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: P642933

Luminaire Tested: GWS-SA6D-830-U-SL4-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:	P642933
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27329.2 lumens
Efficiency:	N/A
Efficacy:	111.2 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - 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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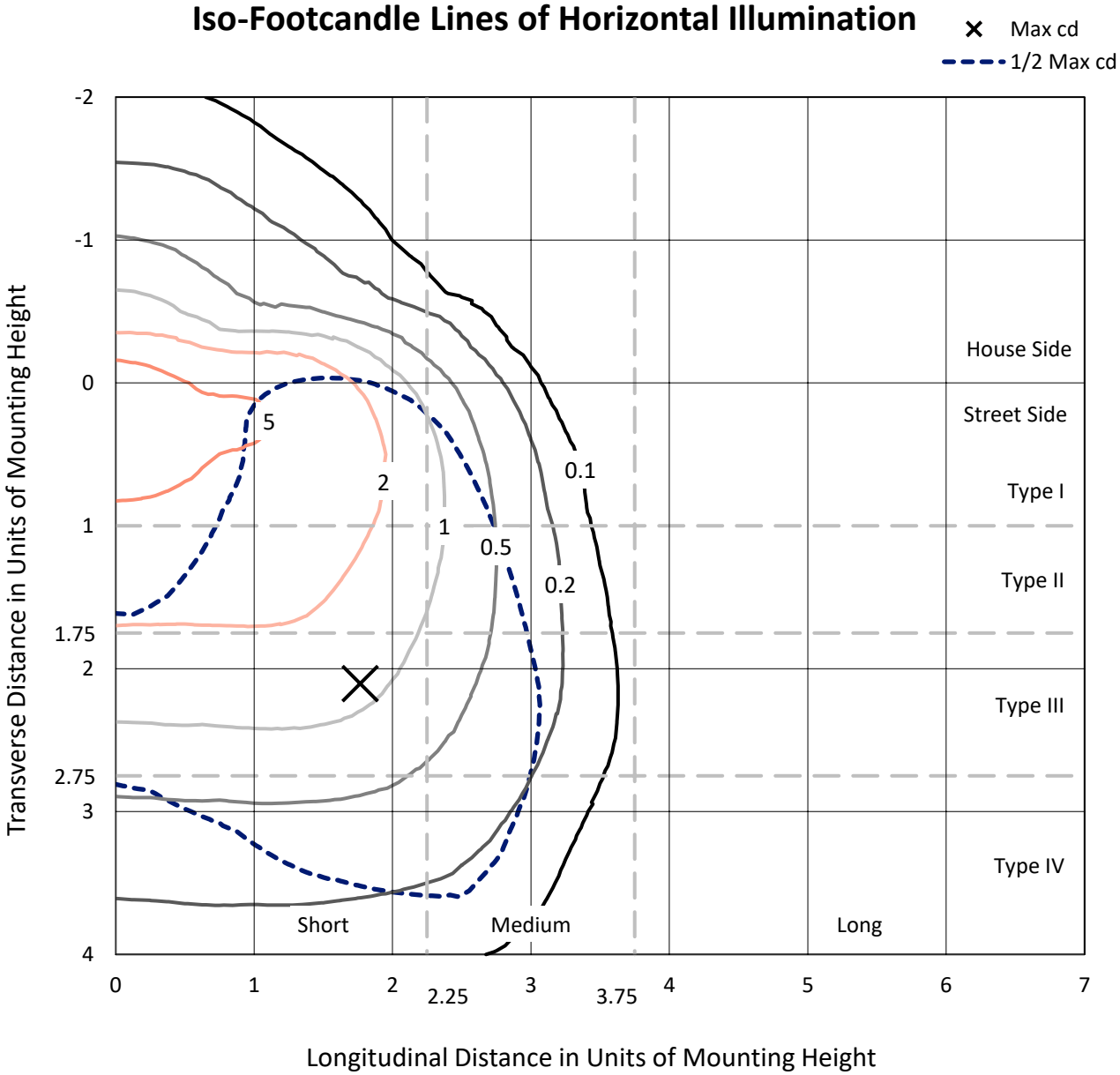
REPORT NUMBER: P642933
CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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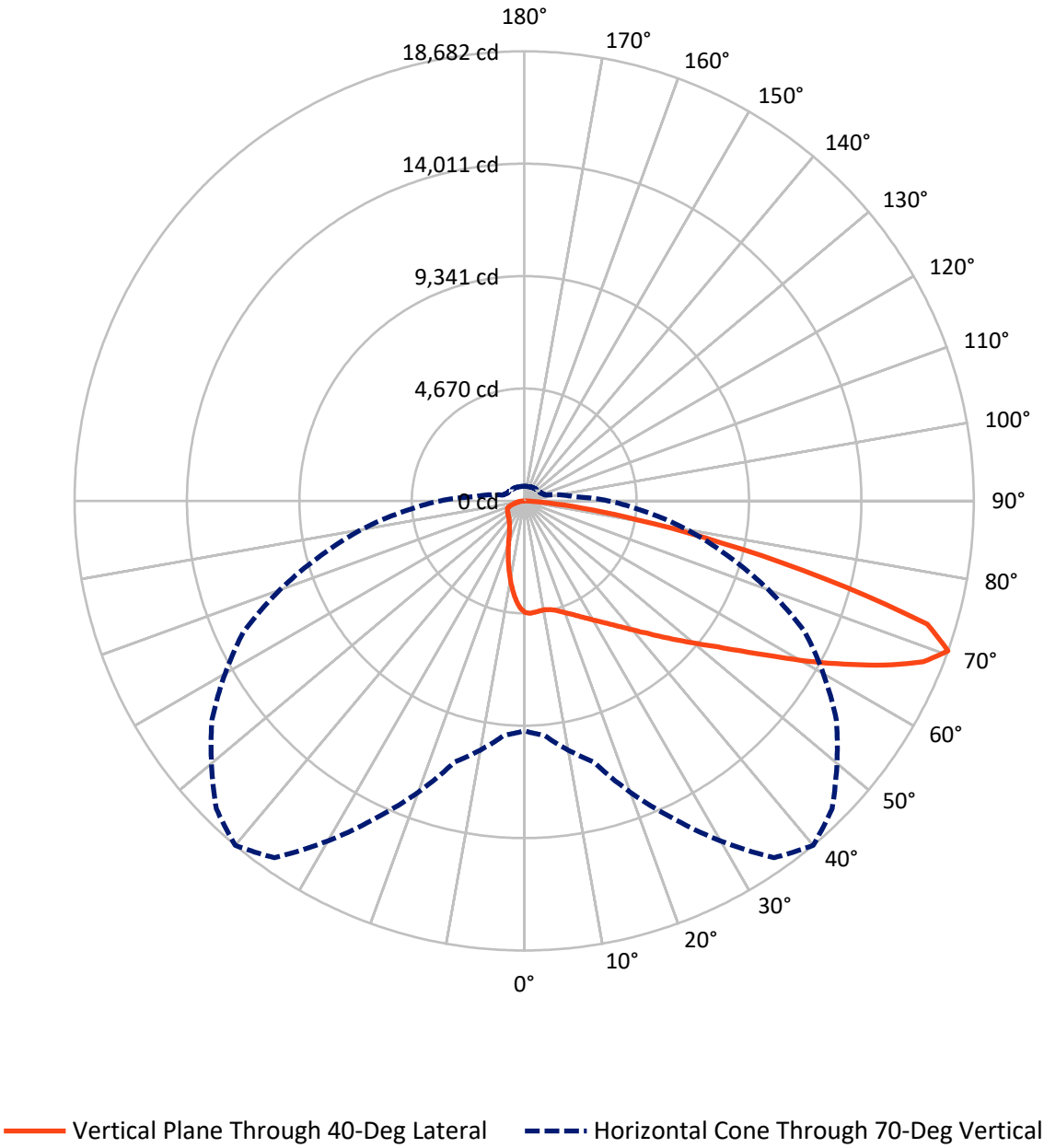
Luminous Intensity Polar Plot



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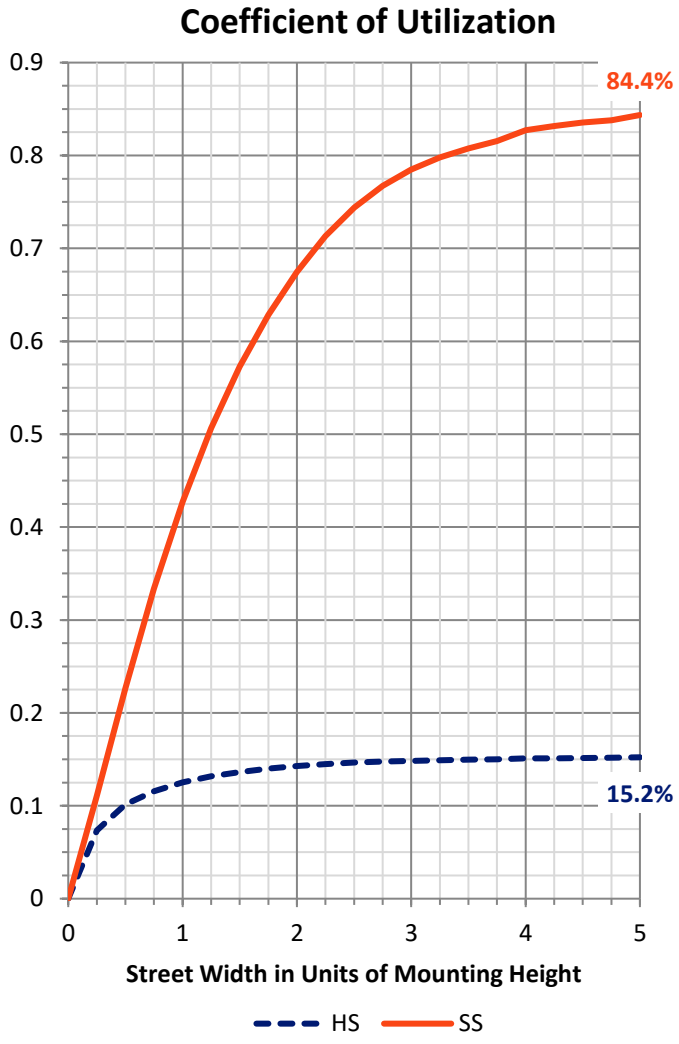
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.4	0.0	4209.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	23119.8	0.0	23119.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	27329.2	0.0	27329.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	1.5
10°-20°	1068.6	3.9
20°-30°	1678.0	6.1
30°-40°	2522.8	9.2
40°-50°	3894.1	14.2
50°-60°	5783.0	21.2
60°-70°	7289.4	26.7
70°-80°	4215.4	15.4
80°-90°	467.8	1.7
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°	27329.2	100.0
0°-180°	27329.2	100.0



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REPORT NUMBER: P642933
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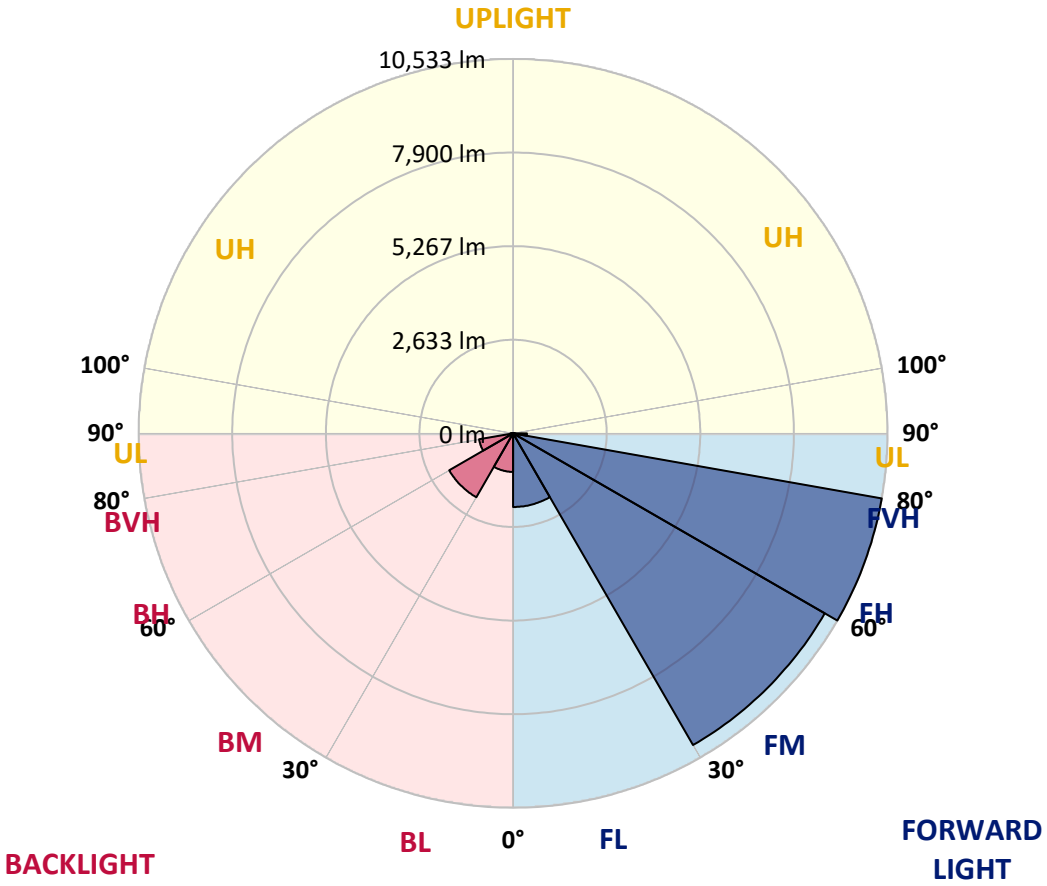
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2071.8	7.6			
FM	(30°-60°)	10125.1	37.0			
FH	(60°-80°)	10533.3	38.5			G4/12000
FVH	(80°-90°)	389.6	1.4			G3/500
BL	(0°-30°)	1084.8	4.0	B3/2500		
BM	(30°-60°)	2074.9	7.6	B2/2500		
BH	(60°-80°)	971.5	3.6	B2/1000		G2/1000
BVH	(80°-90°)	78.2	0.3			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 IV Short



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REPORT NUMBER: P642933
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4640.8	4640.8	4640.8	4640.8	4640.8	*4640.8*	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	4669.4	4677.5	4683.6	4691.8	4687.7	*4675.5*	4685.7	4685.7	4663.3	4638.8	4616.3
5°	4675.5	4685.7	4683.6	4681.6	4665.3	*4644.9*	4644.9	4632.7	4593.9	4555.1	4518.4
7.5°	4663.3	4661.2	4659.2	4653.1	4634.7	*4612.3*	4608.2	4583.7	4532.7	4479.7	4426.6
10°	4608.2	4606.1	4612.3	4626.5	4622.5	*4602.1*	4602.1	4579.6	4520.5	4455.2	4385.8
12.5°	4563.3	4563.3	4587.8	4626.5	4640.8	*4632.7*	4634.7	4618.4	4551.1	4473.5	4391.9
15°	4569.4	4571.5	4624.5	4687.7	4714.2	*4708.1*	4710.2	4691.8	4616.3	4538.8	4428.7
17.5°	4610.2	4620.4	4712.2	4799.9	4834.6	*4826.4*	4812.2	4781.6	4695.9	4608.2	4473.5
20°	4695.9	4712.2	4830.5	4940.7	4981.5	*4963.1*	4938.6	4877.4	4783.6	4687.7	4522.5
22.5°	4865.2	4875.4	5006.0	5114.1	5146.7	*5124.3*	5075.3	4987.6	4879.5	4779.5	4581.7
25°	5103.9	5116.1	5240.5	5340.5	5332.3	*5305.8*	5238.5	5130.4	5001.9	4895.8	4667.3
27.5°	5387.4	5407.8	5530.2	5609.8	5556.7	*5518.0*	5442.5	5311.9	5167.1	5071.2	4797.9
30°	5697.5	5705.6	5809.7	5889.2	5807.6	*5754.6*	5662.8	5522.1	5391.5	5320.1	4993.7
32.5°	5997.4	6005.5	6095.3	6140.2	6054.5	*6015.7*	5936.2	5787.2	5695.4	5656.7	5285.4
35°	6313.5	6311.5	6384.9	6423.7	6336.0	*6319.7*	6238.1	6123.8	6107.5	6158.5	5711.8
37.5°	6629.7	6611.4	6650.1	6701.1	6652.2	*6668.5*	6615.5	6576.7	6639.9	6772.5	6278.9
40°	6882.7	6882.7	6923.5	6986.7	7003.0	*7074.4*	7043.8	7094.8	7298.8	7615.0	6980.6
42.5°	7107.1	7109.1	7194.8	7292.7	7411.0	*7521.2*	7545.7	7678.2	8100.5	8596.2	7861.8
45°	7341.7	7343.7	7460.0	7602.8	7853.7	*8063.8*	8112.8	8410.6	9014.4	9618.2	8818.6
47.5°	7613.0	7590.5	7751.7	7990.4	8347.3	*8649.2*	8775.7	9198.0	9960.9	10703.4	9720.2
50°	7919.0	7872.0	8051.6	8463.6	8904.2	*9318.3*	9530.5	10014.0	10976.8	11705.0	10568.8
52.5°	8263.7	8237.2	8424.9	8926.7	9599.9	*10077.2*	10364.8	10999.2	11964.1	12702.6	11242.0
55°	8692.1	8628.8	8900.2	9538.7	10415.8	*11023.7*	11364.4	11974.3	13043.2	13608.3	11756.0
57.5°	9161.3	9091.9	9455.0	10303.6	11476.6	*12143.6*	12570.0	13071.8	14059.1	14301.9	12058.0
60°	9667.2	9644.7	10075.2	11201.2	12741.3	*13516.5*	13824.5	14279.4	14942.4	14703.7	11982.5
62.5°	10130.2	10122.1	10748.3	12174.2	14081.5	*14934.2*	15179.0	15299.4	15578.8	14677.2	11382.7
65°	10617.8	10687.1	11533.7	13302.3	15617.6	*16454.0*	16556.0	16250.0	15793.0	13981.6	10154.7
67.5°	10679.0	10813.6	12027.4	14359.0	17074.1	*17863.6*	17782.0	16611.0	15160.7	12045.7	7959.8
70°	*9550.9*	*9785.5*	*11239.9*	*14520.1*	*18100.2*	*18681.6*	*18092.0*	*15833.8*	*12865.8*	*8726.8*	*5006.0*
72.5°	7980.2	8182.1	9467.3	12382.3	16776.3	*17516.8*	16719.2	13402.3	9091.9	5006.0	2549.9
75°	6211.5	6446.1	7631.3	9842.6	12559.8	*12855.6*	12455.7	9346.9	4997.8	2064.4	1158.7
77.5°	3790.2	3959.5	4881.5	6668.5	8788.0	*8345.3*	7072.4	5240.5	2192.9	989.4	716.0
80°	1676.8	1780.8	2405.1	3582.1	5077.4	*4799.9*	3784.0	2237.8	1199.5	628.3	499.8
82.5°	899.6	966.9	1185.2	1417.7	2229.6	*2331.6*	1891.0	1289.2	644.6	359.0	285.6
85°	395.7	434.5	538.5	514.1	732.3	*720.1*	726.2	885.3	308.0	165.2	185.6
87.5°	0.0	0.0	0.0	0.0	2.0	*2.0*	22.4	118.3	30.6	49.0	42.8
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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CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	4591.9	4555.1	4544.9	4532.7	4510.3	4471.5	4442.9	4410.3	4396.0	4379.7	4381.7
5°	4477.6	4432.7	4389.9	4334.8	4265.5	4187.9	4134.9	4073.7	4041.1	4010.5	4018.6
7.5°	4379.7	4310.3	4222.6	4106.4	3981.9	3843.2	3731.0	3643.3	3584.1	3543.3	3563.7
10°	4318.5	4236.9	4083.9	3894.2	3684.1	3471.9	3310.8	3159.8	3066.0	2992.6	2988.5
12.5°	4306.3	4200.2	3977.8	3702.4	3398.5	3115.0	2878.3	2674.3	2549.9	2458.1	2492.8
15°	4318.5	4183.9	3886.0	3525.0	3141.5	2758.0	2464.2	2229.6	2080.7	1997.1	1991.0
17.5°	4332.8	4167.6	3782.0	3333.2	2872.2	2433.6	2093.0	1844.1	1691.1	1607.5	1609.5
20°	4345.0	4143.1	3659.6	3123.1	2598.9	2131.7	1778.8	1542.2	1405.5	1344.3	1354.5
22.5°	4365.4	4118.6	3529.1	2898.7	2319.4	1840.0	1529.9	1338.2	1256.6	1215.8	1217.8
25°	4404.2	4104.3	3394.4	2653.9	2044.0	1607.5	1358.6	1230.1	1179.1	1154.6	1152.6
27.5°	4483.7	4116.6	3253.7	2417.3	1795.1	1430.0	1248.4	1164.8	1130.1	1113.8	1111.8
30°	4616.3	4165.5	3131.3	2176.6	1580.9	1291.3	1173.0	1122.0	1101.6	1087.3	1085.2
32.5°	4818.3	4257.3	2998.7	1952.2	1407.5	1189.3	1113.8	1087.3	1073.0	1064.8	1064.8
35°	5124.3	4424.6	2868.1	1756.4	1272.9	1109.7	1066.9	1056.7	1044.4	1040.4	1044.4
37.5°	5564.9	4691.8	2749.8	1585.0	1177.0	1048.5	1015.9	1020.0	1009.8	1015.9	1022.0
40°	6123.8	5048.8	2649.9	1444.3	1105.6	1003.6	971.0	985.3	979.2	985.3	995.5
42.5°	6831.7	5491.5	2574.4	1334.1	1054.6	966.9	936.3	950.6	946.5	954.7	964.9
45°	7621.1	6074.9	2539.7	1256.6	1017.9	940.4	907.8	918.0	913.9	920.0	930.2
47.5°	8377.9	6605.3	2570.3	1211.7	987.3	918.0	883.3	887.4	885.3	883.3	889.4
50°	9030.7	7027.5	2658.0	1197.4	966.9	895.5	862.9	864.9	858.8	846.6	850.6
52.5°	9563.1	7366.1	2711.0	1197.4	956.7	871.0	840.4	842.5	830.2	813.9	816.0
55°	9914.0	7502.8	2668.2	1195.4	952.6	850.6	818.0	820.0	807.8	787.4	789.4
57.5°	10014.0	7370.2	2488.7	1173.0	948.6	834.3	795.6	799.6	791.5	769.0	769.0
60°	9734.5	6884.7	2160.3	1122.0	938.4	824.1	779.2	785.4	781.3	758.8	758.8
62.5°	9002.2	6021.8	1768.6	1044.4	909.8	811.9	765.0	777.2	787.4	775.2	773.1
65°	7631.3	4824.4	1438.1	958.8	873.1	791.5	744.6	775.2	797.6	813.9	813.9
67.5°	5726.0	3453.6	1173.0	869.0	818.0	750.7	718.1	746.6	762.9	773.1	779.2
70°	*3490.3*	*2031.8*	*924.1*	*765.0*	*738.5*	*689.5*	*665.0*	*636.5*	*614.0*	*609.9*	*612.0*
72.5°	1707.4	1162.8	750.7	650.7	630.3	585.5	530.4	518.1	507.9	501.8	499.8
75°	940.4	809.8	620.1	540.6	503.9	448.8	436.5	416.1	412.1	403.9	405.9
77.5°	665.0	638.5	512.0	438.6	383.5	354.9	361.1	346.8	346.8	340.7	338.6
80°	499.8	501.8	393.7	320.3	283.5	273.3	279.5	279.5	275.4	273.3	271.3
82.5°	316.2	357.0	265.2	206.0	202.0	204.0	202.0	199.9	204.0	197.9	195.8
85°	218.3	257.0	161.2	122.4	122.4	120.4	124.4	122.4	126.5	120.4	120.4
87.5°	49.0	114.2	59.2	36.7	38.8	36.7	38.8	40.8	44.9	46.9	46.9
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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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

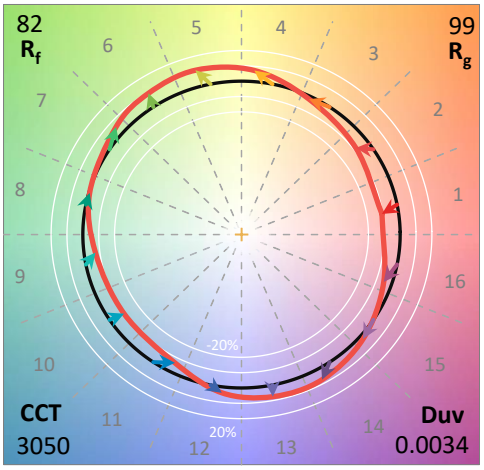
Test Information

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

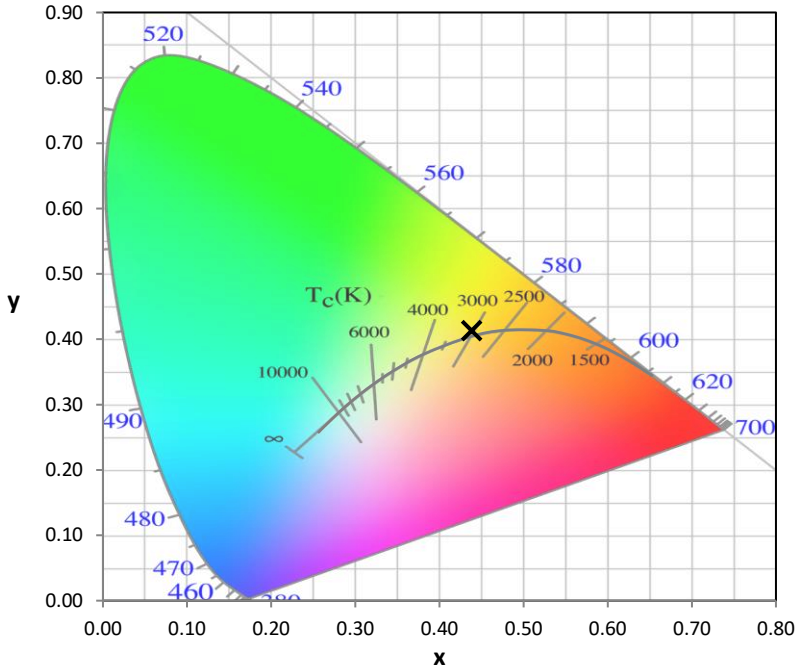
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

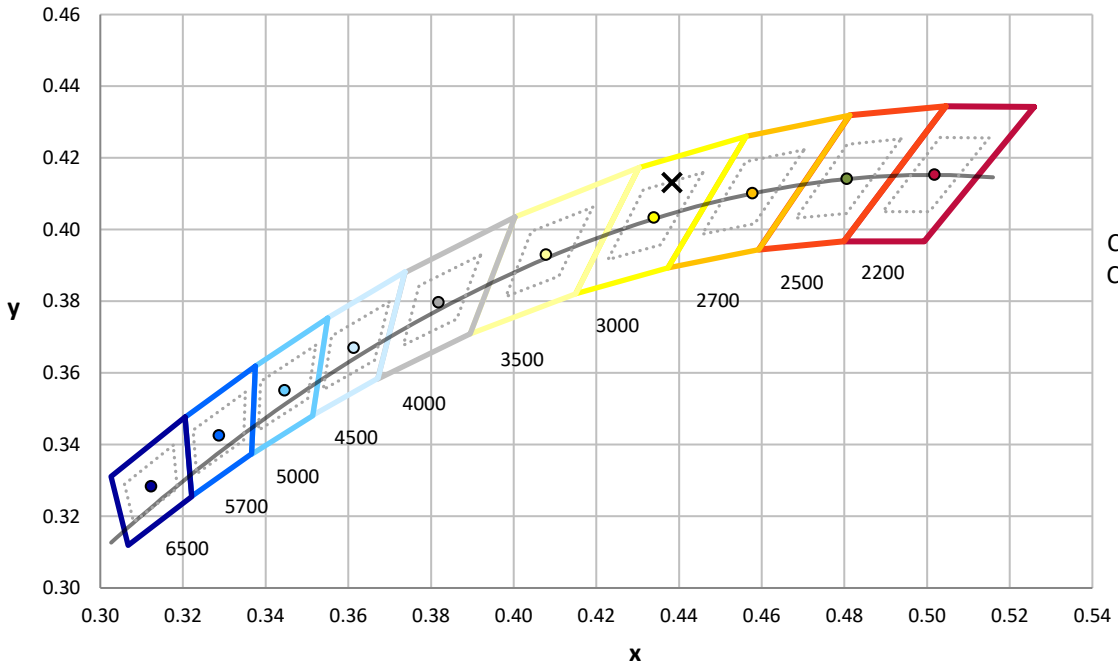
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

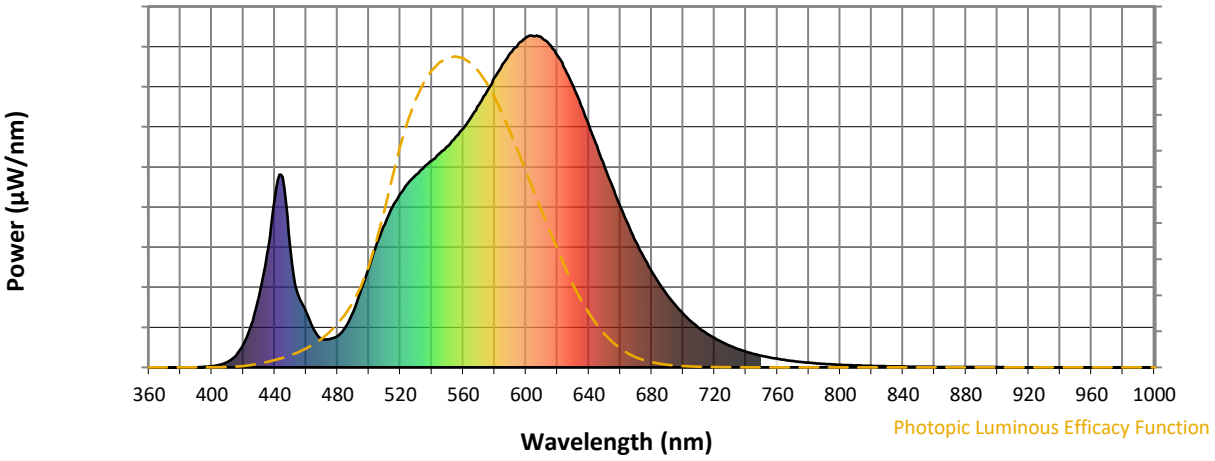


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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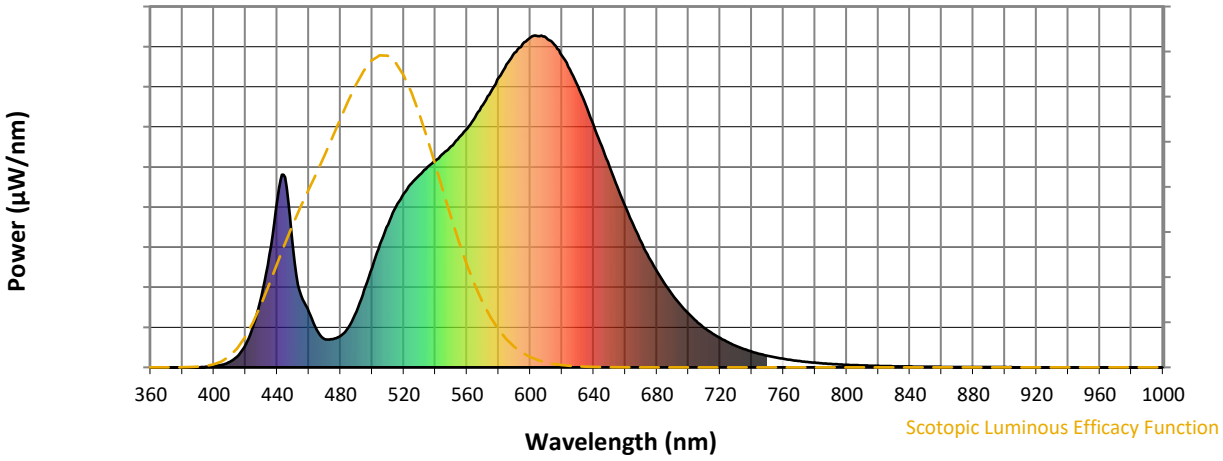
Scotopic Flux vs. Wavelength



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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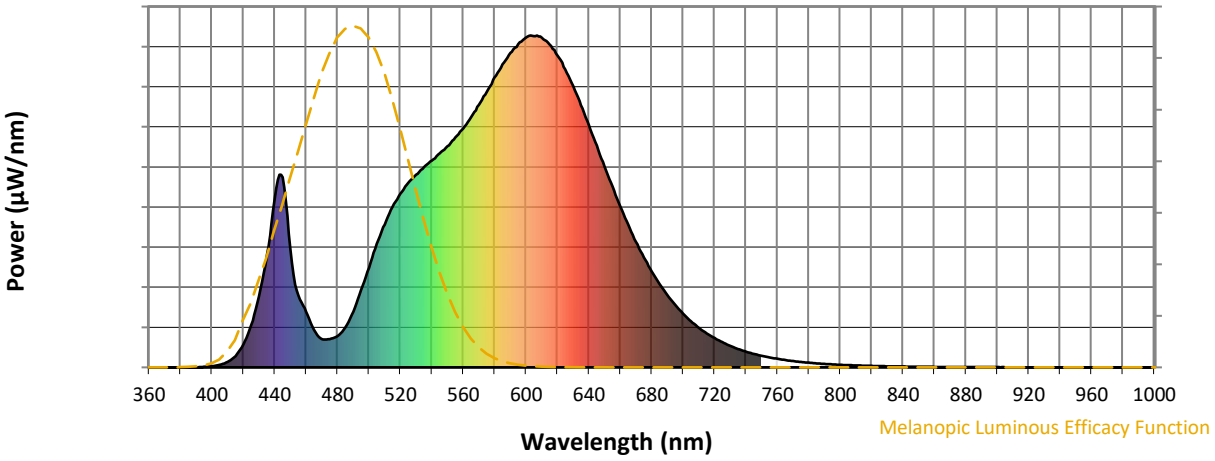
Melanopic Flux vs. Wavelength



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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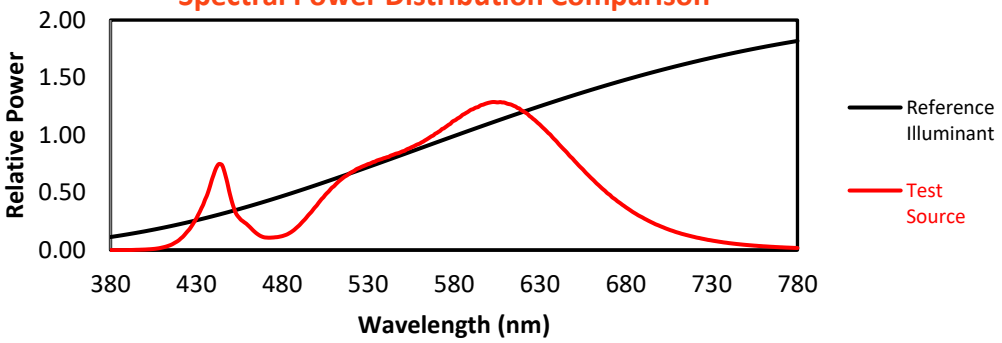
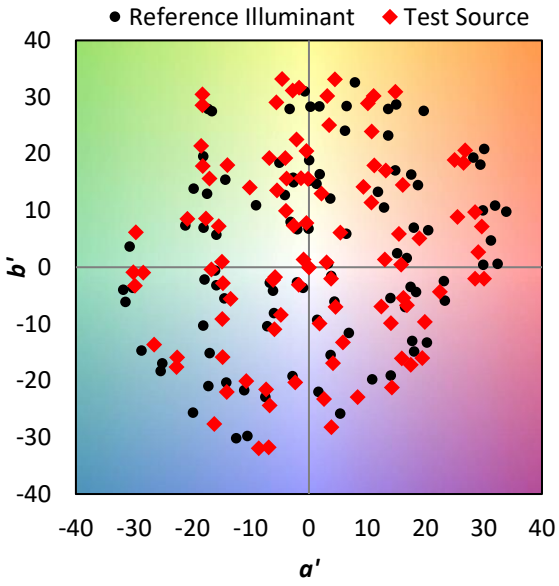
Summary

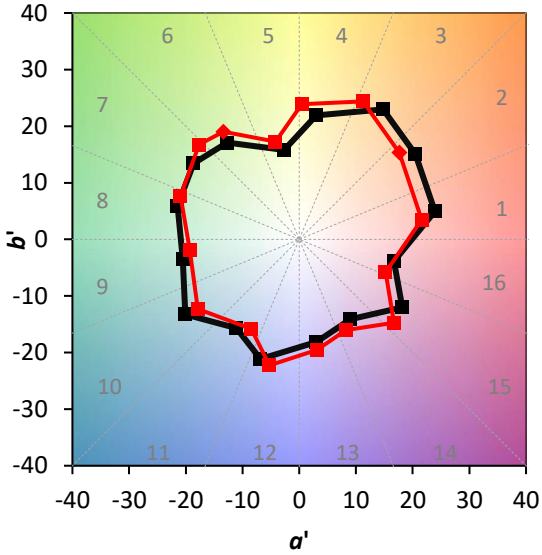
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

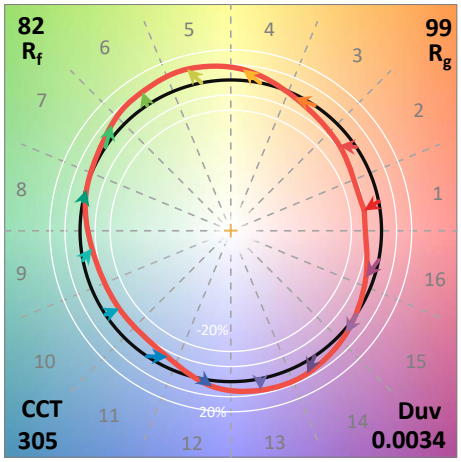
Spectral Power Distribution Comparison

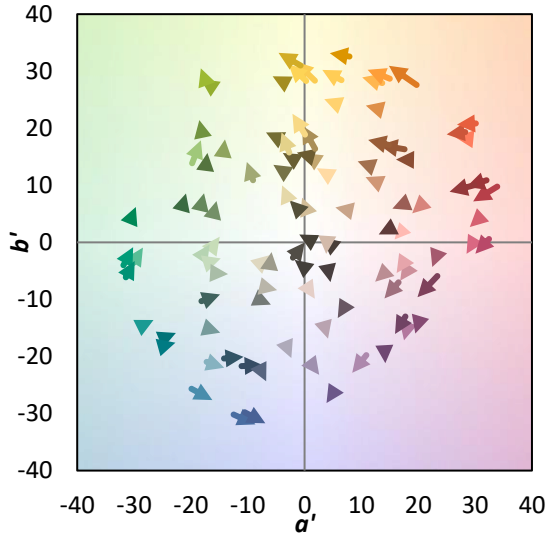


Color Vector Graphics









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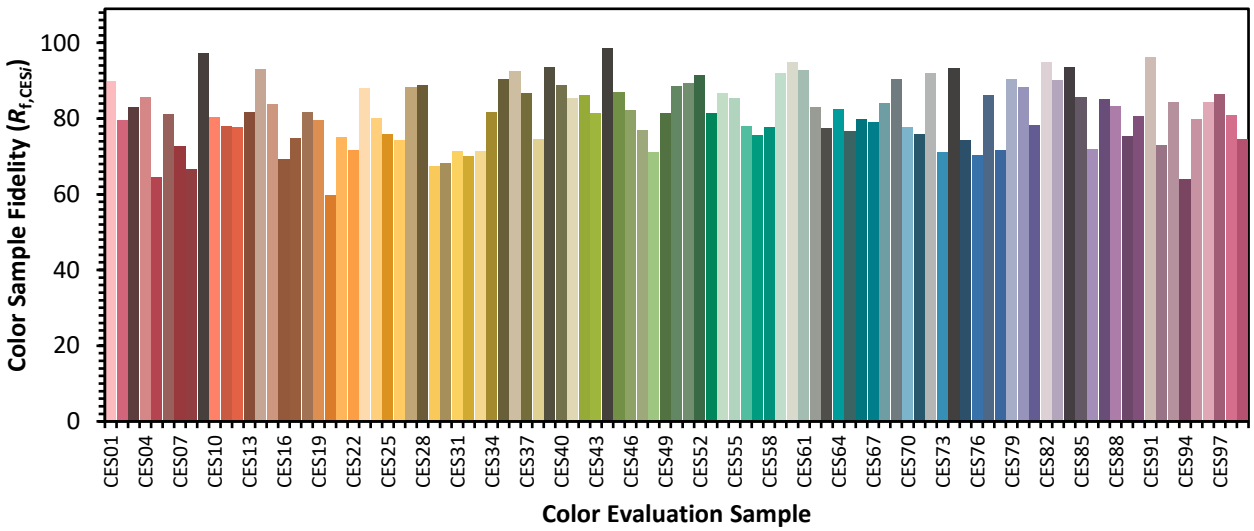
Individual Sample Fidelity Index ($R_{f,i}$)

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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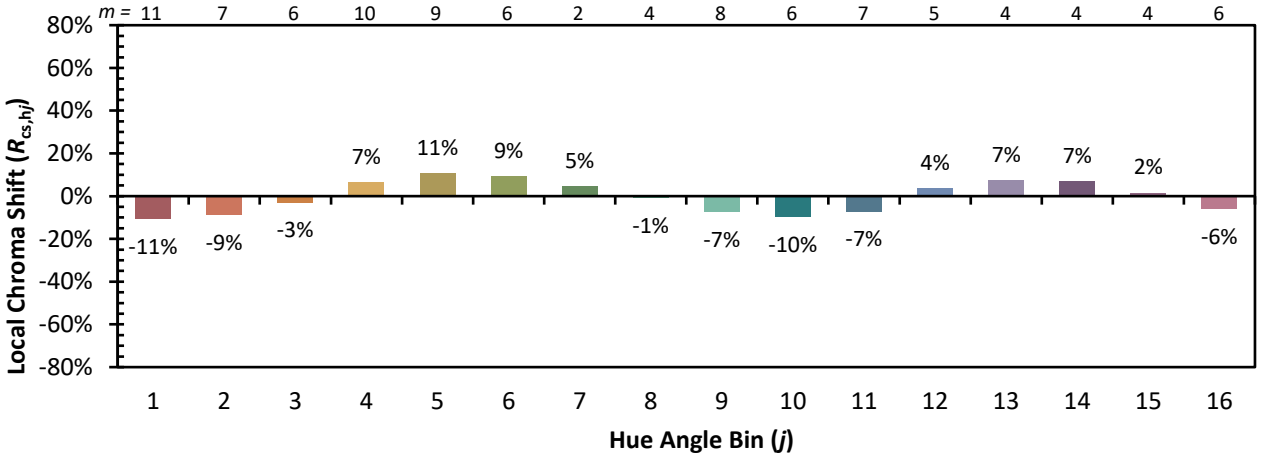
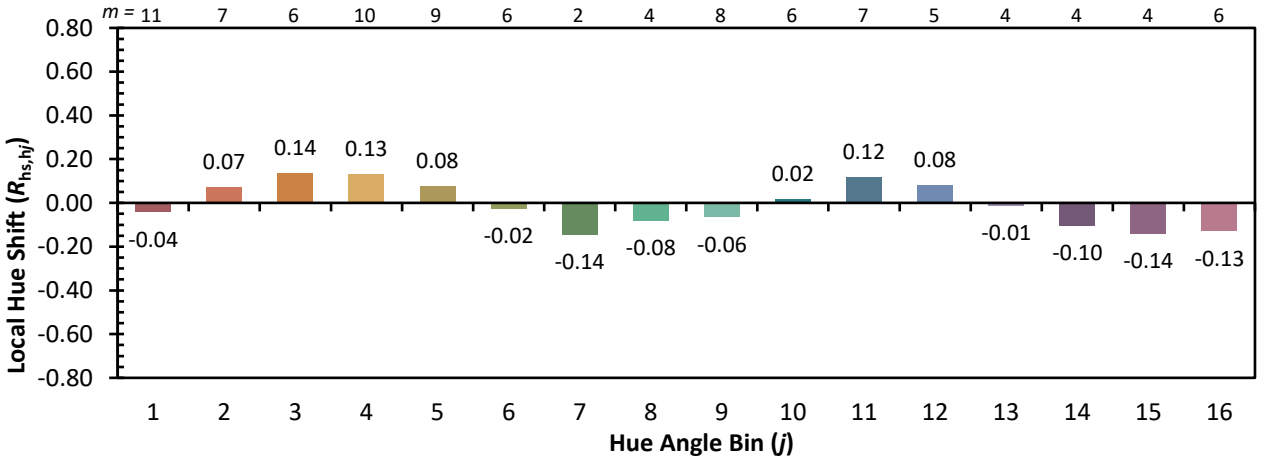
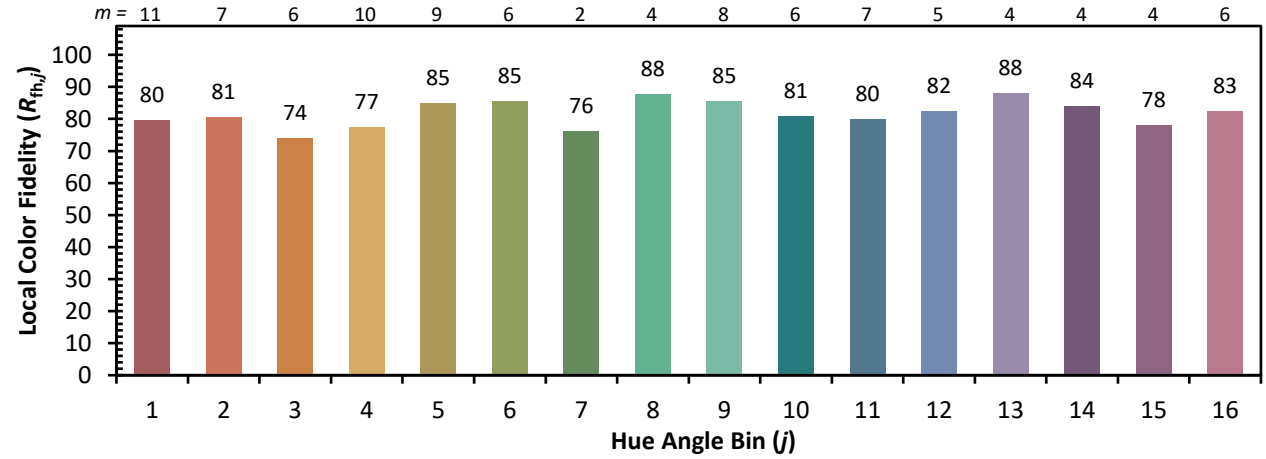
Color Rendition by Hue-Angle Bin







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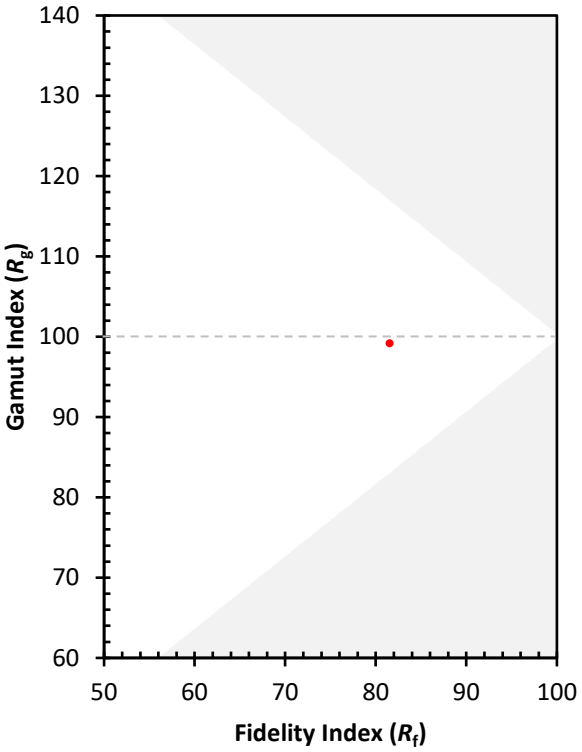
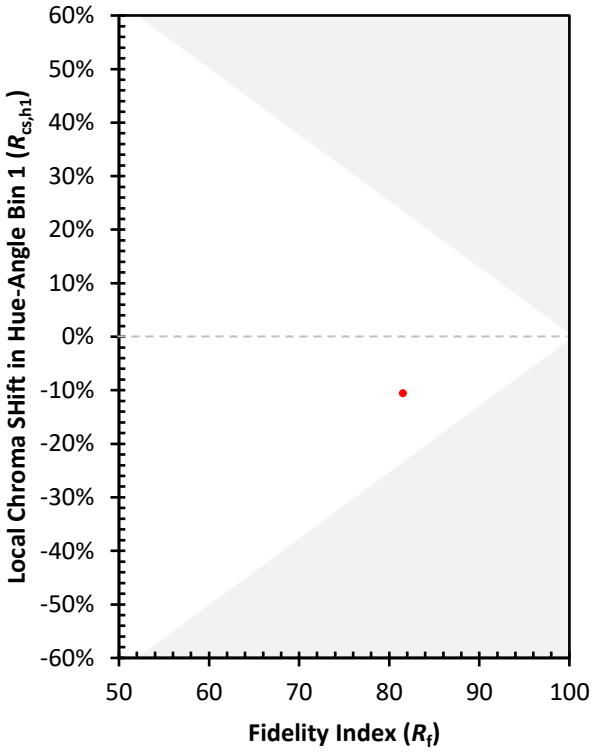
Measure Comparisons





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