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: P643920

Luminaire Tested: GWS-SA6F-830-U-SL3-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:	P643920
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
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-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32021.7 lumens
Efficiency:	N/A
Efficacy:	85.9 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):	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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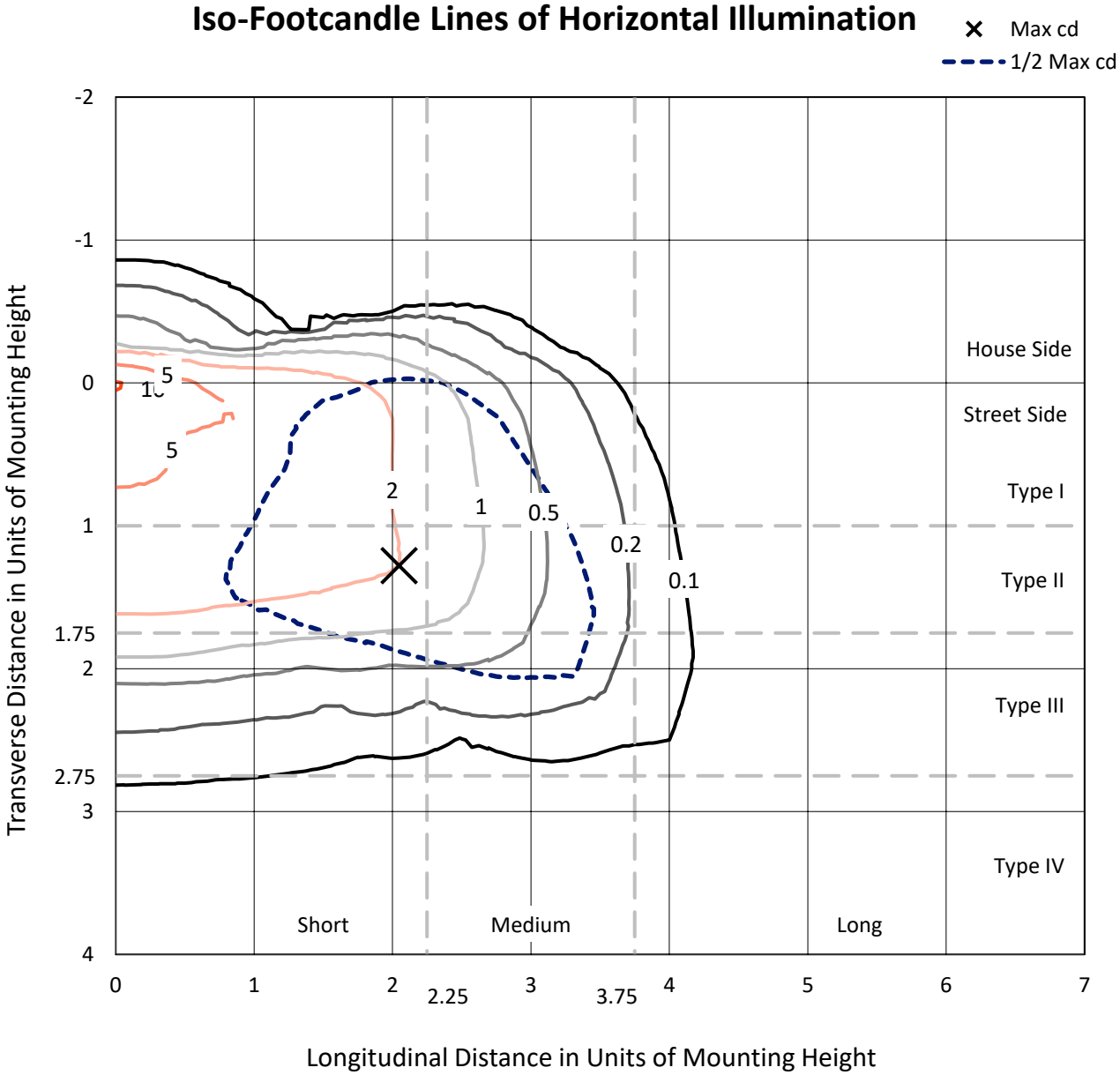
Scaled Data Report

REPORT NUMBER: P643920
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Short - N/A

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REPORT NUMBER: P643920
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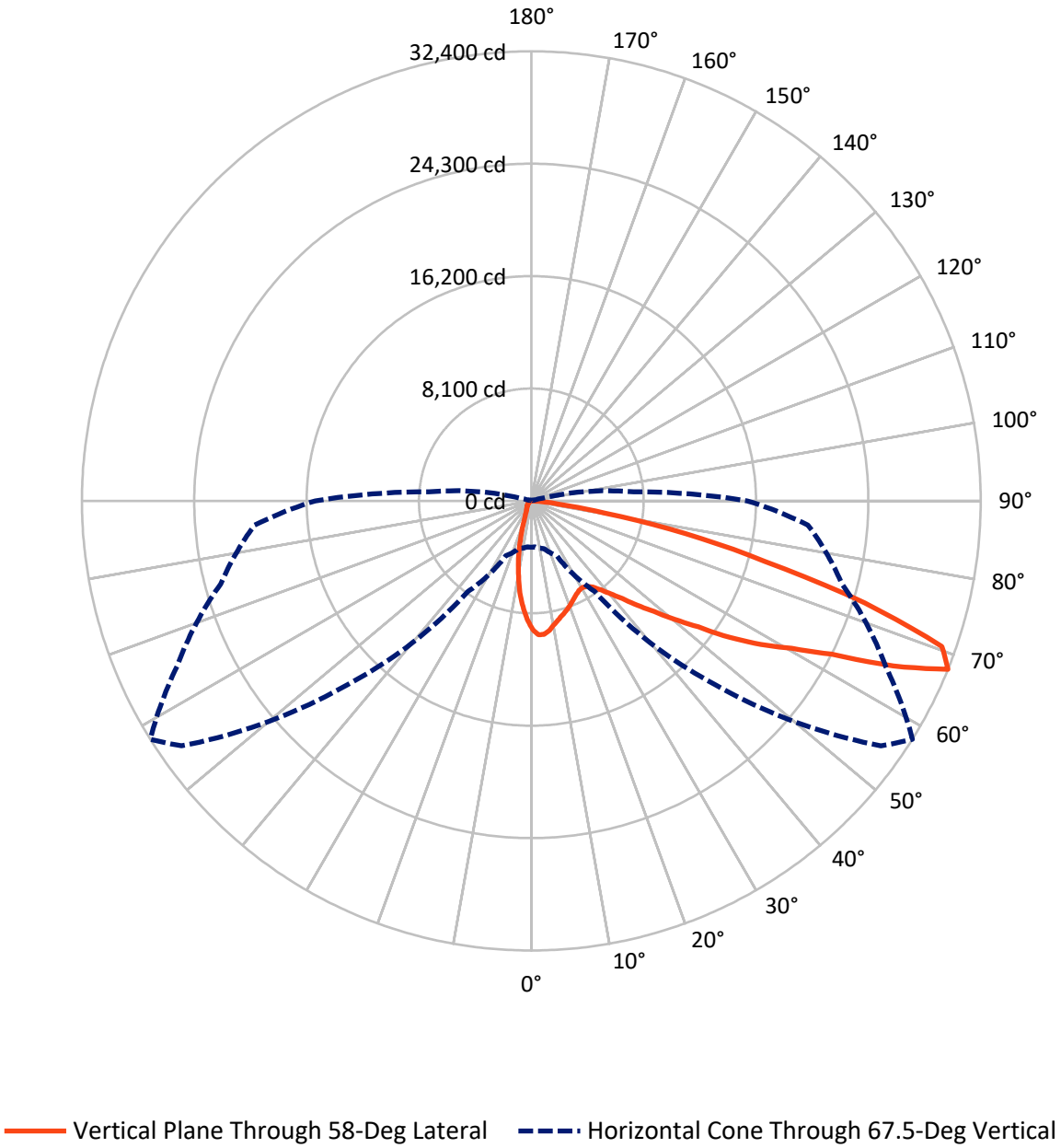
Luminous Intensity Polar Plot



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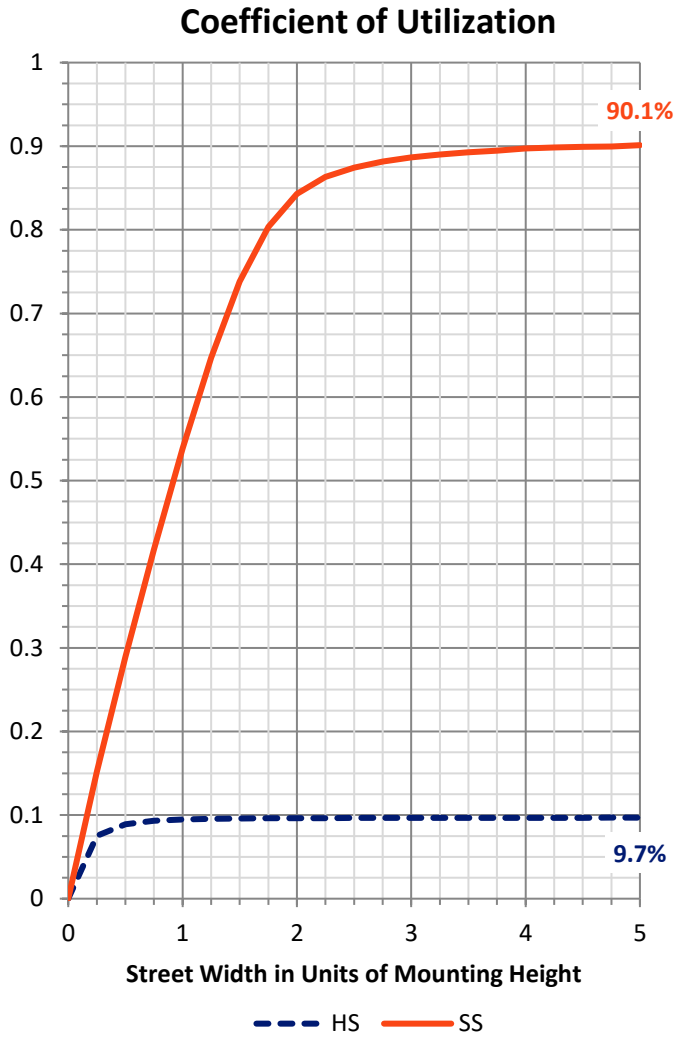
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3128.3	0.0	3128.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	28893.4	0.0	28893.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	32021.7	0.0	32021.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.6	2.3
10°-20°	1562.4	4.9
20°-30°	2107.0	6.6
30°-40°	2960.8	9.2
40°-50°	4572.6	14.3
50°-60°	7312.2	22.8
60°-70°	8658.2	27.0
70°-80°	3830.2	12.0
80°-90°	267.8	0.8
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°	32021.7	100.0
0°-180°	32021.7	100.0



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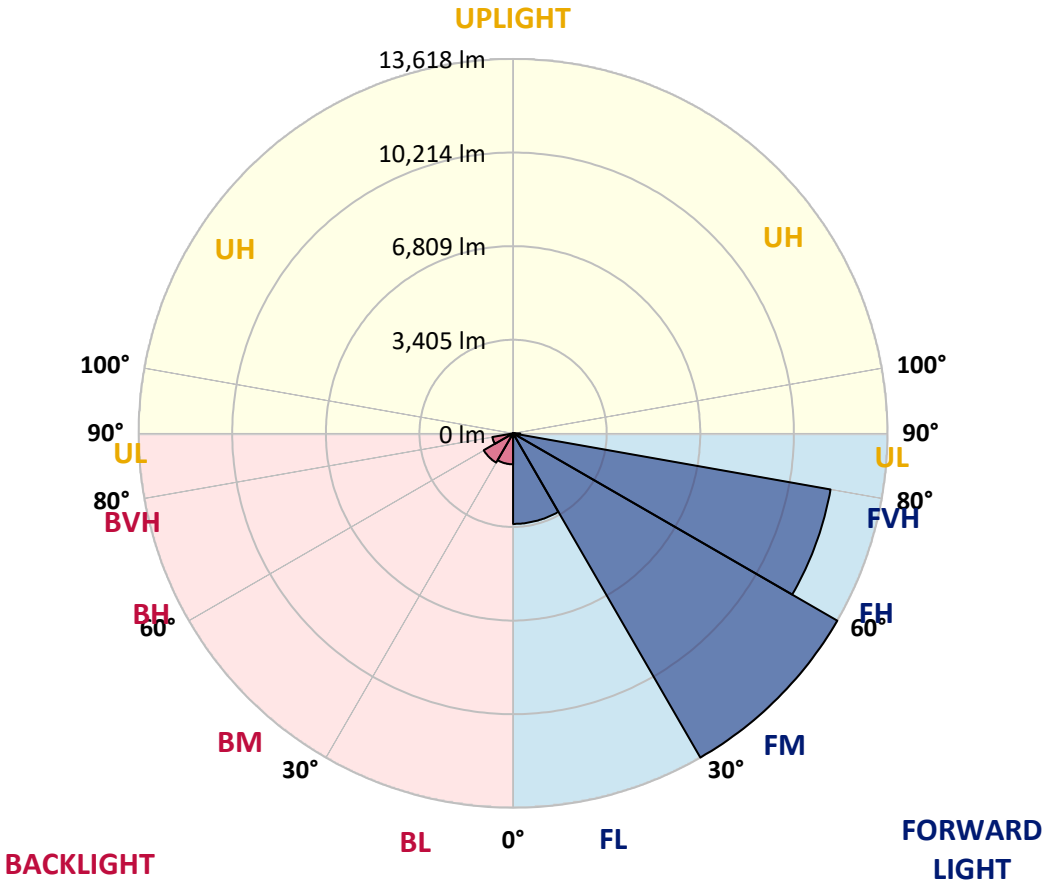
REPORT NUMBER: P643920
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3294.2	10.3			
FM	(30°-60°)	13618.2	42.5			
FH	(60°-80°)	11724.7	36.6			G4/12000
FVH	(80°-90°)	256.4	0.8			G3/500
BL	(0°-30°)	1125.7	3.5	B3/2500		
BM	(30°-60°)	1227.4	3.8	B2/2500		
BH	(60°-80°)	763.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.0			G1/100
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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Scaled Data Report

REPORT NUMBER: P643920
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6
2.5°	9715.5	9732.5	9755.2	9783.6	9777.9	9752.4	9721.2	9650.4	9605.0	9463.3	9290.4
5°	9403.8	9400.9	9457.6	9511.5	9607.8	9658.9	9729.7	9664.5	9641.8	9471.8	9191.2
7.5°	8794.4	8825.6	8890.8	8975.8	9114.7	9264.9	9435.0	9415.1	9483.1	9369.8	9021.2
10°	8196.4	8179.4	8281.4	8409.0	8621.5	8814.3	9060.8	9058.0	9236.6	9225.2	8828.4
12.5°	7672.1	7669.3	7748.6	7893.2	8142.6	8411.8	8746.2	8754.8	8975.8	9066.5	8664.1
15°	7230.0	7235.6	7312.2	7462.4	7720.3	8049.0	8437.3	8508.2	8757.6	8941.8	8502.5
17.5°	6915.4	6918.2	6963.6	7093.9	7346.2	7697.6	8165.2	8261.6	8581.9	8848.3	8372.1
20°	6770.8	6759.5	6768.0	6833.2	7028.7	7349.0	7887.5	8012.2	8420.3	8783.1	8253.1
22.5°	6790.7	6773.7	6734.0	6725.5	6813.3	7057.1	7592.7	7745.8	8244.6	8743.4	8145.4
25°	6966.4	6929.5	6872.9	6787.8	6753.8	6875.7	7334.8	7493.5	8080.2	8746.2	8063.2
27.5°	7235.6	7196.0	7125.1	7011.7	6878.5	6827.5	7159.1	7309.3	7964.0	8811.4	8023.5
30°	7578.6	7547.4	7479.4	7343.3	7164.8	6955.1	7122.3	7247.0	7907.3	8944.6	8040.5
32.5°	7983.9	7961.2	7904.5	7779.8	7575.7	7255.5	7247.0	7343.3	7952.7	9137.4	8105.7
35°	8375.0	8383.5	8386.3	8318.3	8100.1	7711.8	7589.9	7623.9	8139.7	9426.5	8253.1
37.5°	8797.3	8777.4	8879.5	8927.6	8717.9	8304.1	8119.9	8122.7	8496.8	9854.4	8530.9
40°	9117.5	9123.2	9344.3	9542.7	9454.8	9055.2	8791.6	8788.8	9046.7	10441.1	8978.7
42.5°	9417.9	9454.8	9780.7	10120.8	10242.7	9888.4	9698.5	9627.7	9817.6	11234.7	9650.4
45°	9738.2	9792.1	10248.4	10733.0	11053.3	10843.5	10693.3	10721.7	10744.3	12158.6	10554.5
47.5°	10112.3	10146.3	10710.3	11393.4	11991.4	11937.5	11946.0	11912.0	11900.7	13323.4	11750.5
50°	10565.8	10645.1	11294.2	12110.4	12926.7	13283.8	13402.8	13417.0	13232.7	14593.1	12989.0
52.5°	11529.4	11625.8	12181.3	12895.5	13947.0	14698.0	15182.7	15086.3	14802.9	15823.2	14346.6
55°	12665.9	12739.6	13275.3	14015.0	15194.0	16248.3	17399.0	17359.3	16664.9	17118.4	15463.2
57.5°	12773.6	12855.8	13686.2	14819.9	16795.3	18164.2	19374.4	19501.9	18484.5	18036.7	16460.9
60°	11563.4	11730.6	12864.3	14389.1	17407.5	20740.5	21539.7	21565.2	19819.4	18969.1	17679.6
62.5°	9267.7	9347.1	10489.3	12478.9	16463.7	22242.6	24847.2	24308.7	21534.0	20411.7	19609.6
65°	4857.8	5180.9	6175.7	8377.8	13351.8	21718.2	28826.3	28679.0	24617.6	22477.8	21111.7
67.5°	3333.0	3330.2	3565.4	4367.5	7961.2	18699.9	30779.1	32400.2	28183.0	23186.3	20023.4
70°	2536.6	2545.1	2754.8	3276.3	4123.7	12447.7	28636.5	31408.3	28846.2	21052.2	16194.4
72.5°	1683.5	1700.5	2049.1	2647.1	3293.3	6102.0	22253.9	25130.6	24271.8	16908.7	11399.0
75°	1006.1	1020.3	1269.7	1924.4	2927.7	3415.2	14139.7	17373.5	16707.4	11654.1	6110.5
77.5°	413.8	425.1	651.9	1198.9	2142.6	2652.8	7819.5	11367.9	10007.5	4633.9	1669.3
80°	172.9	178.6	314.6	838.9	1544.6	1663.7	3622.1	5342.4	4101.0	997.6	510.2
82.5°	62.4	65.2	116.2	462.0	960.8	1252.7	1828.0	2111.5	1156.3	325.9	274.9
85°	2.8	2.8	28.3	155.9	365.6	354.3	1045.8	1011.8	382.6	136.0	164.4
87.5°	0.0	0.0	2.8	2.8	5.7	14.2	99.2	175.7	82.2	34.0	70.9
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: P643920
CATALOG NUMBER: GWS-SA6F-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6	9236.6
2.5°	9177.0	9026.8	8862.5	8709.4	8465.7	8321.1	8142.6	8063.2	7949.8	7921.5	7938.5
5°	8990.0	8732.1	8338.1	7981.0	7519.1	7147.8	6773.7	6615.0	6410.9	6274.9	6218.2
7.5°	8726.4	8389.1	7774.1	7125.1	6490.3	5812.9	5297.1	4957.0	4648.0	4478.0	4444.0
10°	8460.0	8020.7	7139.3	6209.7	5226.2	4415.6	3718.4	3202.6	2783.2	2593.3	2445.9
12.5°	8185.1	7638.1	6493.1	5280.1	4137.9	3032.6	2171.0	1669.3	1368.9	1249.9	1269.7
15°	7932.8	7269.6	5852.6	4350.5	2913.5	1830.9	1198.9	1011.8	940.9	918.3	915.4
17.5°	7691.9	6921.0	5214.9	3446.4	1921.6	1122.3	918.3	872.9	853.1	841.7	841.7
20°	7473.7	6586.6	4591.4	2596.1	1241.4	889.9	830.4	807.7	790.7	782.2	782.2
22.5°	7269.6	6263.5	3982.0	1836.5	915.4	799.2	762.4	739.7	719.9	708.5	708.5
25°	7085.4	5971.6	3401.0	1264.0	787.9	731.2	691.5	666.0	632.0	612.2	612.2
27.5°	6952.2	5710.9	2842.7	921.1	711.4	657.5	612.2	578.2	541.3	518.7	513.0
30°	6872.9	5489.8	2278.7	756.7	640.5	586.7	535.7	493.1	450.6	428.0	425.1
32.5°	6827.5	5285.7	1762.9	660.4	581.0	518.7	462.0	416.6	374.1	348.6	345.8
35°	6844.5	5127.0	1320.7	595.2	524.3	459.1	396.8	351.4	314.6	291.9	286.3
37.5°	6991.9	5056.2	992.0	544.2	476.1	408.1	342.9	300.4	266.4	249.4	246.6
40°	7278.1	5070.3	779.4	504.5	436.5	357.1	294.8	255.1	229.6	215.4	212.6
42.5°	7723.1	5189.4	643.4	470.5	393.9	311.8	255.1	223.9	198.4	184.2	181.4
45°	8386.3	5435.9	561.2	430.8	348.6	269.2	221.1	192.7	170.1	153.0	150.2
47.5°	9347.1	5863.9	507.3	393.9	308.9	232.4	189.9	161.5	141.7	127.5	124.7
50°	10370.2	6376.9	462.0	357.1	274.9	201.2	161.5	133.2	116.2	102.0	99.2
52.5°	11461.4	6929.5	428.0	323.1	243.7	172.9	136.0	110.5	93.5	79.4	76.5
55°	12510.0	7485.0	388.3	300.4	206.9	147.4	113.4	90.7	73.7	62.4	62.4
57.5°	13530.3	7995.2	345.8	263.6	170.1	124.7	93.5	73.7	59.5	51.0	48.2
60°	14749.0	8700.9	297.6	223.9	141.7	104.9	76.5	59.5	48.2	39.7	39.7
62.5°	16560.1	9435.0	255.1	187.1	119.0	87.9	62.4	48.2	39.7	34.0	31.2
65°	17152.4	9038.2	215.4	153.0	96.4	70.9	51.0	42.5	34.0	31.2	28.3
67.5°	*15570.9*	*7408.5*	*178.6*	*124.7*	*79.4*	*59.5*	*45.3*	*36.8*	*31.2*	*28.3*	*25.5*
70°	12150.1	5257.4	138.9	93.5	65.2	48.2	39.7	34.0	28.3	25.5	25.5
72.5°	8264.4	3109.1	110.5	70.9	53.8	42.5	34.0	31.2	28.3	25.5	22.7
75°	4069.9	1105.3	85.0	53.8	42.5	36.8	31.2	28.3	25.5	22.7	22.7
77.5°	1096.8	306.1	65.2	42.5	34.0	28.3	28.3	28.3	25.5	19.8	19.8
80°	371.3	127.5	48.2	31.2	28.3	22.7	19.8	25.5	22.7	19.8	17.0
82.5°	204.1	62.4	34.0	25.5	19.8	17.0	17.0	17.0	17.0	14.2	14.2
85°	130.4	34.0	22.7	19.8	19.8	14.2	11.3	11.3	8.5	8.5	8.5
87.5°	59.5	19.8	19.8	17.0	17.0	14.2	8.5	5.7	2.8	2.8	2.8
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

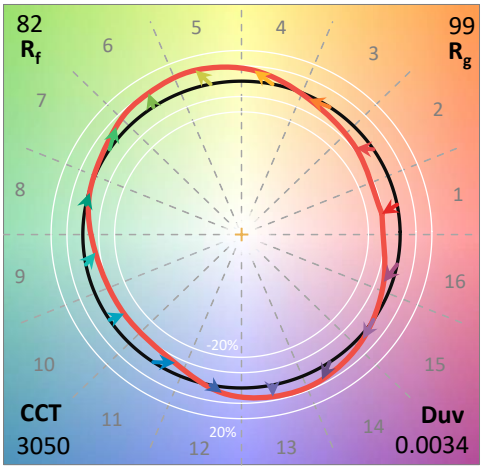
Test Information

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

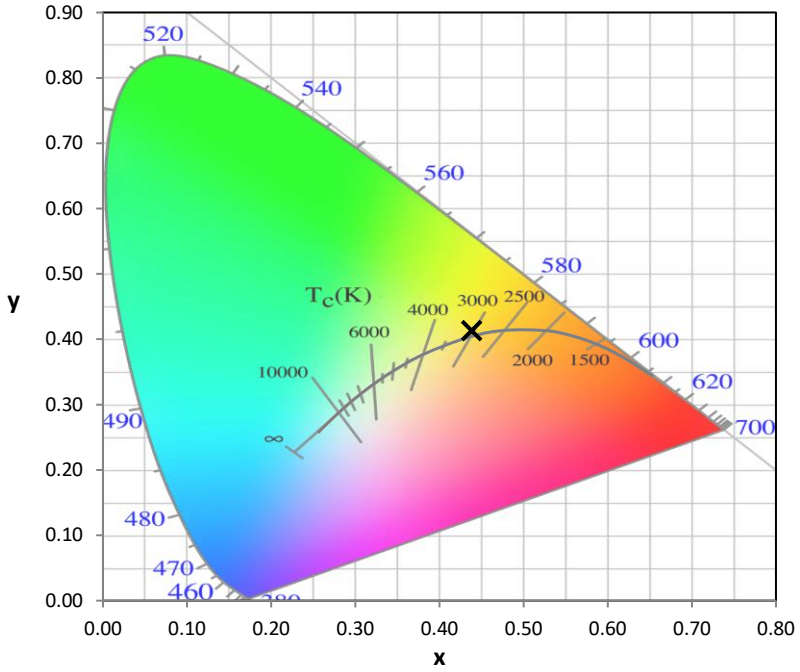
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

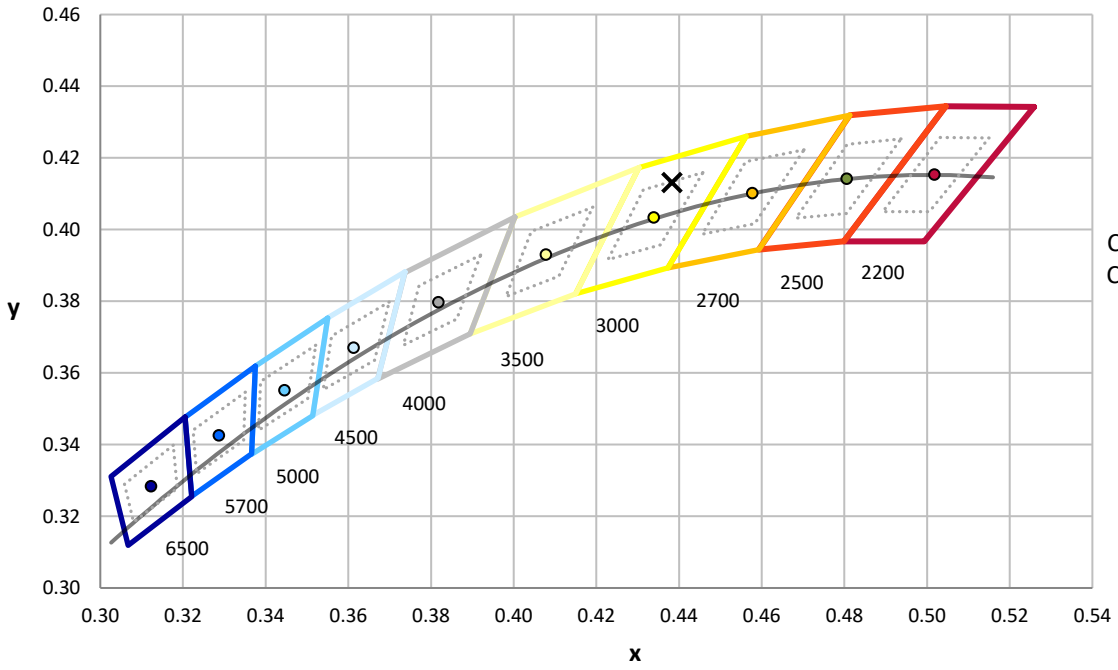
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

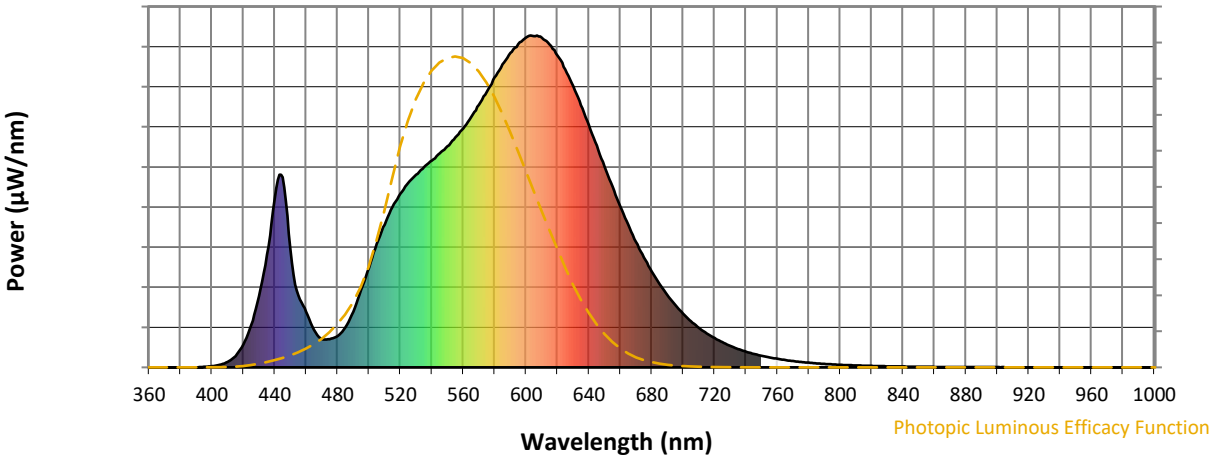


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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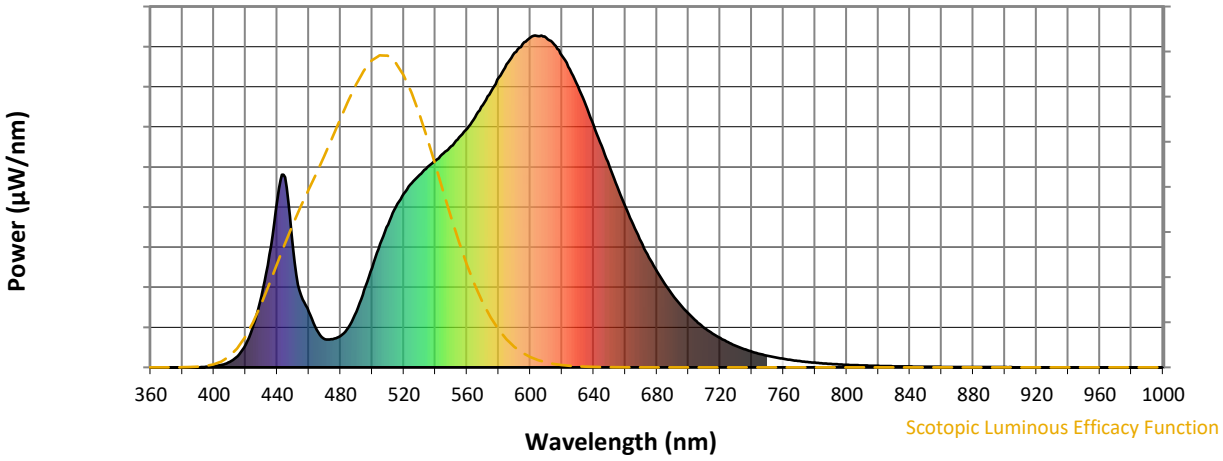
Scotopic Flux vs. Wavelength



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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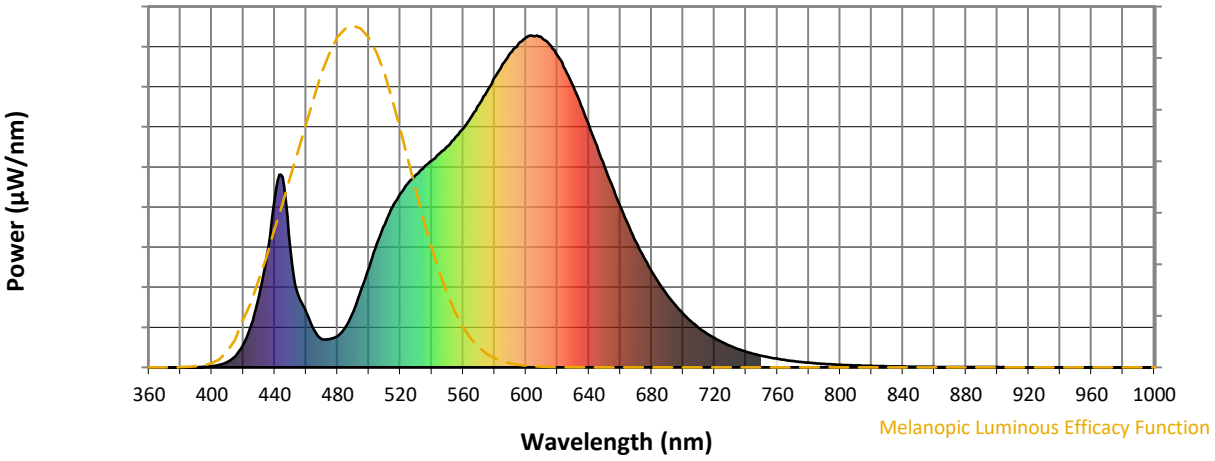
Melanopic Flux vs. Wavelength



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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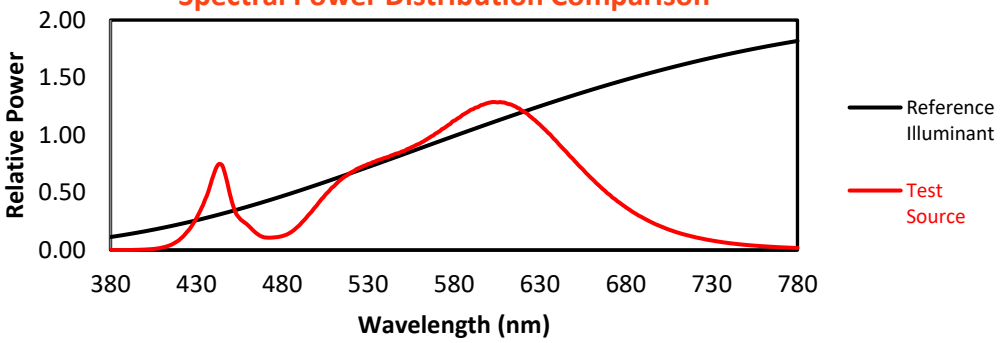
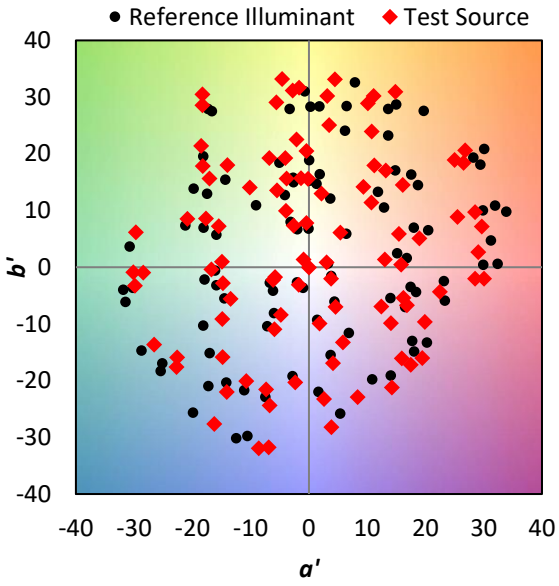
Summary

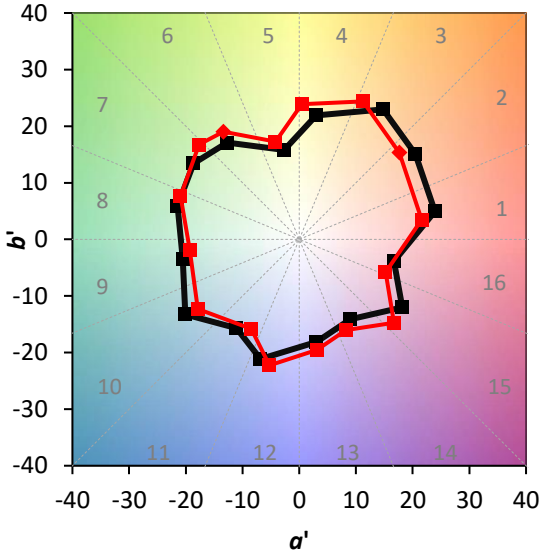
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

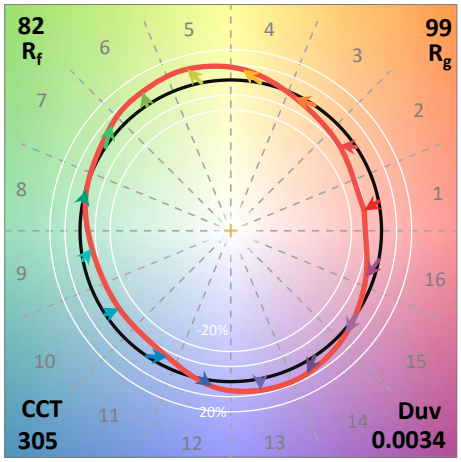
Spectral Power Distribution Comparison

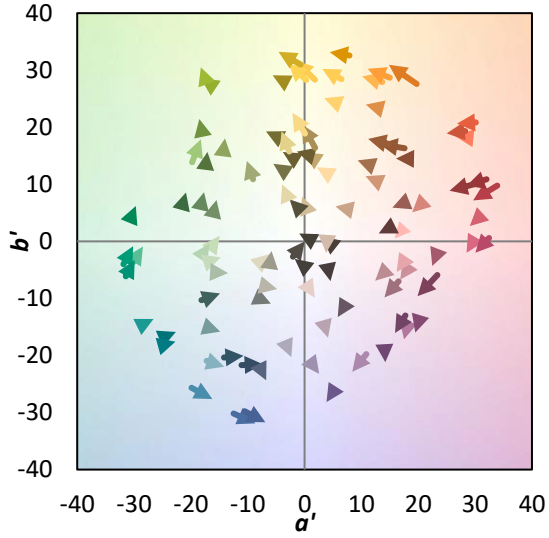


Color Vector Graphics









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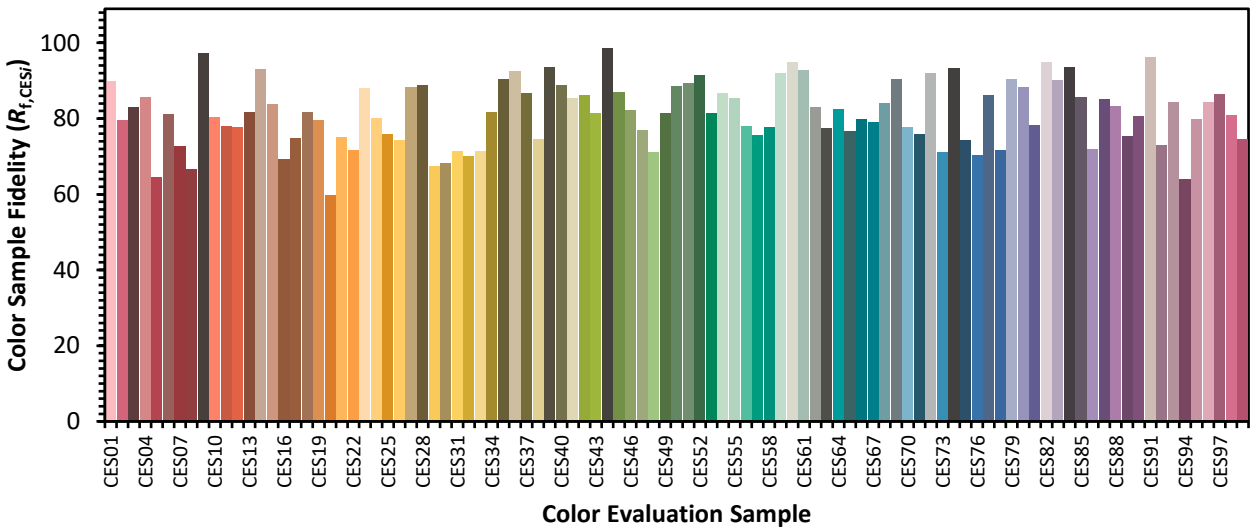
Individual Sample Fidelity Index ($R_{f,i}$)

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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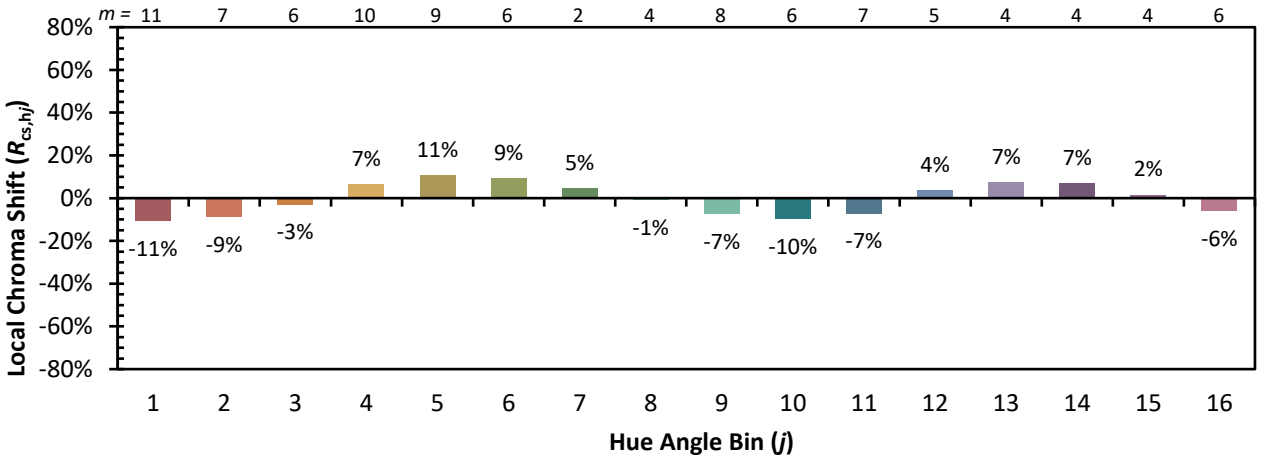
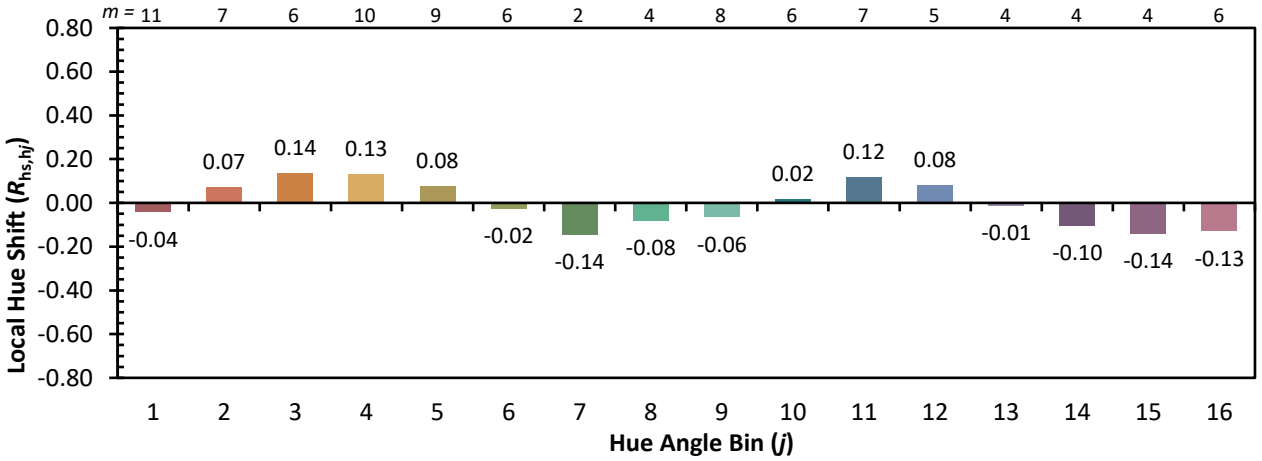
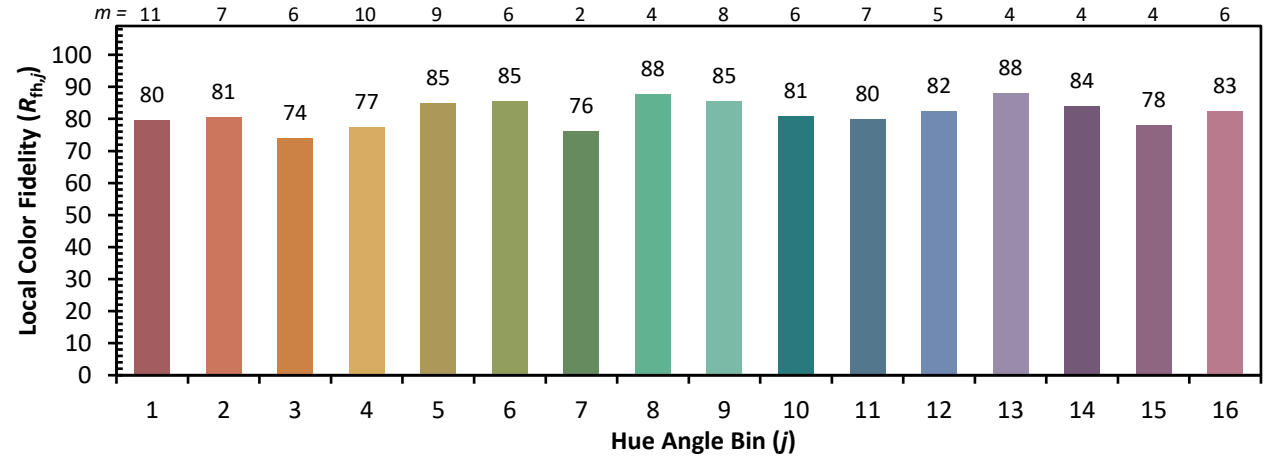
Color Rendition by Hue-Angle Bin







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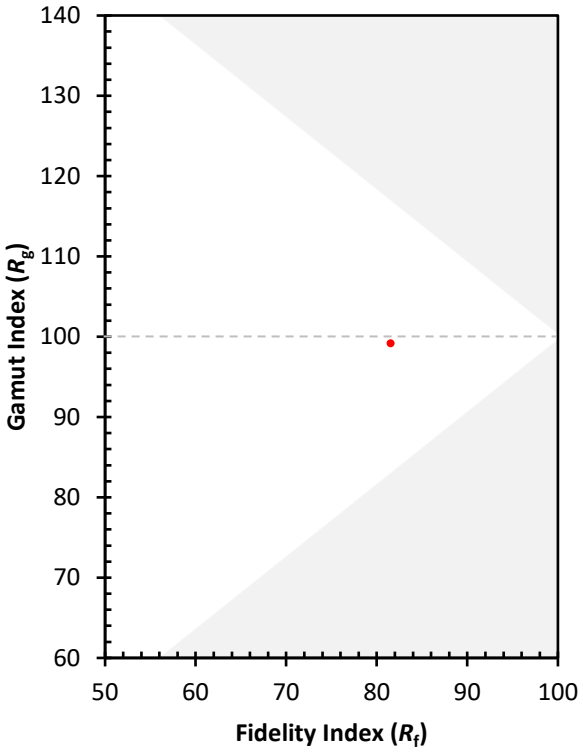
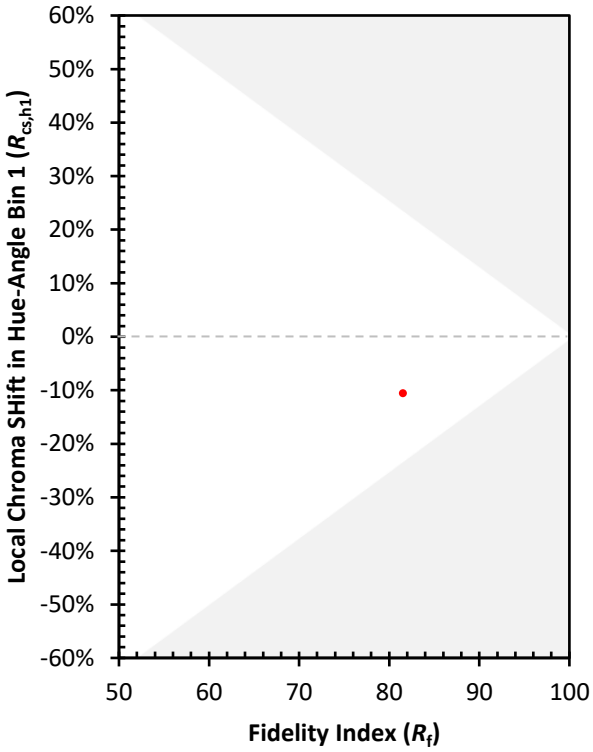
Measure Comparisons





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