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: P631565

Luminaire Tested: GWS-SA1F-830-U-T2R-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:	P631565
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1F-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6824.3 lumens
Efficiency:	N/A
Efficacy:	101.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	67.2
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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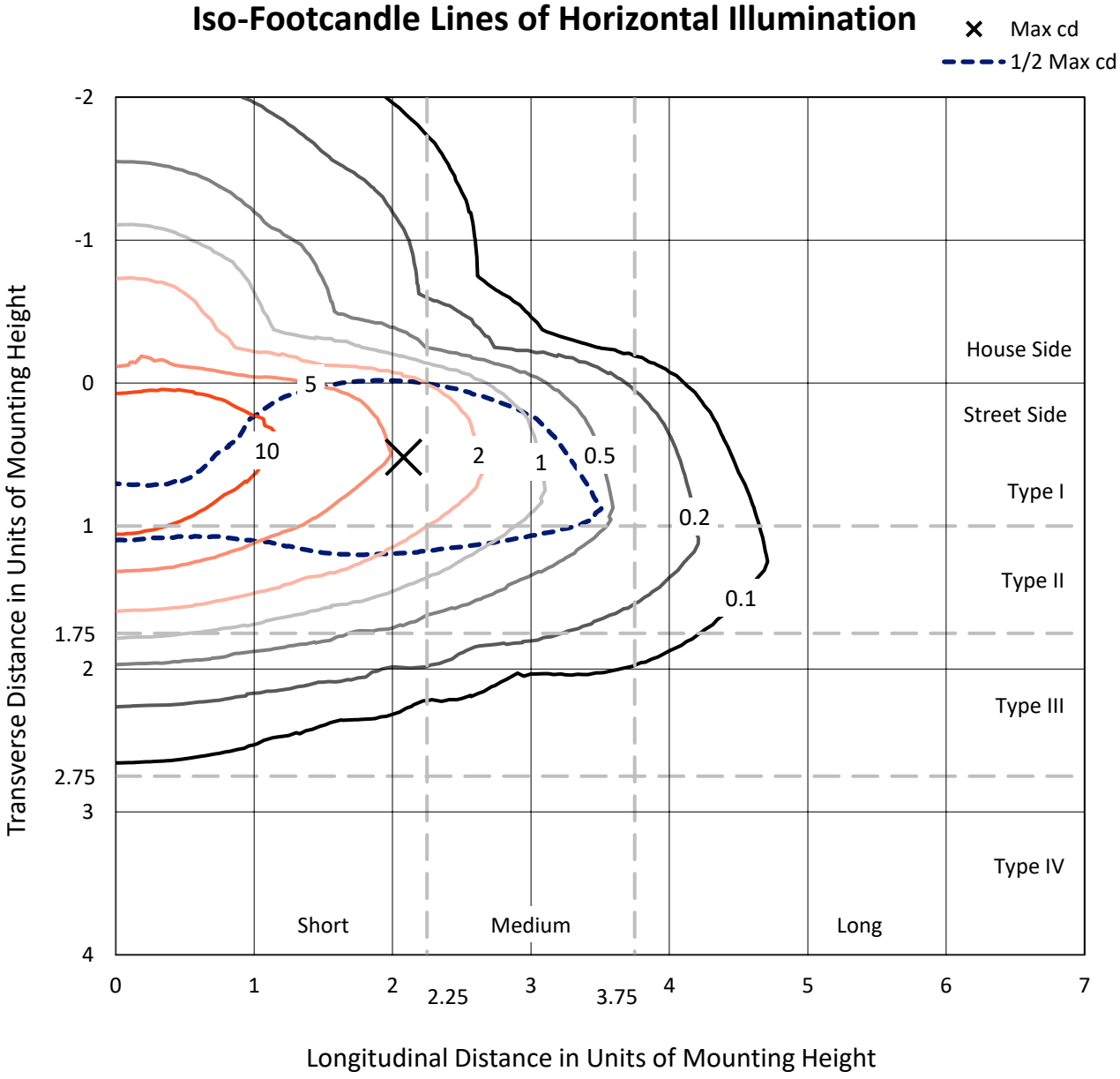
REPORT NUMBER: P631565
CATALOG NUMBER: GWS-SA1F-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
Type II - Short - N/A

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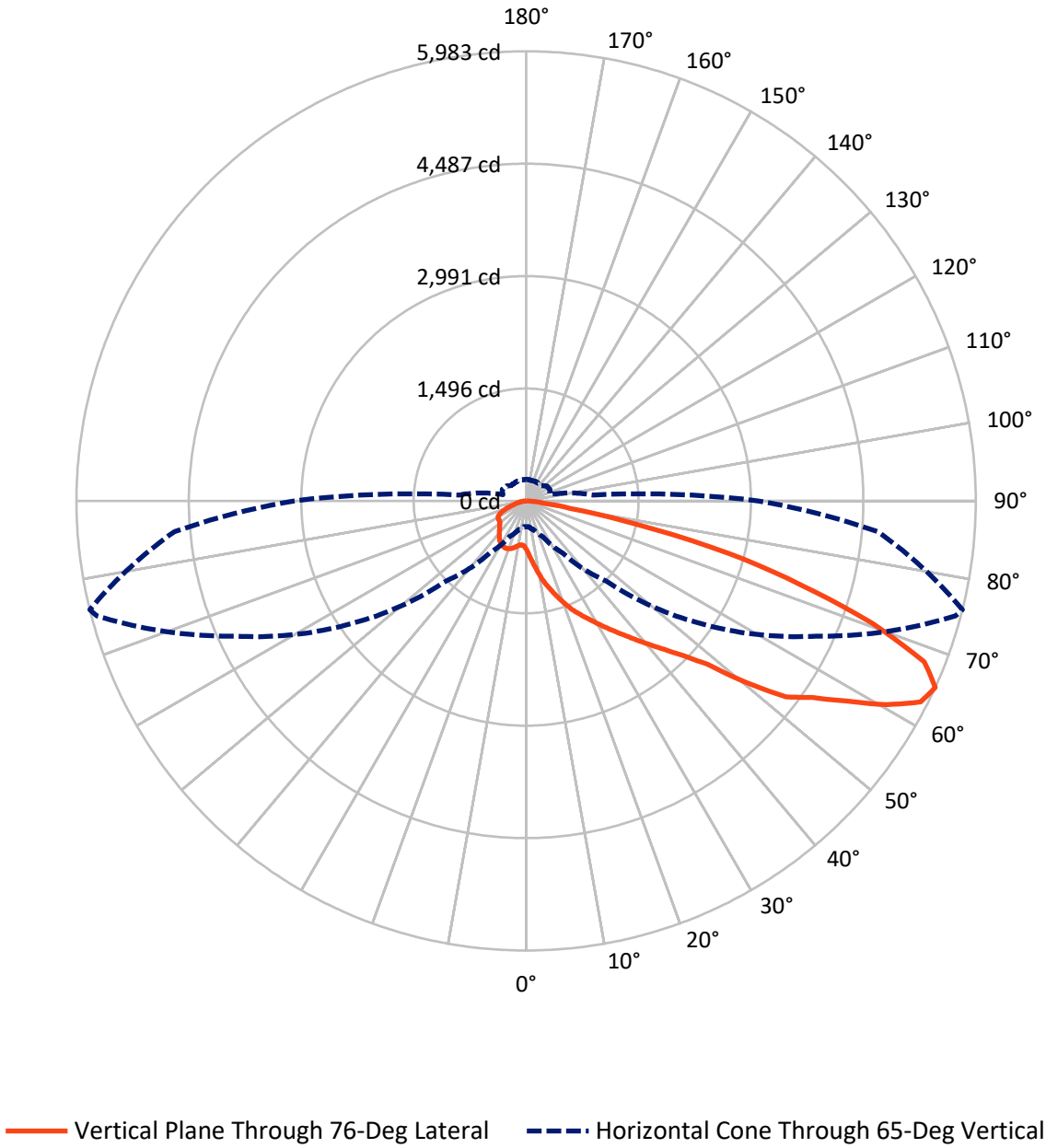
Luminous Intensity Polar Plot



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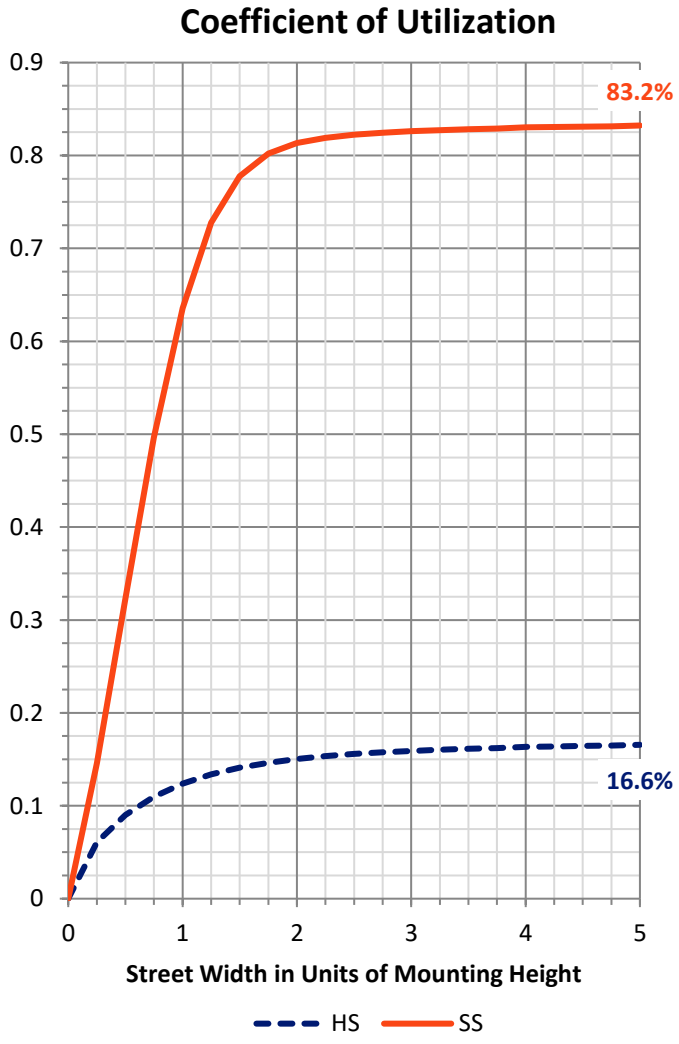
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.7	0.0	1140.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	5683.6	0.0	5683.6
	% Fixture	83.3	0.0	83.3
Total	Lumens	6824.3	0.0	6824.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.1
10°-20°	292.4	4.3
20°-30°	569.9	8.4
30°-40°	953.1	14.0
40°-50°	1364.7	20.0
50°-60°	1615.6	23.7
60°-70°	1343.4	19.7
70°-80°	549.8	8.1
80°-90°	58.5	0.9
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°	6824.3	100.0
0°-180°	6824.3	100.0



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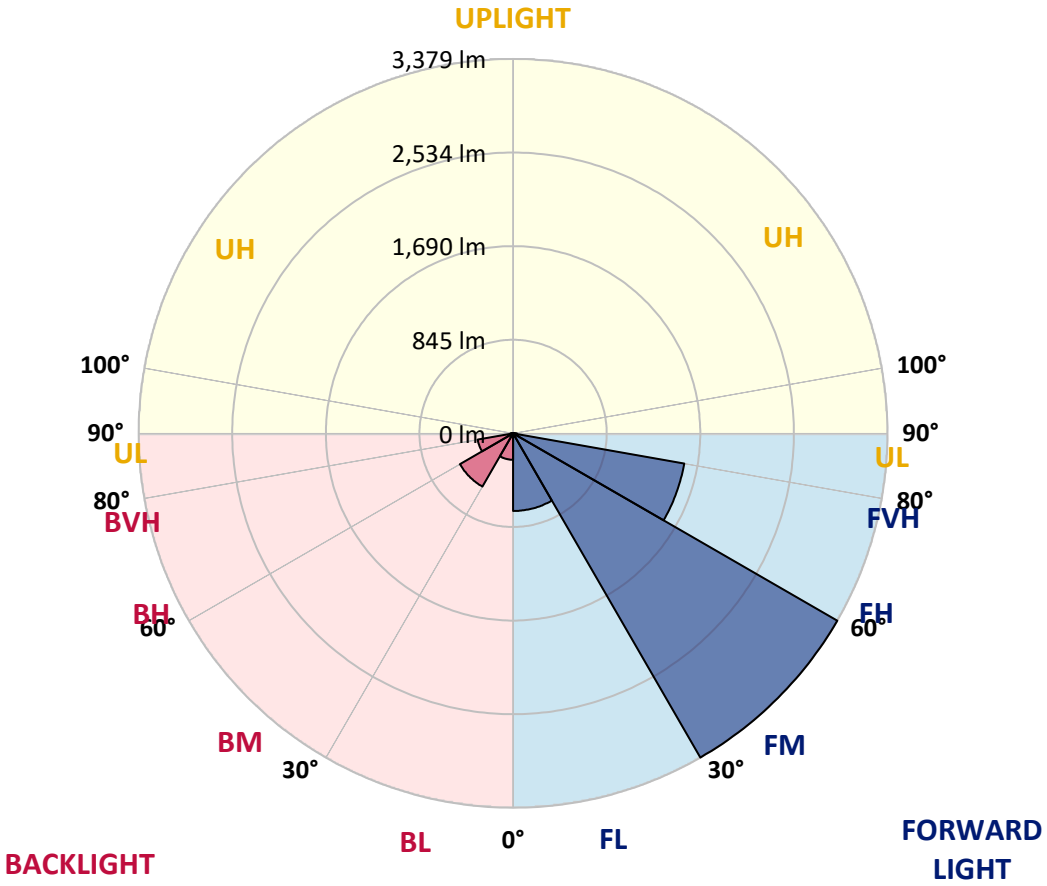
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	700.5	10.3			
FM	(30°-60°)	3379.1	49.5			
FH	(60°-80°)	1569.1	23.0			G1/1800
FVH	(80°-90°)	34.9	0.5			G1/100
BL	(0°-30°)	238.6	3.5	B1/500		
BM	(30°-60°)	554.4	8.1	B1/1000		
BH	(60°-80°)	324.1	4.7	B1/500		G1/500
BVH	(80°-90°)	23.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P631565
CATALOG NUMBER: GWS-SA1F-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2	*646.2*	646.2
2.5°	905.8	909.1	898.1	894.3	868.4	833.3	804.1	759.9	719.2	*712.9*	676.5
5°	1150.5	1136.1	1123.6	1115.4	1079.5	1039.6	977.7	894.8	807.9	*797.4*	718.7
7.5°	1295.8	1293.4	1278.1	1273.3	1245.5	1205.6	1141.8	1038.7	912.5	*895.2*	775.8
10°	1412.4	1411.0	1403.3	1407.6	1382.2	1343.3	1281.4	1174.9	1027.2	*1009.9*	839.6
12.5°	1514.1	1516.5	1515.1	1530.9	1518.0	1487.7	1423.4	1306.4	1141.8	*1123.1*	917.3
15°	1588.5	1590.4	1597.6	1632.1	1639.3	1633.1	1567.9	1435.4	1255.1	*1228.2*	997.4
17.5°	1609.6	1613.4	1630.7	1686.4	1725.2	1751.1	1702.7	1566.9	1366.4	*1337.1*	1079.0
20°	1637.9	1642.2	1659.5	1717.5	1774.6	1833.6	1825.0	1700.3	1478.6	*1454.6*	1161.5
22.5°	1768.9	1765.5	1757.8	1785.7	1826.4	1899.8	1921.4	1828.4	1594.7	*1571.7*	1252.7
25°	2021.2	2015.0	1966.1	1940.6	1927.2	1971.8	2010.2	1944.9	1707.9	*1673.4*	1337.6
27.5°	2299.5	2296.1	2233.8	2173.3	2090.8	2071.6	2094.2	2046.7	1817.8	*1782.8*	1411.5
30°	2562.9	2552.8	2487.6	2411.8	2301.4	2218.9	2185.8	2146.4	1938.2	*1901.8*	1497.8
32.5°	2798.4	2785.5	2708.7	2624.8	2509.1	2411.8	2312.9	2252.5	2074.5	*2032.3*	1586.1
35°	2991.8	2978.8	2900.1	2810.9	2683.8	2611.8	2476.5	2367.6	2213.1	*2170.4*	1690.2
37.5°	3141.5	3129.5	3047.4	2959.6	2848.8	2791.7	2674.2	2497.1	2372.9	*2328.3*	1800.5
40°	3225.4	3216.8	3151.1	3081.5	2988.4	2939.0	2886.2	2660.7	2551.8	*2507.2*	1930.6
42.5°	3250.9	3245.1	3199.0	3163.1	3100.2	3062.8	3093.0	2853.1	2742.8	*2703.9*	2076.9
45°	3187.0	3187.0	3173.6	3191.8	3194.7	3194.2	3300.3	3070.5	2977.4	*2934.7*	2283.2
47.5°	3023.9	3034.5	3054.1	3143.9	3238.4	3317.5	3542.5	3360.2	3279.2	*3244.1*	2575.3
50°	2725.5	2754.3	2821.5	2996.6	3197.6	3399.1	3771.9	3788.7	3865.9	*3804.0*	3005.2
52.5°	2288.5	2284.1	2455.4	2704.9	3011.5	3402.5	3898.0	4166.7	4374.4	*4331.7*	3324.7
55°	1818.8	1811.6	1971.3	2315.3	2726.0	3273.9	3973.8	4339.9	4656.5	*4618.2*	3612.1
57.5°	1392.7	1383.6	1525.6	1836.0	2323.0	3000.9	3959.5	4546.2	5044.7	*5025.0*	4002.6
60°	958.6	947.5	1080.4	1352.0	1846.1	2583.5	3800.2	4652.2	5499.0	*5505.7*	4420.5
62.5°	575.7	569.5	665.9	876.5	1328.0	2066.3	3427.4	4587.9	5860.7	*5891.0*	4689.2
65°	*347.3*	*343.0*	*399.6*	*522.9*	*842.5*	*1507.9*	*2852.6*	*4259.3*	*5913.0*	*5982.6*	*4695.4*
67.5°	252.8	253.3	269.6	318.6	491.3	973.9	2140.7	3670.2	5640.5	*5712.5*	4399.4
70°	219.7	220.7	229.3	240.4	297.0	557.5	1391.8	2897.3	4835.0	*4890.7*	3689.8
72.5°	195.3	195.3	201.0	206.8	232.2	339.7	745.5	2025.1	3816.0	*3830.9*	2816.2
75°	171.8	170.3	173.2	176.1	201.5	237.5	362.7	1411.0	2818.6	*2784.0*	1820.2
77.5°	136.7	135.3	135.8	138.7	161.7	169.8	183.7	881.3	1588.5	*1499.2*	804.1
80°	97.4	96.4	101.7	108.9	119.5	104.1	115.1	426.5	629.9	*586.3*	311.8
82.5°	58.1	60.0	68.1	73.9	82.5	65.2	74.4	142.5	223.1	*217.3*	126.7
85°	8.2	8.6	24.5	28.3	35.5	25.4	39.3	64.3	89.2	*95.5*	44.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	11.5	25.4	*25.9*	11.0
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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REPORT NUMBER: P631565
CATALOG NUMBER: GWS-SA1F-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2	646.2
2.5°	657.8	635.2	603.1	576.2	553.6	535.4	520.1	508.5	505.2	500.4	500.4
5°	681.7	641.0	583.4	542.6	519.1	505.2	495.6	490.8	488.4	485.5	484.1
7.5°	714.8	657.8	580.0	538.8	520.5	511.9	505.7	502.8	500.9	498.0	498.0
10°	760.4	682.7	590.6	552.2	537.8	529.2	522.0	517.2	512.9	508.5	507.6
12.5°	809.8	715.3	609.8	570.4	555.1	544.5	534.5	527.3	522.0	516.7	515.3
15°	864.5	748.9	630.4	588.2	569.0	554.6	542.6	531.6	524.4	516.7	515.7
17.5°	918.3	783.0	647.7	600.2	575.7	558.0	540.7	526.3	517.2	508.5	506.1
20°	982.5	817.0	659.7	603.5	574.3	550.8	530.1	511.9	501.8	491.8	490.3
22.5°	1041.6	848.7	665.4	598.7	563.2	535.4	511.4	491.8	480.7	470.6	468.7
25°	1098.6	876.5	663.0	587.2	546.4	514.3	489.4	469.7	459.1	448.6	445.7
27.5°	1153.8	895.2	653.4	569.5	525.3	490.8	466.8	449.1	439.9	430.8	427.0
30°	1208.0	912.5	638.6	546.4	498.5	466.3	446.7	434.2	425.1	415.5	412.6
32.5°	1262.7	925.0	616.0	519.6	471.1	444.7	432.7	423.6	414.0	404.4	401.6
35°	1317.9	930.3	588.7	488.9	448.1	430.8	426.5	416.0	403.0	391.5	387.6
37.5°	1383.6	935.1	554.6	458.7	427.9	424.1	423.1	407.3	392.0	376.1	371.8
40°	1462.8	941.3	519.6	431.3	411.6	421.7	417.9	396.3	365.6	350.2	345.4
42.5°	1559.7	952.8	483.1	406.4	399.6	412.6	408.3	369.4	348.8	340.1	337.8
45°	1702.2	995.0	446.7	386.7	390.5	399.6	392.9	353.6	345.4	339.7	336.8
47.5°	1956.0	1059.8	415.0	371.8	383.3	388.1	362.2	349.3	343.0	335.4	332.0
50°	2219.8	1088.1	389.6	362.7	375.2	377.6	345.4	343.5	339.2	331.0	327.7
52.5°	2398.3	1084.3	374.2	359.3	368.5	359.3	337.8	337.3	334.4	324.8	321.0
55°	2599.8	1091.0	367.5	360.3	365.6	328.6	328.2	329.6	328.2	317.6	315.7
57.5°	2871.8	1111.6	364.1	363.7	363.7	313.8	319.0	321.0	318.1	313.3	311.8
60°	3133.3	1113.0	357.9	367.5	362.2	304.6	308.5	310.4	307.0	306.1	305.6
62.5°	3231.7	1044.0	344.0	364.6	356.5	294.6	297.5	298.4	295.1	297.5	297.0
65°	*3085.3*	*897.2*	*321.0*	*350.7*	*338.7*	*285.5*	*283.5*	*285.9*	*280.2*	*286.4*	*286.9*
67.5°	2739.4	712.9	285.9	324.3	313.8	275.4	271.5	271.5	261.9	271.5	271.1
70°	2208.8	503.7	234.6	282.1	286.4	263.4	261.5	250.4	235.1	249.5	248.0
72.5°	1674.4	361.7	184.7	223.1	246.6	246.6	247.1	228.4	210.6	217.3	211.6
75°	1060.7	254.8	147.8	170.8	193.3	216.4	227.4	192.9	177.0	174.2	171.3
77.5°	477.8	167.4	115.1	131.0	137.2	170.8	207.7	166.0	144.4	138.2	136.3
80°	200.1	104.1	82.0	92.6	84.4	143.4	183.3	129.1	106.0	97.4	91.2
82.5°	87.8	61.9	52.3	49.9	52.8	106.5	136.7	85.9	66.2	89.7	90.7
85°	36.9	32.6	26.9	24.5	21.6	40.8	64.3	33.6	41.3	23.5	19.2
87.5°	8.6	9.6	7.2	4.8	2.9	0.5	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

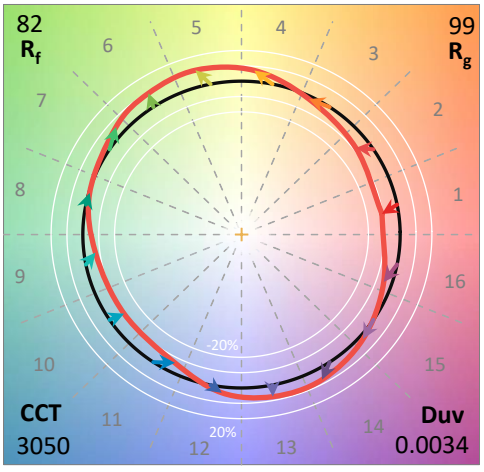
Test Information

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

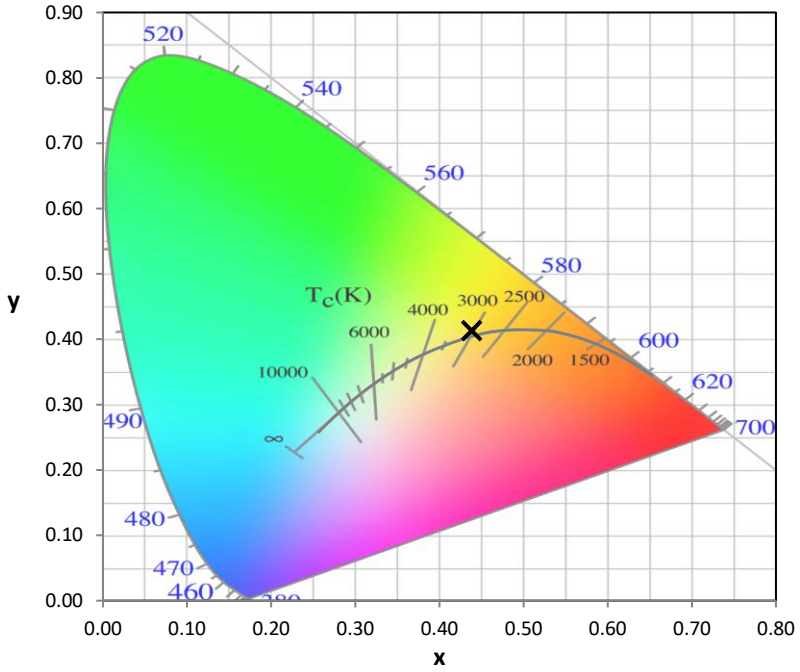
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

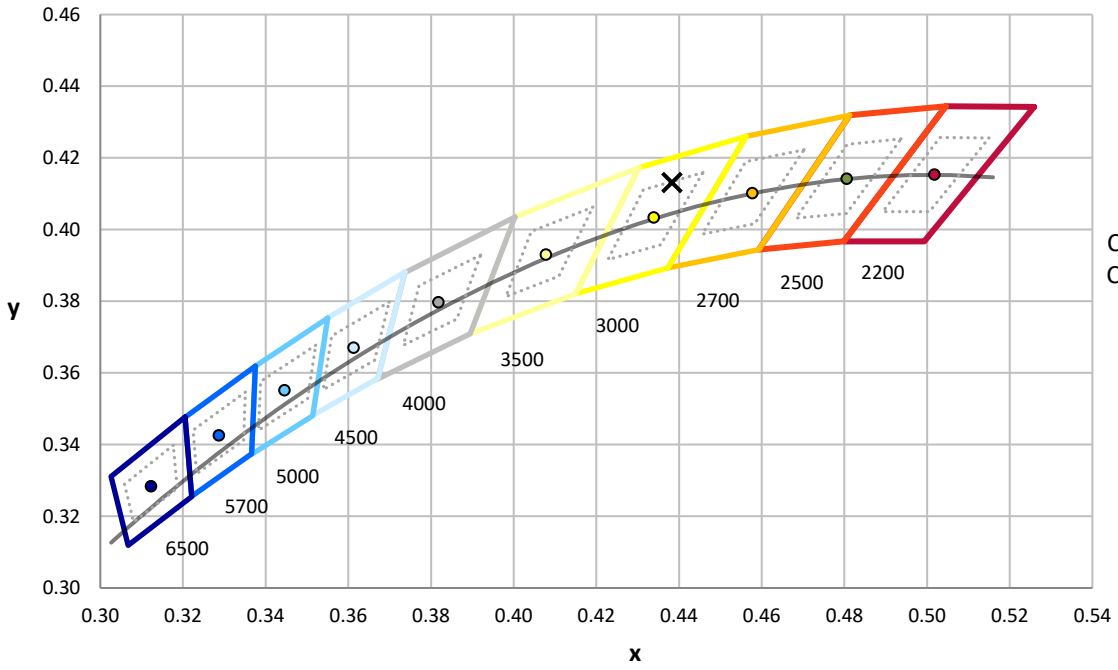
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

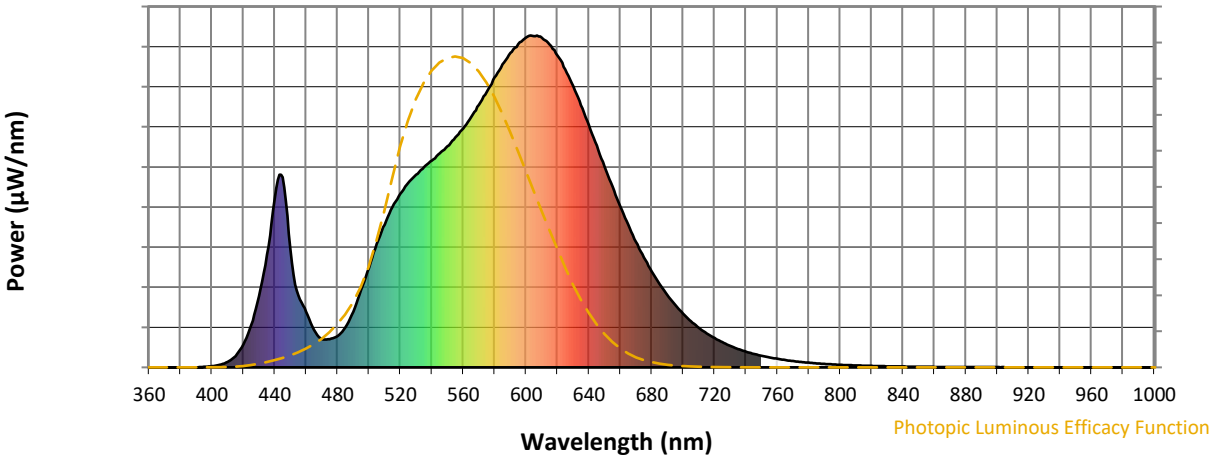


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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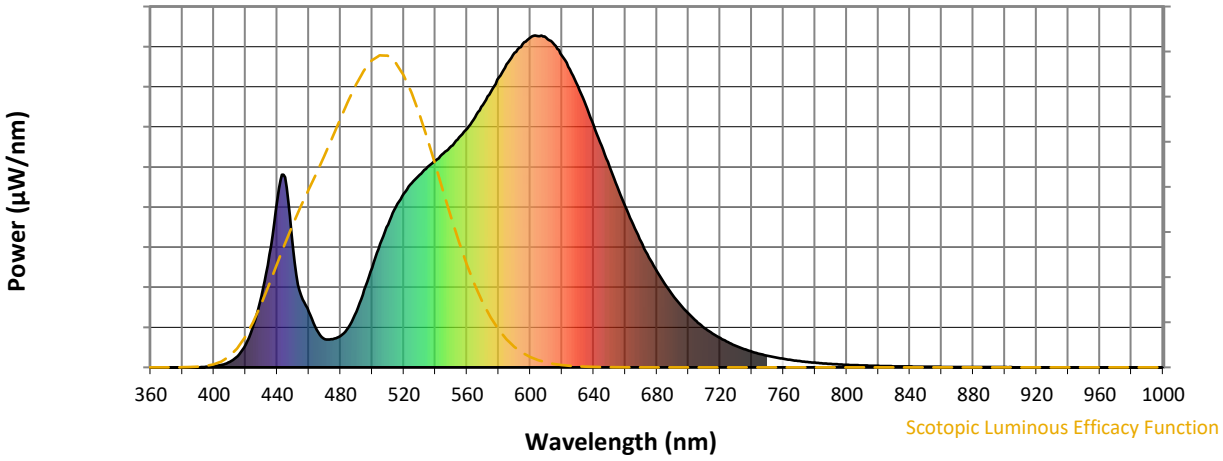
Scotopic Flux vs. Wavelength



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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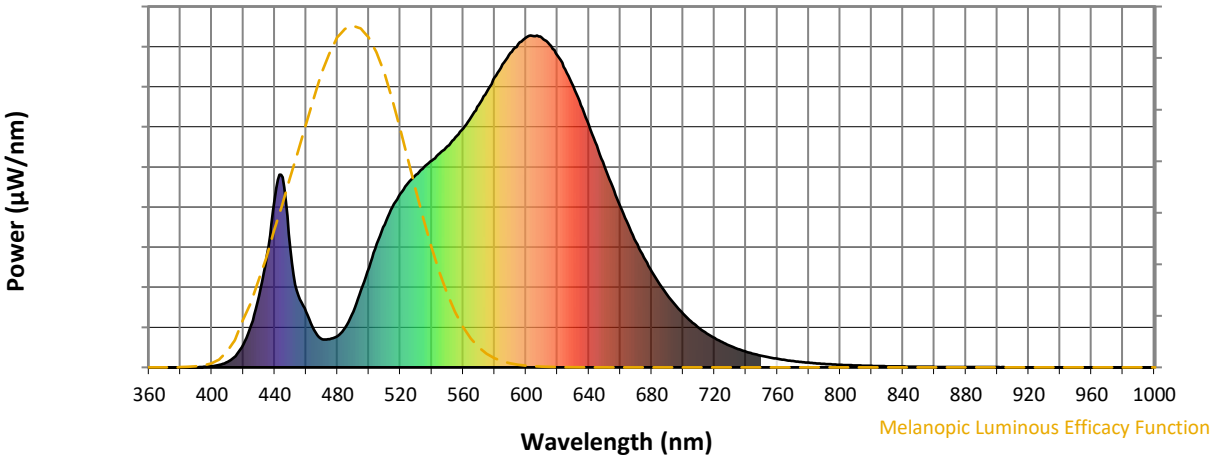
Melanopic Flux vs. Wavelength



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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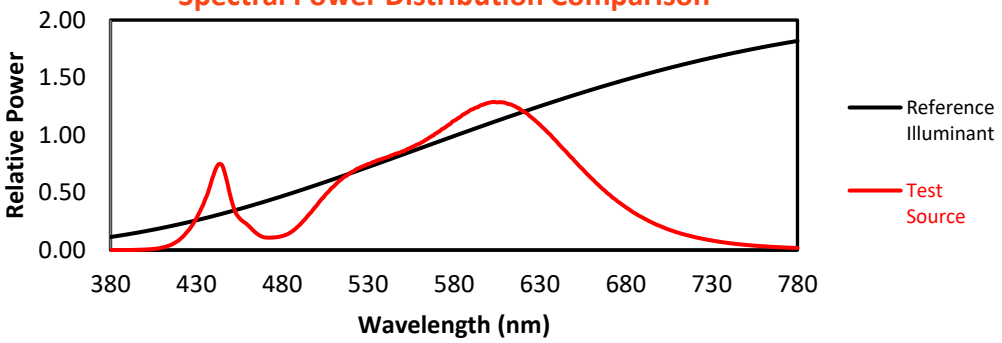
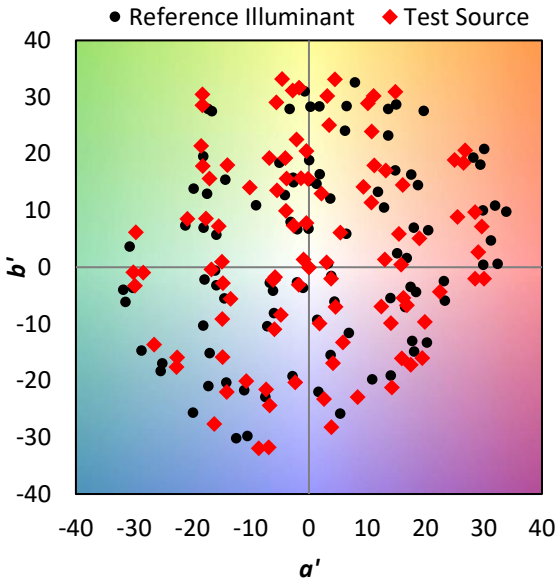
Summary

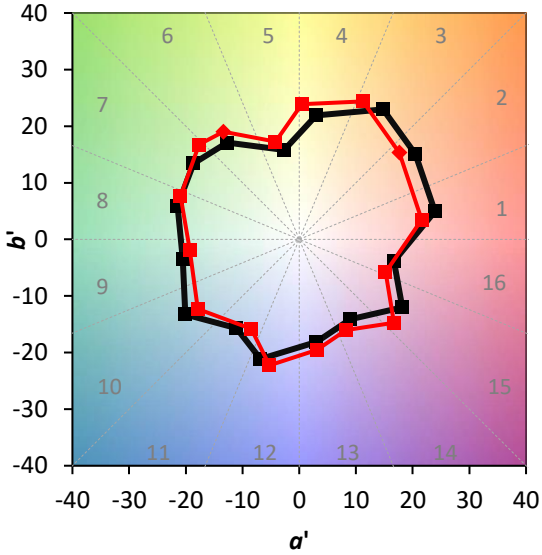
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

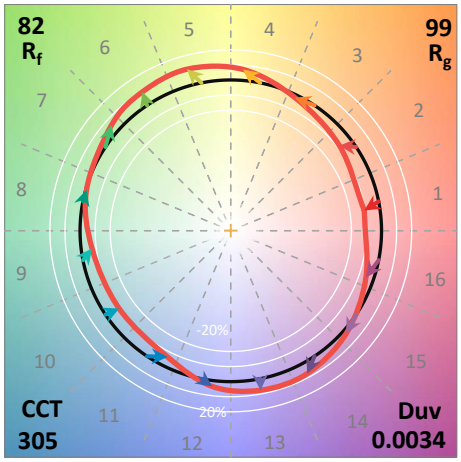
Spectral Power Distribution Comparison

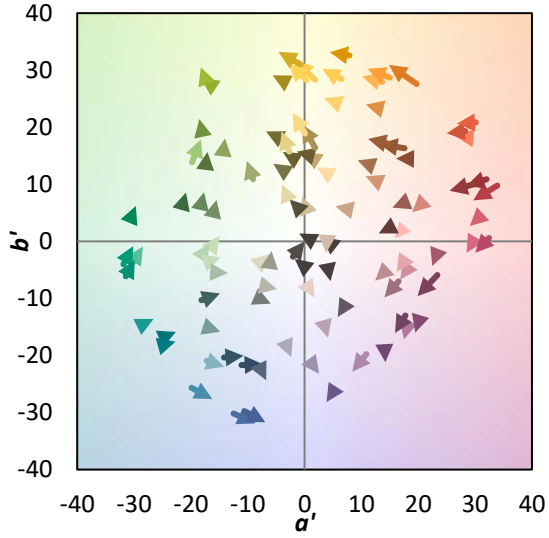


Color Vector Graphics









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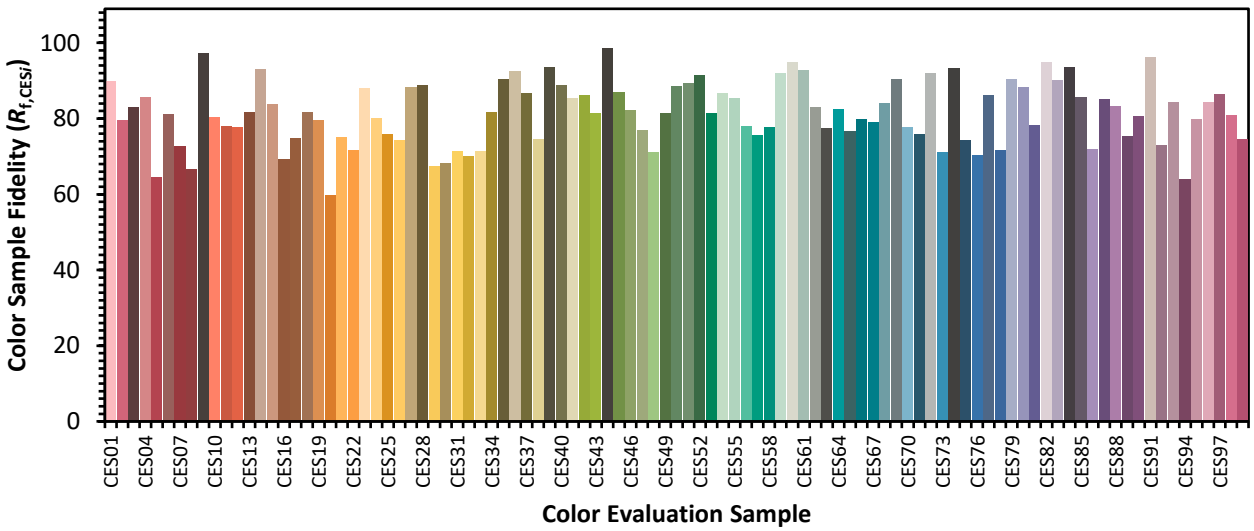
Individual Sample Fidelity Index ($R_{f,i}$)

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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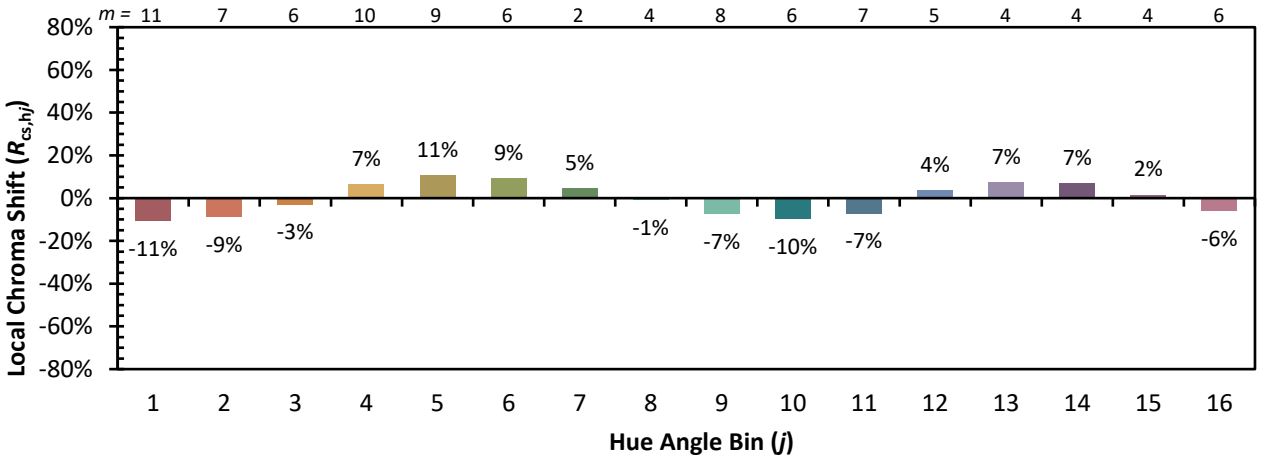
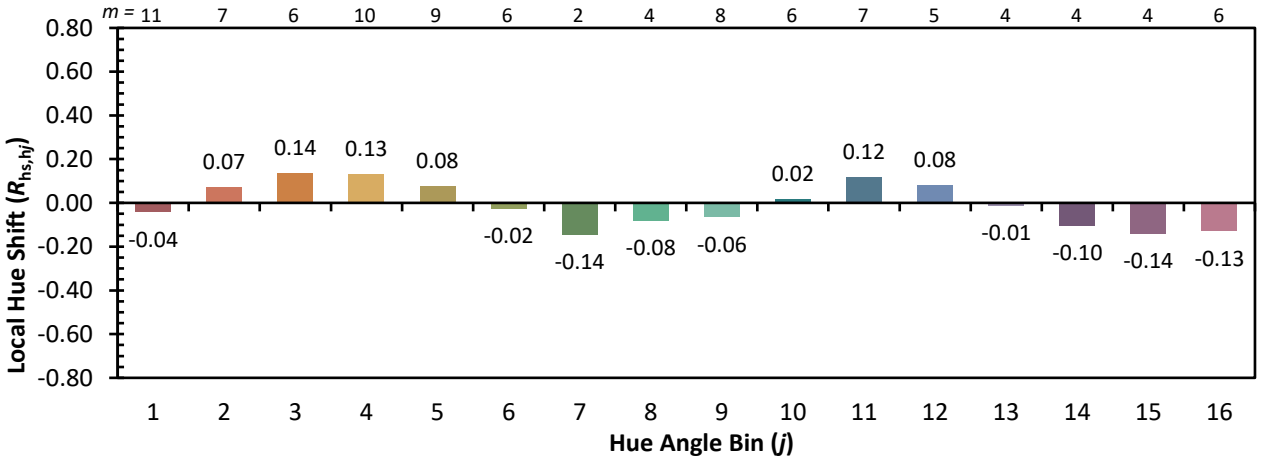
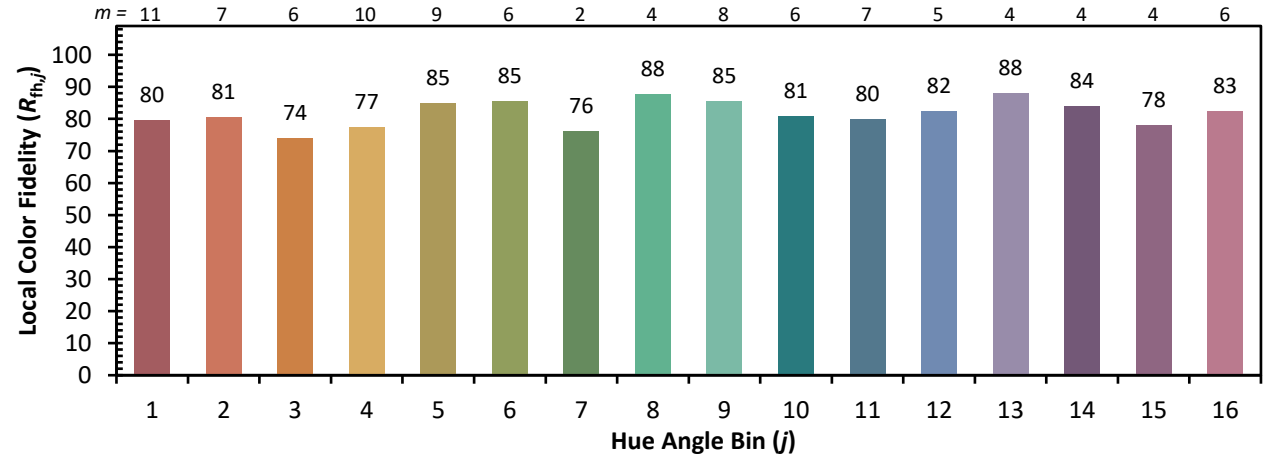
Color Rendition by Hue-Angle Bin







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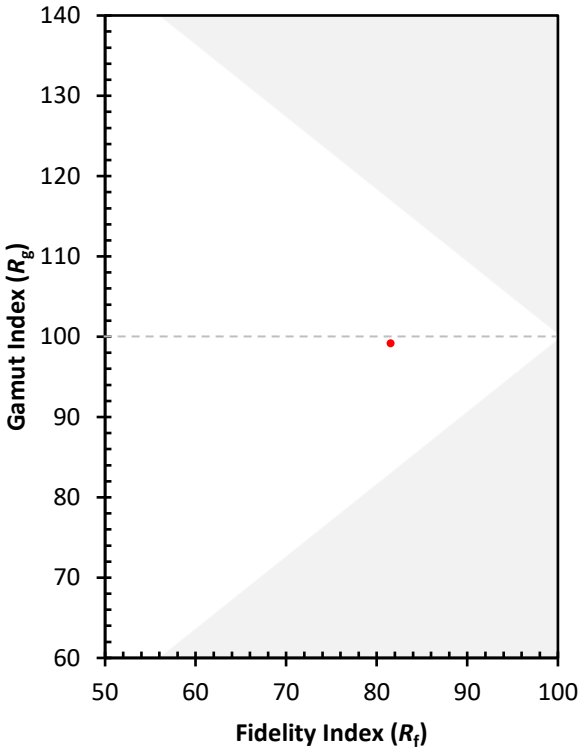
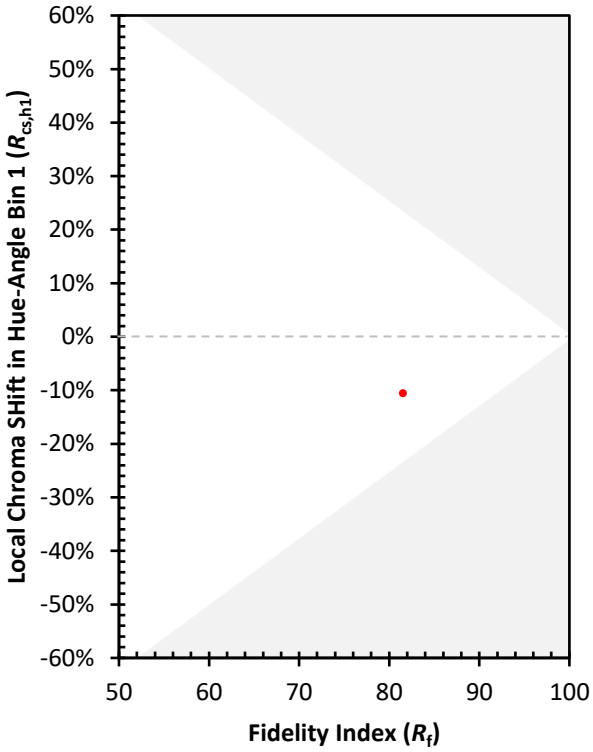
Measure Comparisons





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