7	4644.9	4624.5	4508.2	4298.1
22.5°	5114.1	5105.9	5085.5	5032.5	4979.4	4906.0	4881.5	4873.3	4865.2	4732.6	4467.4
25°	5383.3	5407.8	5381.3	5332.3	5250.7	5171.2	5150.8	5158.9	5136.5	4961.1	4649.0
27.5°	5724.0	5734.2	5717.9	5650.5	5581.2	5469.0	5430.2	5430.2	5422.1	5175.3	4791.7
30°	6087.1	6115.6	6087.1	6032.0	5960.6	5799.5	5715.8	5707.7	5683.2	5395.6	4959.0
32.5°	6452.2	6472.6	6452.2	6399.2	6317.6	6176.8	6056.5	6038.1	6005.5	5636.3	5130.4
35°	6776.6	6794.9	6790.9	6803.1	6735.8	6558.3	6484.9	6476.7	6391.0	5950.4	5362.9
37.5°	7131.5	7154.0	7123.4	7147.8	7121.3	6954.1	6931.6	6890.8	6768.4	6246.2	5607.7
40°	7535.4	7555.8	7506.9	7517.1	7486.5	7392.6	7278.4	7223.3	7041.8	6566.5	5993.3
42.5°	7967.9	8014.8	8037.2	8018.9	7947.5	7894.5	7694.5	7625.2	7474.2	7143.8	6627.7
45°	8594.1	8663.5	8696.1	8649.2	8618.6	8543.1	8298.4	8214.7	8135.2	7957.7	7513.0
47.5°	9269.3	9332.6	9436.6	9457.0	9481.5	9424.4	9079.6	8998.0	9012.3	8991.9	8602.3
50°	9807.9	9860.9	10095.5	10346.4	10554.5	10570.8	10130.2	10042.5	10120.0	10185.3	9914.0
52.5°	10199.5	10246.5	10556.5	11074.7	11545.9	11894.7	11419.4	11319.5	11382.7	11529.6	11405.1
55°	10517.8	10583.1	10907.4	11703.0	12655.6	13206.4	12902.4	12776.0	12749.4	12931.0	13002.4
57.5°	10685.0	10705.4	11160.3	12194.6	13469.5	14493.6	14626.2	14483.4	14230.4	14330.4	14701.6
60°	10303.6	10338.3	10960.4	12321.1	14112.1	15770.5	16435.6	16317.2	15778.7	15833.8	16243.8
62.5°	9249.0	9297.9	10046.6	11719.3	14165.1	16623.2	18106.2	18030.8	17308.6	17010.8	17133.2
65°	7419.2	7435.5	8210.6	10230.1	13110.5	16729.3	19271.0	19252.7	18377.5	17679.9	17155.6
67.5°	4230.8	4202.2	5238.5	7296.8	10819.7	15350.3	19346.5	19454.6	18724.3	17569.7	15727.7
70°	1833.9	1838.0	2315.3	3600.4	7003.0	12406.7	17969.6	18155.2	17720.7	15735.9	12512.8
72.5°	848.6	860.8	1066.9	1558.5	2990.5	7696.6	14652.7	14819.9	14446.6	12594.4	9104.1
75°	599.7	609.9	711.9	893.5	1374.9	2998.7	9801.8	10152.6	10334.2	9420.3	5999.4
77.5°	454.9	469.2	520.2	620.1	848.6	1062.8	4689.8	5526.1	6582.8	5860.7	3090.5
80°	289.7	289.7	344.7	414.1	518.1	552.8	1354.5	1605.4	3221.0	2415.3	1213.7
82.5°	195.8	202.0	234.6	263.1	297.8	314.1	581.4	620.1	930.2	822.1	499.8
85°	104.0	108.1	122.4	120.4	142.8	124.4	244.8	242.7	340.7	373.3	189.7
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	26.5	28.6	71.4	114.2	63.2
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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REPORT NUMBER: P642954
CATALOG NUMBER: GWS-SA6D-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1
2.5°	3447.4	3423.0	3435.2	3431.1	3443.4	3443.4	3420.9	3414.8	3416.8	3392.4	3384.2
5°	3478.0	3449.5	3455.6	3447.4	3459.7	3469.9	3459.7	3459.7	3471.9	3453.6	3443.4
7.5°	3547.4	3514.8	3514.8	3504.6	3518.8	3527.0	3518.8	3531.1	3553.5	3535.2	3525.0
10°	3657.6	3618.8	3620.8	3608.6	3614.7	3610.6	3578.0	3567.8	3573.9	3557.6	3549.4
12.5°	3800.4	3747.3	3747.3	3722.8	3708.6	3665.7	3598.4	3573.9	3578.0	3563.7	3557.6
15°	3937.0	3888.1	3877.9	3828.9	3763.6	3684.1	3622.9	3606.6	3610.6	3596.4	3586.2
17.5°	4098.2	4034.9	3998.2	3908.5	3788.1	3706.5	3645.3	3606.6	3573.9	3541.3	3533.1
20°	4247.1	4167.5	4100.2	3961.5	3814.6	3702.4	3588.2	3492.3	3412.8	3369.9	3359.7
22.5°	4400.1	4298.1	4179.8	3998.2	3812.6	3629.0	3418.9	3274.1	3155.7	3092.5	3104.7
25°	4544.9	4416.4	4255.3	4032.9	3747.3	3465.8	3180.2	2964.0	2829.4	2780.4	2766.1
27.5°	4665.3	4506.2	4324.6	4016.6	3612.7	3231.2	2853.8	2613.1	2482.6	2427.5	2413.2
30°	4799.9	4620.4	4424.6	3941.1	3400.5	2902.8	2484.6	2288.8	2194.9	2141.9	2143.9
32.5°	4954.9	4767.3	4565.3	3796.3	3129.2	2547.8	2180.7	2046.0	1970.6	1917.5	1909.4
35°	5163.0	4977.4	4659.2	3578.0	2784.5	2221.5	1972.6	1862.4	1768.6	1699.2	1685.0
37.5°	5420.0	5293.6	4669.4	3286.3	2415.3	1997.1	1823.7	1705.4	1591.1	1499.3	1489.1
40°	5860.7	5715.8	4585.7	2921.2	2101.1	1852.2	1699.2	1562.6	1430.0	1328.0	1313.7
42.5°	6489.0	6191.1	4406.2	2509.1	1864.5	1738.0	1580.9	1407.5	1272.9	1201.5	1191.3
45°	7288.6	6721.5	4136.9	2121.5	1689.0	1625.8	1456.5	1274.9	1203.5	1152.5	1142.3
47.5°	8267.8	7339.6	3826.9	1819.6	1552.4	1523.8	1330.0	1230.1	1166.8	1124.0	1113.8
50°	9438.7	8127.0	3571.9	1583.0	1430.0	1405.5	1289.2	1203.5	1152.5	1117.9	1109.7
52.5°	10774.8	9002.1	3447.4	1413.7	1323.9	1299.4	1274.9	1197.4	1154.6	1128.1	1117.9
55°	12161.9	9924.2	3331.2	1283.1	1234.1	1248.4	1277.0	1217.8	1185.2	1150.5	1140.3
57.5°	13502.2	10789.1	3045.6	1181.1	1168.9	1223.9	1287.2	1238.2	1199.5	1164.8	1152.5
60°	14426.2	11262.3	2562.1	1099.5	1119.9	1193.3	1260.7	1207.6	1158.7	1144.4	1138.3
62.5°	14675.1	11205.2	1988.9	1015.9	1060.8	1126.0	1191.3	1156.6	1105.6	1128.1	1130.1
65°	14093.7	10593.3	1493.2	934.3	983.2	1038.3	1119.9	1105.6	1087.3	1148.5	1150.5
67.5°	*12447.5*	*9089.8*	*1138.3*	*862.9*	*903.7*	*971.0*	*1097.5*	*1156.6*	*1160.7*	*1238.2*	*1230.1*
70°	9418.3	6790.9	891.4	795.6	842.5	971.0	1168.9	1195.4	1146.4	1217.8	1201.5
72.5°	6511.4	4481.7	758.8	736.4	767.0	926.1	1166.8	1166.8	1113.8	1113.8	1083.2
75°	4045.1	2635.6	660.9	660.9	660.9	809.8	1134.2	1075.0	981.2	938.4	913.9
77.5°	1997.1	1281.1	554.9	575.3	552.8	677.2	926.1	879.2	822.1	777.2	760.9
80°	852.7	640.5	448.8	471.2	444.7	510.0	734.4	724.2	669.1	609.9	591.6
82.5°	391.7	330.5	359.0	369.2	324.3	383.5	536.5	536.5	505.9	424.3	393.7
85°	167.3	175.4	248.9	248.9	204.0	216.2	287.6	273.3	244.8	199.9	183.6
87.5°	57.1	85.7	126.5	110.2	42.8	18.4	10.2	4.1	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

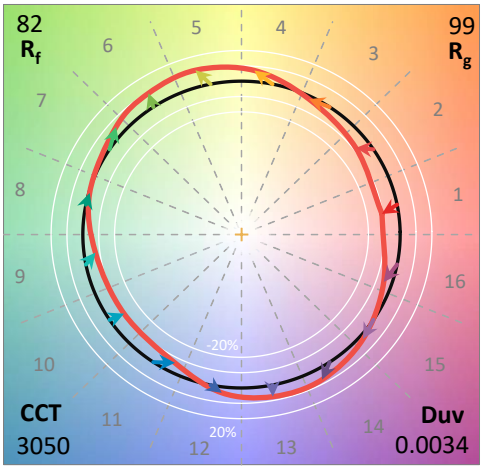
Test Information

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

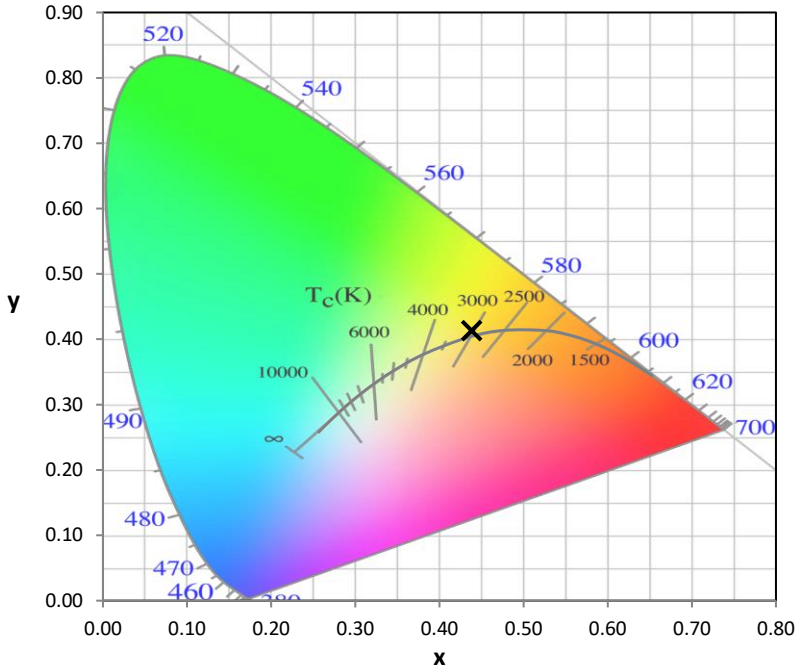
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

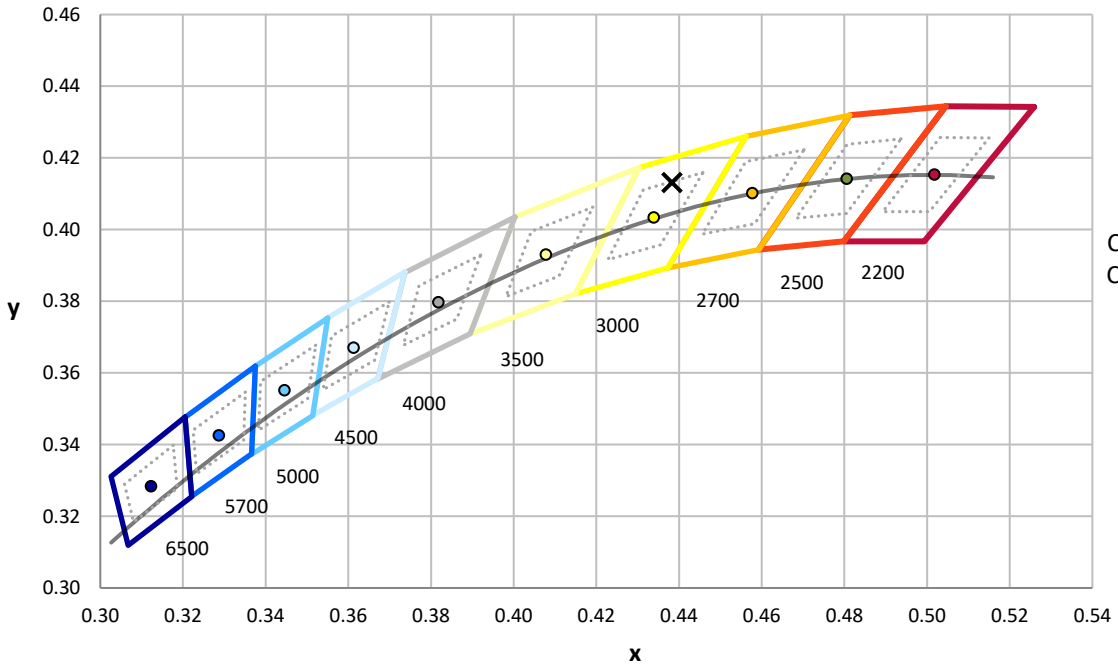
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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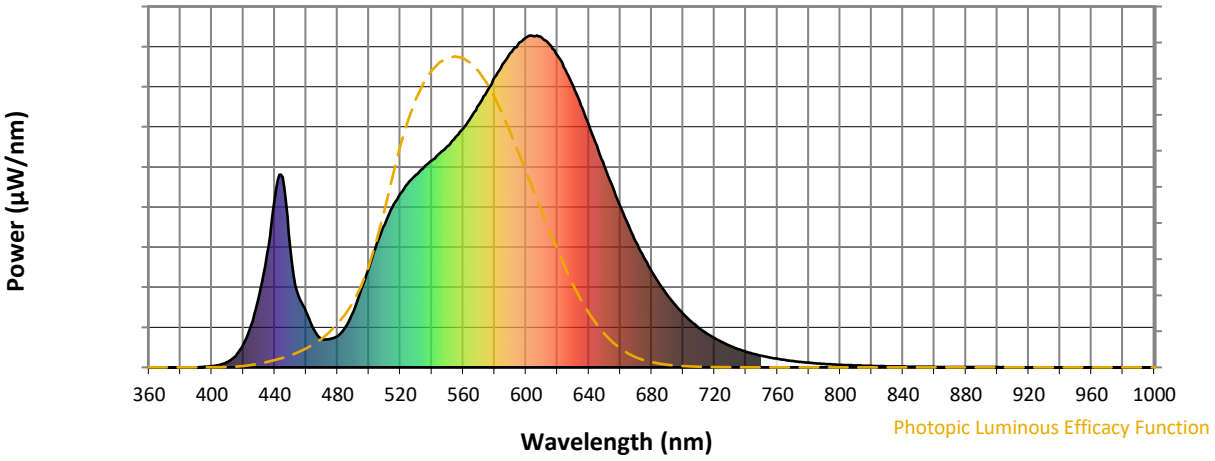
Photopic Flux vs. Wavelength



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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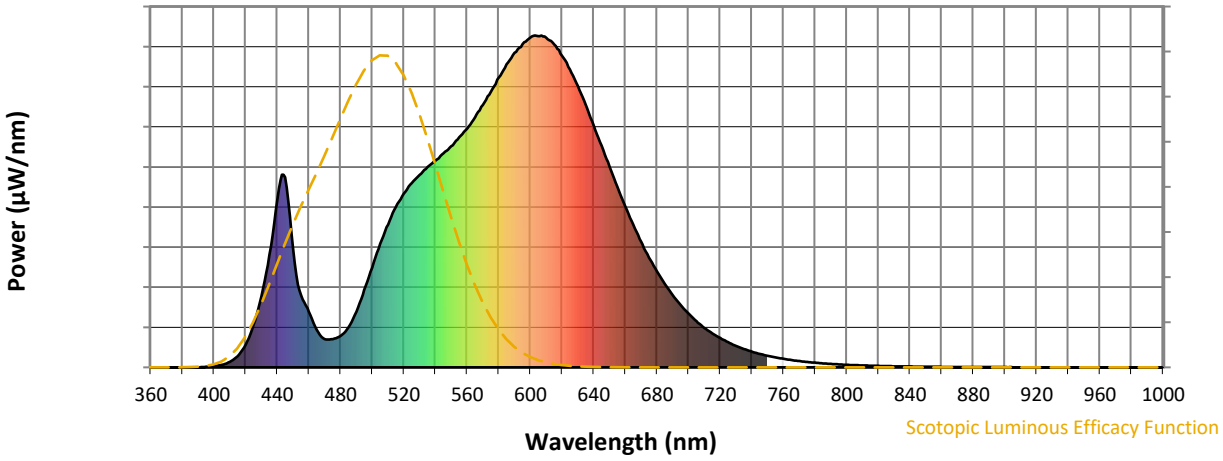
Scotopic Flux vs. Wavelength



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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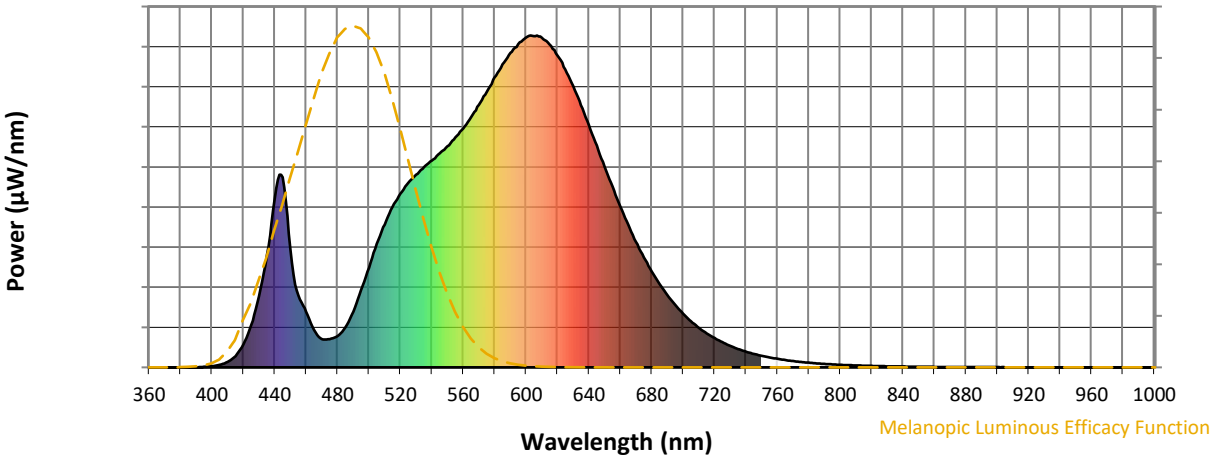
Melanopic Flux vs. Wavelength



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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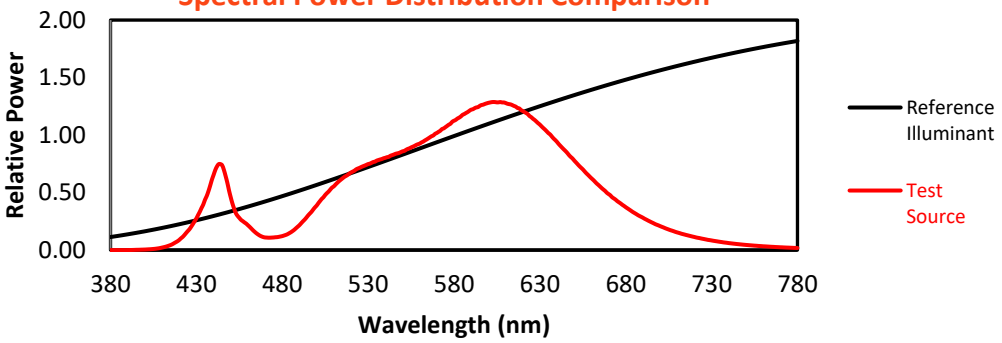
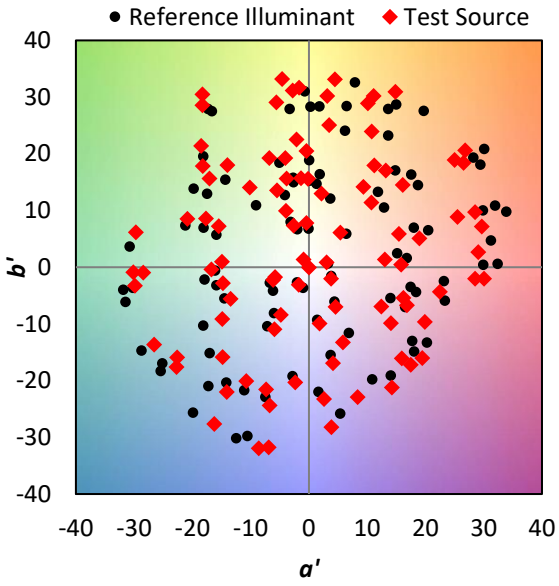
Summary

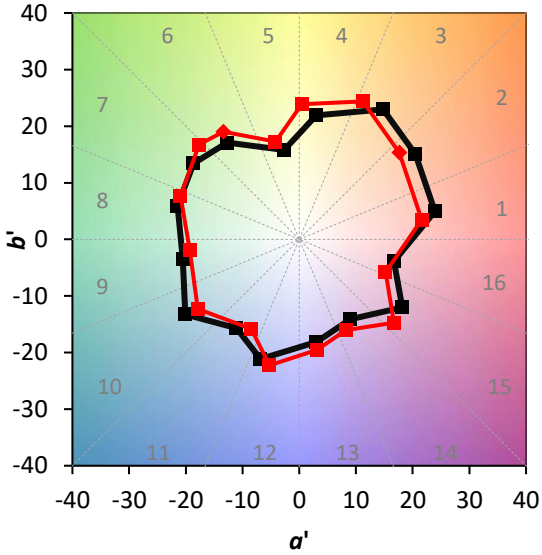
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

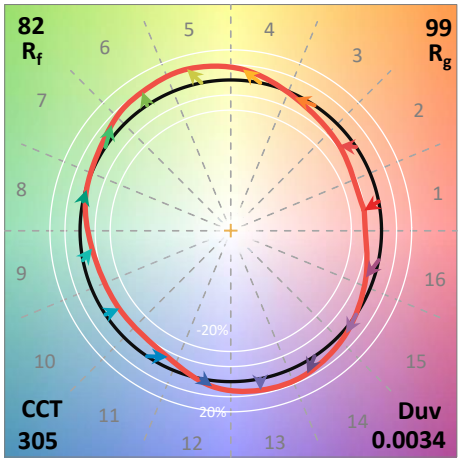
Spectral Power Distribution Comparison

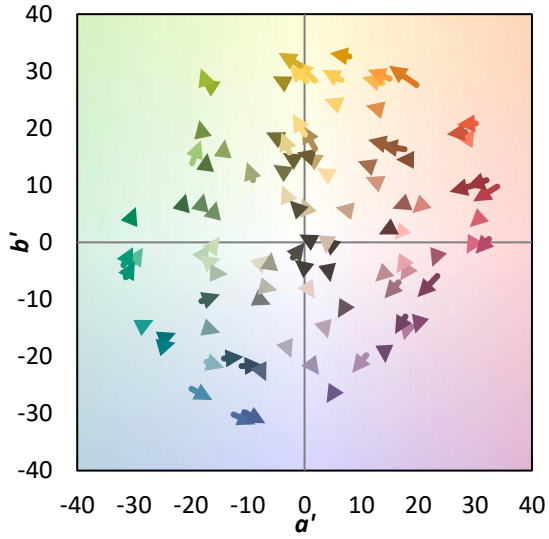


Color Vector Graphics









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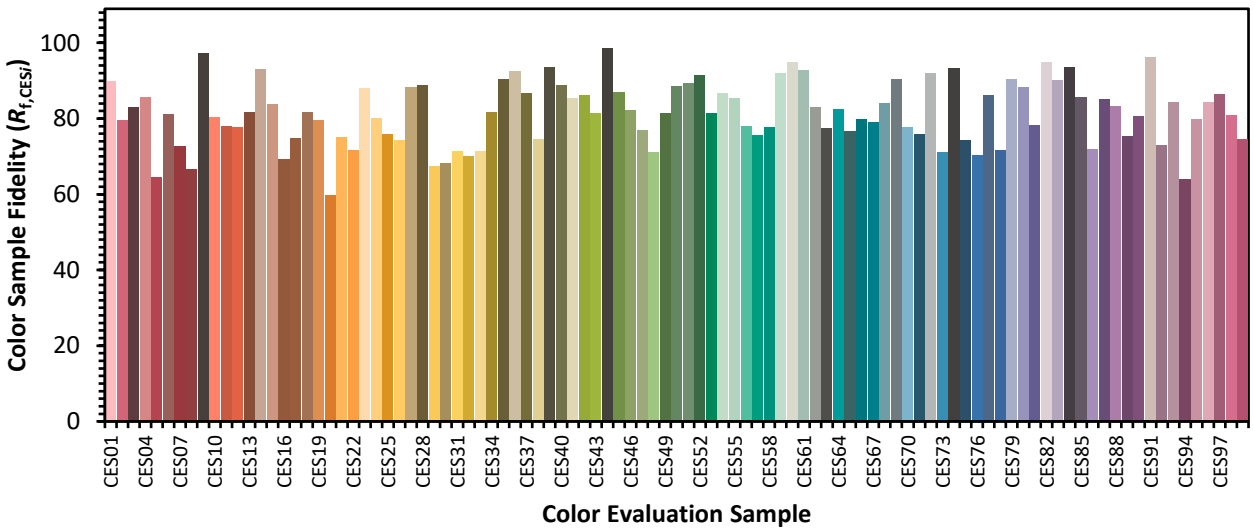
Individual Sample Fidelity Index ($R_{f,i}$)

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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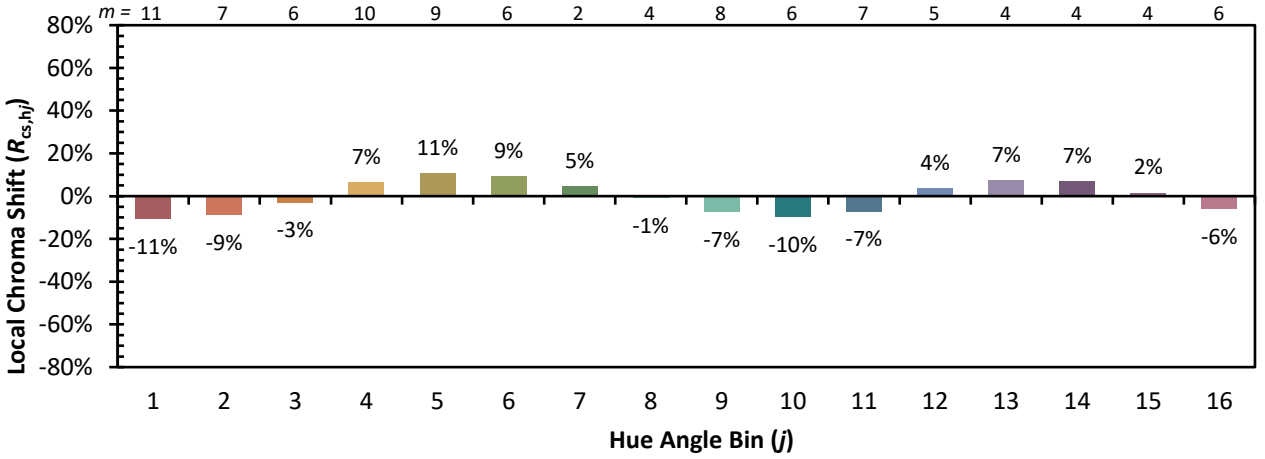
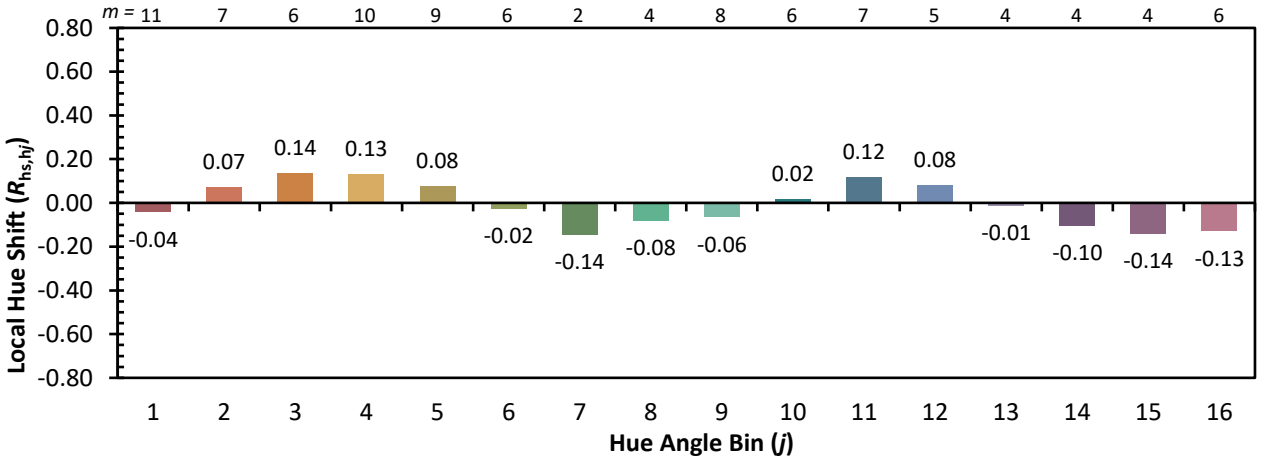
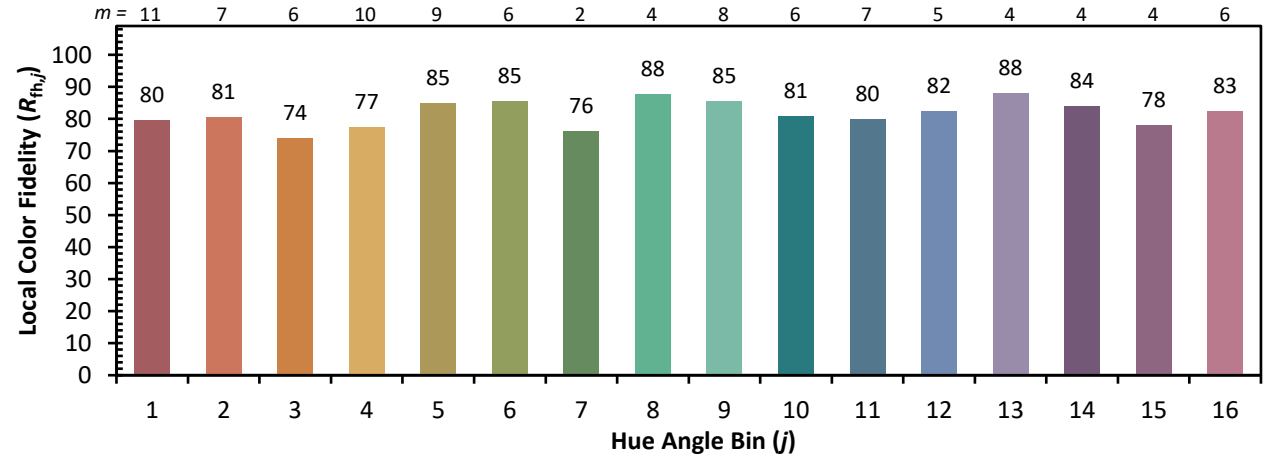
Color Rendition by Hue-Angle Bin







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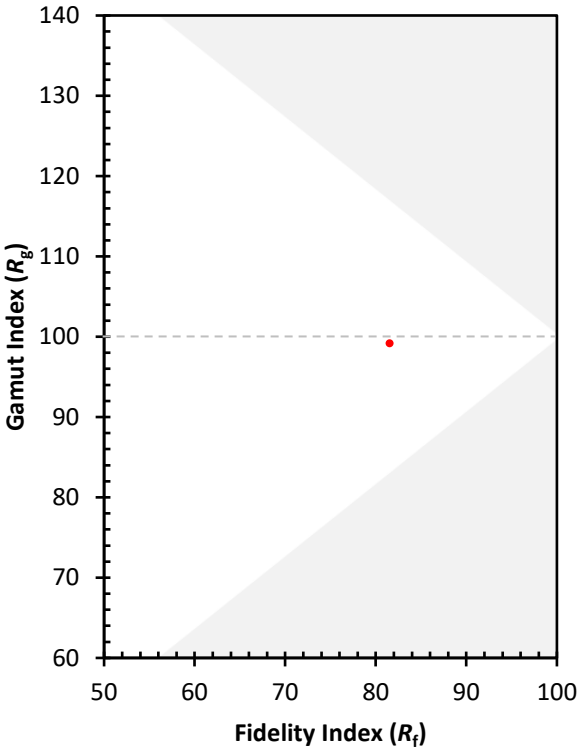
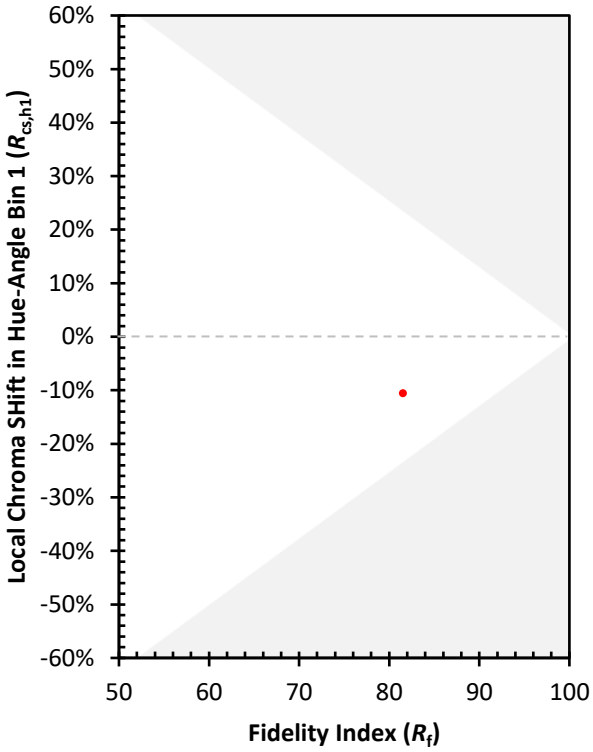
Measure Comparisons





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