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: P634037

Luminaire Tested: GWS-SA2F-830-U-T2R-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:	P634037
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8638.8 lumens
Efficiency:	N/A
Efficacy:	69.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	124.5
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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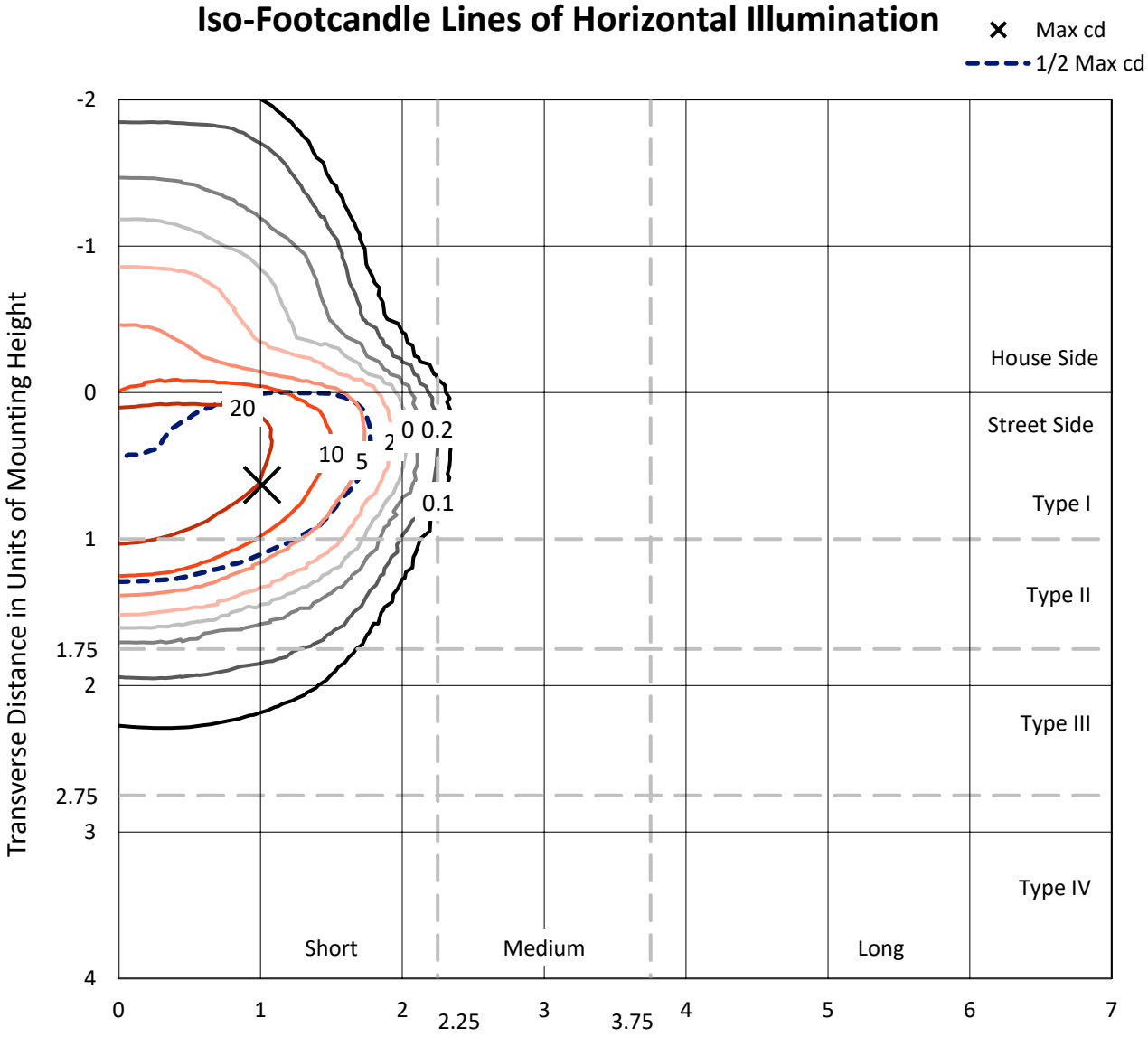
REPORT NUMBER: P634037
CATALOG NUMBER: GWS-SA2F-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 31.7 fc
Type II - Short - N/A

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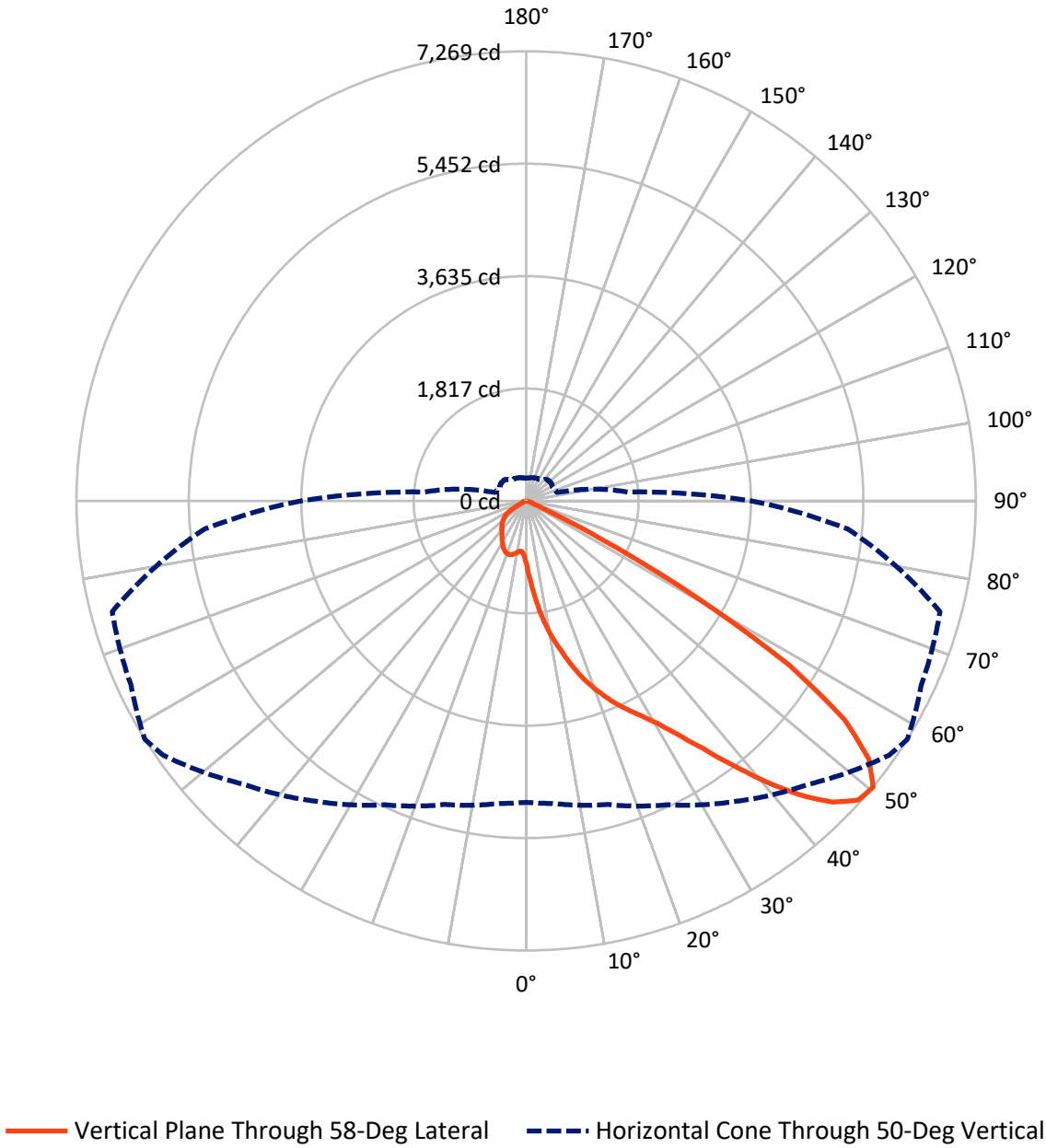
Luminous Intensity Polar Plot



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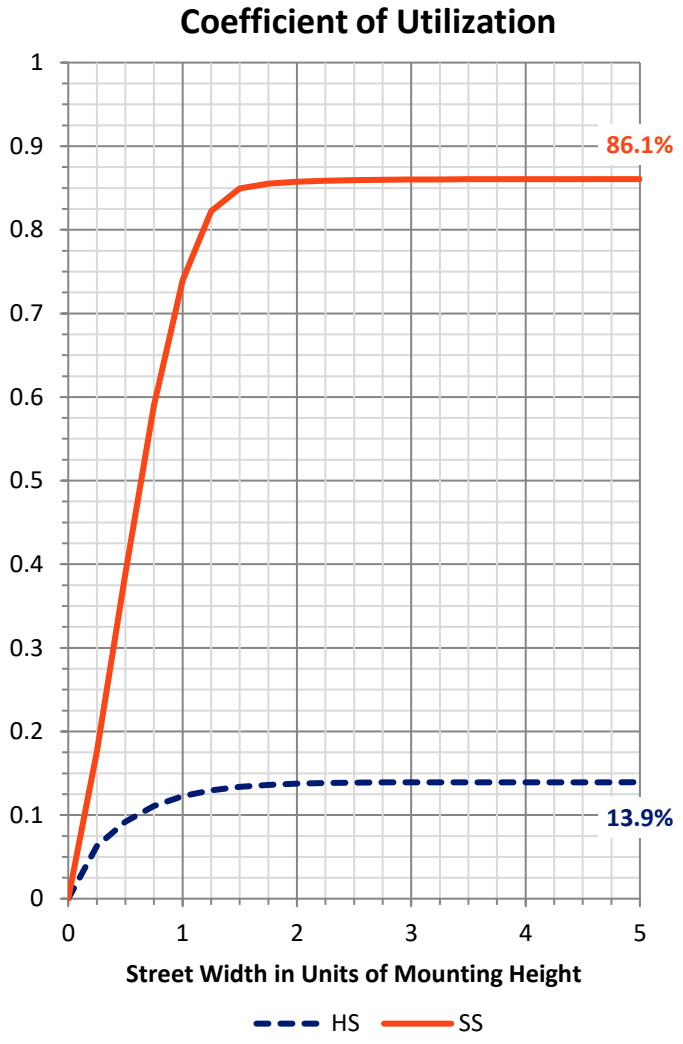
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.0	0.0	1210.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7428.8	0.0	7428.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	8638.8	0.0	8638.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.5
10°-20°	506.1	5.9
20°-30°	1024.0	11.9
30°-40°	1811.6	21.0
40°-50°	2641.0	30.6
50°-60°	2116.8	24.5
60°-70°	381.4	4.4
70°-80°	30.1	0.3
80°-90°	0.0	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°	8638.8	100.0
0°-180°	8638.8	100.0



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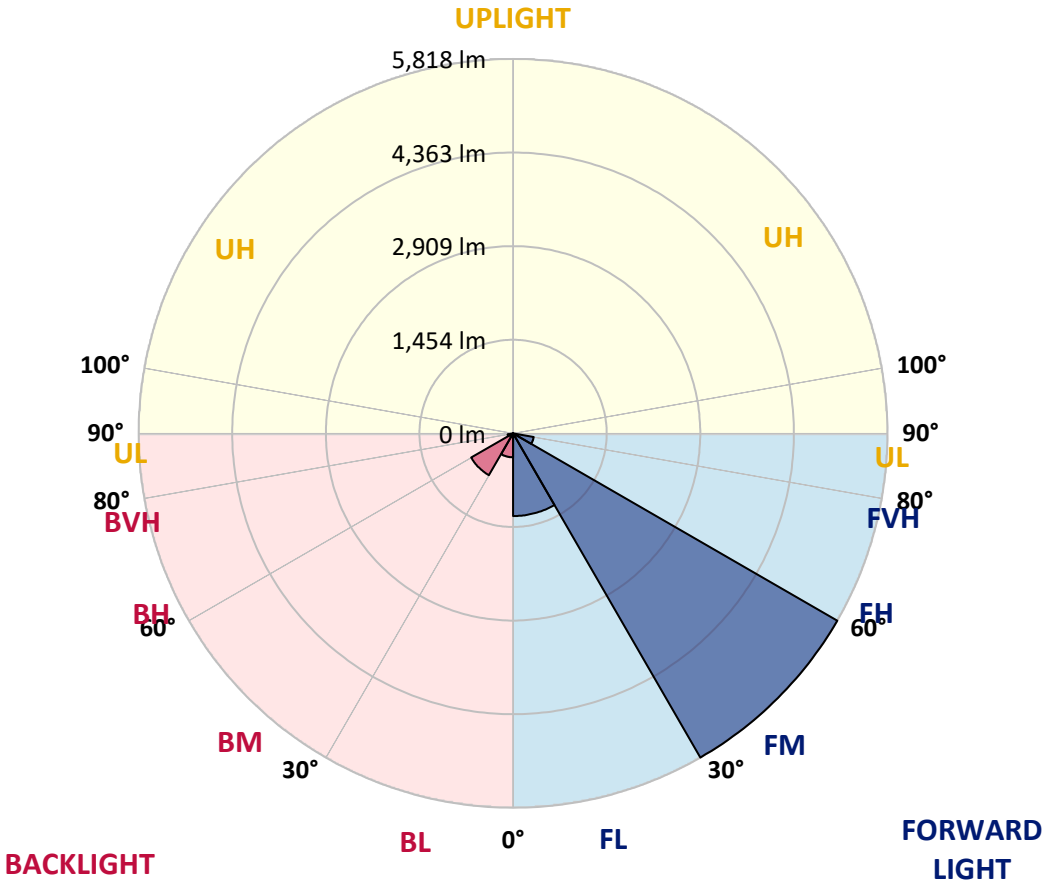
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1285.4	14.9			
FM	(30°-60°)	5818.0	67.3			
FH	(60°-80°)	325.4	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	372.5	4.3	B1/500		
BM	(30°-60°)	751.5	8.7	B1/1000		
BH	(60°-80°)	86.0	1.0	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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Scaled Data Report

REPORT NUMBER: P634037
CATALOG NUMBER: GWS-SA2F-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	*1031.9*	1031.9	1031.9	1031.9
2.5°	1527.0	1503.0	1489.2	1478.1	1429.1	1351.5	1300.7	*1273.9*	1229.6	1154.8	1090.1
5°	1992.6	1975.1	1942.8	1920.6	1857.8	1747.8	1634.2	*1588.9*	1488.2	1319.2	1167.7
7.5°	2301.2	2288.3	2276.3	2246.7	2187.6	2087.8	1962.2	*1915.0*	1759.8	1519.7	1271.2
10°	2538.6	2528.5	2514.6	2513.7	2467.5	2377.9	2255.0	*2206.0*	2037.9	1737.7	1393.1
12.5°	2747.4	2739.1	2736.3	2762.2	2732.6	2666.1	2533.1	*2472.1*	2293.8	1960.3	1528.0
15°	2890.6	2888.7	2900.7	2951.6	2968.2	2937.7	2825.9	*2760.3*	2555.2	2183.9	1676.7
17.5°	2956.2	2961.7	2984.8	3072.6	3146.5	3172.3	3086.4	*3031.0*	2814.8	2410.2	1835.6
20°	3068.0	3066.1	3080.0	3163.1	3253.6	3346.0	3320.2	*3273.0*	3077.2	2649.5	2012.0
22.5°	3383.0	3356.2	3326.6	3339.6	3371.9	3480.0	3528.0	*3504.0*	3347.9	2895.2	2194.0
25°	3867.0	3839.3	3744.2	3651.8	3590.8	3639.8	3705.4	*3717.4*	3616.7	3147.4	2384.3
27.5°	4380.7	4355.7	4248.6	4110.0	3935.4	3850.4	3899.4	*3923.4*	3880.9	3447.6	2586.7
30°	4862.0	4828.7	4711.4	4539.6	4337.3	4207.0	4151.6	*4168.2*	4193.1	3803.3	2824.1
32.5°	5279.5	5254.6	5114.2	4933.1	4738.2	4602.4	4473.1	*4500.8*	4561.7	4238.4	3128.0
35°	5633.4	5620.4	5471.7	5291.6	5085.5	5016.3	4905.4	*4910.9*	4971.9	4764.1	3498.4
37.5°	5941.0	5918.8	5783.9	5616.7	5453.2	5442.1	5411.6	*5414.4*	5445.8	5376.5	3924.3
40°	6135.0	6114.7	6018.6	5915.1	5798.7	5800.6	5958.5	*5970.5*	5934.5	5977.9	4374.2
42.5°	6208.0	6193.2	6141.5	6142.4	6130.4	6184.9	6481.4	*6503.6*	6374.3	6450.0	4758.5
45°	6081.4	6074.9	6078.6	6211.7	6355.8	6523.9	6909.1	*6947.9*	6765.0	6763.2	5058.8
47.5°	5673.1	5660.2	5768.2	5994.6	6328.1	6655.1	7167.8	*7227.8*	7038.5	6942.4	5247.2
50°	*4873.1*	*4910.0*	*5080.9*	*5420.9*	*5928.1*	*6474.9*	*7165.0*	*7269.4*	*7048.6*	*6926.7*	*5215.8*
52.5°	3529.9	3522.5	3896.6	4364.1	4981.2	5898.5	6784.4	*6936.8*	6802.0	6772.4	5145.6
55°	1920.6	1988.0	2240.2	2859.2	3629.6	4807.5	5915.1	*6247.7*	6403.8	6716.1	5272.2
57.5°	705.8	735.3	893.3	1331.2	1921.5	2989.4	4518.3	*5020.0*	5502.2	6559.0	5250.9
60°	284.5	290.1	352.9	489.6	807.4	1521.5	2710.4	*3155.7*	3610.2	5020.9	4029.6
62.5°	206.9	214.3	239.3	286.4	408.3	665.1	1168.6	*1358.9*	1485.5	2486.9	1985.3
65°	167.2	172.8	193.1	214.3	269.8	357.5	376.9	*363.1*	361.2	643.0	455.4
67.5°	138.6	144.1	158.9	173.7	194.0	178.3	129.3	*135.8*	110.9	109.9	89.6
70°	101.6	108.1	122.9	138.6	116.4	48.0	74.8	*110.9*	84.1	70.2	68.4
72.5°	76.7	81.3	95.2	90.5	34.2	18.5	49.9	*80.4*	64.7	51.7	50.8
75°	57.3	60.0	48.0	14.8	3.7	4.6	18.5	*33.3*	36.0	29.6	29.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	*2.8*	3.7	4.6	5.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	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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Scaled Data Report

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CATALOG NUMBER: GWS-SA2F-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9
2.5°	1053.1	1014.3	958.9	912.7	877.6	843.4	817.6	791.7	790.8	777.8	775.1
5°	1097.5	1027.3	925.7	852.7	808.3	781.5	763.1	753.8	749.2	744.6	742.7
7.5°	1161.2	1060.5	920.1	842.5	805.6	788.0	775.1	769.5	766.8	763.1	762.1
10°	1239.7	1108.6	940.4	861.9	829.6	812.9	799.1	790.8	786.2	779.7	777.8
12.5°	1334.0	1167.7	972.8	894.2	860.1	837.9	819.4	807.4	800.9	792.6	790.8
15°	1435.6	1231.4	1008.8	923.8	883.2	854.5	831.4	812.9	800.9	790.8	788.0
17.5°	1540.9	1296.1	1041.1	944.1	894.2	860.1	826.8	801.9	787.1	774.1	770.5
20°	1659.2	1362.6	1062.4	947.8	890.5	845.3	806.5	775.1	760.3	742.7	739.0
22.5°	1782.9	1424.5	1071.6	939.5	870.2	817.6	776.0	743.7	722.4	703.9	698.4
25°	1903.0	1479.9	1067.0	916.4	839.7	778.8	736.3	703.0	679.9	661.4	656.8
27.5°	2030.5	1526.1	1050.4	882.2	798.2	736.3	695.6	667.0	645.7	625.4	620.8
30°	2173.7	1568.6	1023.6	840.7	749.2	692.9	661.4	642.0	618.9	597.7	591.2
32.5°	2346.5	1606.5	984.8	790.8	705.8	655.0	637.4	622.6	595.9	573.7	569.1
35°	2544.2	1637.9	935.8	739.0	663.3	631.0	627.3	607.9	572.8	546.9	541.3
37.5°	2773.3	1668.4	877.6	688.2	631.9	619.9	620.8	587.5	545.0	513.6	509.9
40°	3019.9	1698.9	812.9	643.9	603.2	613.4	605.1	558.0	488.7	458.2	454.5
42.5°	3276.7	1732.1	747.4	602.3	579.2	588.5	576.5	498.9	449.0	433.3	431.4
45°	3508.6	1771.9	676.2	560.7	555.2	552.4	532.1	451.7	430.5	419.4	418.5
47.5°	3675.8	1765.4	600.5	521.0	529.3	520.1	458.2	429.6	412.0	397.2	393.5
50°	*3645.3*	*1652.7*	*521.9*	*476.7*	*496.1*	*487.8*	*412.0*	*403.7*	*388.0*	*372.3*	*366.8*
52.5°	3567.7	1499.3	453.6	429.6	460.1	440.7	380.6	372.3	358.4	338.1	331.6
55°	3609.3	1355.2	400.0	391.7	423.1	364.9	345.5	332.6	317.8	295.6	292.8
57.5°	3475.4	1105.8	321.5	327.0	374.1	311.3	303.0	282.7	257.7	243.0	241.1
60°	2405.6	594.0	201.4	207.9	270.7	261.4	271.6	253.1	222.6	208.8	206.0
62.5°	1104.9	238.3	109.9	105.3	142.3	177.4	232.8	231.0	193.1	170.9	169.1
65°	267.9	109.0	78.5	73.9	80.4	106.2	151.5	182.0	156.1	130.3	127.5
67.5°	86.8	88.7	72.1	67.4	71.1	79.4	90.5	100.7	99.8	91.5	89.6
70°	69.3	80.4	66.5	61.0	61.0	63.7	61.0	49.0	42.5	46.2	48.0
72.5°	51.7	61.0	52.7	47.1	45.3	44.3	37.9	27.7	19.4	17.6	16.6
75°	30.5	34.2	32.3	27.7	25.9	23.1	18.5	12.0	6.5	4.6	2.8
77.5°	5.5	6.5	7.4	5.5	4.6	3.7	2.8	0.9	0.0	0.0	0.0
80°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

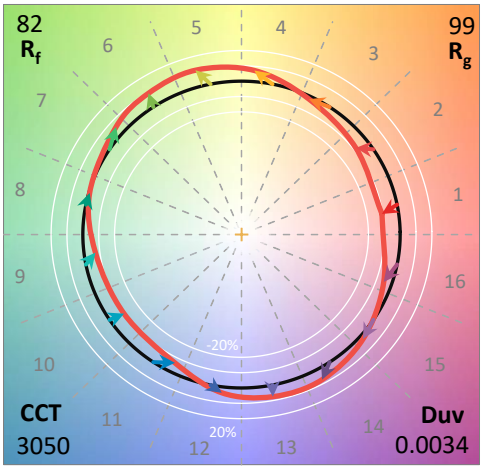
Test Information

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

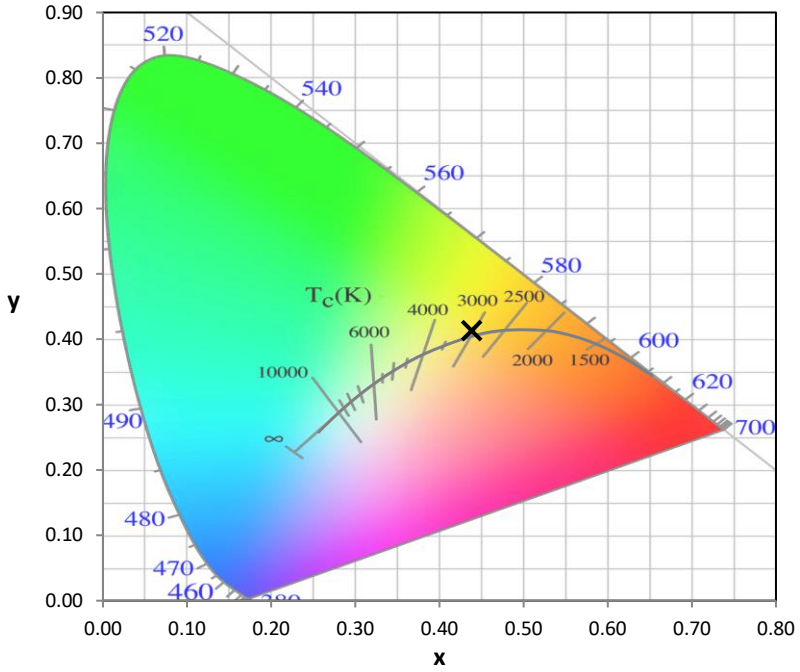
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

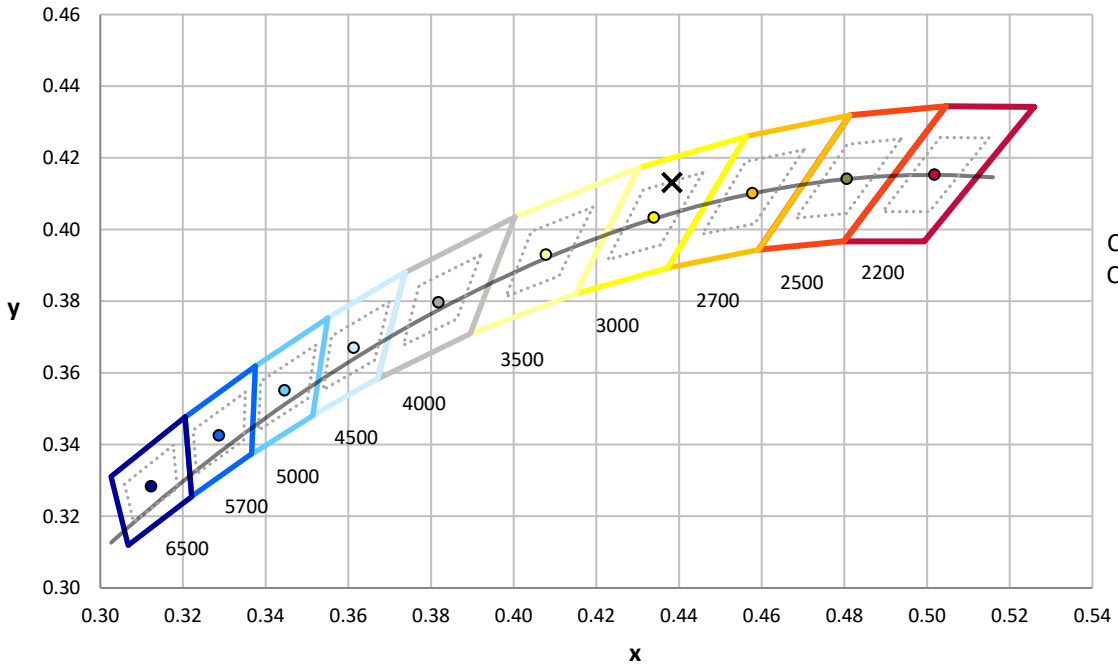
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

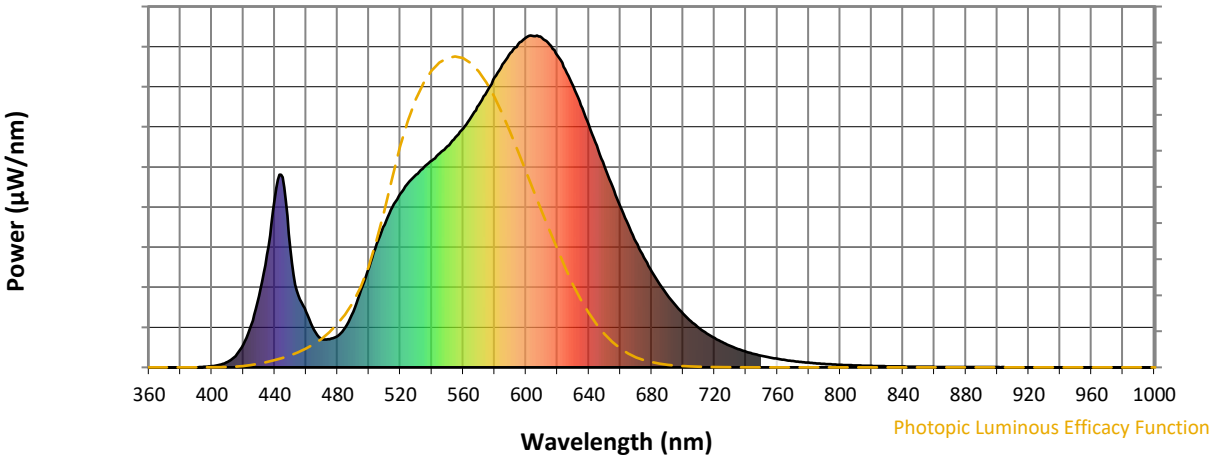


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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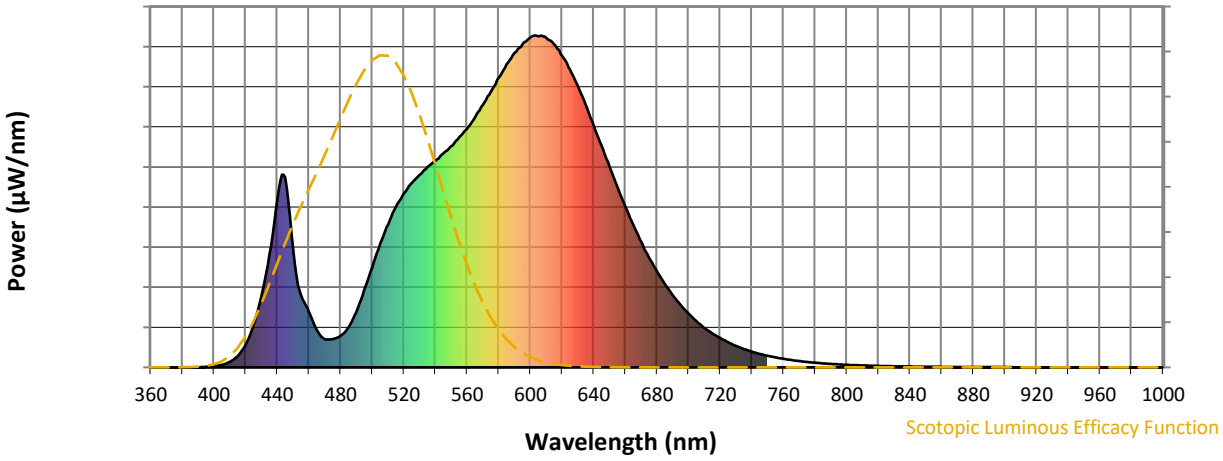
Scotopic Flux vs. Wavelength



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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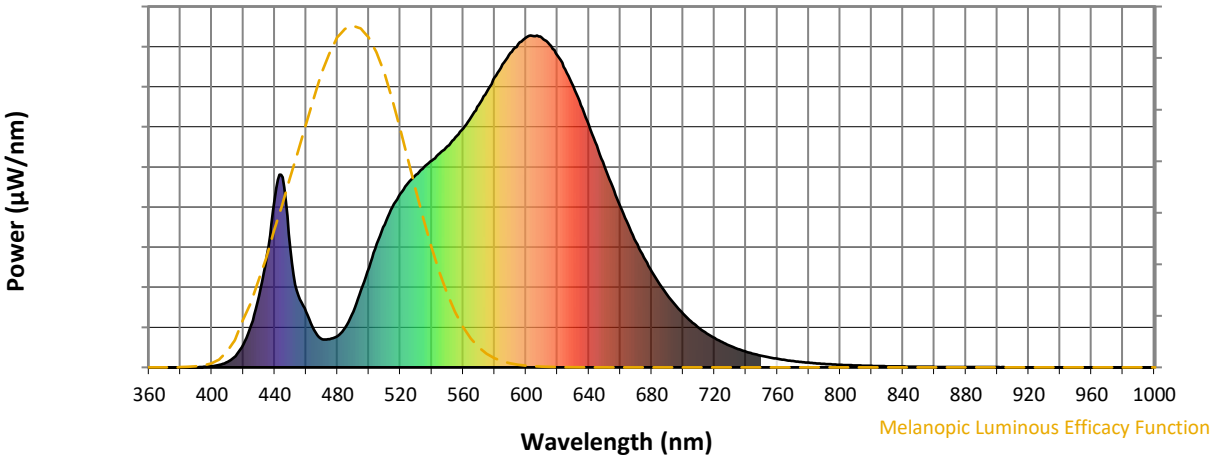
Melanopic Flux vs. Wavelength



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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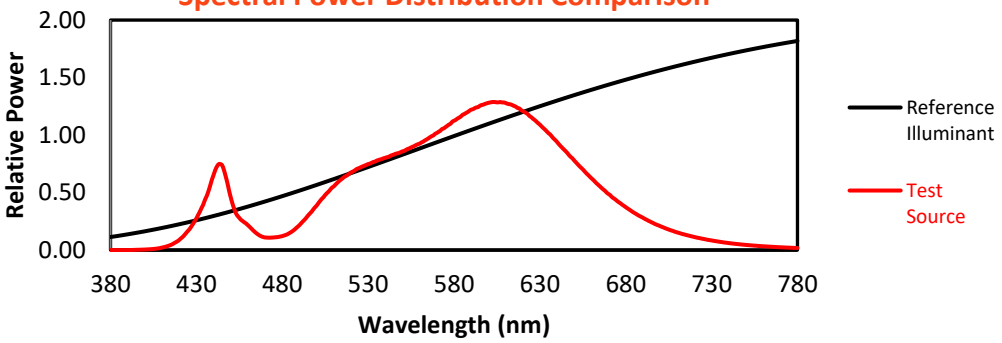
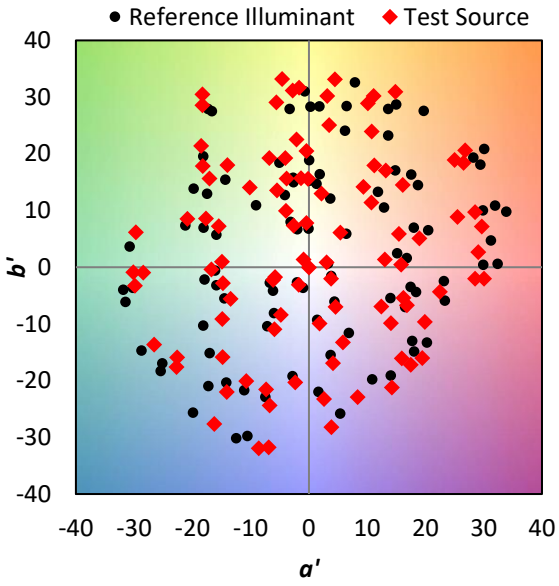
Summary

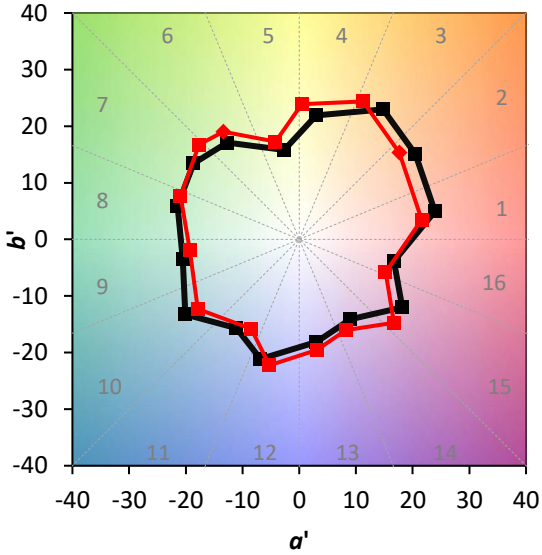
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

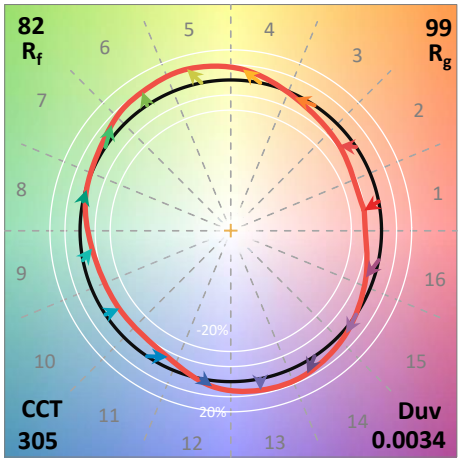
Spectral Power Distribution Comparison

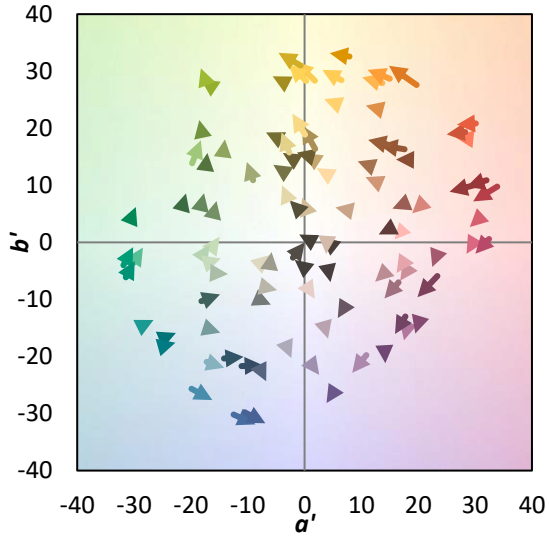


Color Vector Graphics









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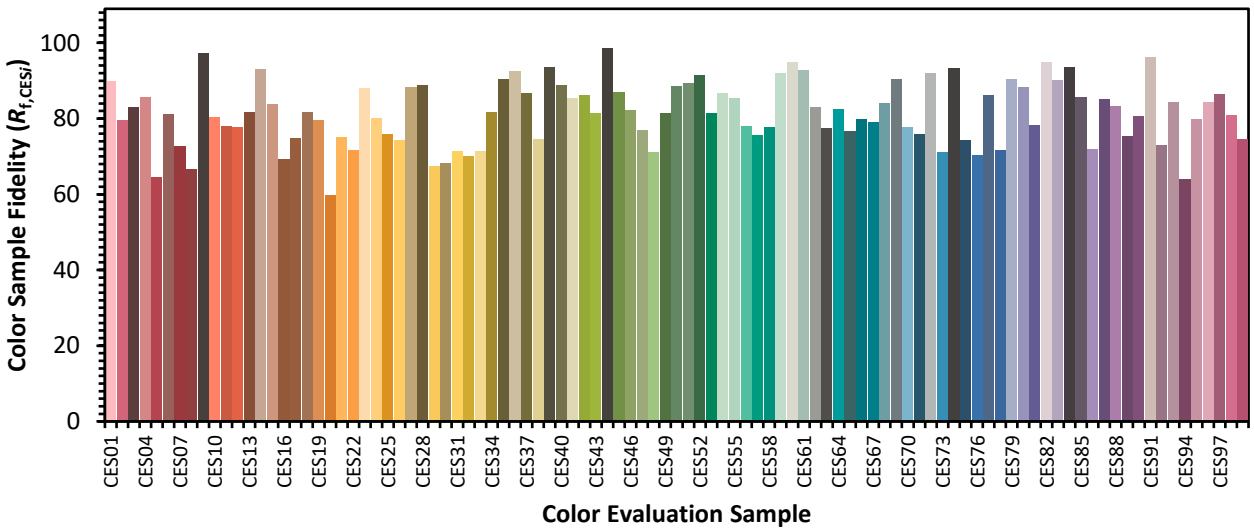
Individual Sample Fidelity Index ($R_{f,i}$)

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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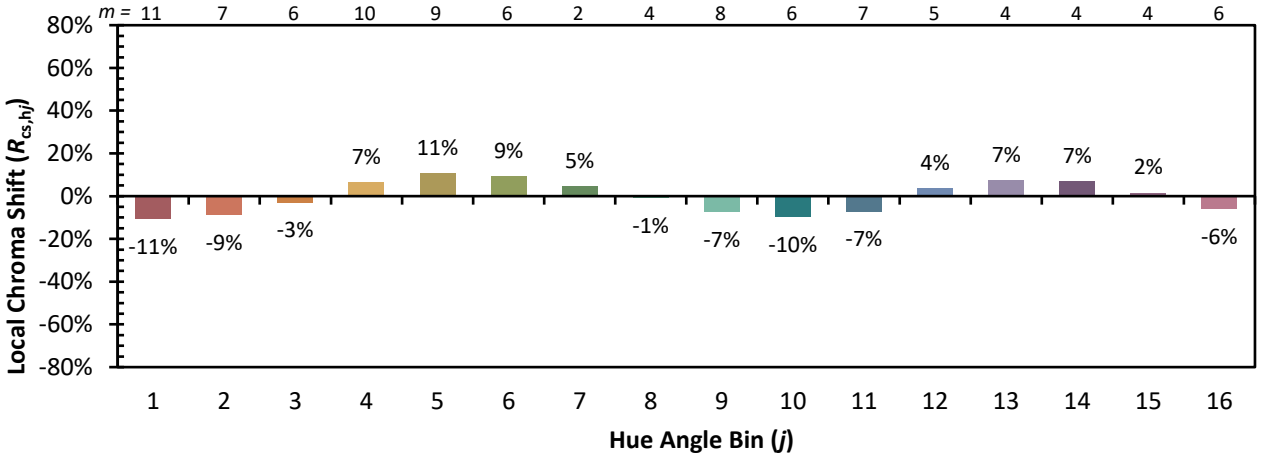
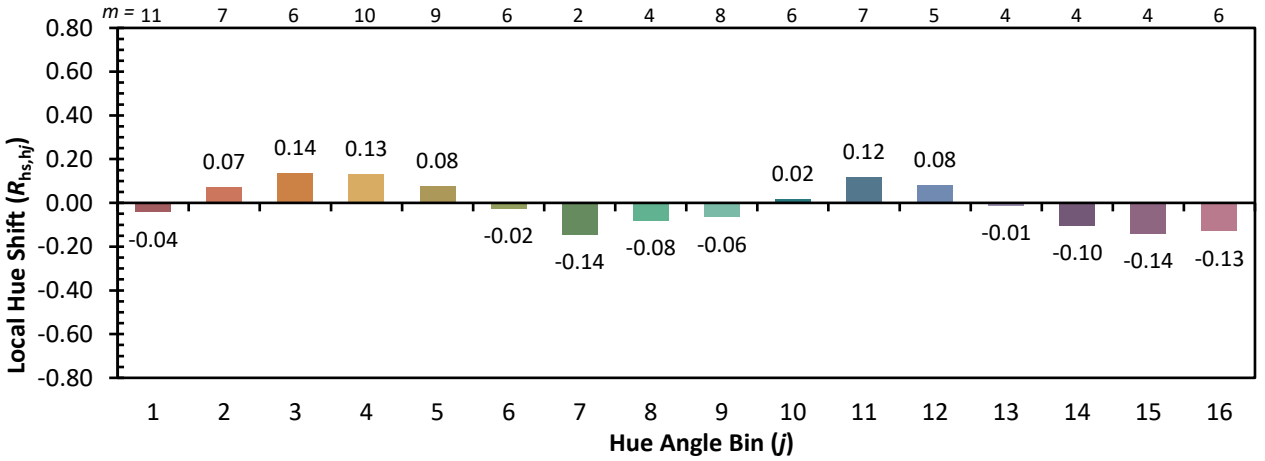
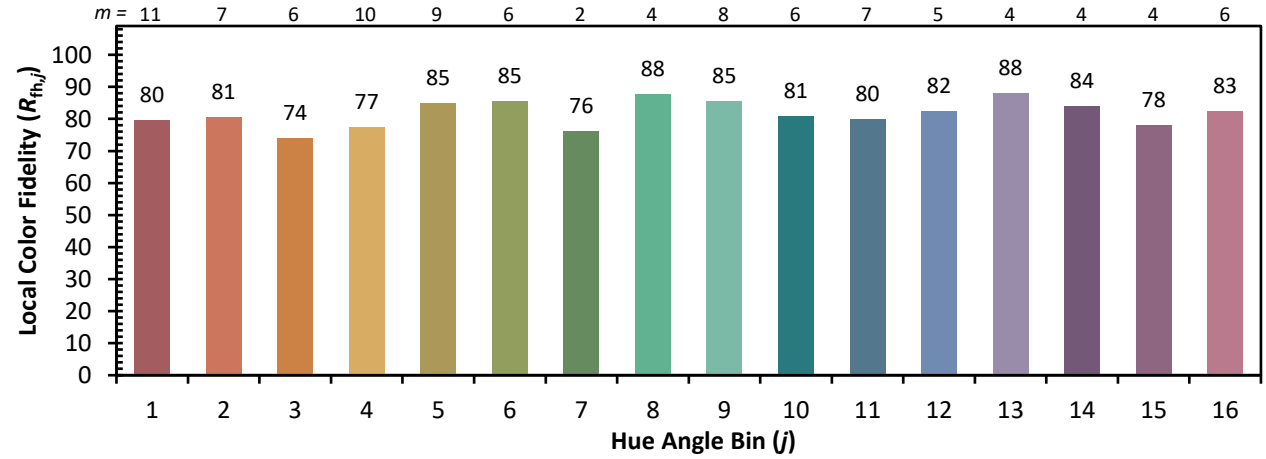
Color Rendition by Hue-Angle Bin







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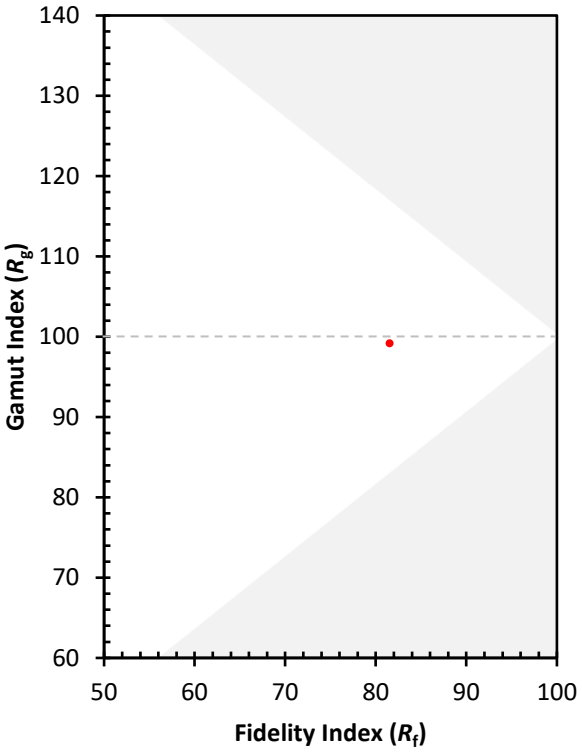
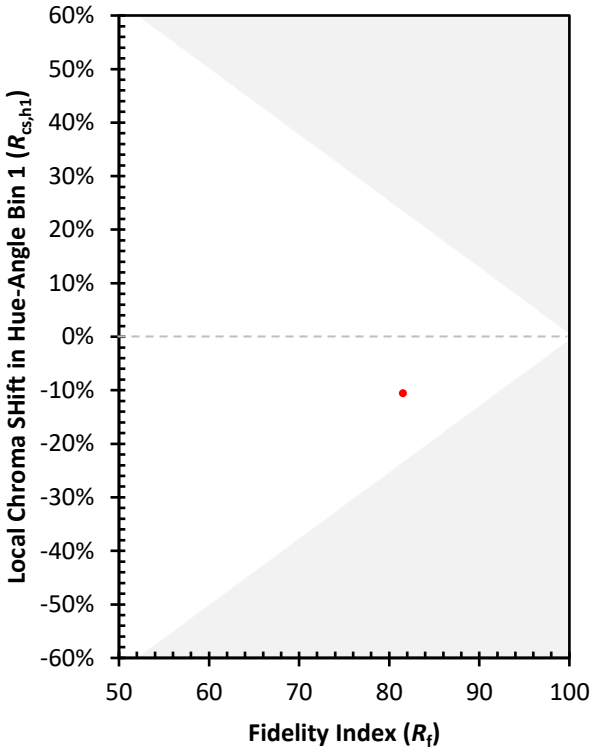
Measure Comparisons





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