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: P634010

Luminaire Tested: GWS-SA2F-830-U-AFL-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:	P634010
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13123.1 lumens
Efficiency:	N/A
Efficacy:	105.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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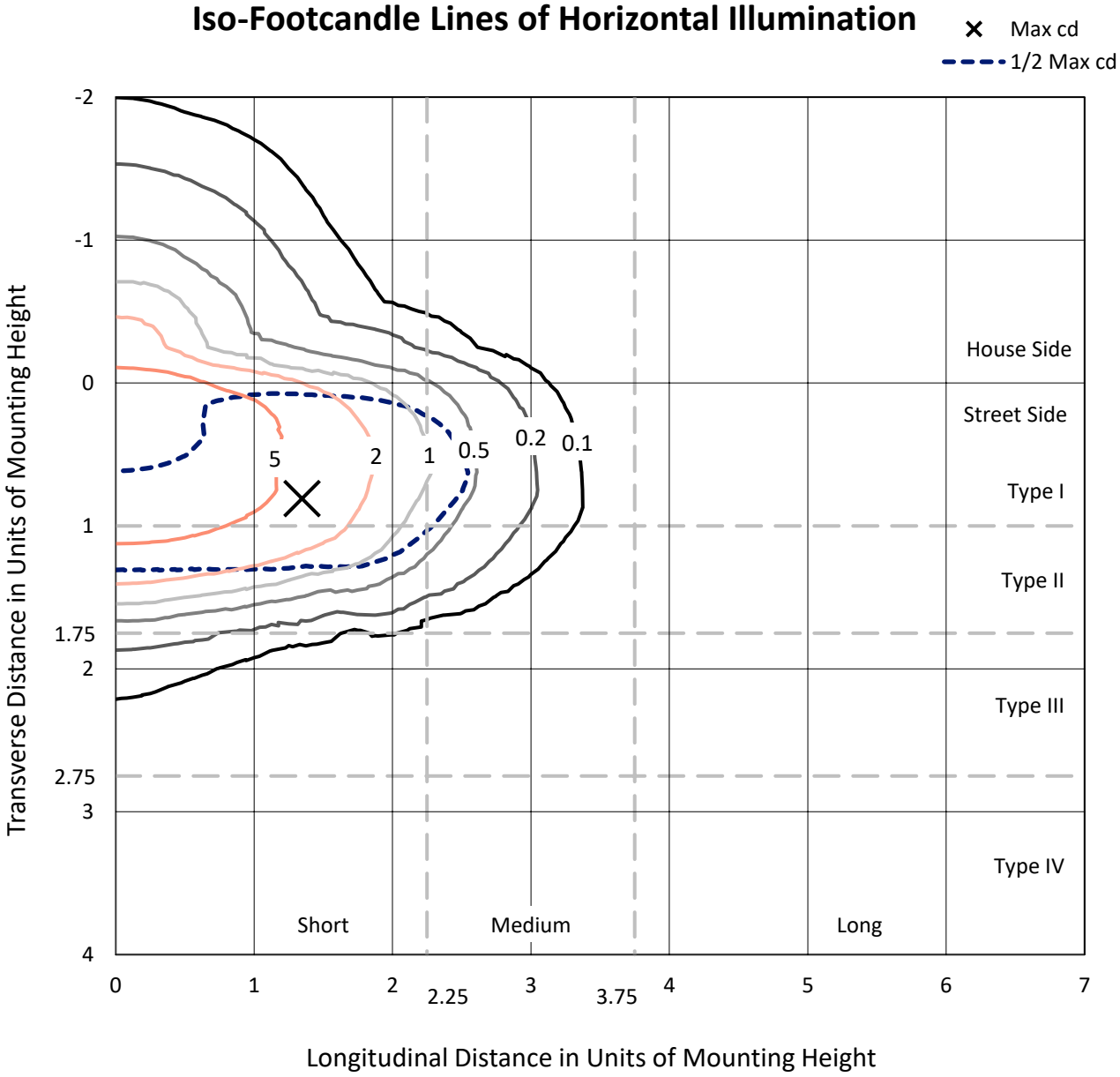
REPORT NUMBER: P634010
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

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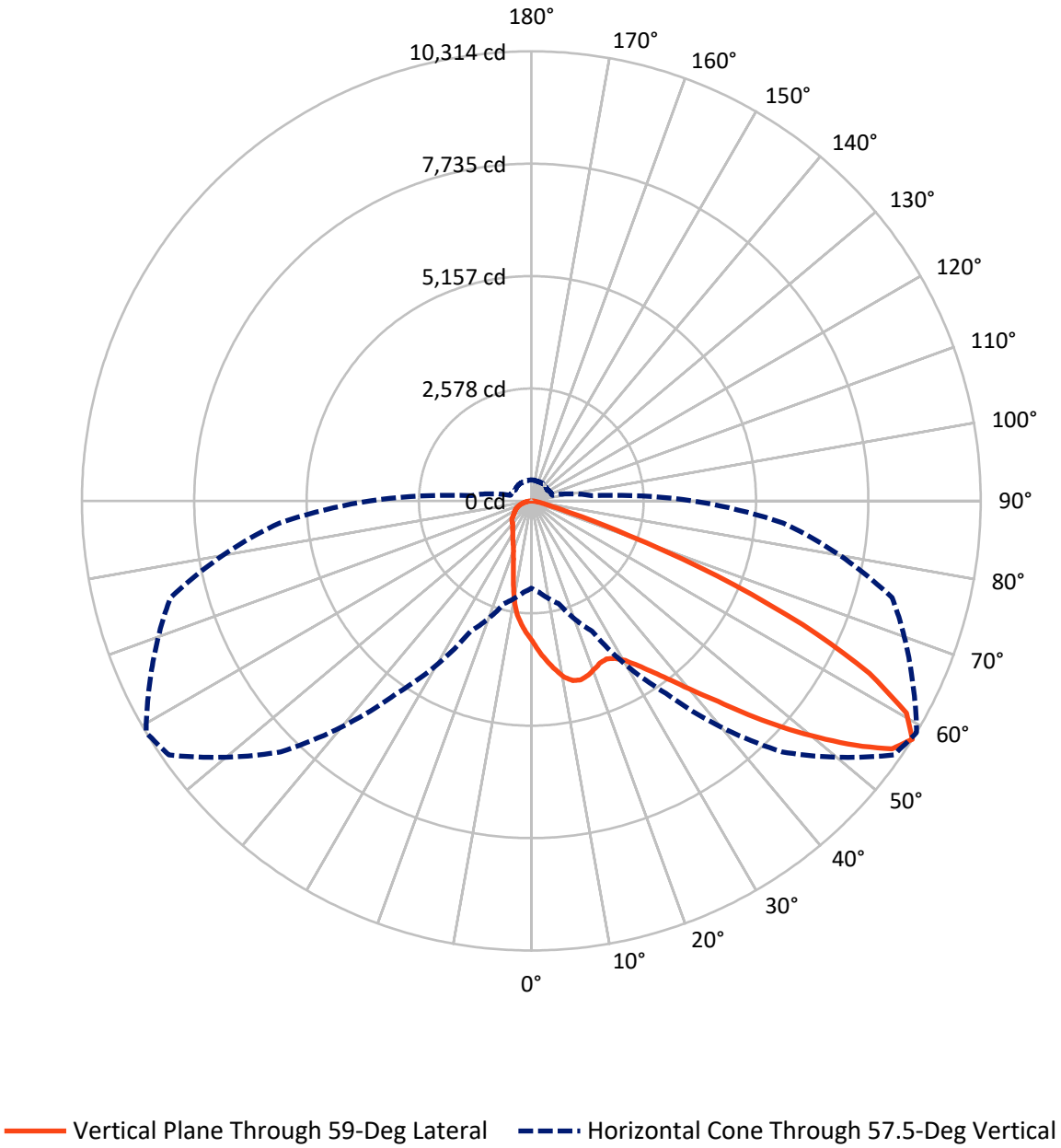
Luminous Intensity Polar Plot



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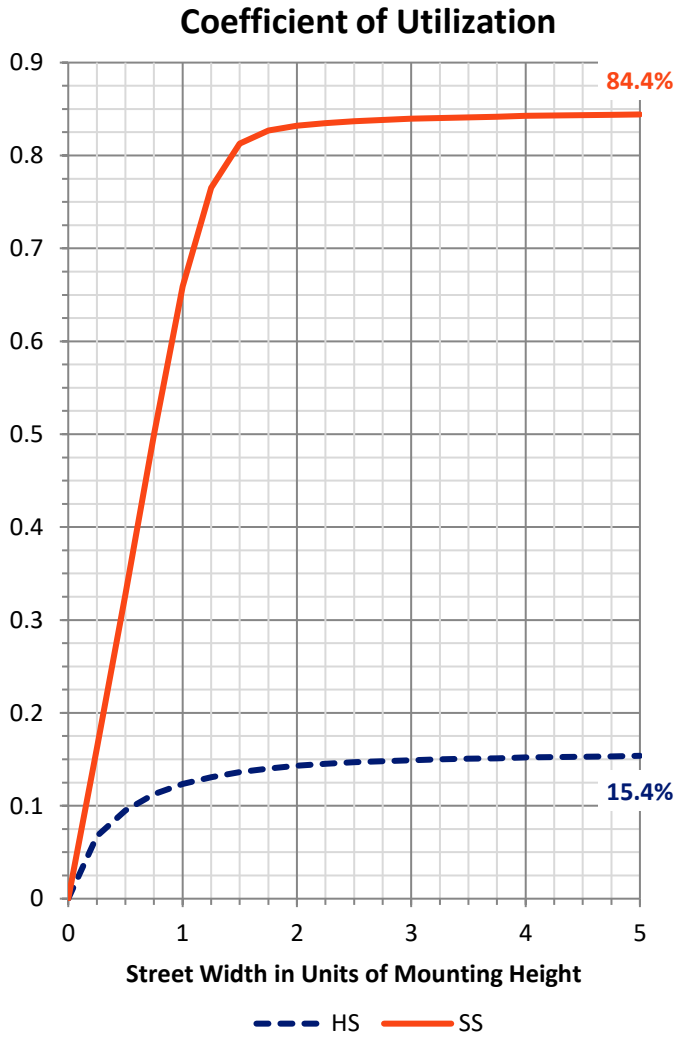
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.6	0.0	2036.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11086.5	0.0	11086.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	13123.1	0.0	13123.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	2.3
10°-20°	758.0	5.8
20°-30°	1228.7	9.4
30°-40°	1976.5	15.1
40°-50°	3069.3	23.4
50°-60°	3306.0	25.2
60°-70°	1918.7	14.6
70°-80°	500.9	3.8
80°-90°	66.0	0.5
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°	13123.1	100.0
0°-180°	13123.1	100.0



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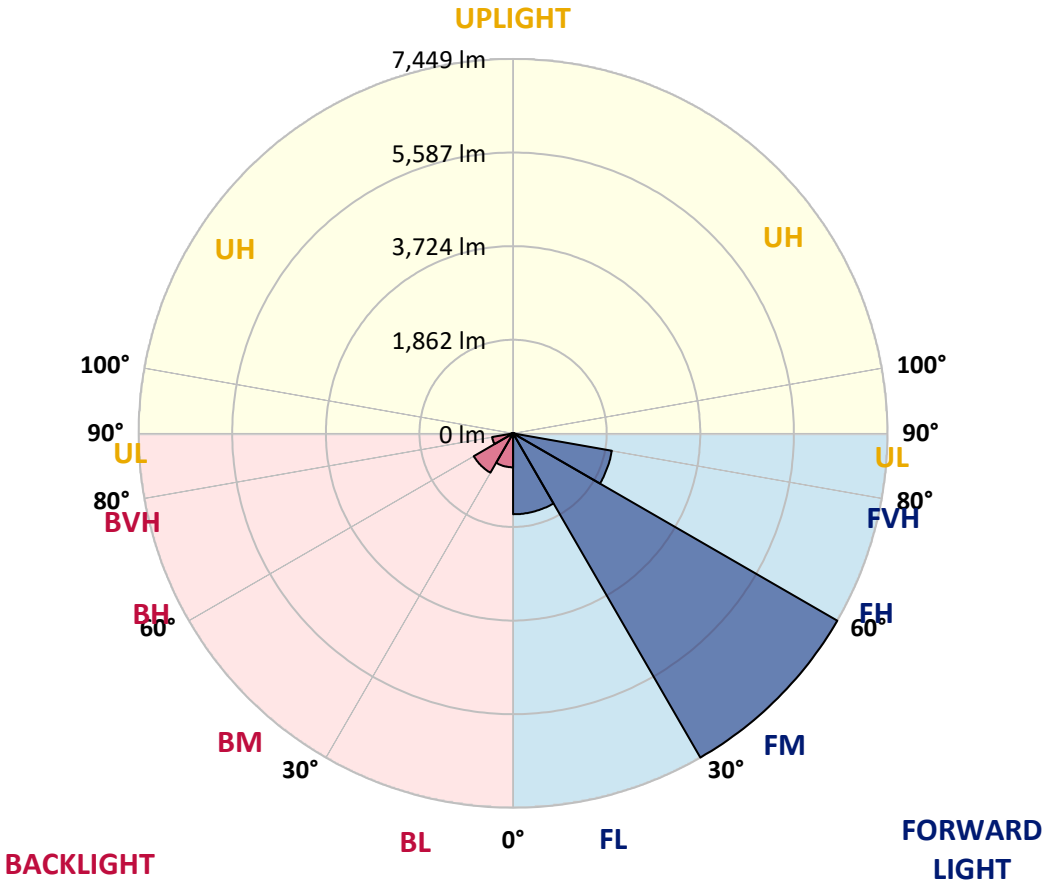
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1610.1	12.3			
FM	(30°-60°)	7448.8	56.8			
FH	(60°-80°)	1996.0	15.2			G2/5000
FVH	(80°-90°)	31.6	0.2			G1/100
BL	(0°-30°)	675.7	5.1	B2/1000		
BM	(30°-60°)	903.0	6.9	B1/1000		
BH	(60°-80°)	423.6	3.2	B1/500		G1/500
BVH	(80°-90°)	34.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P634010
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5
2.5°	3653.8	3623.3	3644.6	3606.7	3591.0	3549.4	3495.8	3459.8	3404.4	3332.3	3269.5
5°	4016.9	3995.6	4000.3	3959.6	3923.6	3854.3	3744.4	3683.4	3589.2	3444.1	3309.2
7.5°	4005.8	4030.7	4044.6	4079.7	4089.9	4083.4	3984.6	3899.6	3796.1	3578.1	3374.8
10°	3591.0	3638.1	3680.6	3800.7	3946.7	4131.4	4154.5	4103.7	3999.3	3749.0	3453.3
12.5°	3139.2	3175.3	3213.1	3357.3	3580.8	3950.4	4200.7	4232.1	4190.6	3918.0	3542.0
15°	2917.5	2934.1	2970.2	3065.3	3243.6	3653.8	4120.4	4258.0	4332.8	4097.3	3641.8
17.5°	2908.3	2915.7	2933.2	2984.0	3107.8	3424.7	3975.3	4206.3	4444.6	4286.7	3758.2
20°	3099.5	3080.1	3069.0	3068.1	3129.1	3348.0	3834.9	4123.1	4497.3	4480.7	3882.9
22.5°	3364.7	3371.1	3347.1	3288.0	3280.6	3402.5	3764.7	4039.1	4513.0	4652.5	3998.4
25°	3740.7	3773.0	3701.9	3589.2	3533.7	3560.5	3808.1	4013.2	4511.2	4795.7	4070.5
27.5°	4179.5	4204.4	4132.4	3984.6	3870.0	3805.3	3937.4	4089.9	4526.9	4919.5	4113.9
30°	4679.3	4687.6	4588.8	4433.5	4266.3	4127.8	4152.7	4247.9	4607.2	5082.1	4164.7
32.5°	5290.0	5325.1	5175.4	4929.7	4695.9	4518.5	4441.9	4502.8	4780.9	5274.2	4243.2
35°	6065.1	6077.1	5886.8	5534.8	5204.0	4958.3	4797.5	4829.9	5045.1	5543.1	4361.5
37.5°	6795.8	6807.8	6605.5	6278.5	5805.5	5469.2	5236.4	5221.6	5383.3	5922.8	4554.6
40°	7259.6	7293.8	7203.2	6998.2	6546.4	6092.8	5776.8	5726.0	5826.7	6387.5	4823.4
42.5°	7509.0	7523.8	7522.0	7548.8	7279.9	6829.1	6386.6	6284.9	6352.4	6889.1	5095.0
45°	7510.9	7547.8	7646.7	7904.4	7916.5	7635.6	7157.1	6998.2	6936.3	7394.5	5378.6
47.5°	7174.6	7214.3	7485.9	7993.1	8367.3	8431.0	8080.0	7761.2	7500.7	7829.6	5611.5
50°	6156.5	6256.3	6773.7	7670.7	8456.0	9068.5	8960.4	8528.0	8002.4	8165.9	5757.4
52.5°	5272.4	5268.7	5587.4	6759.8	8085.5	9349.3	9812.2	9317.0	8498.5	8379.3	5794.4
55°	3860.8	3882.0	4208.1	5169.9	7097.0	9077.7	10280.6	10043.2	9067.6	8492.9	5779.6
57.5°	2002.0	2107.3	2441.7	3299.1	5392.5	8142.8	10155.9	10313.8	9645.9	8573.3	5799.0
60°	1011.6	991.3	1111.4	1575.2	3124.5	6359.8	9387.2	9890.7	9750.3	8636.1	5811.0
62.5°	675.3	669.8	636.5	729.8	1276.8	3766.5	8002.4	8708.2	9025.1	8488.3	5657.6
65°	584.8	573.7	512.7	509.0	619.9	1562.2	5865.5	6845.7	7459.2	7831.5	5290.9
67.5°	526.6	510.0	448.1	417.6	445.3	686.4	3305.5	4591.5	5508.0	6623.1	4487.1
70°	470.2	461.9	400.0	355.7	352.9	418.5	1217.6	2369.7	3370.2	4518.5	3280.6
72.5°	421.3	406.5	353.8	311.3	290.1	296.6	528.4	912.8	1744.2	2818.7	1962.3
75°	364.9	353.8	307.6	265.1	239.3	217.1	322.4	422.2	795.4	1339.6	926.6
77.5°	281.8	274.4	243.0	210.6	195.9	161.7	195.9	266.1	367.7	564.5	482.2
80°	163.5	168.1	181.1	164.4	144.1	115.5	127.5	153.4	220.8	305.8	273.5
82.5°	82.2	87.8	117.3	95.2	85.9	67.4	75.8	90.5	115.5	169.1	107.2
85°	6.5	6.5	21.2	24.0	29.6	24.0	30.5	37.0	52.7	67.4	36.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.6	8.3	15.7	10.2
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: P634010
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5	3221.5
2.5°	3227.0	3179.9	3123.5	3077.3	3006.2	2968.3	2920.3	2861.2	2837.1	2826.1	2819.6
5°	3233.5	3150.3	3030.2	2919.4	2796.5	2699.5	2591.4	2478.7	2414.0	2398.3	2387.2
7.5°	3257.5	3141.1	2949.8	2766.9	2538.7	2327.2	2121.2	1917.0	1812.6	1772.9	1769.2
10°	3290.7	3137.4	2868.5	2564.6	2179.4	1844.9	1603.8	1444.0	1376.5	1354.4	1347.0
12.5°	3332.3	3134.6	2761.4	2283.8	1764.6	1448.6	1310.9	1285.1	1294.3	1292.5	1292.5
15°	3385.0	3138.3	2632.0	1965.9	1427.3	1257.4	1260.1	1290.6	1319.3	1323.9	1323.9
17.5°	3442.3	3134.6	2444.5	1647.2	1225.0	1212.1	1254.6	1297.1	1323.0	1326.6	1326.6
20°	3504.2	3117.1	2208.0	1347.0	1136.3	1183.4	1229.6	1262.9	1278.6	1282.3	1282.3
22.5°	3541.1	3067.2	1951.2	1140.0	1080.0	1138.2	1168.7	1202.9	1204.7	1175.1	1174.2
25°	3535.6	2973.9	1658.3	1007.0	1019.9	1070.7	1109.5	1085.5	1056.0	1039.3	1036.6
27.5°	3500.5	2833.4	1359.9	906.3	948.8	1006.1	994.1	973.7	966.3	947.9	946.0
30°	3456.1	2660.7	1092.0	827.8	874.9	927.5	909.1	907.2	899.8	879.5	879.5
32.5°	3413.6	2482.4	889.7	769.6	827.8	831.5	857.3	859.2	855.5	820.4	816.7
35°	3401.6	2304.1	752.9	723.4	781.6	779.7	816.7	815.8	752.0	703.0	702.1
37.5°	3437.6	2123.0	671.6	685.5	717.8	741.9	771.4	717.8	696.6	667.0	665.2
40°	3514.3	1955.8	630.1	663.3	677.2	712.3	666.1	669.8	664.2	642.1	639.3
42.5°	3615.9	1813.5	607.0	655.9	654.1	663.3	612.5	627.3	635.6	619.0	616.2
45°	3713.9	1689.7	595.0	628.2	637.5	583.9	573.7	587.6	600.5	594.0	591.3
47.5°	3785.9	1582.6	588.5	590.3	616.2	557.1	540.5	546.9	562.6	565.4	564.5
50°	3808.1	1491.1	581.1	558.9	553.4	530.3	517.4	515.5	534.0	546.9	548.8
52.5°	3765.6	1409.8	561.7	531.2	504.4	508.1	503.5	494.3	512.7	530.3	532.1
55°	3702.8	1363.6	531.2	504.4	473.0	487.8	489.6	481.3	493.3	505.3	505.3
57.5°	*3707.4*	*1390.4*	*501.6*	*479.5*	*445.3*	*464.7*	*474.9*	*471.2*	*471.2*	*480.4*	*481.3*
60°	3737.9	1429.2	482.2	448.1	417.6	437.9	461.0	457.3	449.0	461.0	461.0
62.5°	3650.1	1377.5	469.3	417.6	388.0	412.0	439.8	437.9	428.7	448.1	449.9
65°	3391.4	1238.9	454.5	379.7	358.5	386.2	410.2	416.7	408.3	434.2	438.8
67.5°	2842.7	1042.1	425.9	343.7	328.9	354.8	377.9	387.1	380.6	411.1	414.8
70°	2119.3	843.5	380.6	303.9	292.9	316.0	337.2	340.9	341.8	377.9	381.5
72.5°	1351.6	655.9	320.6	259.6	251.3	268.8	284.5	299.3	305.8	340.0	339.1
75°	753.9	487.8	257.8	219.9	205.1	219.0	237.4	255.0	273.5	323.3	328.9
77.5°	434.2	342.7	204.2	176.5	158.9	173.7	189.4	214.3	269.8	313.2	307.6
80°	244.8	222.6	154.3	129.3	118.3	129.3	141.3	188.5	212.5	231.0	233.7
82.5°	114.6	124.7	105.3	79.5	79.5	86.8	97.9	146.0	160.7	131.2	114.6
85°	41.6	56.4	51.7	40.6	36.0	35.1	61.0	83.1	51.7	46.2	39.7
87.5°	11.1	15.7	14.8	10.2	5.5	4.6	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

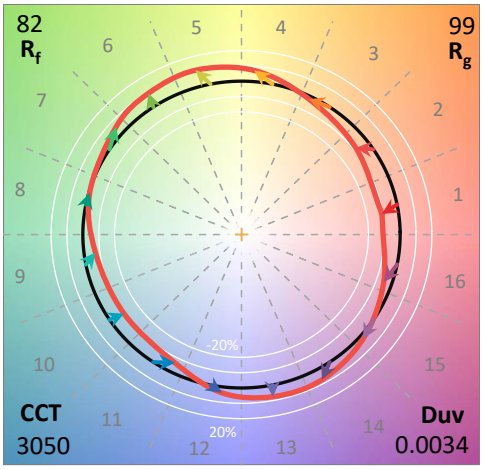
Test Information

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

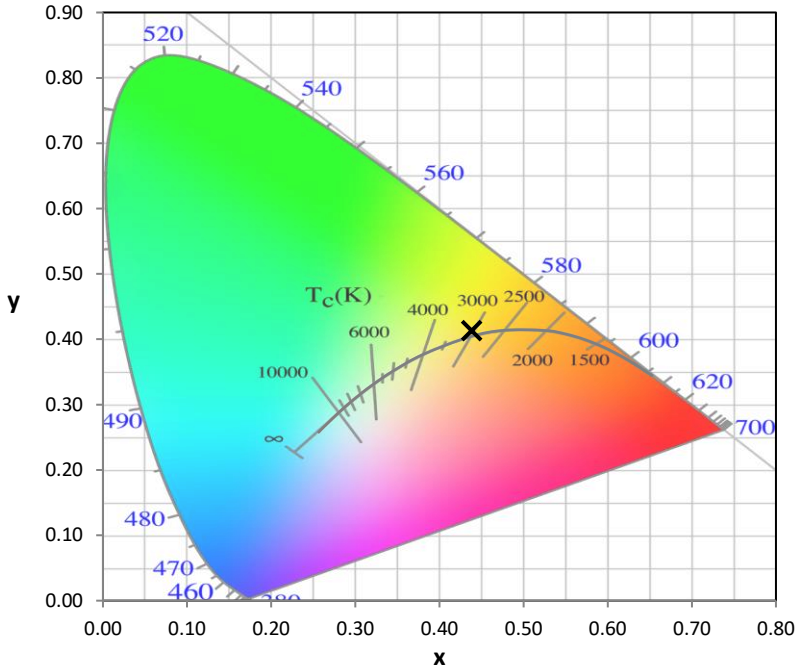
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

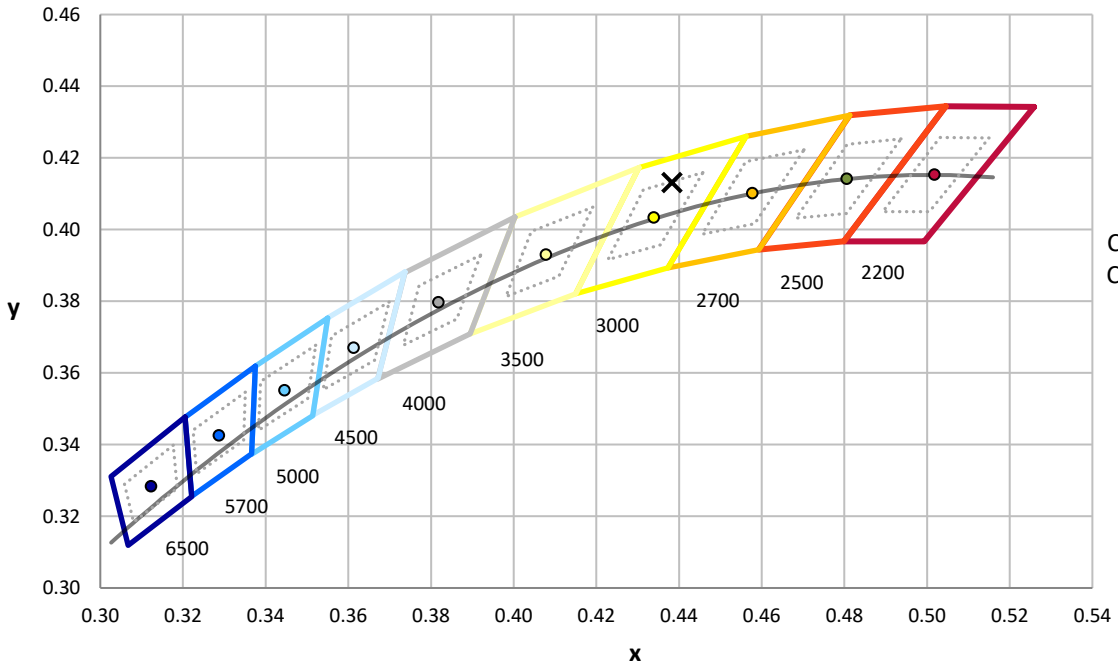
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

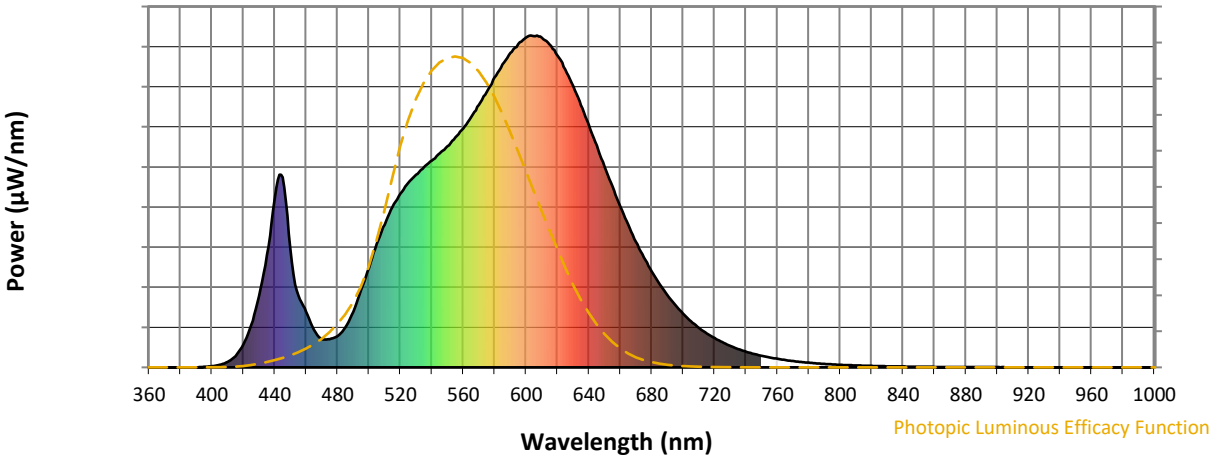


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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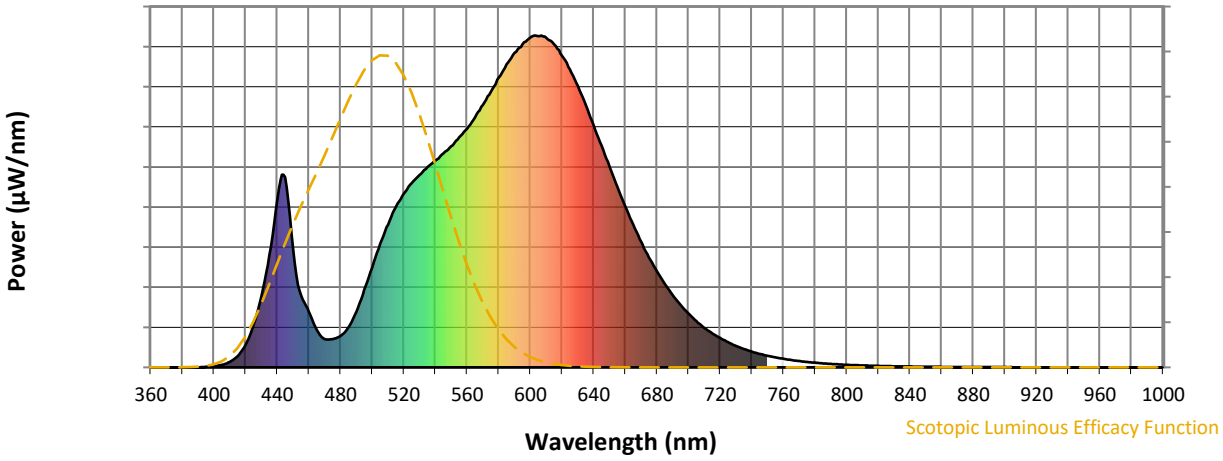
Scotopic Flux vs. Wavelength



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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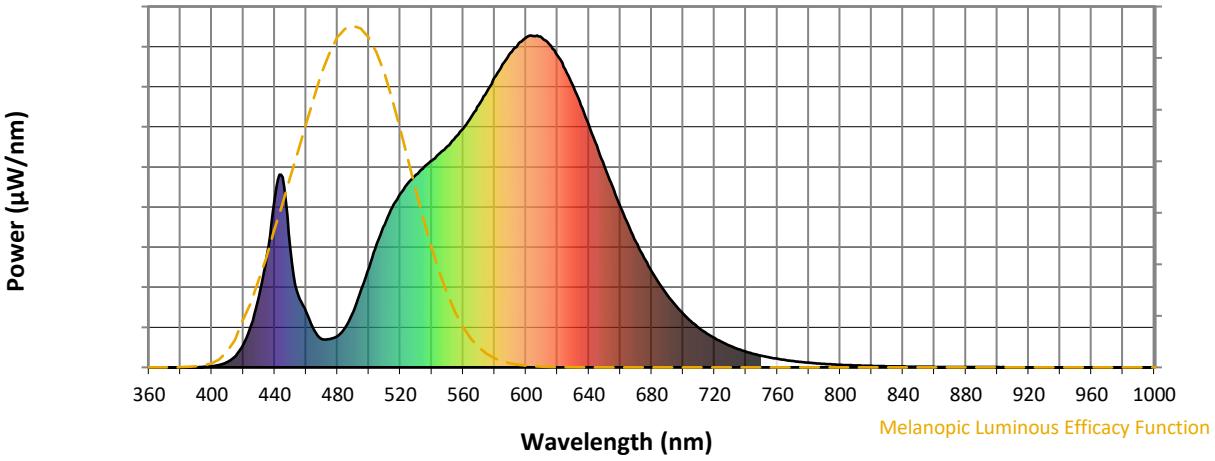
Melanopic Flux vs. Wavelength



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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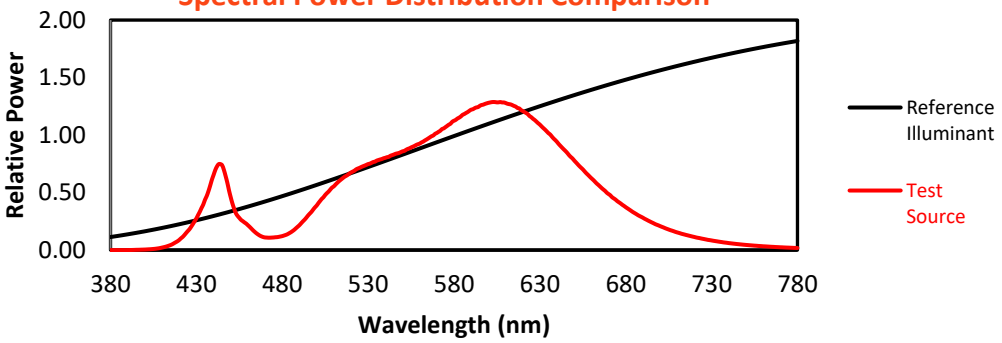
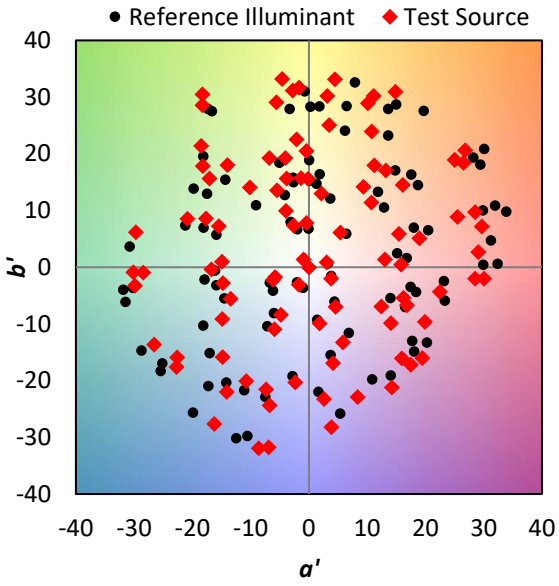
Summary

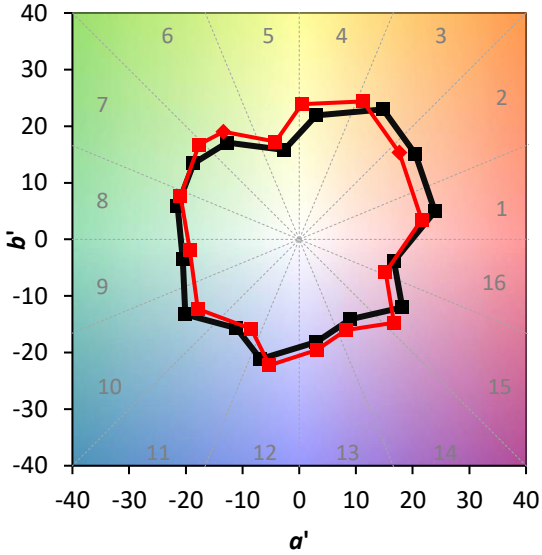
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

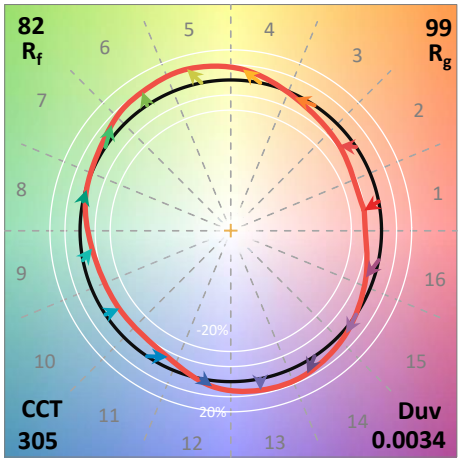
Spectral Power Distribution Comparison

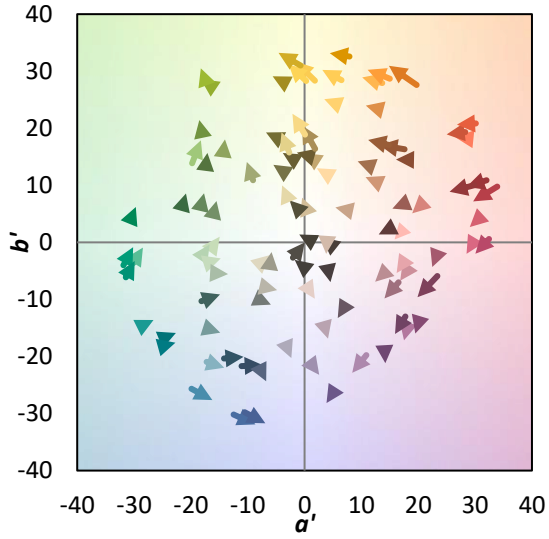


Color Vector Graphics









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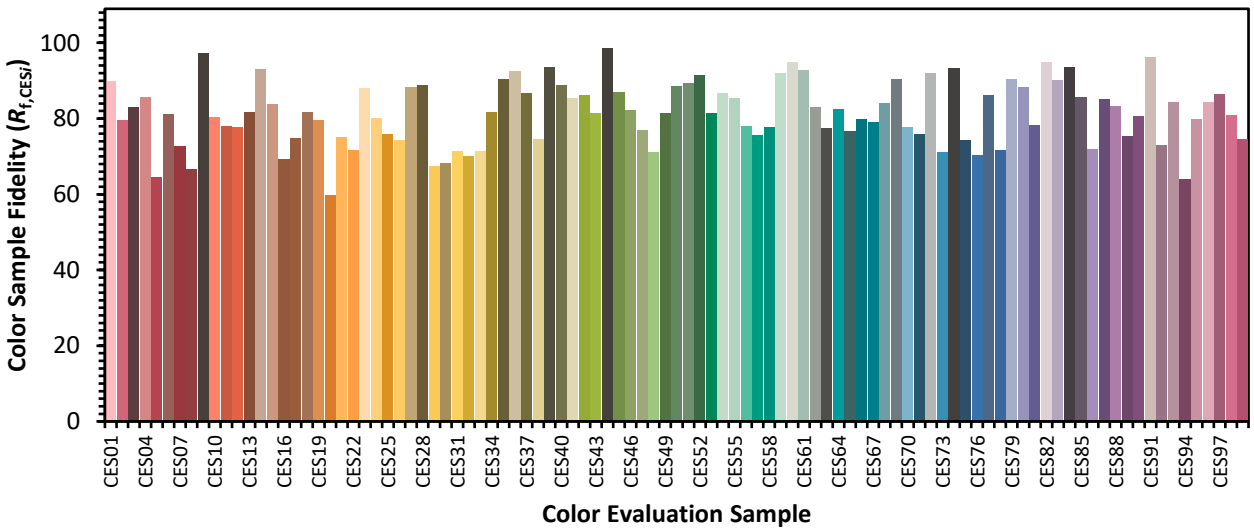
Individual Sample Fidelity Index ($R_{f,i}$)

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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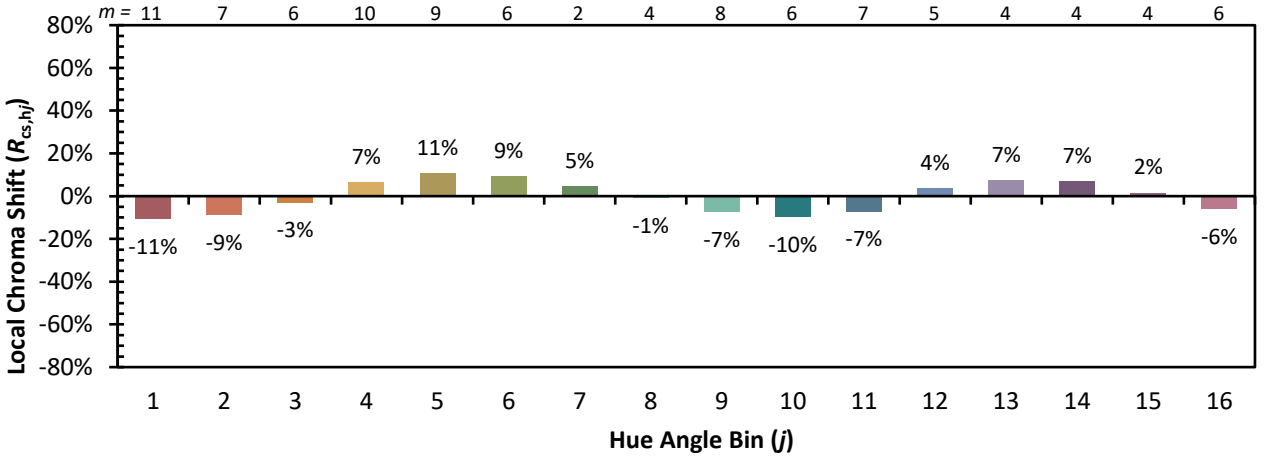
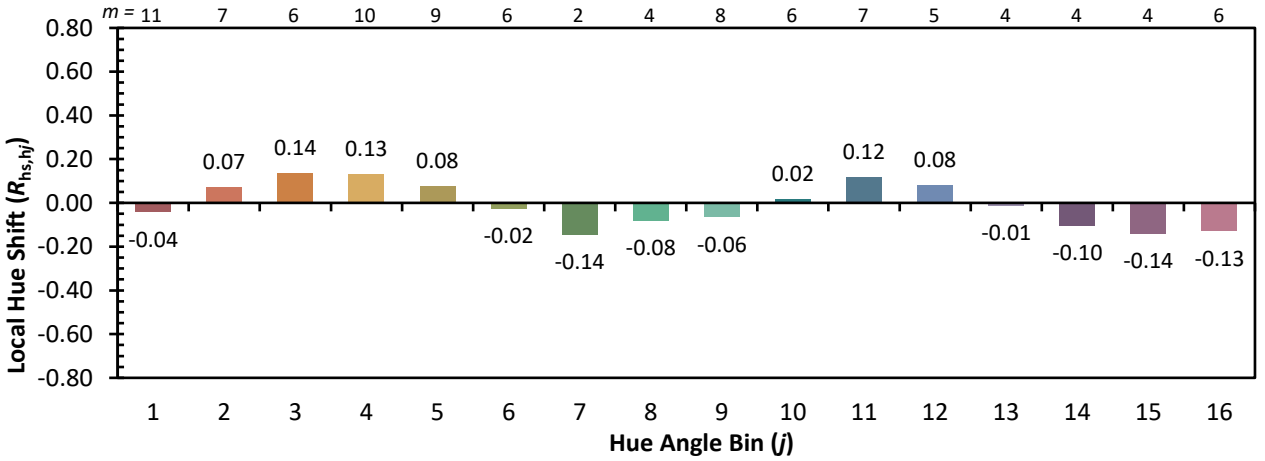
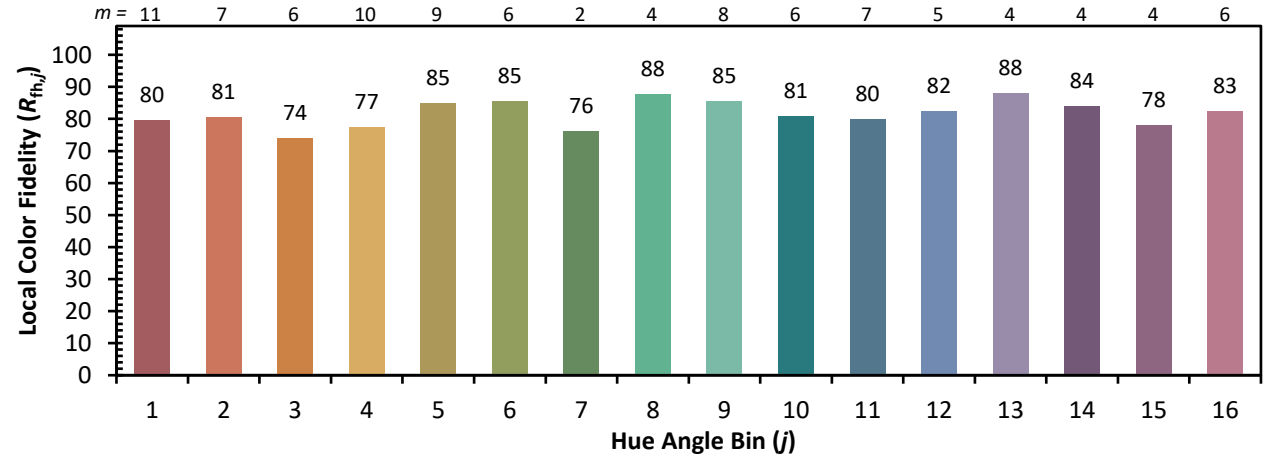
Color Rendition by Hue-Angle Bin







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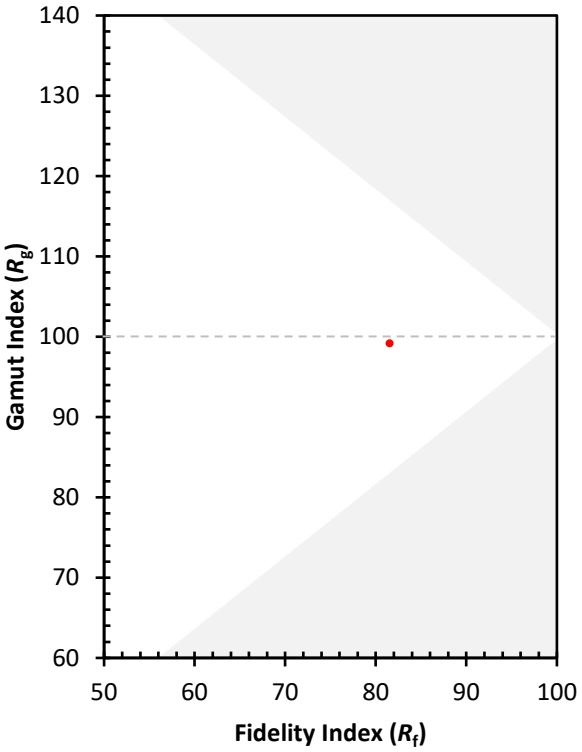
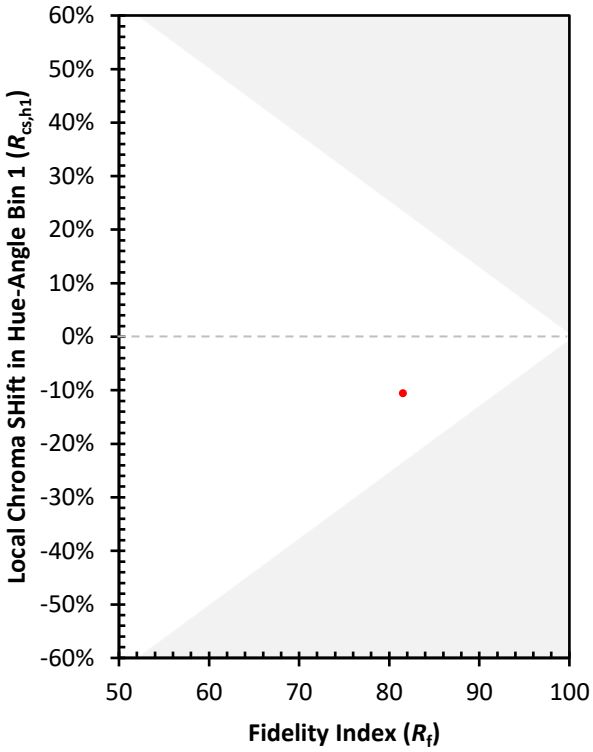
Measure Comparisons





(END OF REPORT)