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: P636482

Luminaire Tested: GWS-SA3F-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:	P636482
	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-SA3F-830-U-AFL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14628.5 lumens
Efficiency:	N/A
Efficacy:	79.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	183.2
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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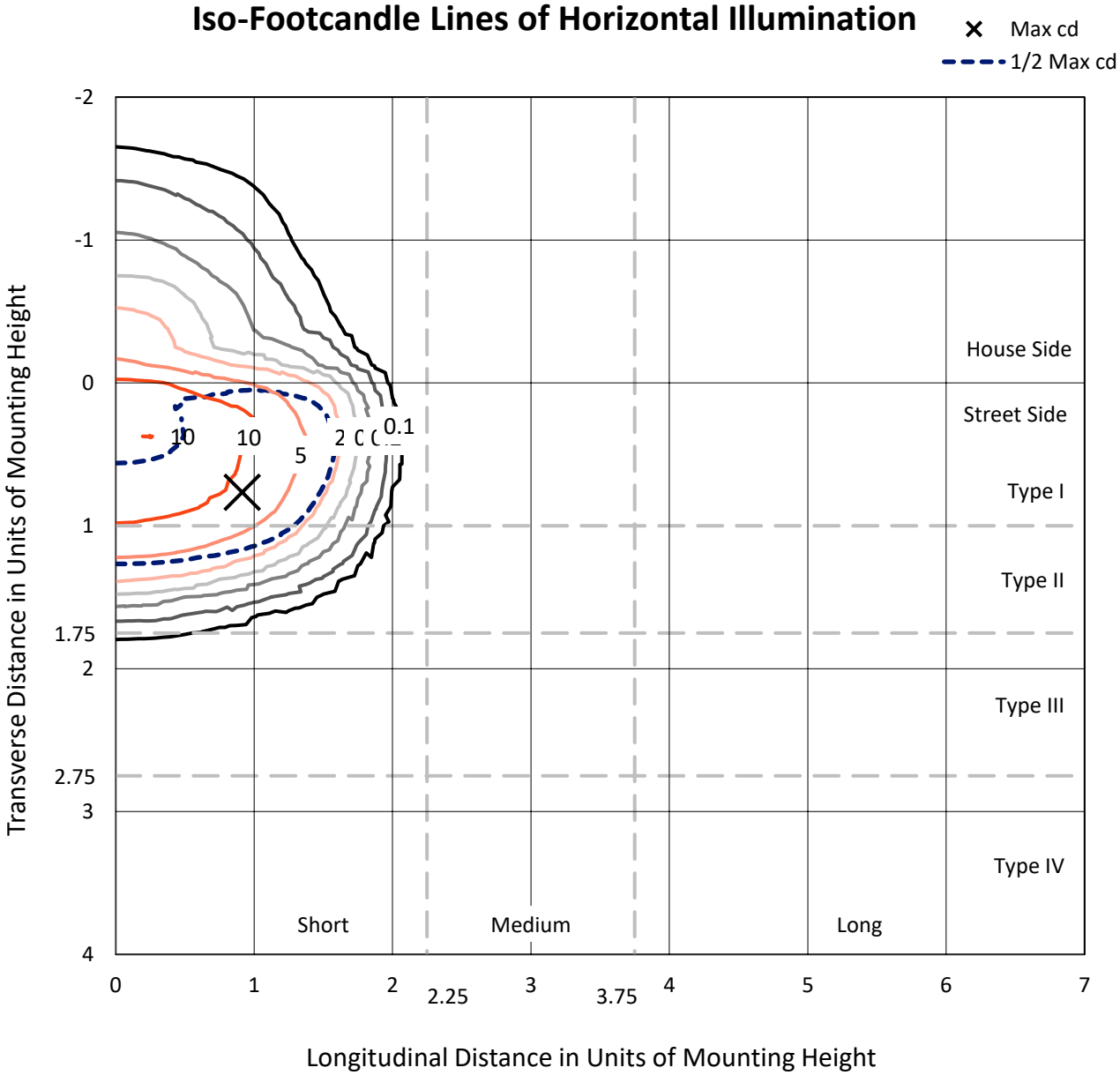
REPORT NUMBER: P636482
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 14.2 fc
Type II - Short - N/A

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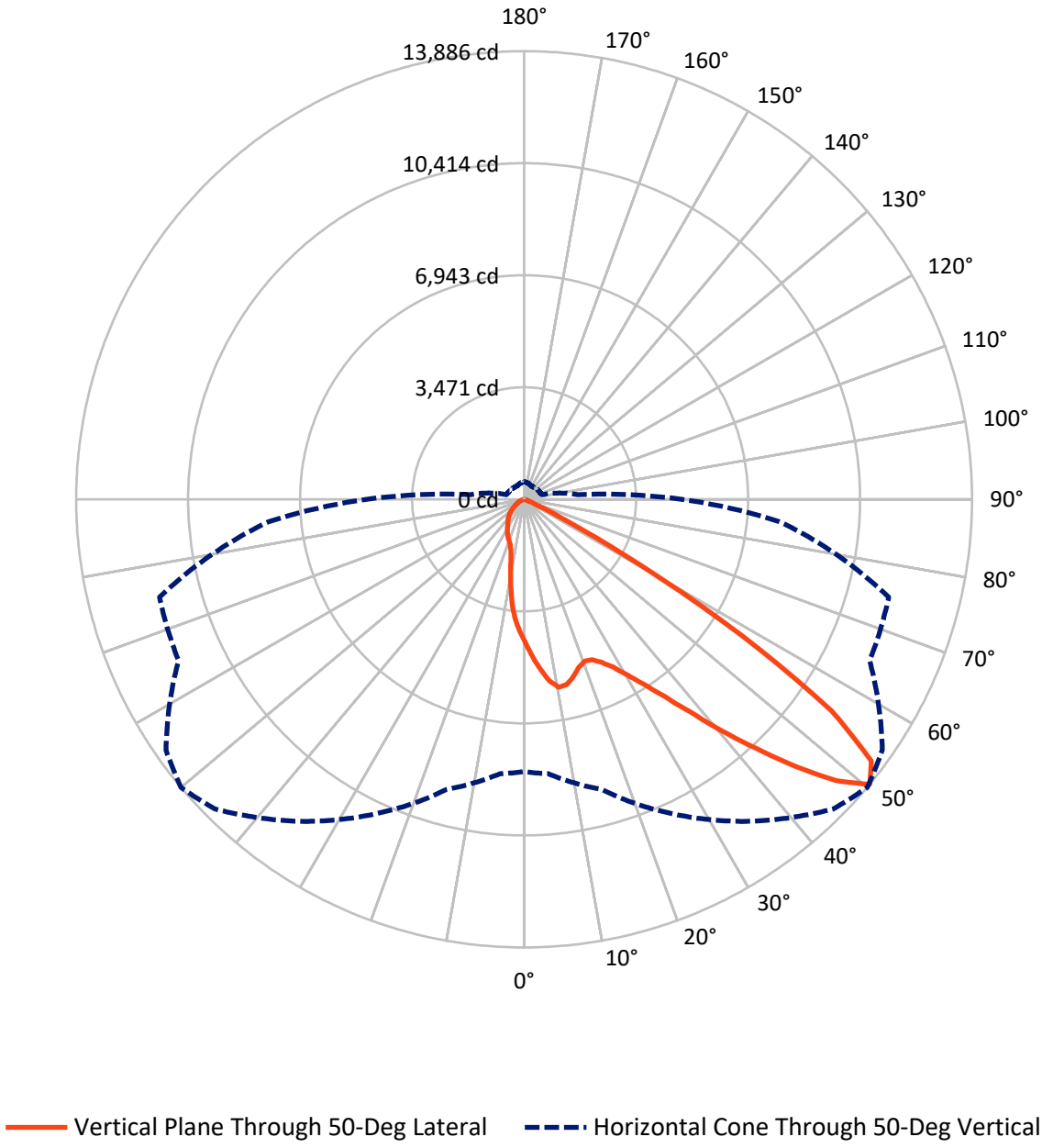
Luminous Intensity Polar Plot



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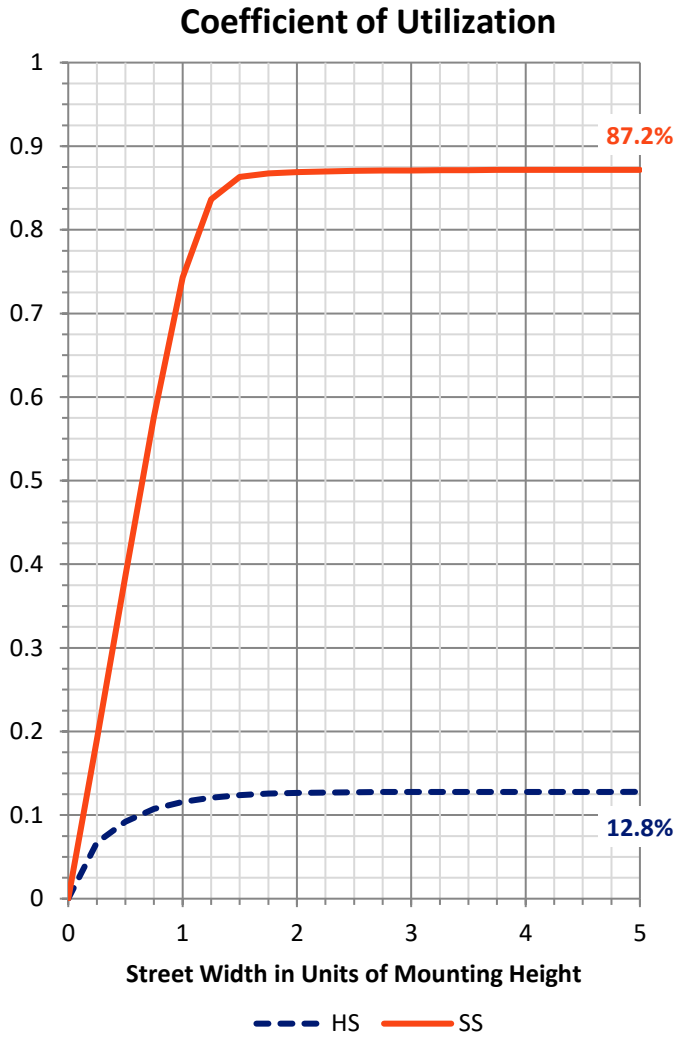
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.5	0.0	1879.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12749.0	0.0	12749.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	14628.5	0.0	14628.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	2.8
10°-20°	1060.7	7.3
20°-30°	1750.6	12.0
30°-40°	2888.8	19.7
40°-50°	4570.8	31.2
50°-60°	3460.6	23.7
60°-70°	433.1	3.0
70°-80°	49.0	0.3
80°-90°	3.8	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°	14628.5	100.0
0°-180°	14628.5	100.0



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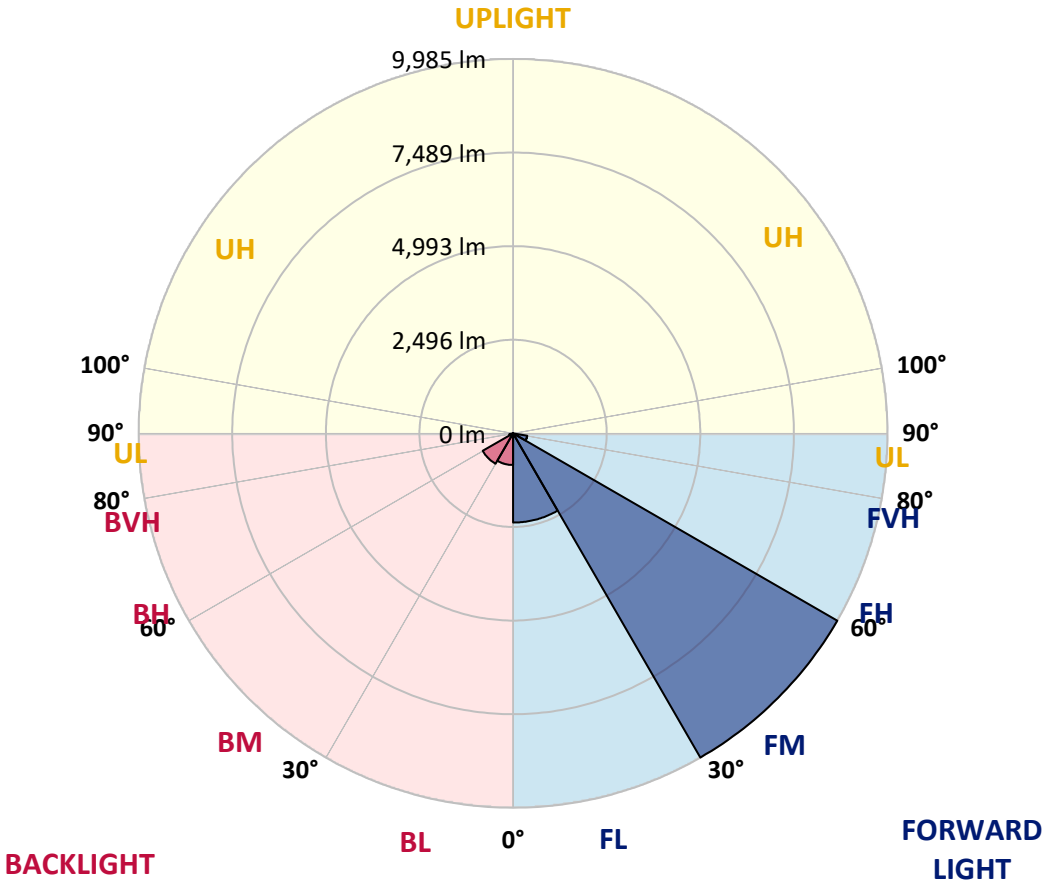
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2378.8	16.3			
FM	(30°-60°)	9985.5	68.3			
FH	(60°-80°)	382.9	2.6			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	843.6	5.8	B2/1000		
BM	(30°-60°)	934.7	6.4	B1/1000		
BH	(60°-80°)	99.2	0.7	B0/110		G0/110
BVH	(80°-90°)	2.0	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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Scaled Data Report

REPORT NUMBER: P636482
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	*4431.9*	4431.9	4431.9	4431.9	4431.9
2.5°	5050.1	5090.4	5079.3	5026.4	4969.3	4928.9	*4866.3*	4846.8	4704.8	4605.9	4501.5
5°	5659.9	5672.4	5658.5	5594.5	5494.2	5398.1	*5295.1*	5235.2	4997.1	4782.7	4564.1
7.5°	5806.1	5790.8	5817.2	5849.3	5835.3	5793.6	*5685.0*	5619.5	5335.5	4986.0	4654.6
10°	5349.4	5314.6	5413.5	5579.2	5753.2	5949.5	*5921.7*	5927.2	5665.5	5242.2	4773.0
12.5°	4743.7	4729.8	4803.6	4995.8	5336.9	5782.4	*5889.6*	6069.3	5967.6	5519.3	4908.0
15°	4477.8	4484.8	4529.3	4650.5	4895.5	5449.7	*5707.2*	6031.7	6237.7	5788.0	5057.0
17.5°	4518.2	4543.2	4541.8	4582.2	4731.2	5175.4	*5476.1*	5913.3	6446.6	6097.1	5228.3
20°	4792.5	4817.5	4779.9	4749.3	4799.4	5105.8	*5355.0*	5793.6	6587.2	6409.0	5409.3
22.5°	5203.2	5232.5	5143.3	5055.6	5023.6	5219.9	*5400.9*	5744.8	6694.4	6694.4	5570.8
25°	5700.3	5740.7	5602.8	5446.9	5357.8	5460.8	*5597.3*	5854.8	6804.4	6950.6	5680.8
27.5°	6255.8	6257.2	6138.9	5963.4	5796.4	5808.9	*5891.0*	6102.7	6925.6	7226.3	5767.1
30°	6881.0	6885.2	6727.8	6517.6	6307.4	6250.3	*6319.9*	6480.0	7177.6	7573.0	5886.9
32.5°	7688.6	7708.1	7482.5	7173.4	6900.5	6793.3	*6833.7*	7002.1	7578.6	8007.4	6066.5
35°	8780.2	8801.1	8468.3	8060.3	7625.9	7464.4	*7504.8*	7674.6	8159.2	8624.2	6353.3
37.5°	9857.8	9885.7	9548.7	9168.6	8572.7	8305.4	*8347.1*	8508.7	9030.8	9476.3	6812.8
40°	10602.8	10640.3	10535.9	10279.7	9727.0	9376.1	*9426.2*	9484.7	9990.1	10495.5	7408.7
42.5°	10995.4	11048.3	11092.9	11223.7	10932.7	10639.0	*10554.0*	10558.2	10966.2	11534.2	8028.3
45°	11019.1	11070.6	11298.9	11804.4	12025.7	11964.5	*11809.9*	11705.5	11711.1	12226.2	8415.4
47.5°	10253.3	10349.3	10776.8	11766.8	12599.4	13107.6	*13029.6*	12781.8	12024.3	12272.2	8373.6
50°	*8439.0*	*8533.7*	*9310.7*	*10735.0*	*12181.7*	*13564.3*	*13885.9*	*13553.1*	*11819.7*	*11699.9*	*7943.4*
52.5°	6129.1	6138.9	6642.9	8306.8	10488.6	12721.9	*13479.4*	13447.3	11507.8	11006.5	7355.8
55°	2911.4	2876.6	3443.3	4688.0	7254.1	10289.5	*11566.3*	11928.3	11065.0	10505.3	6900.5
57.5°	847.9	864.7	1116.7	1829.5	3628.5	6576.1	*7921.1*	8595.0	9082.3	8636.8	5352.2
60°	380.1	381.5	424.7	556.9	1208.6	3059.0	*4094.9*	4928.9	5430.2	5032.0	2655.2
62.5°	275.7	277.1	293.8	314.7	410.7	1035.9	*1535.8*	2046.8	2084.3	1364.5	672.5
65°	229.7	229.7	232.5	232.5	246.4	370.4	*466.4*	601.5	506.8	375.9	263.2
67.5°	185.2	186.6	189.4	189.4	185.2	185.2	*200.5*	220.0	235.3	291.0	242.3
70°	144.8	143.4	143.4	144.8	140.6	119.7	*129.5*	147.6	161.5	227.0	210.2
72.5°	112.8	114.2	112.8	107.2	97.5	71.0	*76.6*	96.1	103.0	142.0	142.0
75°	84.9	86.3	80.8	61.3	40.4	22.3	*29.2*	47.3	59.9	69.6	51.5
77.5°	11.1	11.1	8.4	8.4	7.0	8.4	*8.4*	11.1	16.7	16.7	12.5
80°	1.4	1.4	1.4	2.8	4.2	5.6	*5.6*	5.6	5.6	7.0	7.0
82.5°	1.4	1.4	1.4	1.4	4.2	4.2	*5.6*	5.6	5.6	5.6	5.6
85°	0.0	0.0	0.0	1.4	2.8	4.2	*4.2*	5.6	5.6	5.6	5.6
87.5°	0.0	0.0	0.0	1.4	2.8	4.2	*4.2*	4.2	5.6	5.6	5.6
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: P636482
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9
2.5°	4438.8	4358.1	4260.6	4193.8	4099.1	4036.4	3947.3	3887.4	3835.9	3795.5	3817.8
5°	4440.2	4312.1	4113.0	3943.1	3758.0	3588.1	3405.7	3262.3	3132.8	3074.3	3106.3
7.5°	4468.1	4284.3	3979.3	3677.2	3322.2	2971.3	2642.7	2375.4	2243.1	2180.4	2199.9
10°	4522.4	4271.7	3830.4	3329.1	2752.7	2273.7	1954.9	1773.9	1700.1	1661.1	1668.0
12.5°	4572.5	4263.4	3636.8	2871.0	2172.1	1764.1	1598.4	1573.4	1588.7	1590.1	1588.7
15°	4640.7	4248.1	3397.3	2400.4	1737.7	1524.6	1528.8	1565.0	1601.2	1612.3	1609.6
17.5°	4713.1	4224.4	3088.2	1949.3	1474.5	1455.0	1503.7	1552.5	1588.7	1594.2	1595.6
20°	4788.3	4175.7	2736.0	1591.5	1352.0	1402.1	1456.4	1492.6	1519.1	1527.4	1530.2
22.5°	4823.1	4072.6	2329.4	1335.3	1269.8	1336.7	1377.0	1424.4	1432.7	1402.1	1407.7
25°	4805.0	3898.6	1932.6	1162.6	1187.7	1254.5	1314.4	1290.7	1255.9	1233.6	1240.6
27.5°	4747.9	3667.5	1544.1	1035.9	1100.0	1184.9	1191.9	1165.4	1159.8	1141.7	1147.3
30°	4686.7	3401.5	1242.0	934.3	1010.8	1100.0	1079.1	1088.8	1090.2	1069.3	1076.3
32.5°	4649.1	3123.0	988.6	866.0	953.8	970.5	1012.2	1031.7	1033.1	984.4	992.7
35°	4661.6	2848.8	836.8	810.3	900.9	896.7	955.2	966.3	885.5	818.7	825.7
37.5°	4763.2	2595.3	750.5	767.2	809.0	841.0	885.5	811.7	793.6	763.0	767.2
40°	4952.6	2379.5	699.0	740.7	746.3	797.8	729.6	739.3	740.7	721.2	725.4
42.5°	5174.0	2199.9	668.3	725.4	711.5	719.8	651.6	671.1	692.0	683.6	685.0
45°	5285.4	2024.5	641.9	672.5	676.7	597.3	582.0	602.9	629.3	633.5	634.9
47.5°	5186.5	1857.4	614.0	595.9	623.8	544.4	526.3	533.3	563.9	580.6	583.4
50°	*4884.4*	*1665.3*	*572.3*	*527.7*	*512.4*	*488.7*	*472.0*	*473.4*	*508.2*	*537.4*	*543.0*
52.5°	4459.7	1464.8	504.0	446.9	412.1	430.2	434.4	426.1	458.1	487.3	492.9
55°	4047.6	1214.1	399.6	363.4	331.4	370.4	381.5	370.4	380.1	399.6	401.0
57.5°	2850.1	686.4	306.3	300.7	274.3	317.5	335.6	318.8	302.1	314.7	317.5
60°	1321.3	359.2	235.3	235.3	228.3	272.9	303.5	279.9	247.8	253.4	257.6
62.5°	413.5	227.0	172.7	162.9	186.6	232.5	257.6	233.9	196.3	196.3	201.9
65°	233.9	194.9	136.5	125.3	151.8	186.6	201.9	176.8	143.4	140.6	140.6
67.5°	217.2	185.2	121.1	101.6	107.2	119.7	125.3	108.6	98.9	97.5	98.9
70°	179.6	154.6	97.5	69.6	65.4	64.0	66.8	62.7	59.9	61.3	65.4
72.5°	111.4	93.3	61.3	41.8	36.2	34.8	34.8	34.8	33.4	33.4	33.4
75°	40.4	34.8	27.8	20.9	18.1	16.7	16.7	18.1	16.7	15.3	13.9
77.5°	12.5	11.1	11.1	11.1	9.7	8.4	7.0	7.0	5.6	4.2	4.2
80°	7.0	7.0	7.0	7.0	5.6	5.6	4.2	2.8	1.4	1.4	0.0
82.5°	7.0	7.0	7.0	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	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

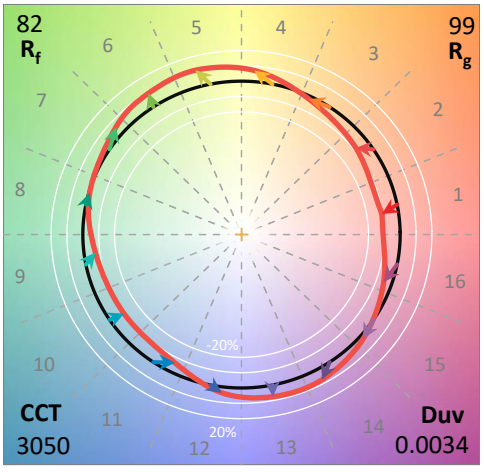
Test Information

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

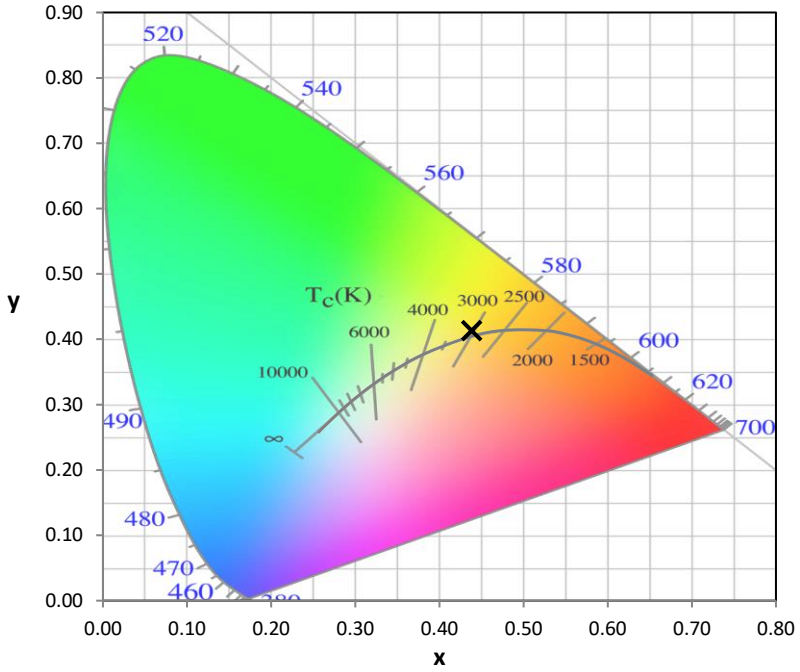
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

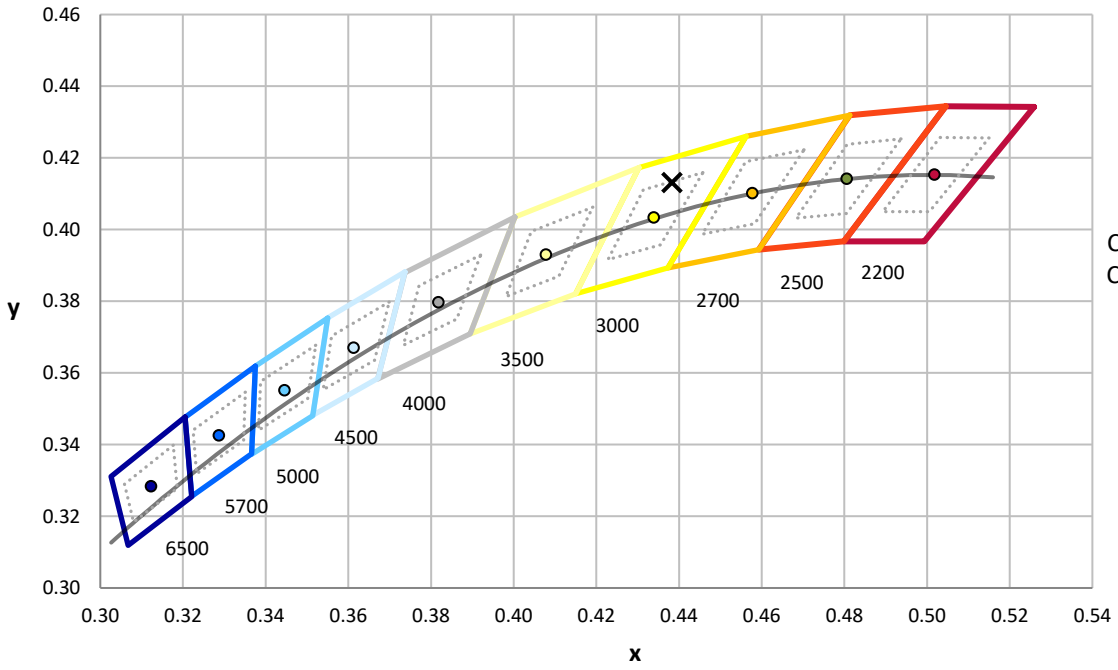
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

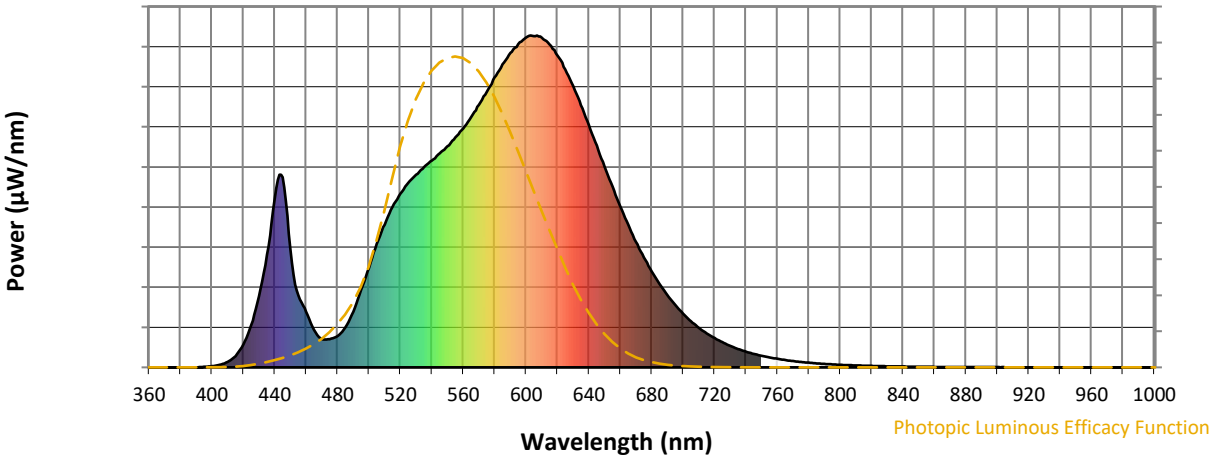


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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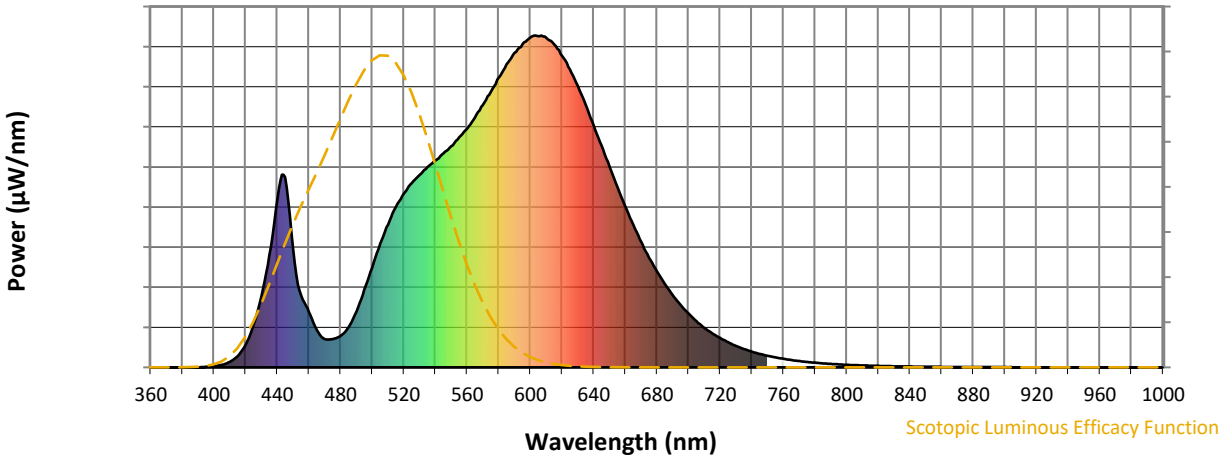
Scotopic Flux vs. Wavelength



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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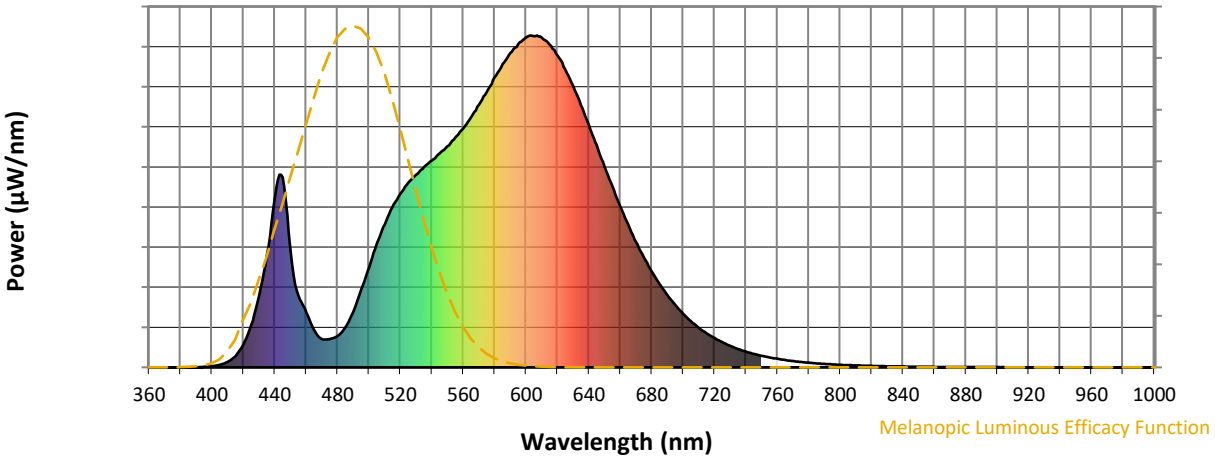
Melanopic Flux vs. Wavelength



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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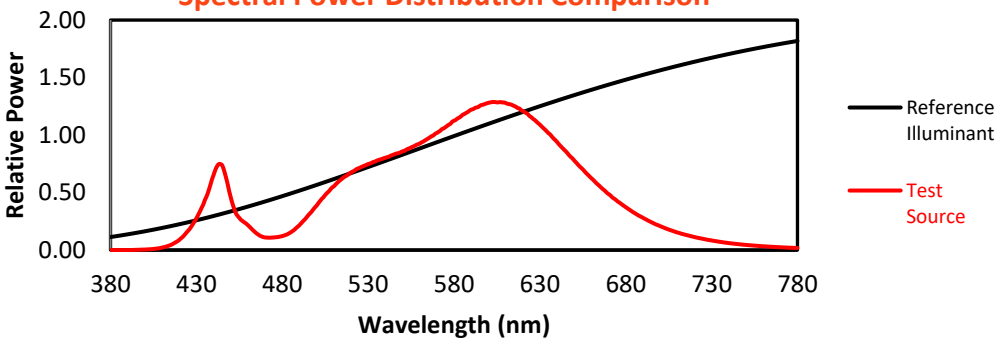
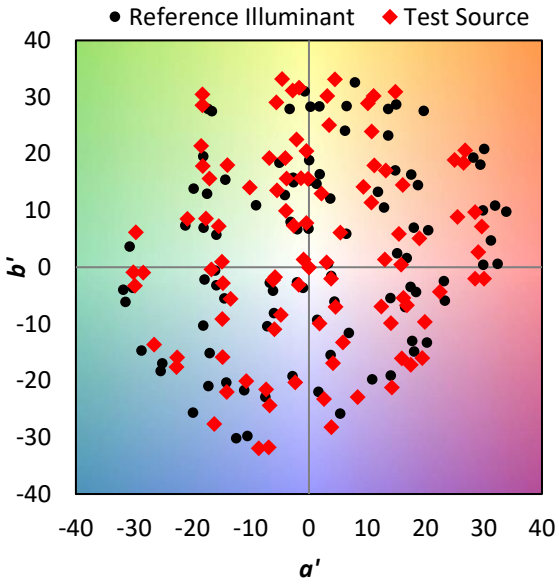
Summary

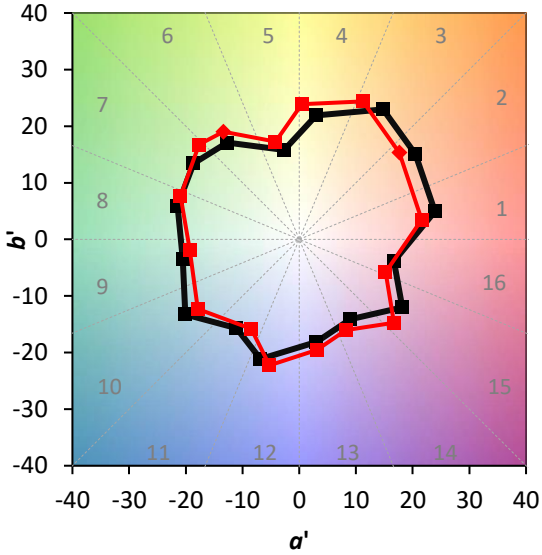
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

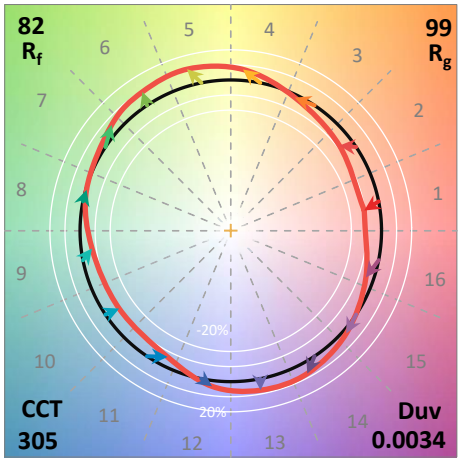
Spectral Power Distribution Comparison

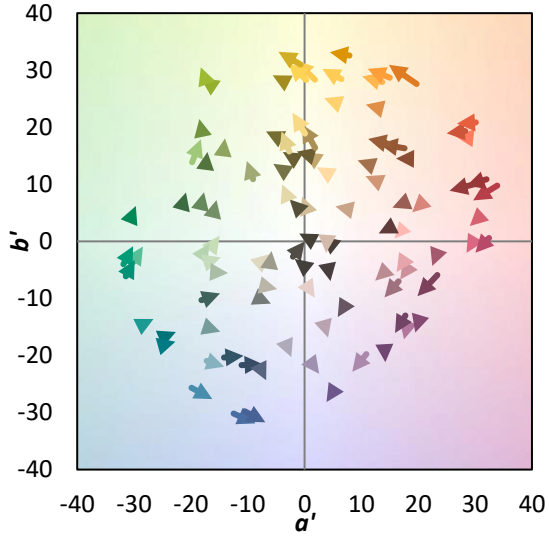


Color Vector Graphics









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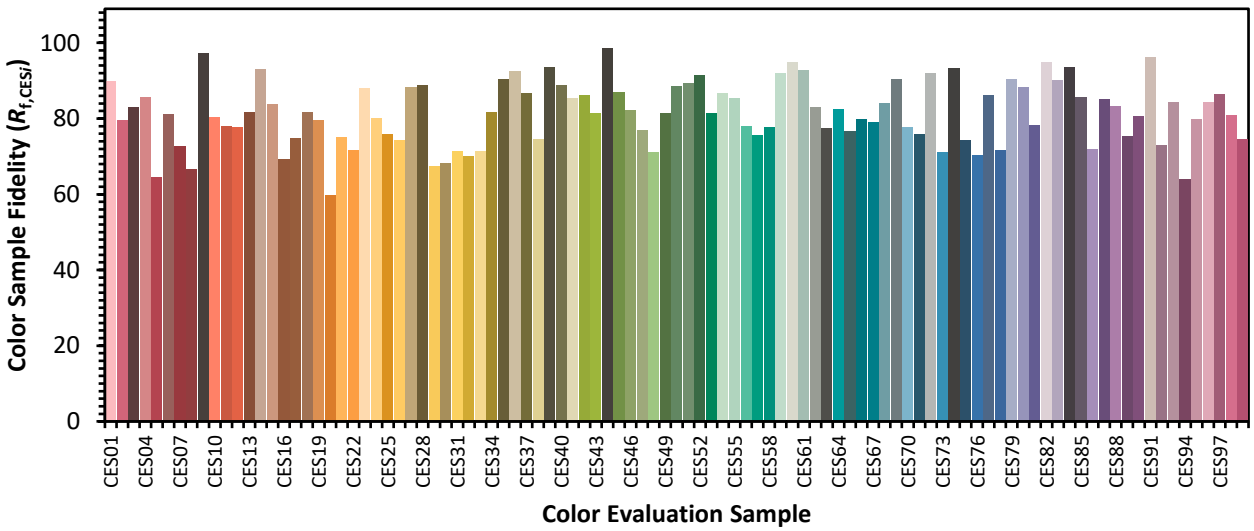
Individual Sample Fidelity Index ($R_{f,i}$)

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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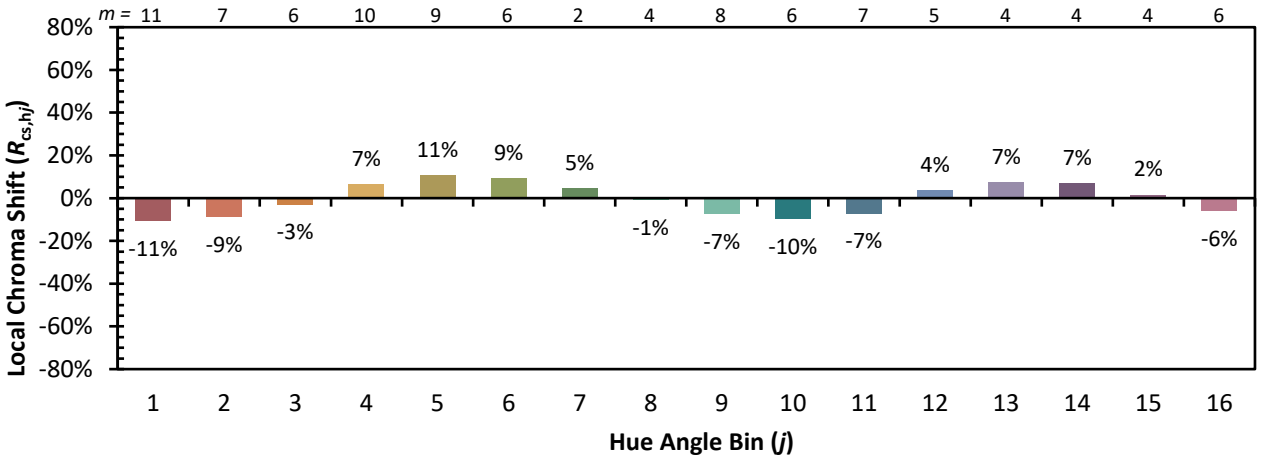
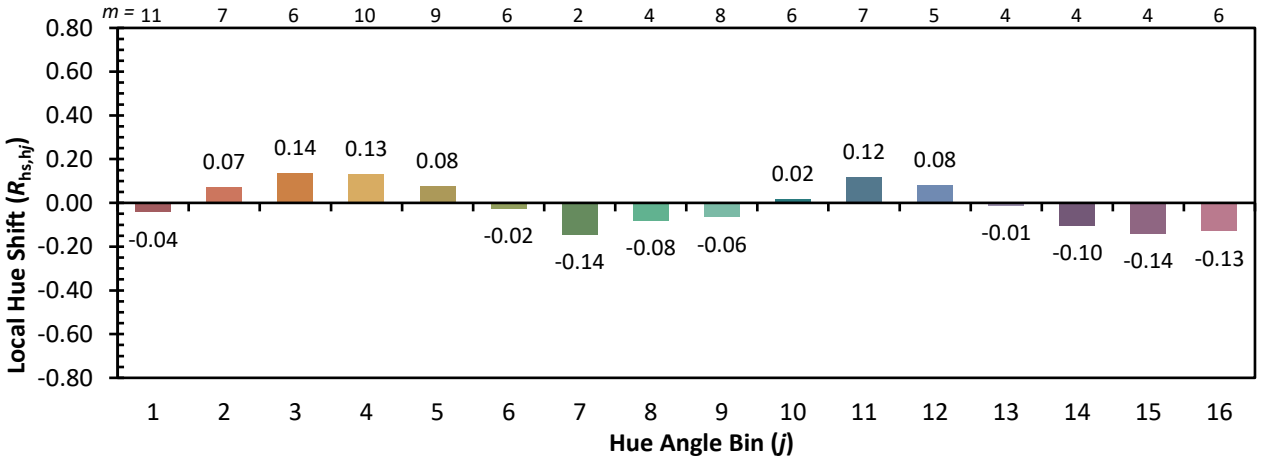
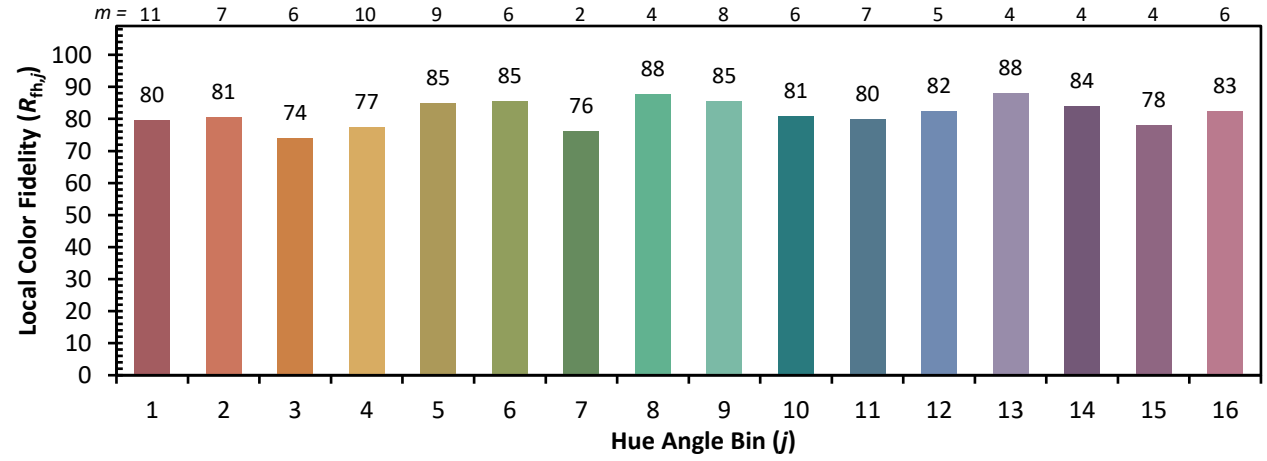
Color Rendition by Hue-Angle Bin







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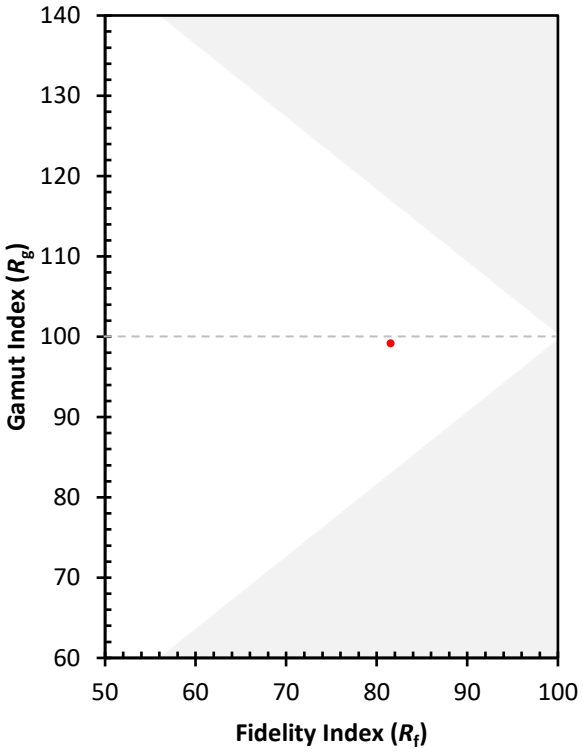
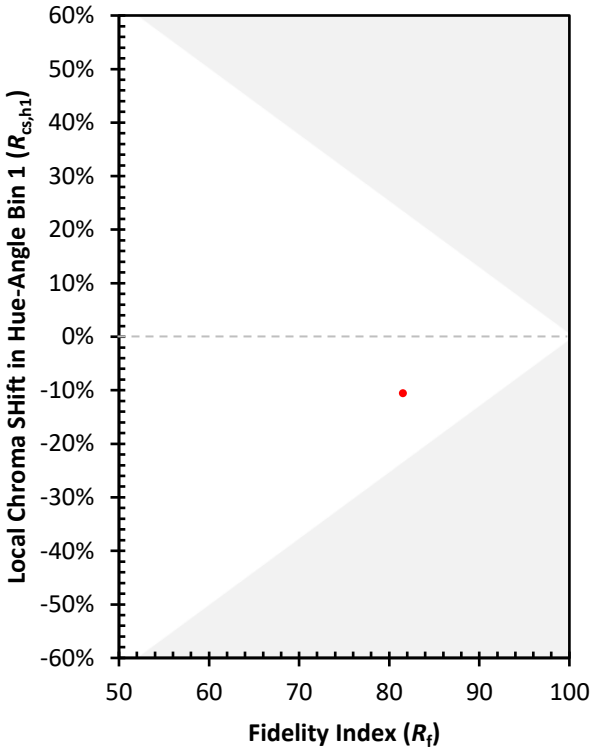
Measure Comparisons





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