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: P643922

Luminaire Tested: GWS-SA6F-830-U-SL4-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:	P643922
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-SL4-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV 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:	31151.5 lumens
Efficiency:	N/A
Efficacy:	83.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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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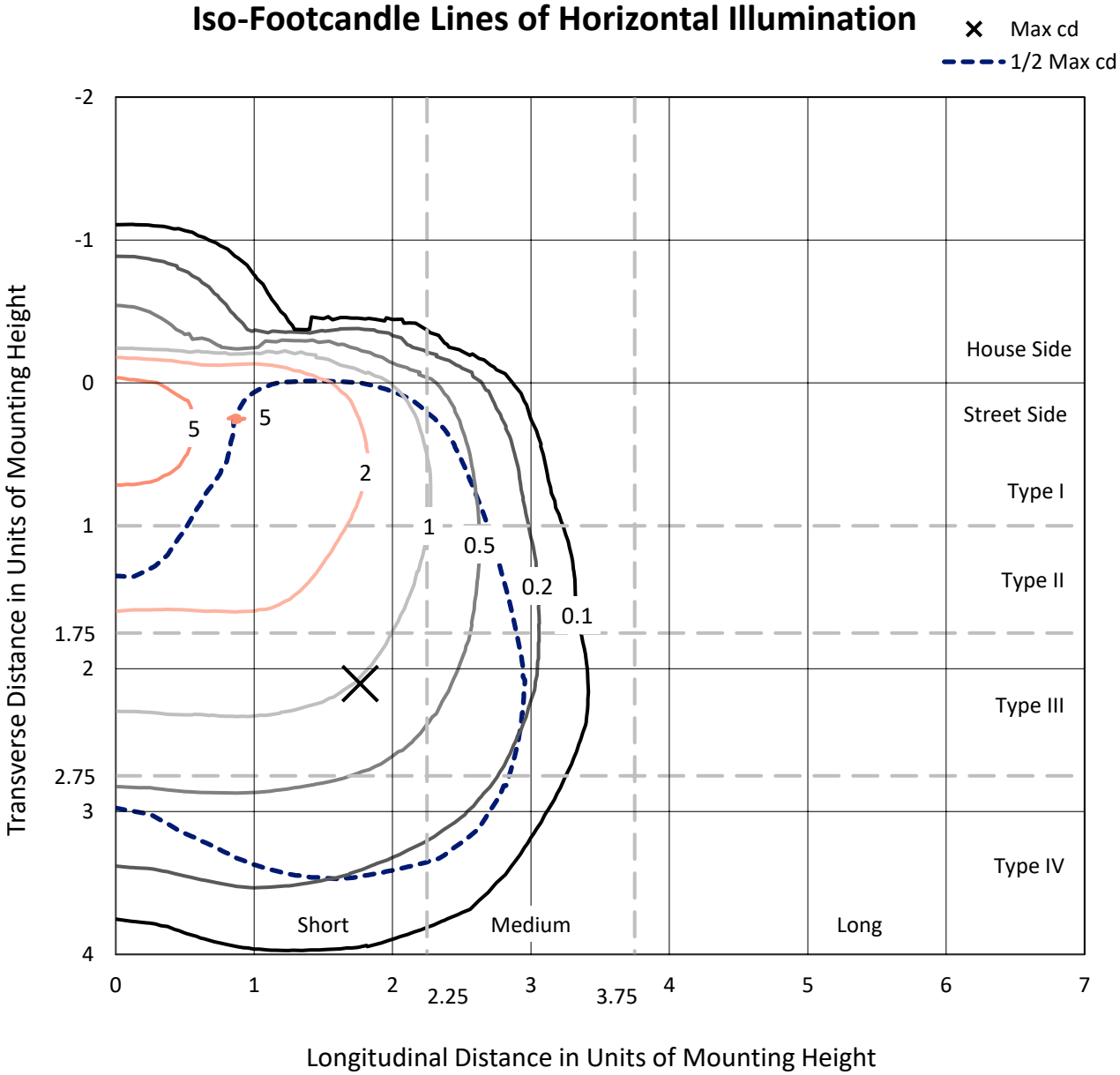
Scaled Data Report

REPORT NUMBER: P643922
CATALOG NUMBER: GWS-SA6F-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
Type IV - Short - N/A

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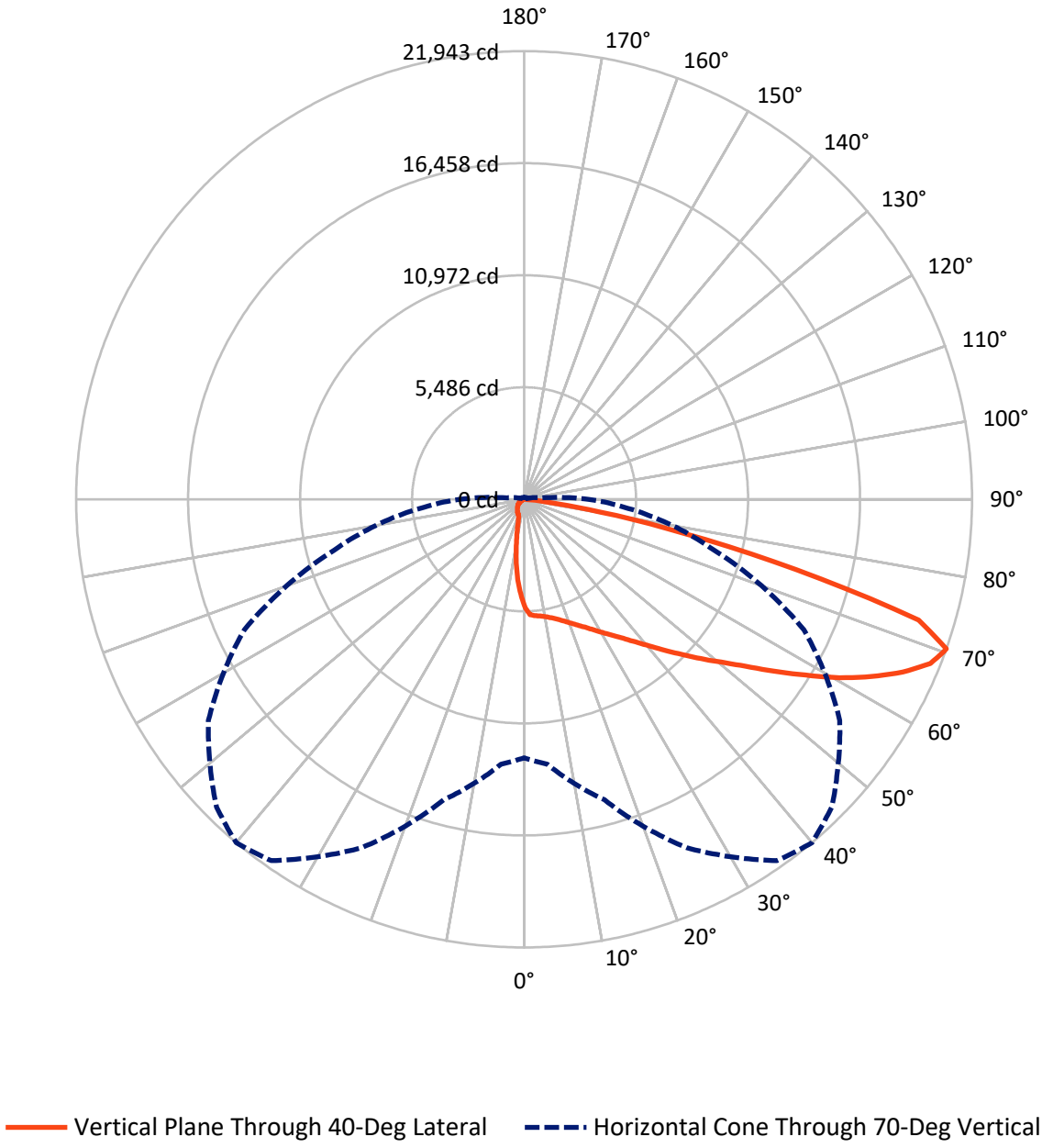
Luminous Intensity Polar Plot



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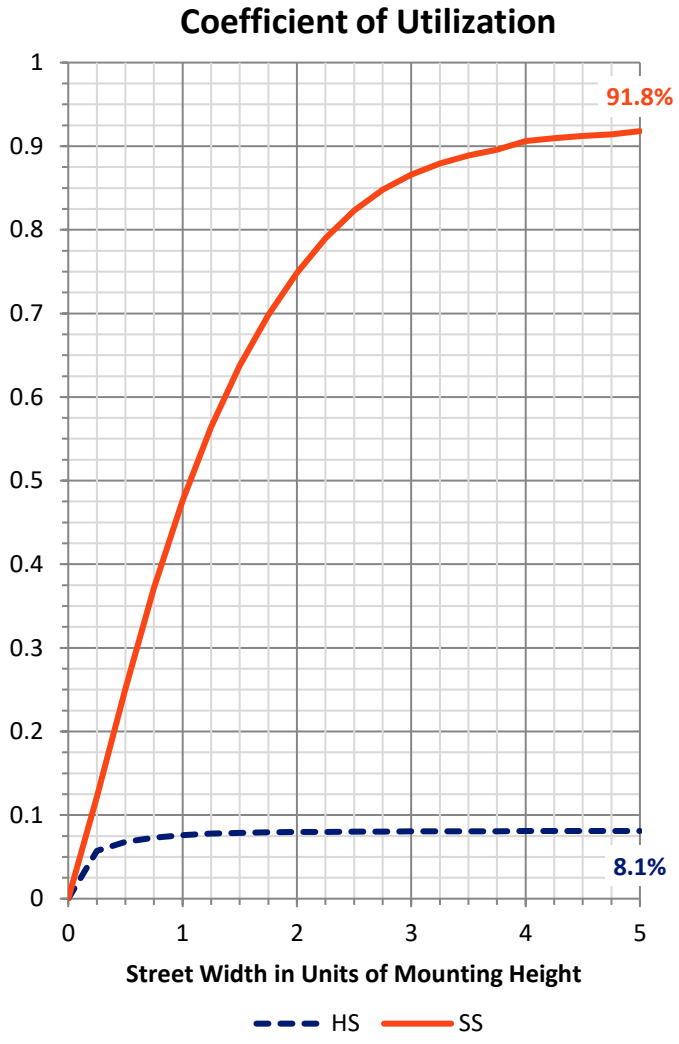
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2547.4	0.0	2547.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	28604.1	0.0	28604.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	31151.5	0.0	31151.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	1.4
10°-20°	1133.1	3.6
20°-30°	1896.5	6.1
30°-40°	2978.7	9.6
40°-50°	4711.5	15.1
50°-60°	6872.9	22.1
60°-70°	8520.0	27.4
70°-80°	4310.6	13.8
80°-90°	281.4	0.9
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°	31151.5	100.0
0°-180°	31151.5	100.0



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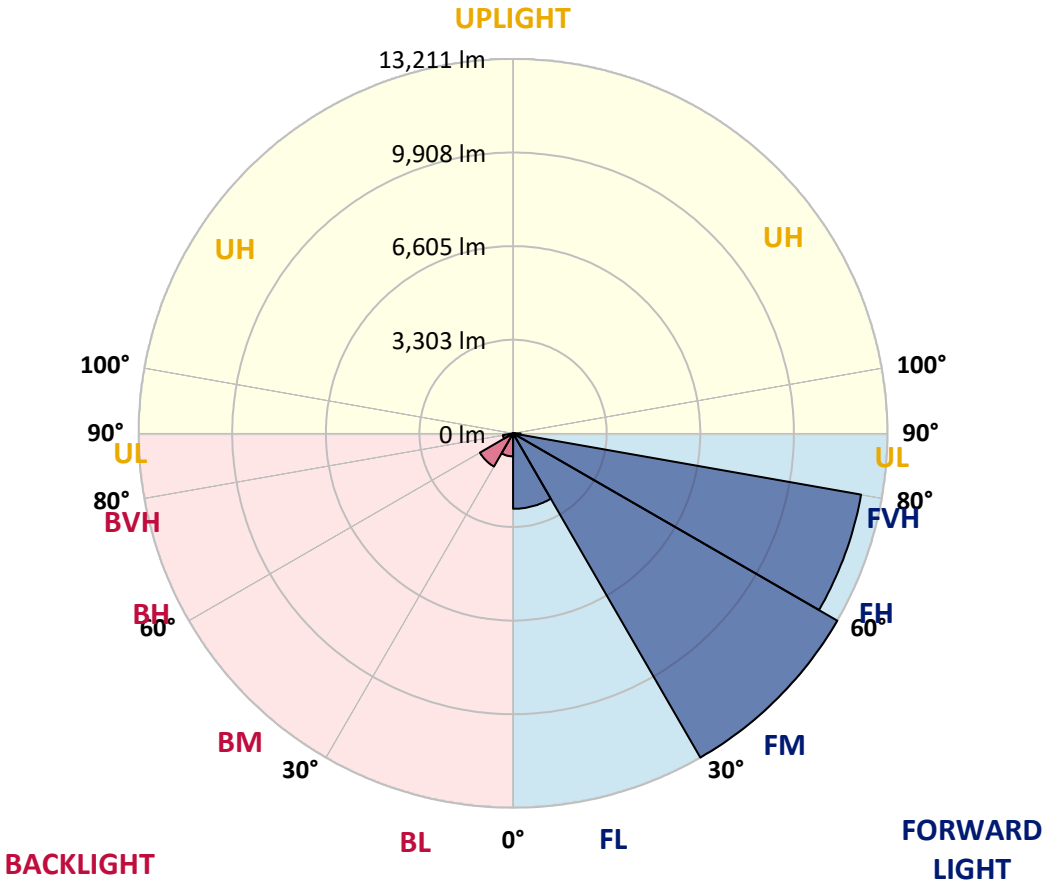
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2662.9	8.5			
FM	(30°-60°)	13211.0	42.4			
FH	(60°-80°)	12467.4	40.0			G5
FVH	(80°-90°)	262.8	0.8			G3/500
BL	(0°-30°)	813.5	2.6	B2/1000		
BM	(30°-60°)	1352.1	4.3	B2/2500		
BH	(60°-80°)	363.2	1.2	B1/500		G1/500
BVH	(80°-90°)	18.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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Scaled Data Report

REPORT NUMBER: P643922
CATALOG NUMBER: GWS-SA6F-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0
2.5°	5682.8	5702.7	5699.8	5708.4	5688.5	5657.3	5651.7	5609.2	5532.6	5436.3	5328.6
5°	5799.1	5821.7	5804.7	5796.2	5759.4	5725.4	5716.9	5671.5	5583.6	5453.3	5266.2
7.5°	5898.3	5903.9	5892.6	5872.7	5818.9	5773.5	5742.4	5680.0	5575.1	5444.8	5229.3
10°	5915.3	5912.4	5918.1	5920.9	5886.9	5847.2	5821.7	5736.7	5603.5	5464.6	5232.2
12.5°	5895.4	5895.4	5932.3	5974.8	5974.8	5954.9	5929.4	5852.9	5697.0	5532.6	5288.9
15°	5920.9	5929.4	6000.3	6079.7	6105.2	6085.3	6074.0	5994.6	5833.1	5651.7	5390.9
17.5°	6011.6	6020.1	6133.5	6252.5	6283.7	6261.0	6238.4	6159.0	5986.1	5787.7	5507.1
20°	6144.8	6167.5	6312.1	6465.1	6493.5	6465.1	6419.8	6309.2	6136.3	5935.1	5617.7
22.5°	6388.6	6402.8	6558.7	6720.2	6734.4	6689.0	6621.0	6468.0	6286.6	6091.0	5742.4
25°	6711.7	6731.5	6887.4	7043.3	7006.5	6938.5	6844.9	6672.0	6465.1	6275.2	5901.1
27.5°	7097.2	7119.9	7272.9	7409.0	7312.6	7233.2	7128.4	6912.9	6703.2	6530.3	6105.2
30°	7513.8	7533.7	7669.7	7791.6	7664.0	7570.5	7445.8	7224.7	7012.1	6881.8	6394.3
32.5°	7916.3	7913.5	8043.8	8143.0	8012.7	7939.0	7825.6	7601.7	7431.6	7374.9	6825.1
35°	8290.4	8290.4	8398.1	8497.3	8403.8	8364.1	8259.3	8080.7	7984.3	8052.3	7400.5
37.5°	8667.4	8647.6	8749.6	8860.1	8851.6	8854.5	8794.9	8709.9	8715.6	8956.5	8191.2
40°	8979.2	8970.7	9089.7	9234.3	9347.6	9438.3	9401.5	9432.7	9611.2	10061.9	9203.1
42.5°	9228.6	9248.4	9401.5	9631.1	9917.3	10101.6	10127.1	10254.6	10713.8	11411.0	10345.3
45°	9514.9	9517.7	9730.3	10081.7	10538.1	10830.0	10932.0	11260.8	11912.7	12811.2	11598.1
47.5°	9866.3	9832.3	10070.4	10563.6	11224.0	11654.8	11836.2	12247.2	13256.2	14177.3	12618.5
50°	10254.6	10192.3	10461.5	11133.3	11992.1	12530.6	12899.1	13499.9	14588.3	15299.7	13378.1
52.5°	10705.3	10645.8	10951.9	11788.0	12913.2	13568.0	14041.3	14647.8	15730.6	16155.7	13831.6
55°	11277.8	11218.3	11541.4	12573.1	14001.6	14851.9	15347.9	15858.1	16793.4	16787.8	14160.3
57.5°	11912.7	11830.5	12278.3	13565.1	15359.3	16243.6	16748.1	16997.5	17601.2	17278.1	14381.4
60°	12641.1	12567.4	13188.2	14747.0	16926.7	17745.8	18063.2	17961.2	18264.5	17567.2	14304.9
62.5°	13298.7	13264.7	14035.6	15999.8	18420.3	19111.9	19199.8	18754.8	18752.0	17572.9	13789.0
65°	13981.8	14047.0	15192.0	17442.5	19922.5	20387.4	20237.2	19542.7	18947.5	16878.5	12264.2
67.5°	14236.9	14426.8	15954.5	18746.3	21107.3	21470.1	21206.5	19936.7	18134.1	14543.0	9339.1
70°	12661.0	13018.1	15234.6	18820.0	21597.6	21943.4	21311.4	18876.7	15118.3	9633.9	5116.0
72.5°	9628.2	10044.9	12695.0	15410.3	19423.7	20211.6	19131.8	15379.1	9744.4	4220.3	1717.6
75°	5388.1	5838.7	9455.3	11603.8	13040.8	13760.7	13363.9	9866.3	4316.7	1102.6	513.0
77.5°	1822.5	1972.7	4398.9	7179.4	8607.9	7961.6	6740.1	4900.6	1587.2	419.5	272.1
80°	1079.9	1136.6	1638.2	3574.1	4529.3	3755.5	2964.7	1811.1	807.8	223.9	189.9
82.5°	323.1	382.6	904.2	1326.5	1774.3	1105.4	935.3	1034.5	419.5	121.9	158.7
85°	0.0	0.0	192.7	411.0	464.8	181.4	181.4	586.7	76.5	51.0	116.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.2	8.5	11.3	25.5
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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Scaled Data Report

REPORT NUMBER: P643922
CATALOG NUMBER: GWS-SA6F-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0
2.5°	5252.0	5152.8	5036.6	4926.1	4821.2	4685.2	4620.0	4540.6	4472.6	4435.7	4455.6
5°	5147.2	4991.3	4753.2	4512.3	4268.5	4038.9	3832.0	3693.1	3568.4	3503.2	3517.4
7.5°	5056.5	4846.7	4475.4	4081.4	3690.3	3296.3	2976.1	2726.6	2533.9	2454.5	2440.4
10°	5016.8	4753.2	4228.8	3662.0	3061.1	2531.1	2077.6	1802.6	1607.1	1510.7	1527.7
12.5°	5036.6	4705.0	4019.1	3251.0	2471.5	1853.7	1420.0	1162.1	1023.2	966.5	952.3
15°	5093.3	4693.7	3832.0	2831.5	1907.5	1295.3	980.7	875.8	847.5	841.8	841.8
17.5°	5158.5	4696.5	3639.3	2406.4	1448.3	960.8	839.0	819.1	810.6	805.0	807.8
20°	5223.7	4696.5	3418.2	1975.5	1088.4	830.5	799.3	785.1	776.6	773.8	773.8
22.5°	5303.0	4696.5	3171.6	1575.9	873.0	787.9	762.4	753.9	745.4	742.6	739.8
25°	5399.4	4699.3	2899.5	1232.9	793.6	751.1	731.3	722.8	714.3	708.6	708.6
27.5°	5538.3	4722.0	2599.1	960.8	748.3	717.1	700.1	691.6	683.1	674.6	674.6
30°	5739.5	4778.7	2261.8	793.6	705.7	680.2	663.2	657.6	649.1	640.6	637.7
32.5°	6040.0	4877.9	1913.2	711.4	666.1	640.6	620.7	615.1	606.5	598.0	595.2
35°	6459.5	5059.3	1573.1	660.4	615.1	589.5	578.2	575.4	564.0	555.5	555.5
37.5°	7074.5	5354.1	1247.1	609.4	572.5	552.7	538.5	532.9	521.5	513.0	510.2
40°	7825.6	5736.7	969.3	569.7	532.9	513.0	498.8	490.3	476.2	464.8	459.2
42.5°	8783.6	6204.4	765.3	527.2	496.0	476.2	464.8	447.8	428.0	411.0	408.1
45°	9781.3	6686.2	632.1	487.5	462.0	445.0	430.8	408.1	379.8	360.0	354.3
47.5°	10546.6	6986.6	552.7	445.0	425.2	411.0	394.0	365.6	331.6	308.9	303.3
50°	11093.6	7032.0	493.2	405.3	394.0	379.8	354.3	320.3	283.4	260.8	255.1
52.5°	11362.9	6827.9	445.0	368.5	360.0	345.8	314.6	277.8	238.1	215.4	209.7
55°	11484.7	6442.4	399.6	337.3	325.9	308.9	274.9	235.2	195.6	175.7	170.1
57.5°	11436.5	5872.7	360.0	306.1	291.9	272.1	235.2	192.7	161.6	141.7	138.9
60°	11079.4	5073.5	320.3	274.9	257.9	235.2	198.4	158.7	130.4	116.2	113.4
62.5°	10308.5	4081.4	280.6	238.1	226.7	204.1	170.1	130.4	107.7	99.2	96.4
65°	8729.8	2885.4	240.9	201.2	195.6	172.9	141.7	107.7	93.5	87.9	85.0
67.5°	6275.2	1754.5	204.1	172.9	167.2	147.4	119.0	93.5	85.0	82.2	82.2
70°	*3154.6*	*830.5*	*161.6*	*141.7*	*141.7*	*121.9*	*102.0*	*85.0*	*82.2*	*79.4*	*79.4*
72.5°	1071.4	354.3	121.9	110.5	116.2	104.9	87.9	79.4	79.4	79.4	79.4
75°	365.6	187.1	85.0	79.4	85.0	85.0	76.5	76.5	79.4	79.4	79.4
77.5°	238.1	124.7	59.5	53.9	65.2	65.2	65.2	70.9	76.5	76.5	76.5
80°	195.6	68.0	39.7	36.8	48.2	48.2	53.9	65.2	70.9	70.9	70.9
82.5°	167.2	42.5	22.7	25.5	34.0	36.8	45.3	53.9	62.4	65.2	65.2
85°	113.4	22.7	17.0	19.8	22.7	28.3	36.8	45.3	51.0	56.7	56.7
87.5°	31.2	8.5	11.3	14.2	14.2	19.8	28.3	34.0	39.7	42.5	42.5
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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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

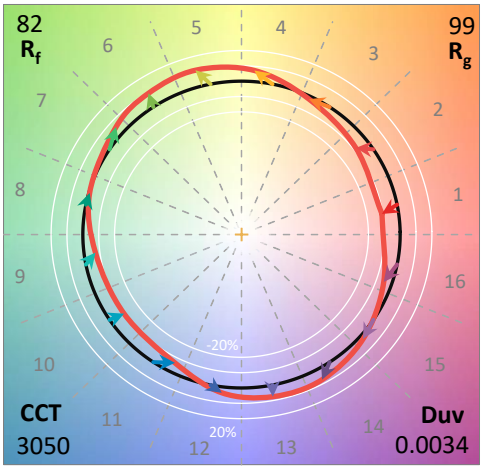
Test Information

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

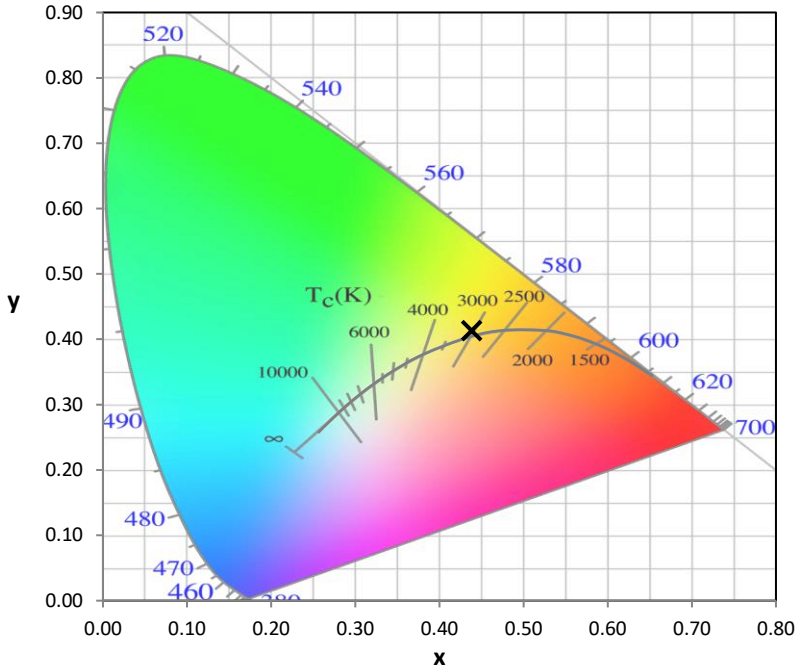
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

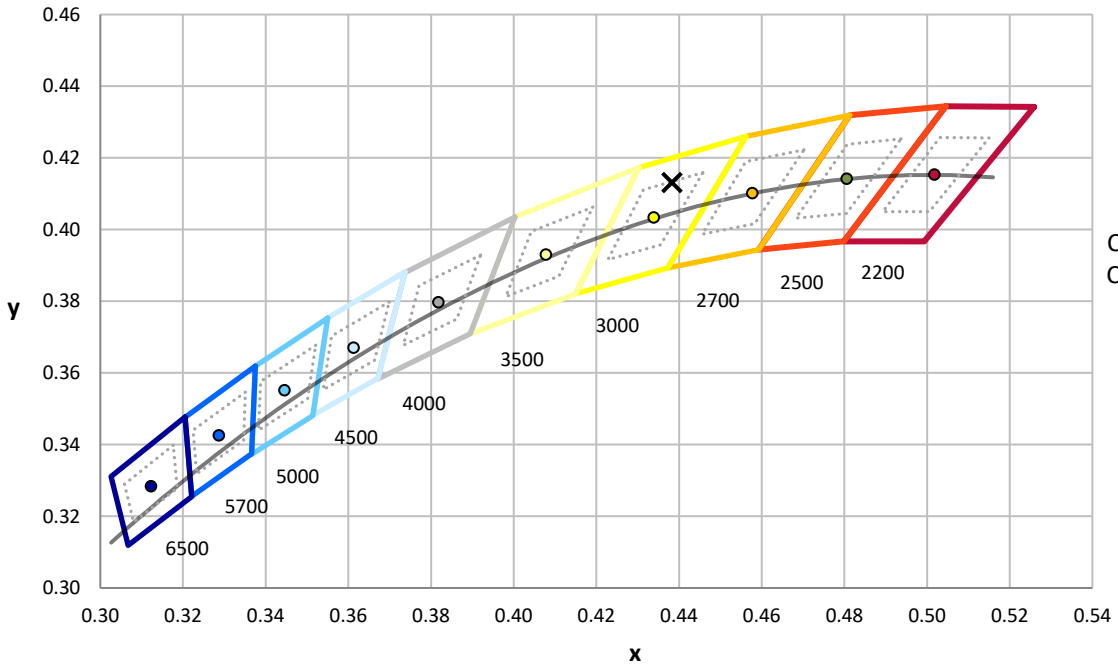
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

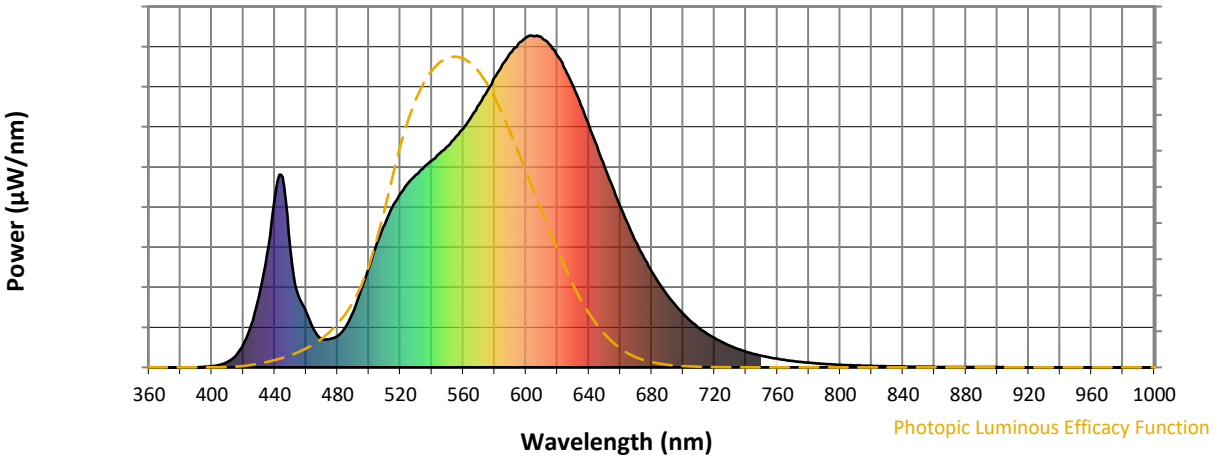


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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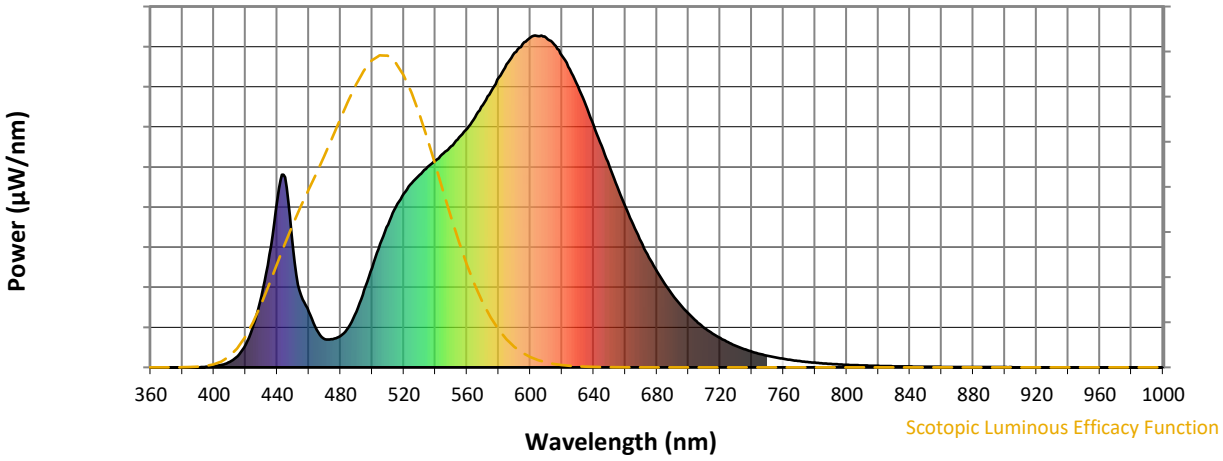
Scotopic Flux vs. Wavelength



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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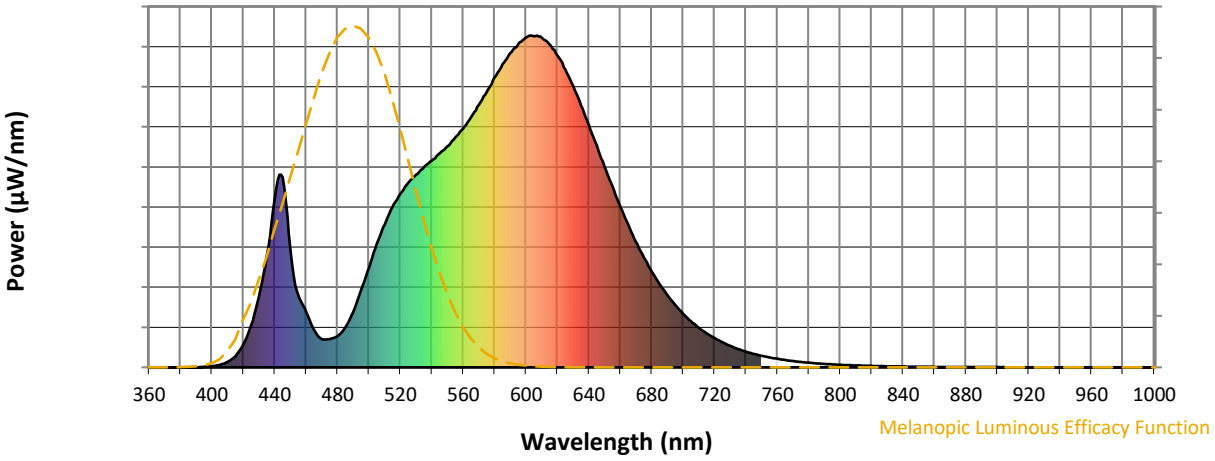
Melanopic Flux vs. Wavelength



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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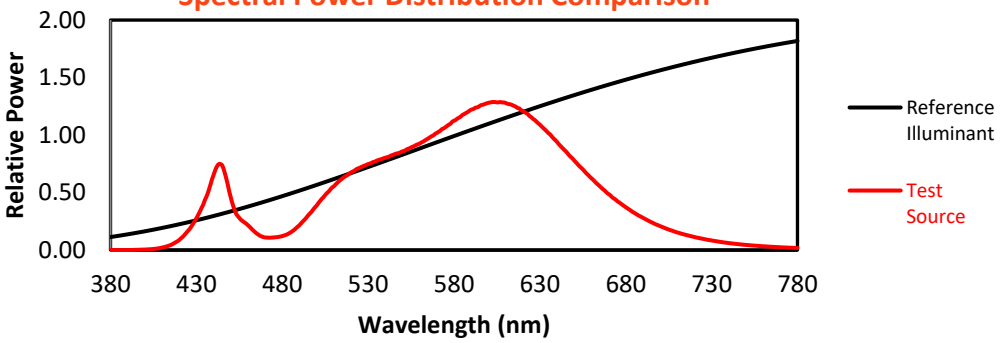
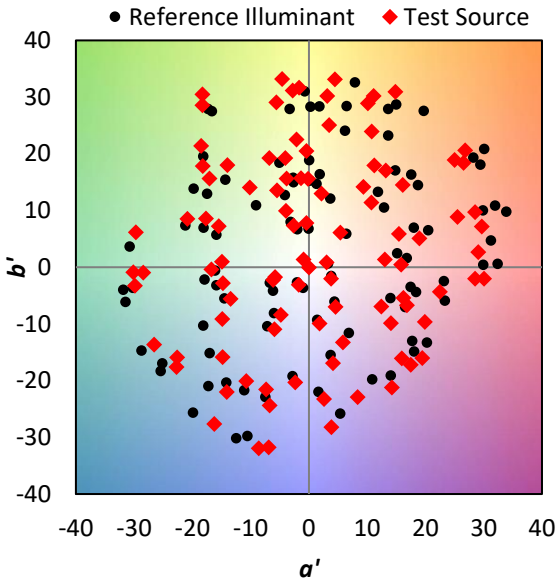
Summary

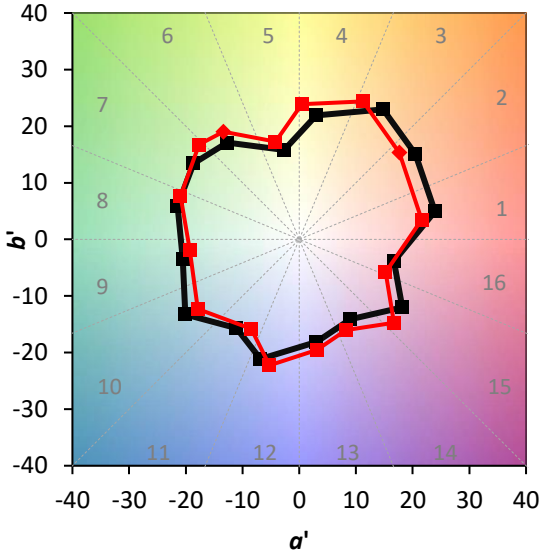
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

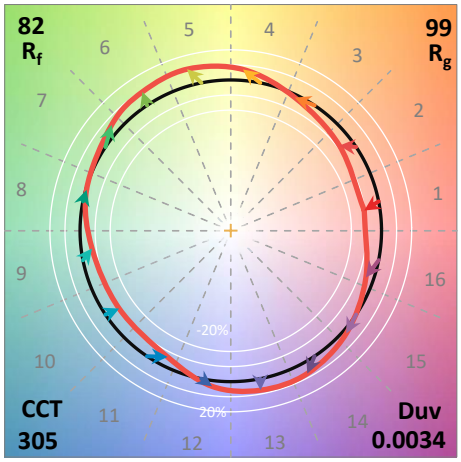
Spectral Power Distribution Comparison

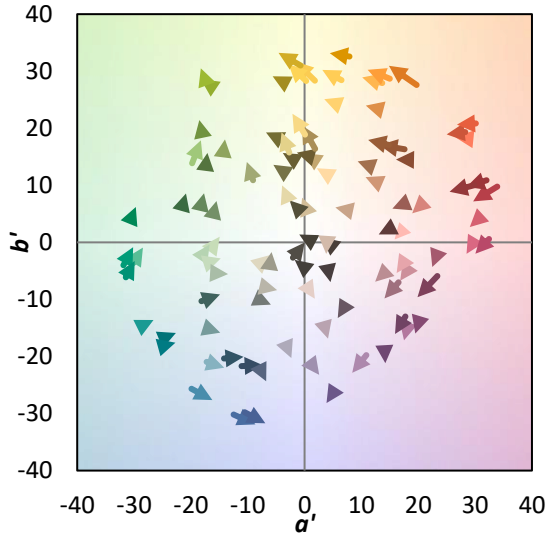


Color Vector Graphics









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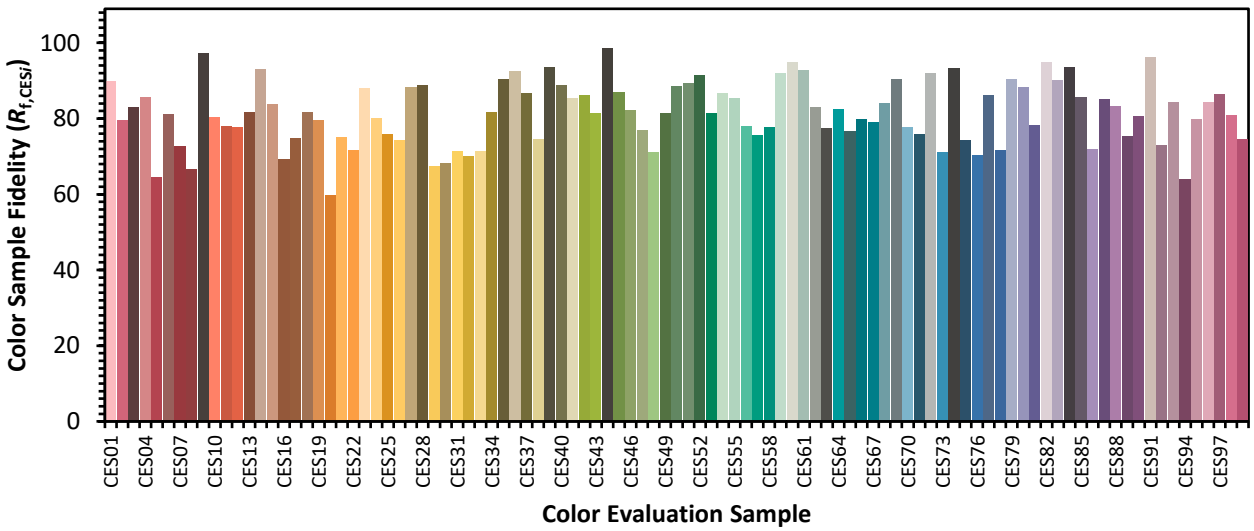
Individual Sample Fidelity Index ($R_{f,i}$)

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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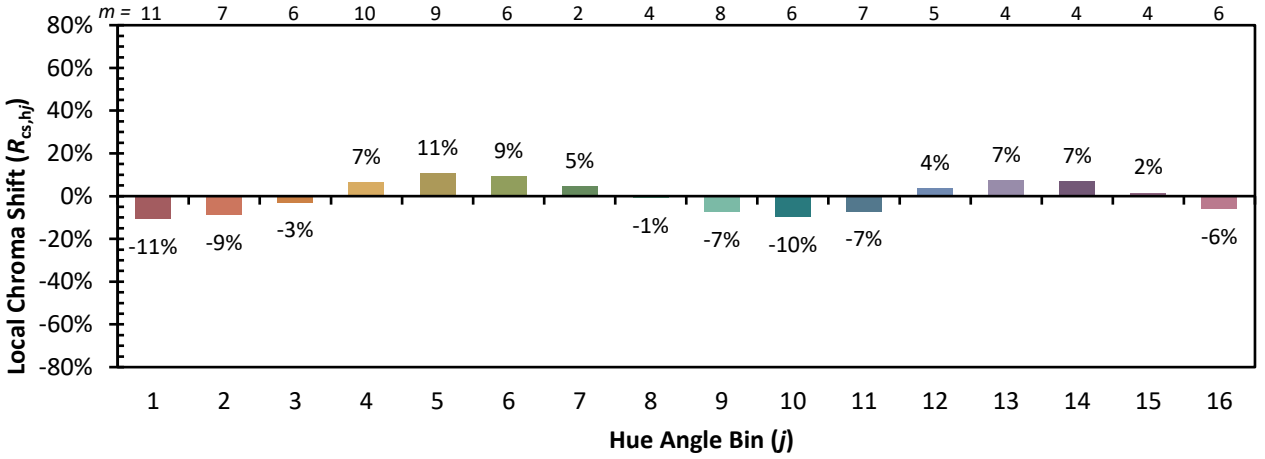
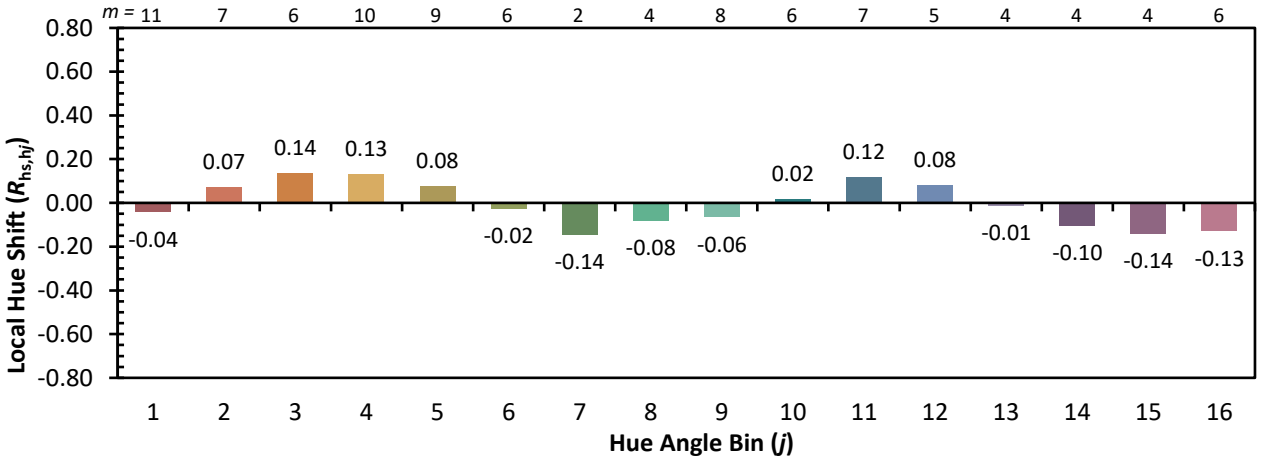
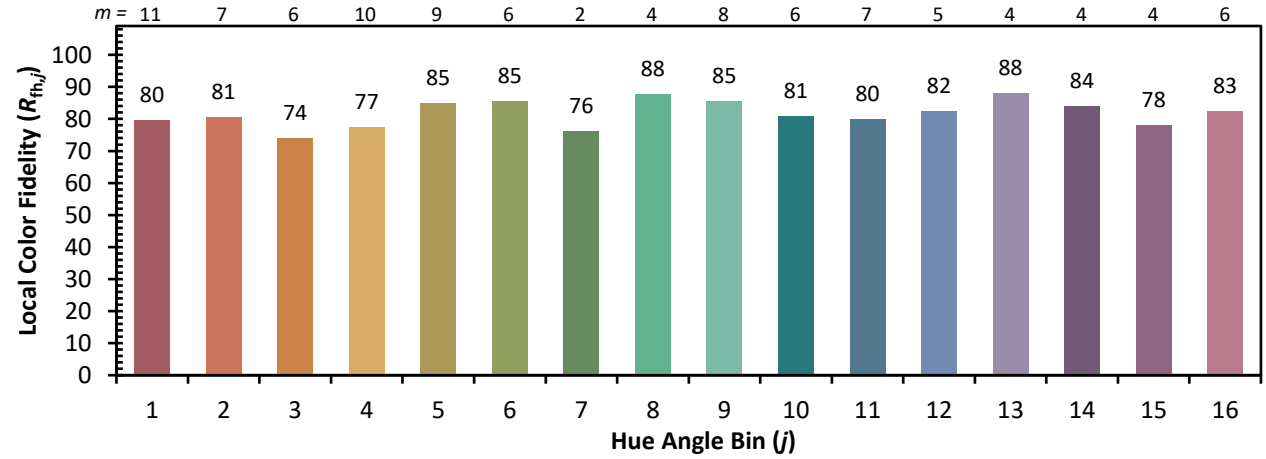
Color Rendition by Hue-Angle Bin







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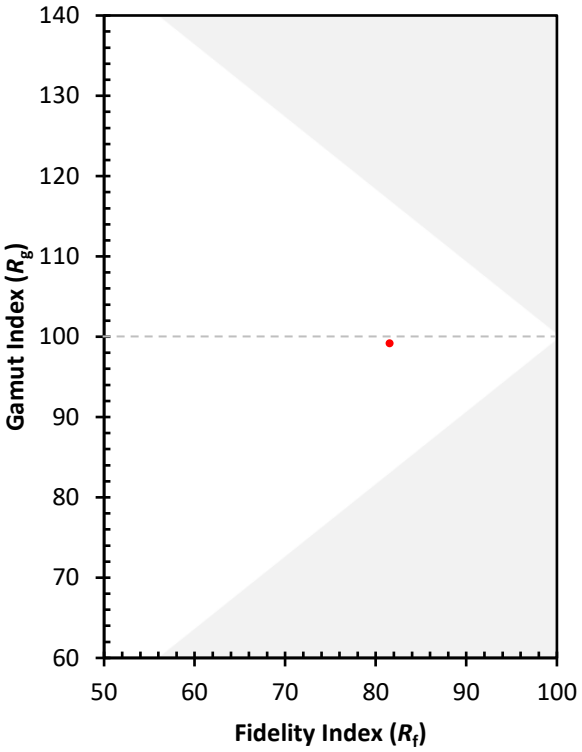
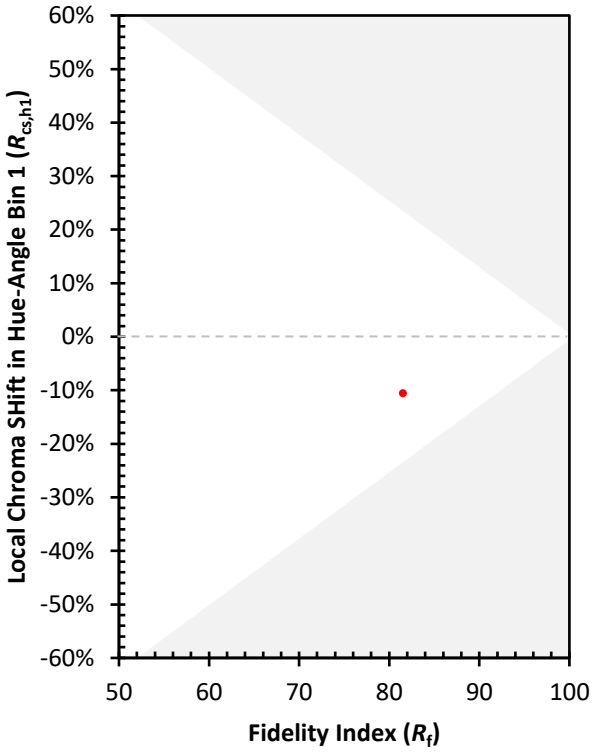
Measure Comparisons





(END OF REPORT)