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: P639947

Luminaire Tested: GWS-SA5C-830-U-AFL-W-GRSBK

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:	P639947
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-AFL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14246.8 lumens
Efficiency:	N/A
Efficacy:	90.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	157.5
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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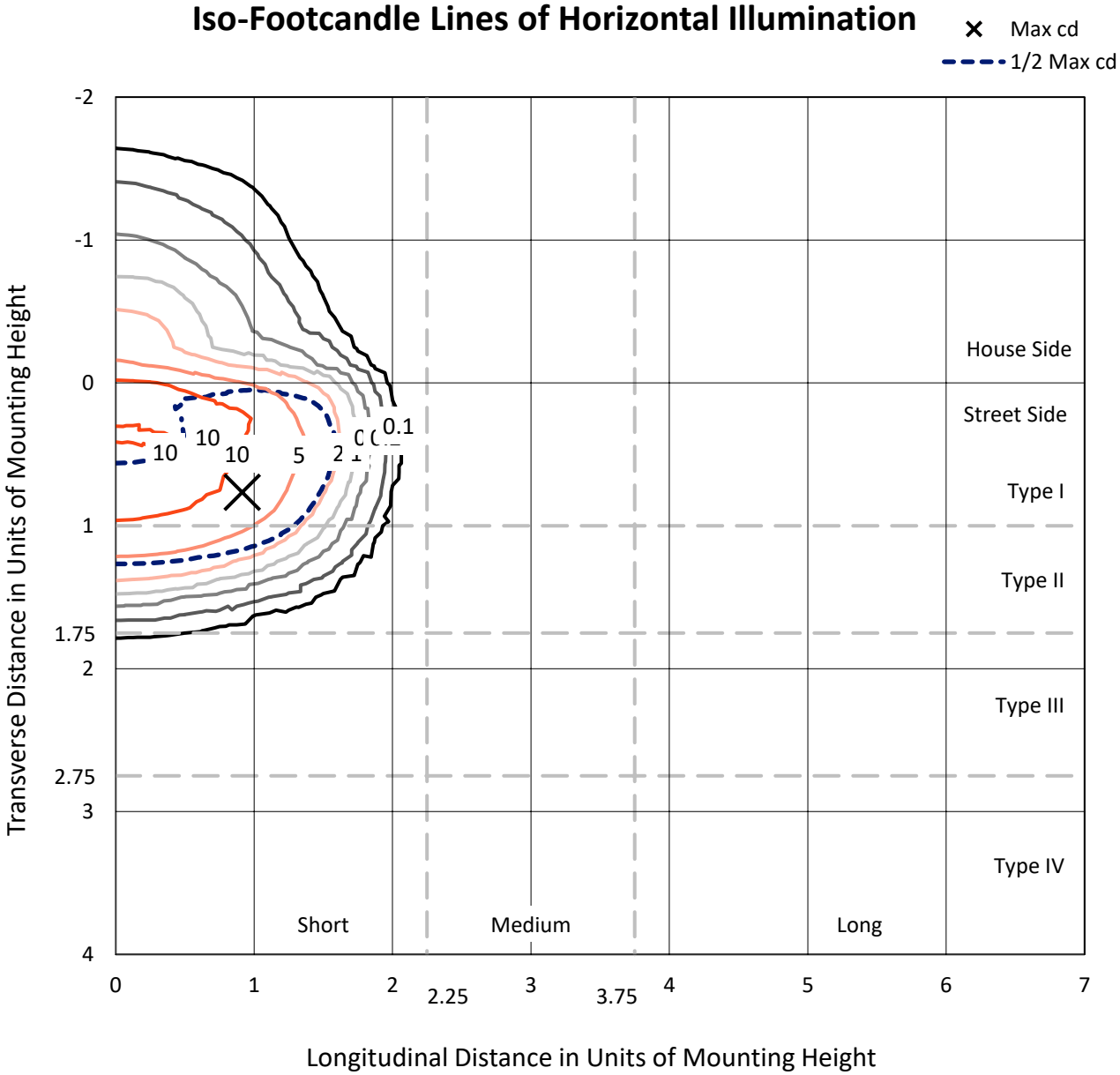
Scaled Data Report

REPORT NUMBER: P639947
CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

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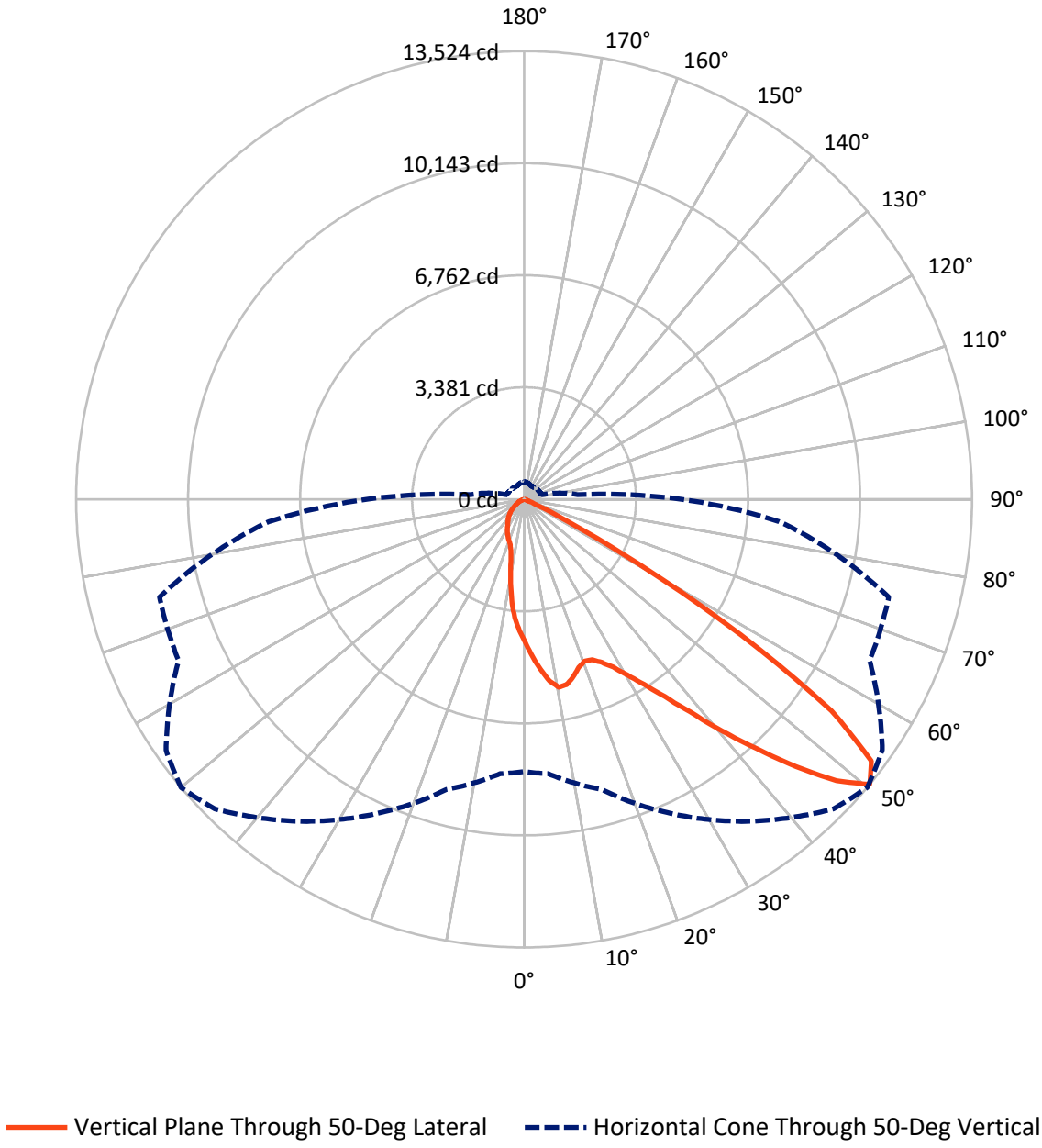
Luminous Intensity Polar Plot



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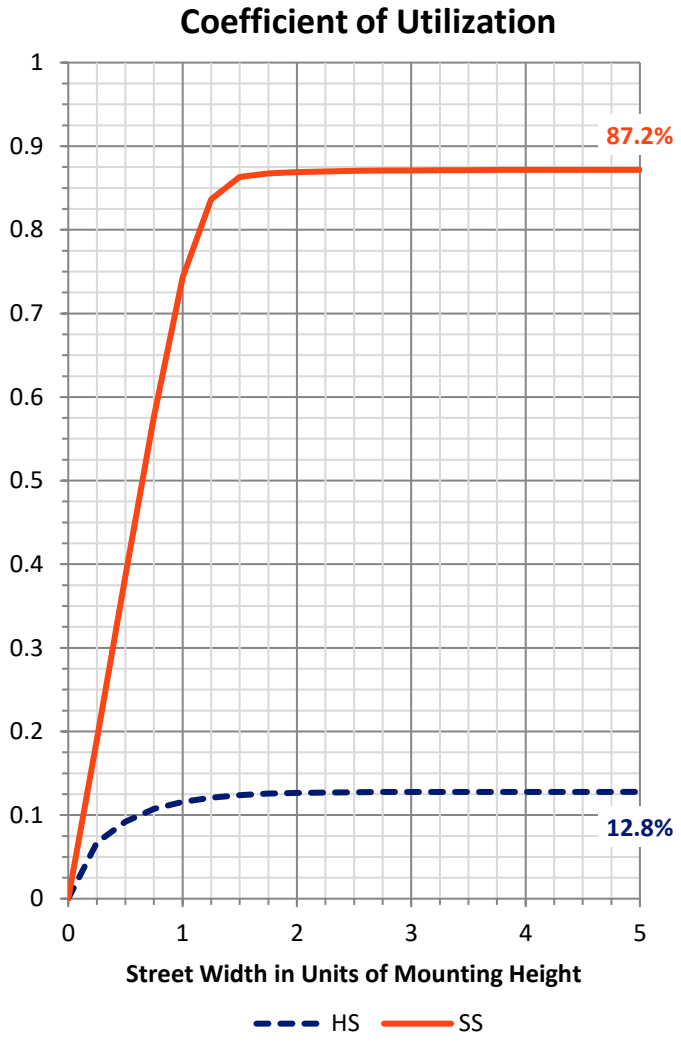
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.5	0.0	1830.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12416.3	0.0	12416.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	14246.8	0.0	14246.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.4	2.8
10°-20°	1033.0	7.3
20°-30°	1704.9	12.0
30°-40°	2813.4	19.7
40°-50°	4451.5	31.2
50°-60°	3370.3	23.7
60°-70°	421.8	3.0
70°-80°	47.7	0.3
80°-90°	3.6	0.0
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°	14246.8	100.0
0°-180°	14246.8	100.0



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REPORT NUMBER: P639947
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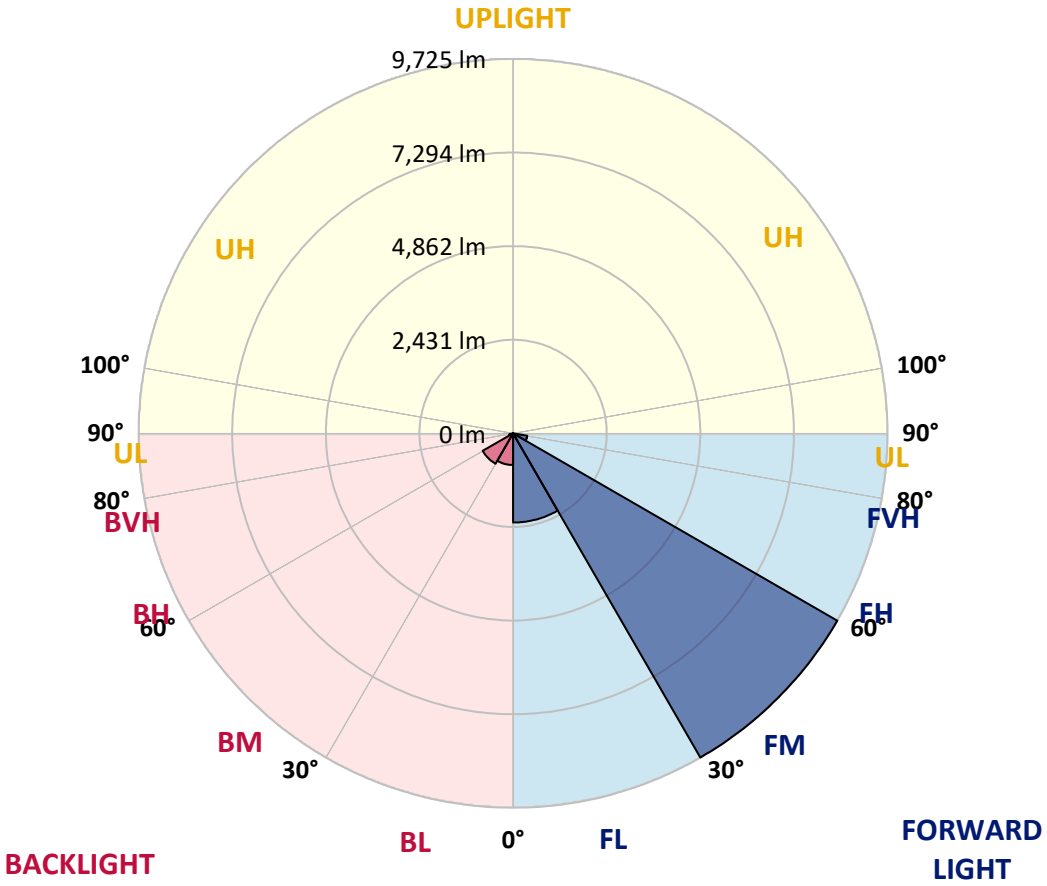
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2316.7	16.3			
FM	(30°-60°)	9724.9	68.3			
FH	(60°-80°)	372.9	2.6			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	821.6	5.8	B2/1000		
BM	(30°-60°)	910.3	6.4	B1/1000		
BH	(60°-80°)	96.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type II Short



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CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2
2.5°	4918.3	4957.6	4946.8	4895.2	4839.6	4800.3	4739.3	4720.3	4582.0	4485.7	4384.0
5°	5512.2	5524.4	5510.9	5448.5	5350.9	5257.3	5156.9	5098.6	4866.8	4657.9	4445.0
7.5°	5654.6	5639.7	5665.5	5696.6	5683.1	5642.4	5536.6	5472.9	5196.3	4855.9	4533.2
10°	5209.8	5175.9	5272.2	5433.6	5603.1	5794.3	5767.2	5772.6	5517.6	5105.4	4648.4
12.5°	4620.0	4606.4	4678.3	4865.4	5197.6	5631.6	5736.0	5910.9	5811.9	5375.3	4780.0
15°	4361.0	4367.7	4411.1	4529.1	4767.8	5307.5	5558.3	5874.3	6075.0	5637.0	4925.1
17.5°	4400.3	4424.7	4423.3	4462.7	4607.8	5040.3	5333.2	5759.0	6278.4	5938.0	5091.9
20°	4667.4	4691.8	4655.2	4625.4	4674.2	4972.5	5215.3	5642.4	6415.3	6241.8	5268.1
22.5°	5067.4	5095.9	5009.1	4923.7	4892.5	5083.7	5260.0	5594.9	6519.7	6519.7	5425.4
25°	5551.5	5590.9	5456.6	5304.8	5218.0	5318.3	5451.2	5702.1	6626.9	6769.3	5532.6
27.5°	6092.6	6094.0	5978.7	5807.8	5645.1	5657.3	5737.3	5943.4	6744.8	7037.7	5616.6
30°	6701.5	6705.5	6552.3	6347.5	6142.8	6087.2	6155.0	6310.9	6990.3	7375.4	5733.3
32.5°	7487.9	7506.9	7287.3	6986.2	6720.4	6616.0	6655.3	6819.4	7380.8	7798.5	5908.2
35°	8551.1	8571.4	8247.3	7850.0	7426.9	7269.6	7309.0	7474.4	7946.3	8399.2	6187.5
37.5°	9600.6	9627.7	9299.6	8929.4	8349.0	8088.7	8129.3	8286.6	8795.2	9229.1	6635.0
40°	10326.1	10362.7	10261.0	10011.5	9473.2	9131.4	9180.3	9237.2	9729.4	10221.7	7215.4
42.5°	10708.5	10760.0	10803.4	10930.9	10647.5	10361.4	10278.6	10282.7	10680.0	11233.3	7818.8
45°	10731.5	10781.7	11004.1	11496.3	11712.0	11652.3	11501.8	11400.1	11405.5	11907.2	8195.8
47.5°	9985.7	10079.3	10495.6	11459.7	12270.6	12765.6	12689.6	12448.3	11710.6	11952.0	8155.1
50°	8218.8	8311.1	9067.7	10454.9	11863.8	13210.4	13523.6	13199.5	11511.3	11394.6	7736.1
52.5°	5969.2	5978.7	6469.6	8090.0	10214.9	12390.0	13127.6	13096.4	11207.5	10719.3	7163.9
55°	2835.4	2801.5	3353.4	4565.7	7064.9	10021.0	11264.5	11617.0	10776.3	10231.2	6720.4
57.5°	825.8	842.1	1087.5	1781.8	3533.8	6404.5	7714.4	8370.7	8845.3	8411.4	5212.5
60°	370.2	371.5	413.6	542.4	1177.0	2979.2	3988.1	4800.3	5288.5	4900.7	2585.9
62.5°	268.5	269.8	286.1	306.5	400.0	1008.9	1495.7	1993.4	2030.0	1328.9	655.0
65°	223.7	223.7	226.5	226.5	240.0	360.7	454.3	585.8	493.6	366.1	256.3
67.5°	180.4	181.7	184.4	184.4	180.4	180.4	195.3	214.3	229.2	283.4	235.9
70°	141.0	139.7	139.7	141.0	137.0	116.6	126.1	143.7	157.3	221.0	204.8
72.5°	109.8	111.2	109.8	104.4	94.9	69.2	74.6	93.6	100.3	138.3	138.3
75°	82.7	84.1	78.6	59.7	39.3	21.7	28.5	46.1	58.3	67.8	50.2
77.5°	10.8	10.8	8.1	8.1	6.8	8.1	8.1	10.8	16.3	16.3	12.2
80°	1.4	1.4	1.4	2.7	4.1	5.4	5.4	5.4	5.4	6.8	6.8
82.5°	1.4	1.4	1.4	1.4	4.1	4.1	5.4	5.4	5.4	5.4	5.4
85°	0.0	0.0	0.0	1.4	2.7	4.1	4.1	5.4	5.4	5.4	5.4
87.5°	0.0	0.0	0.0	1.4	2.7	4.1	4.1	4.1	5.4	5.4	5.4
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: P639947
CATALOG NUMBER: GWS-SA5C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2	4316.2
2.5°	4323.0	4244.3	4149.4	4084.3	3992.1	3931.1	3844.3	3786.0	3735.8	3696.5	3718.2
5°	4324.4	4199.6	4005.7	3840.3	3659.9	3494.5	3316.8	3177.2	3051.0	2994.1	3025.3
7.5°	4351.5	4172.5	3875.5	3581.3	3235.5	2893.7	2573.7	2313.4	2184.5	2123.5	2142.5
10°	4404.4	4160.3	3730.4	3242.2	2680.9	2214.4	1903.9	1727.6	1655.7	1617.7	1624.5
12.5°	4453.2	4152.1	3541.9	2796.1	2115.4	1718.1	1556.7	1532.3	1547.2	1548.6	1547.2
15°	4519.6	4137.2	3308.7	2337.8	1692.3	1484.8	1488.9	1524.2	1559.4	1570.3	1567.6
17.5°	4590.1	4114.2	3007.7	1898.4	1436.0	1417.0	1464.5	1512.0	1547.2	1552.6	1554.0
20°	4663.4	4066.7	2664.6	1549.9	1316.7	1365.5	1418.4	1453.7	1479.4	1487.6	1490.3
22.5°	4697.3	3966.4	2268.6	1300.4	1236.7	1301.8	1341.1	1387.2	1395.3	1365.5	1370.9
25°	4679.6	3796.9	1882.2	1132.3	1156.7	1221.8	1280.1	1257.0	1223.1	1201.4	1208.2
27.5°	4624.0	3571.8	1503.8	1008.9	1071.3	1154.0	1160.8	1135.0	1129.6	1111.9	1117.4
30°	4564.4	3312.8	1209.6	909.9	984.5	1071.3	1050.9	1060.4	1061.8	1041.4	1048.2
32.5°	4527.8	3041.6	962.8	843.4	928.9	945.1	985.8	1004.8	1006.2	958.7	966.8
35°	4540.0	2774.4	815.0	789.2	877.3	873.3	930.2	941.1	862.4	797.3	804.1
37.5°	4638.9	2527.6	730.9	747.2	787.8	819.0	862.4	790.6	772.9	743.1	747.2
40°	4823.4	2317.4	680.7	721.4	726.8	777.0	710.6	720.0	721.4	702.4	706.5
42.5°	5039.0	2142.5	650.9	706.5	692.9	701.1	634.6	653.6	673.9	665.8	667.2
45°	5147.5	1971.7	625.1	655.0	659.0	581.7	566.8	587.2	612.9	617.0	618.3
47.5°	5051.2	1808.9	598.0	580.4	607.5	530.2	512.6	519.4	549.2	565.5	568.2
50°	*4756.9*	*1621.8*	*557.3*	*513.9*	*499.0*	*476.0*	*459.7*	*461.0*	*494.9*	*523.4*	*528.8*
52.5°	4343.3	1426.5	490.9	435.3	401.4	419.0	423.1	414.9	446.1	474.6	480.0
55°	3942.0	1182.5	389.2	353.9	322.7	360.7	371.5	360.7	370.2	389.2	390.5
57.5°	2775.8	668.5	298.3	292.9	267.1	309.2	326.8	310.5	294.3	306.5	309.2
60°	1286.9	349.9	229.2	229.2	222.4	265.8	295.6	272.6	241.4	246.8	250.9
62.5°	402.7	221.0	168.1	158.7	181.7	226.5	250.9	227.8	191.2	191.2	196.6
65°	227.8	189.8	132.9	122.0	147.8	181.7	196.6	172.2	139.7	137.0	137.0
67.5°	211.5	180.4	118.0	99.0	104.4	116.6	122.0	105.8	96.3	94.9	96.3
70°	174.9	150.5	94.9	67.8	63.7	62.4	65.1	61.0	58.3	59.7	63.7
72.5°	108.5	90.9	59.7	40.7	35.3	33.9	33.9	33.9	32.5	32.5	32.5
75°	39.3	33.9	27.1	20.3	17.6	16.3	16.3	17.6	16.3	14.9	13.6
77.5°	12.2	10.8	10.8	10.8	9.5	8.1	6.8	6.8	5.4	4.1	4.1
80°	6.8	6.8	6.8	6.8	5.4	5.4	4.1	2.7	1.4	1.4	0.0
82.5°	6.8	6.8	6.8	5.4	5.4	5.4	4.1	2.7	1.4	0.0	0.0
85°	5.4	5.4	5.4	5.4	5.4	5.4	4.1	2.7	1.4	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	4.1	2.7	1.4	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

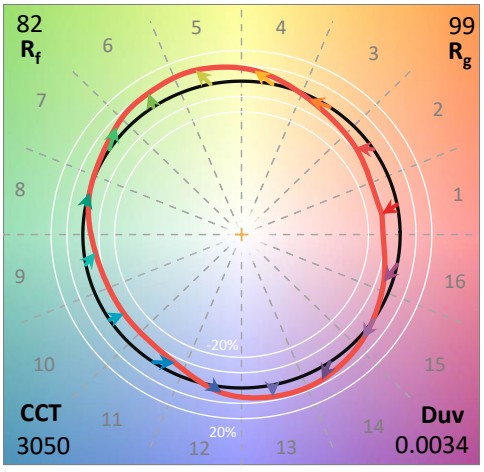
Test Information

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

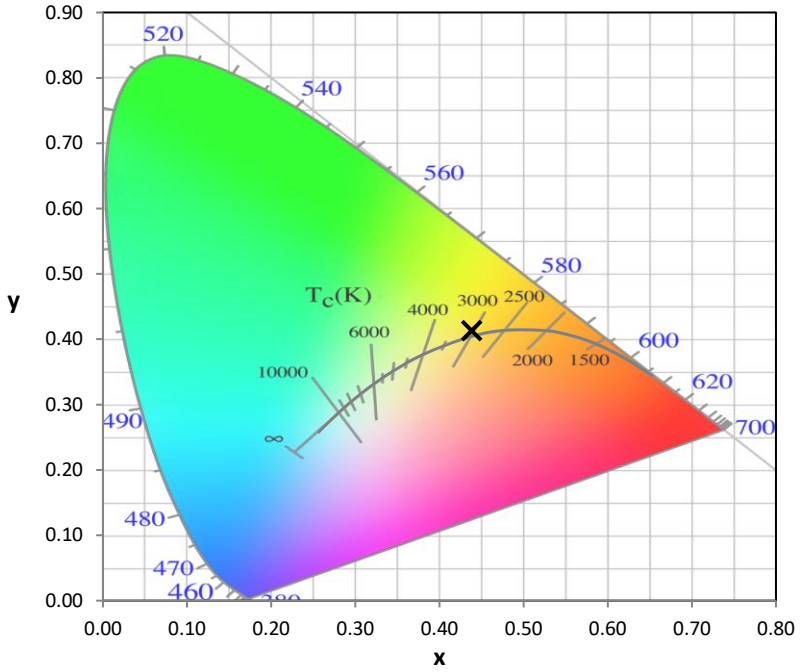
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

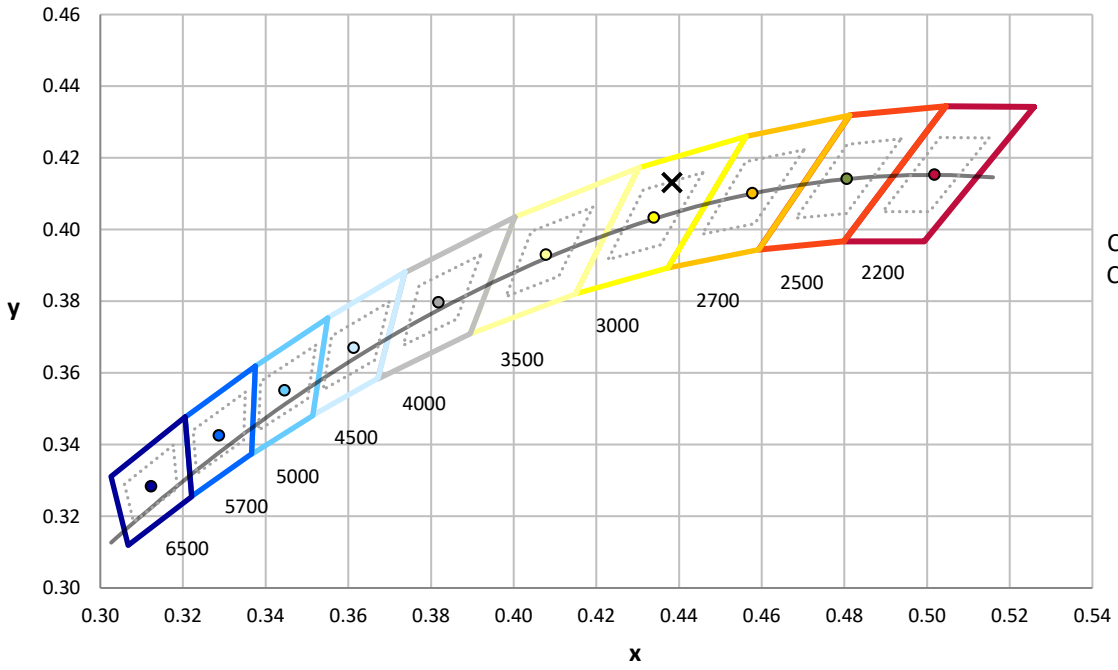
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

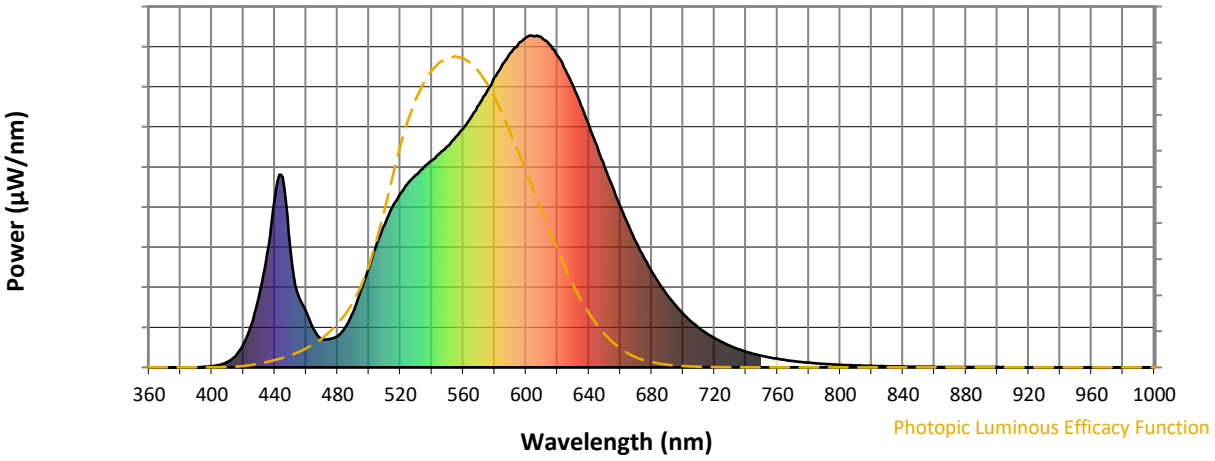


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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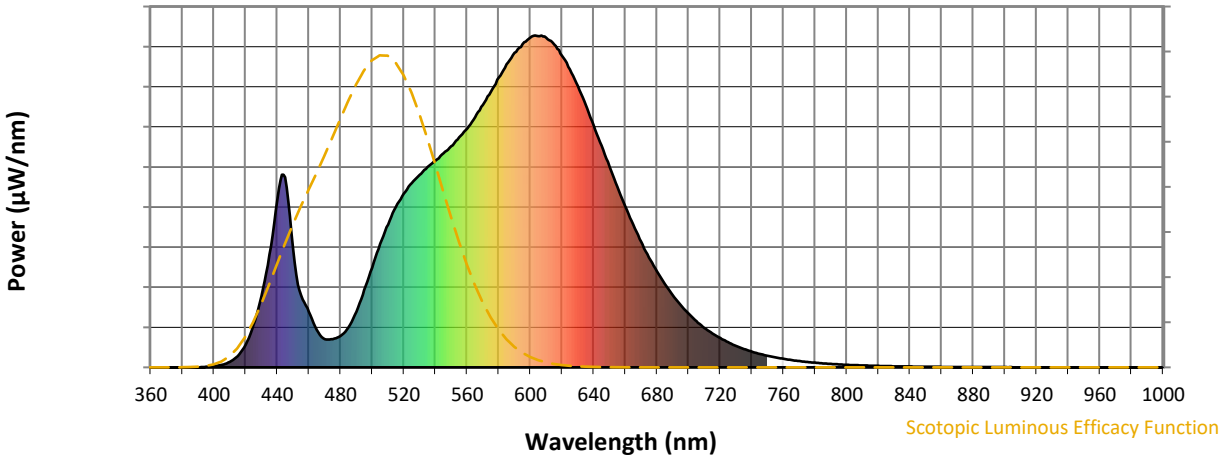
Scotopic Flux vs. Wavelength



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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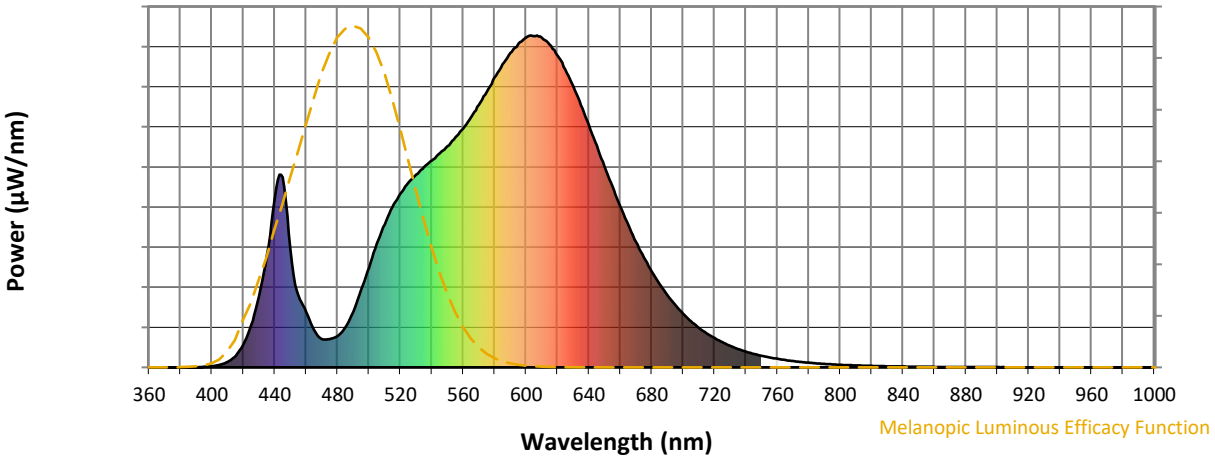
Melanopic Flux vs. Wavelength



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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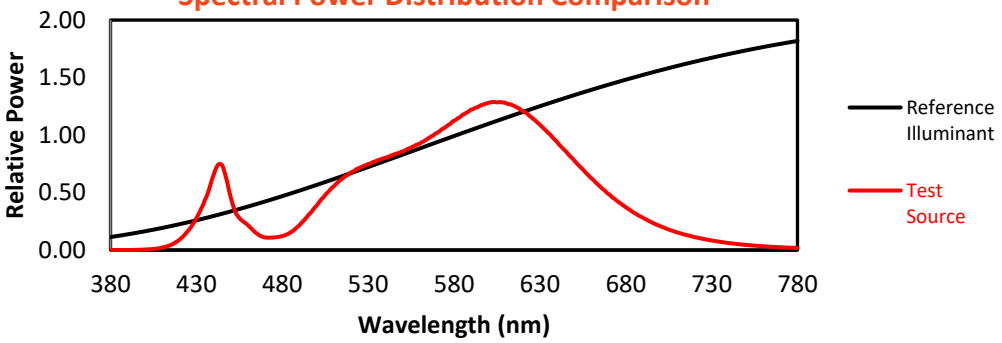
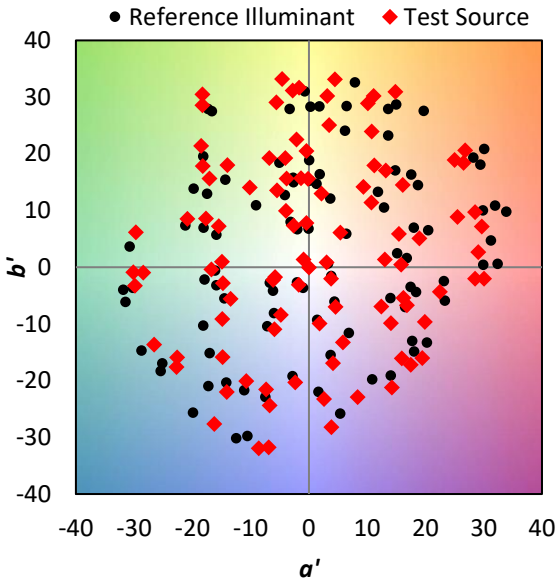
Summary

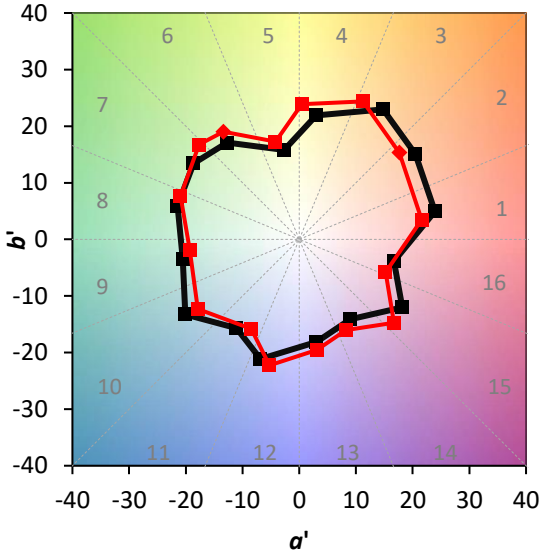
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

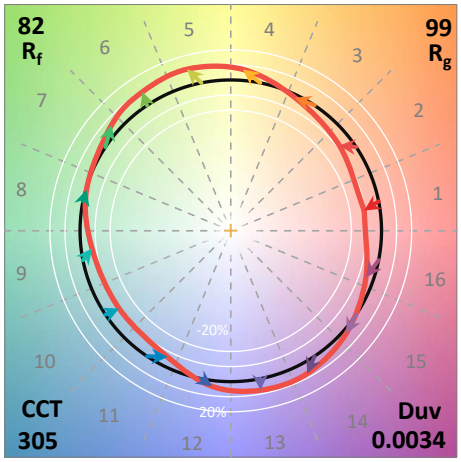
Spectral Power Distribution Comparison

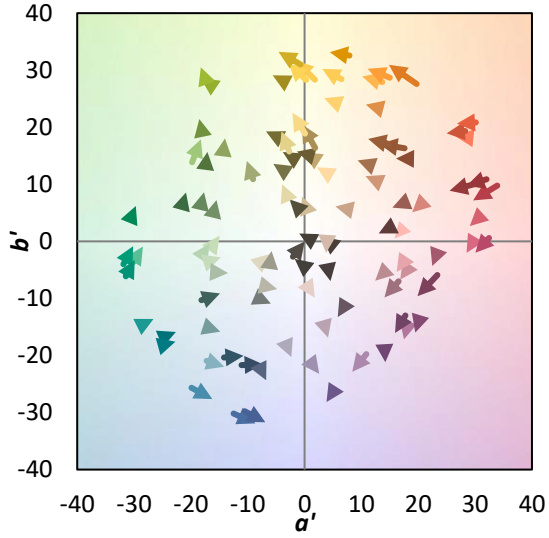


Color Vector Graphics









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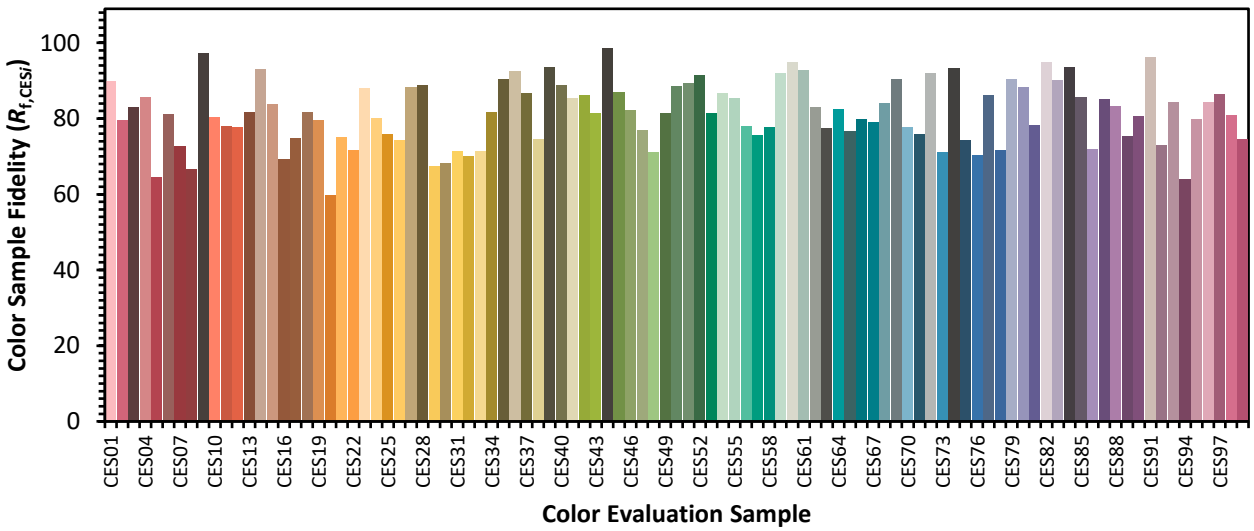
Individual Sample Fidelity Index ($R_{f,i}$)

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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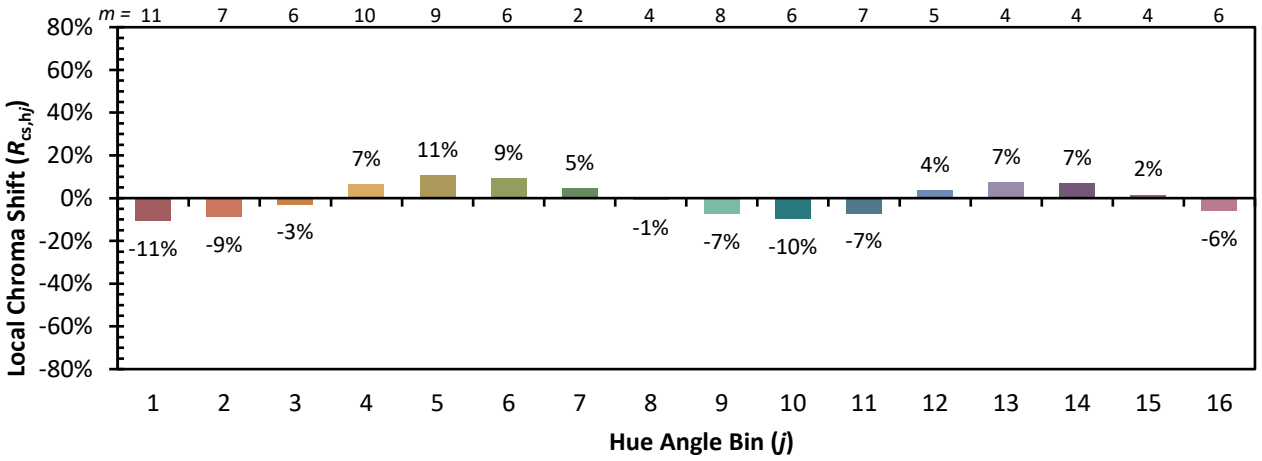
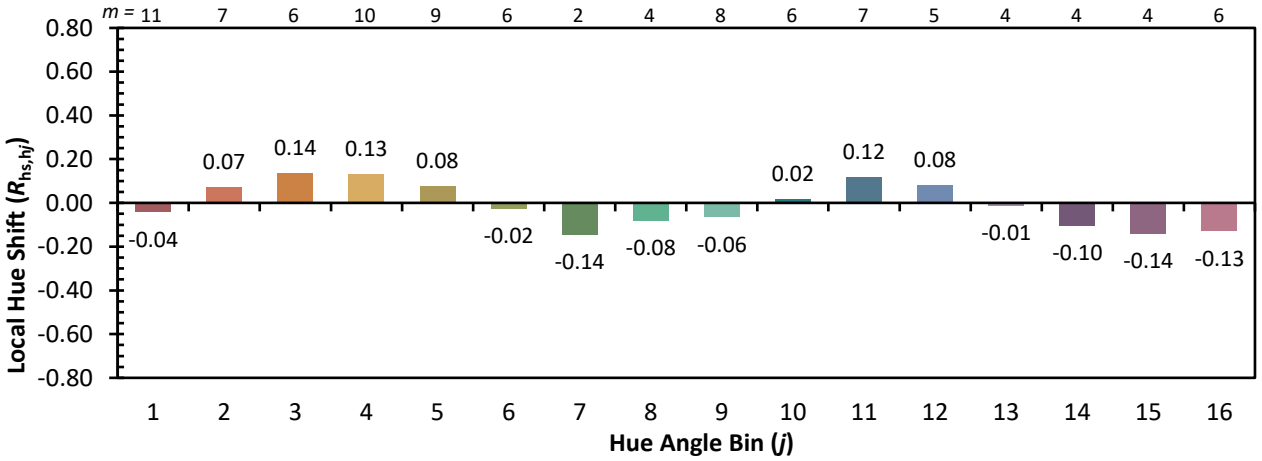
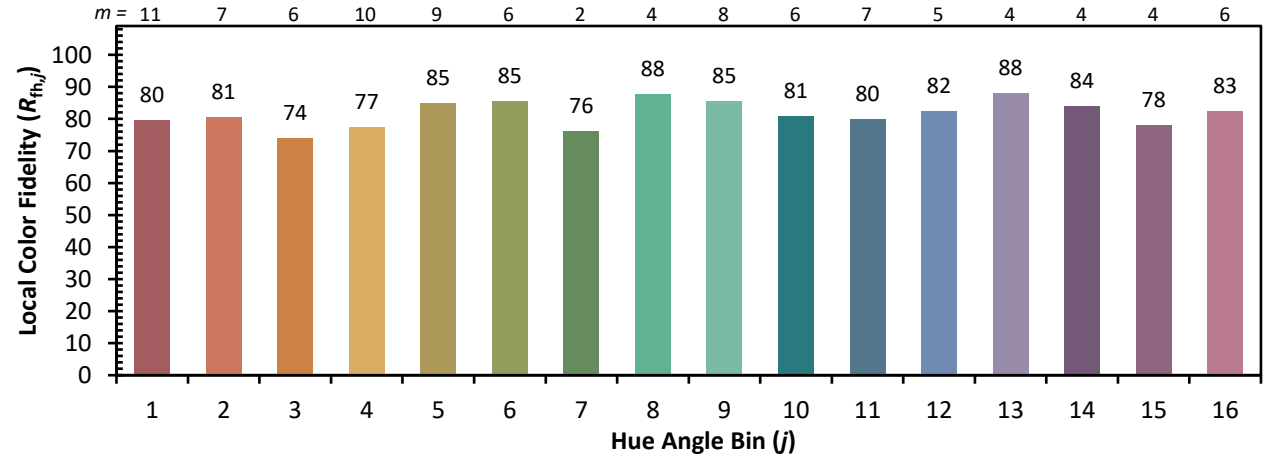
Color Rendition by Hue-Angle Bin







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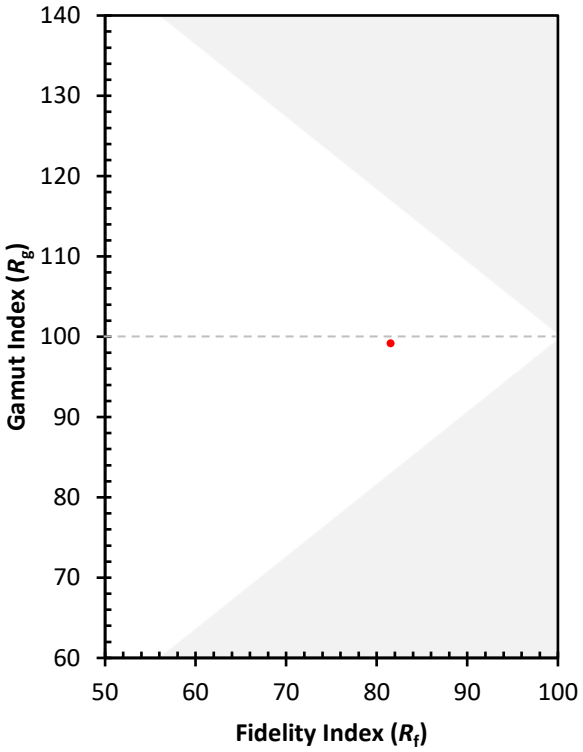
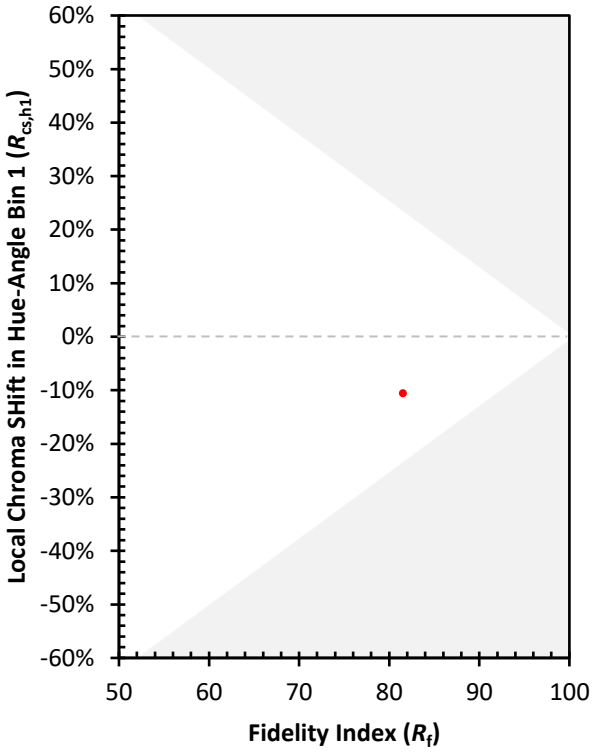
Measure Comparisons





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