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: P642920

Luminaire Tested: GWS-SA6D-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:	P642920
	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-SA6D-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28977.5 lumens
Efficiency:	N/A
Efficacy:	117.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	245.7
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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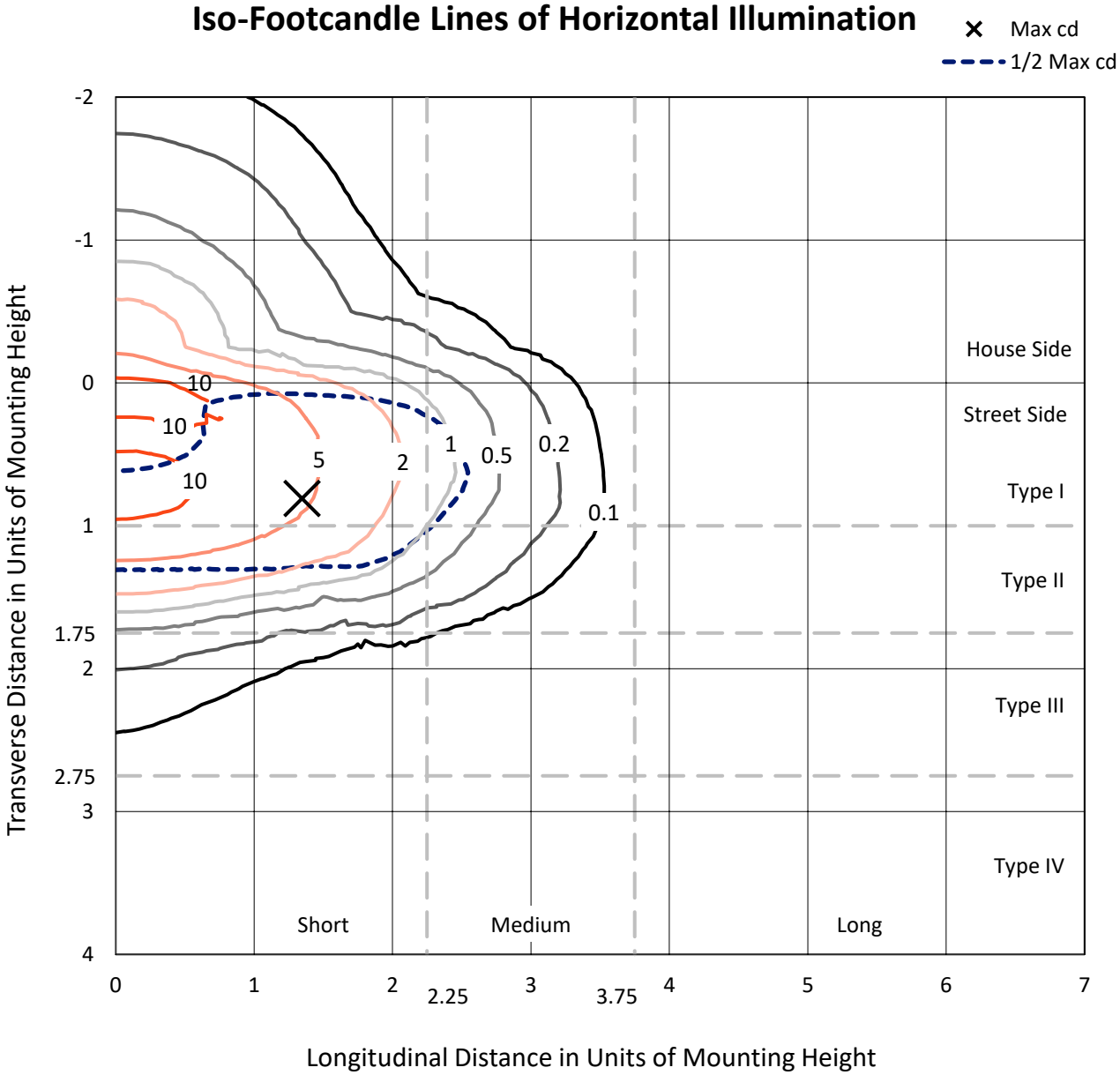
Scaled Data Report

REPORT NUMBER: P642920
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type II - Short - N/A

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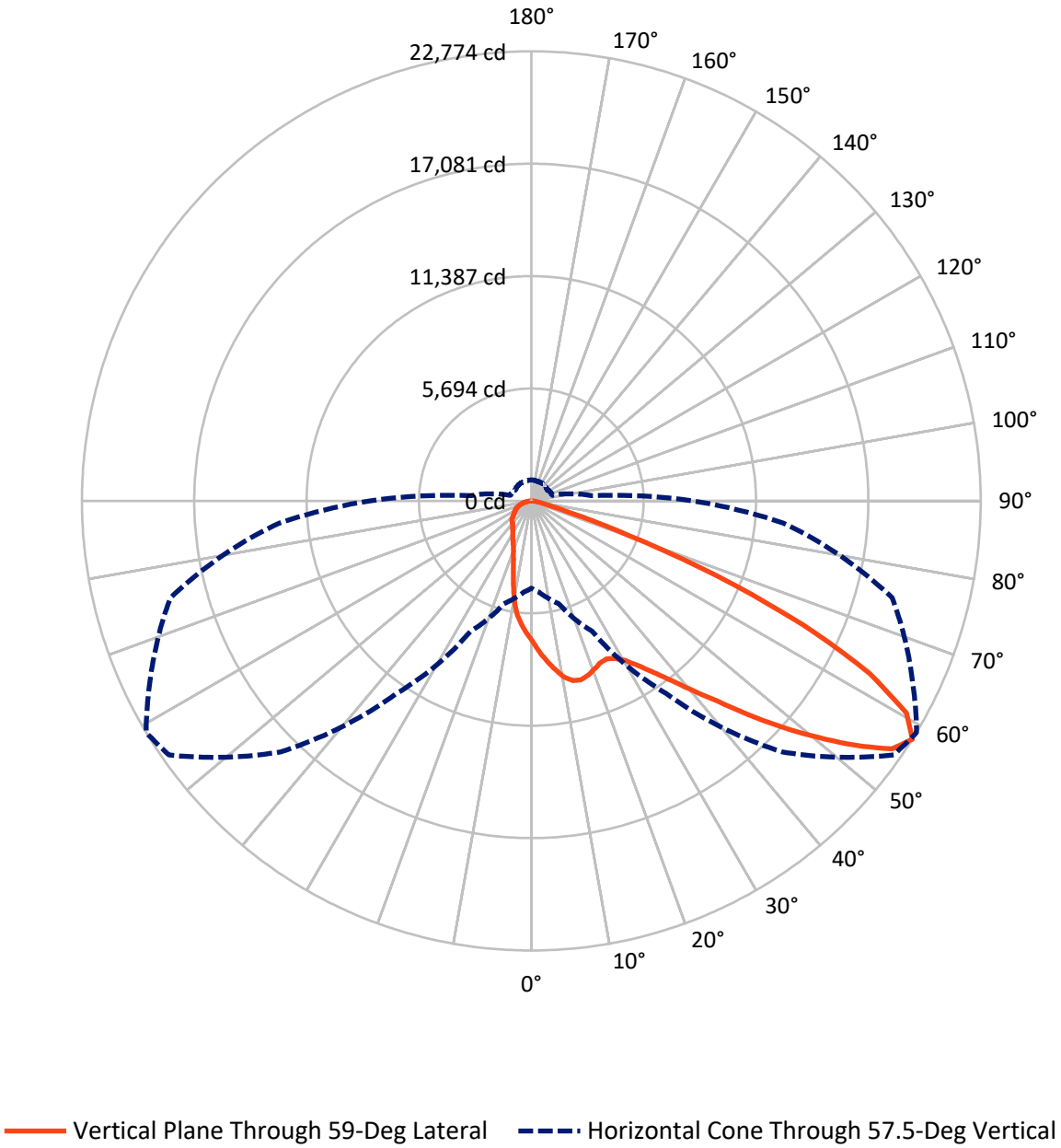
Luminous Intensity Polar Plot



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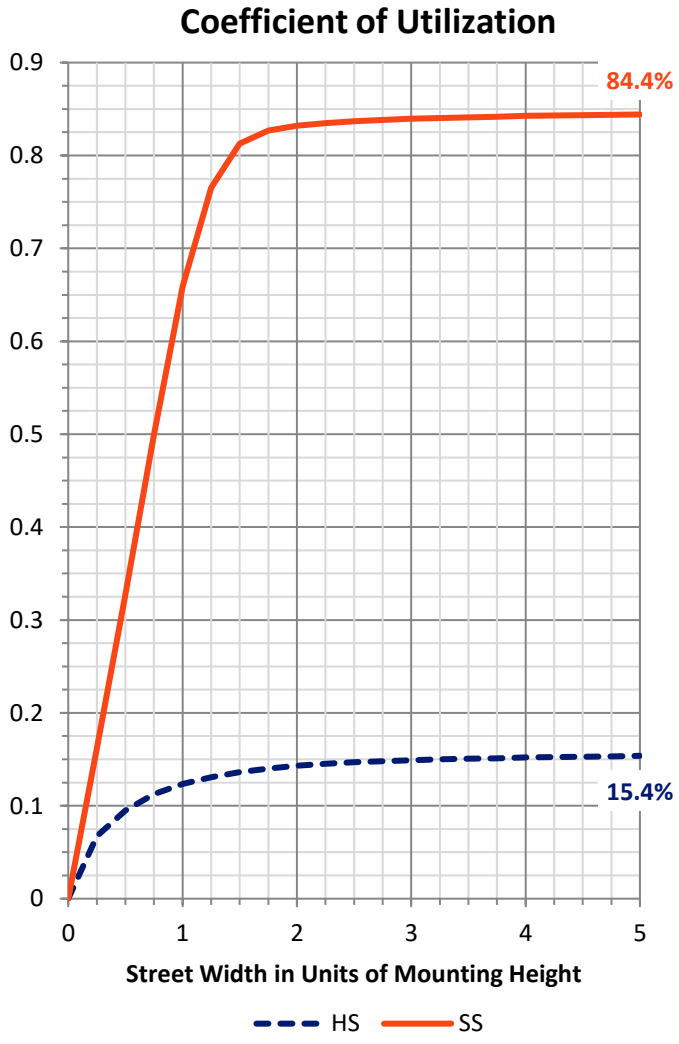
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4497.2	0.0	4497.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	24480.3	0.0	24480.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	28977.5	0.0	28977.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.5	2.3
10°-20°	1673.7	5.8
20°-30°	2713.1	9.4
30°-40°	4364.3	15.1
40°-50°	6777.4	23.4
50°-60°	7300.1	25.2
60°-70°	4236.7	14.6
70°-80°	1106.0	3.8
80°-90°	145.7	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°	28977.5	100.0
0°-180°	28977.5	100.0



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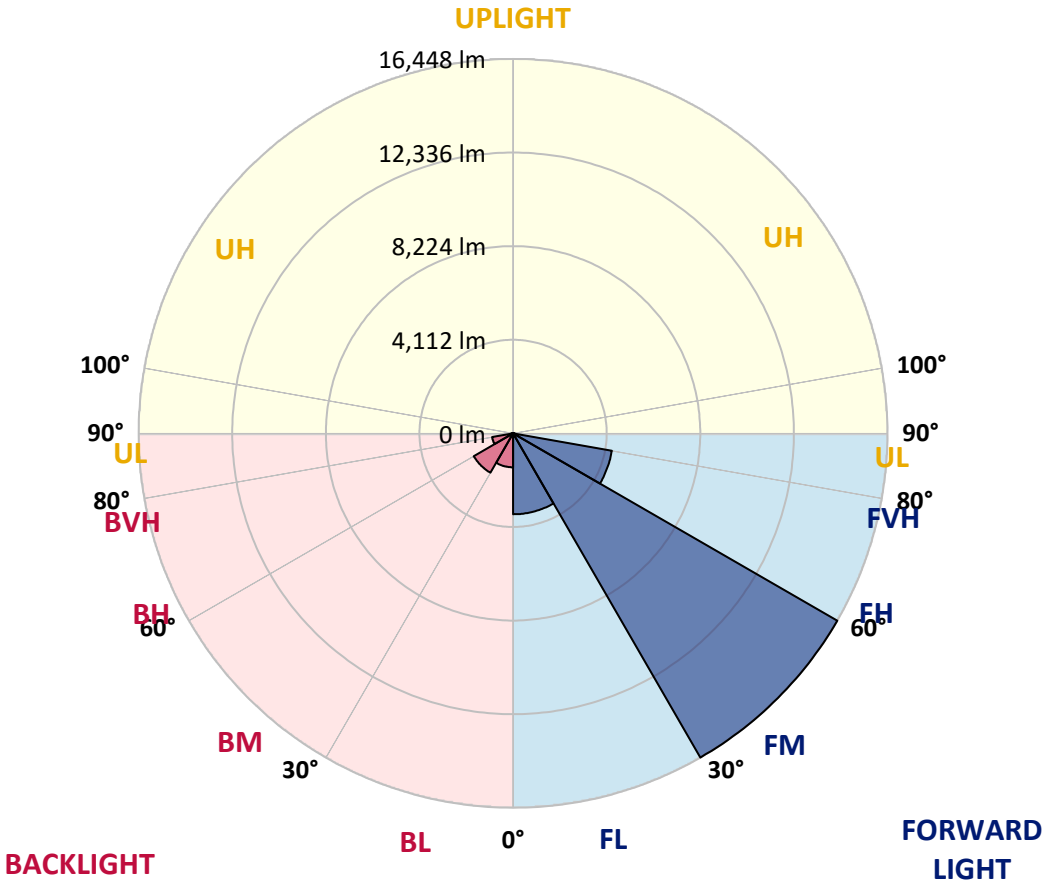
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3555.3	12.3			
FM	(30°-60°)	16448.0	56.8			
FH	(60°-80°)	4407.4	15.2			G2/5000
FVH	(80°-90°)	69.8	0.2			G1/100
BL	(0°-30°)	1492.0	5.1	B3/2500		
BM	(30°-60°)	1993.9	6.9	B2/2500		
BH	(60°-80°)	935.4	3.2	B2/1000		G2/1000
BVH	(80°-90°)	75.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P642920
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4
2.5°	8068.1	8000.8	8047.7	7964.1	7929.4	7837.6	7719.3	7639.7	7517.3	7358.2	7219.5
5°	8869.8	8822.9	8833.1	8743.3	8663.8	8510.8	8268.0	8133.4	7925.3	7605.0	7307.2
7.5°	8845.3	8900.4	8931.0	9008.5	9031.0	9016.7	8798.4	8610.7	8382.3	7900.8	7452.0
10°	7929.4	8033.4	8127.3	8392.5	8714.8	9122.8	9173.8	9061.6	8831.1	8278.2	7625.4
12.5°	6931.8	7011.4	7095.0	7413.3	7906.9	8722.9	9275.8	9345.1	9253.3	8651.5	7821.3
15°	6442.2	6479.0	6558.5	6768.6	7162.4	8068.1	9098.3	9402.3	9567.5	9047.3	8041.6
17.5°	6421.8	6438.2	6476.9	6589.1	6862.5	7562.2	8778.0	9288.0	9814.3	9465.5	8298.6
20°	6844.1	6801.3	6776.8	6774.8	6909.4	7392.9	8467.9	9104.4	9930.6	9893.9	8574.0
22.5°	7429.6	7443.9	7390.8	7260.3	7244.0	7513.2	8312.9	8918.8	9965.3	10273.3	8829.0
25°	8259.9	8331.3	8174.2	7925.3	7802.9	7862.1	8408.8	8861.7	9961.2	10589.5	8988.1
27.5°	9228.9	9283.9	9124.8	8798.4	8545.5	8402.7	8694.4	9031.0	9995.9	10862.9	9084.0
30°	10332.5	10350.8	10132.6	9789.8	9420.6	9114.6	9169.7	9379.8	10173.4	11221.9	9196.2
32.5°	11680.9	11758.4	11427.9	10885.3	10369.2	9977.5	9808.2	9942.8	10556.9	11646.2	9369.6
35°	13392.4	13419.0	12998.7	12221.5	11491.2	10948.6	10593.6	10665.0	11140.3	12239.9	9630.7
37.5°	15006.1	15032.6	14585.8	13863.7	12819.2	12076.7	11562.6	11529.9	11886.9	13078.3	10057.1
40°	16030.1	16105.6	15905.7	15452.8	14455.3	13453.6	12756.0	12643.8	12866.1	14104.4	10650.7
42.5°	16580.9	16613.6	16609.5	16668.6	16075.0	15079.5	14102.4	13878.0	14026.9	15212.1	11250.5
45°	16585.0	16666.6	16884.9	17454.0	17480.6	16860.4	15803.7	15452.8	15316.1	16328.0	11876.7
47.5°	15842.5	15930.2	16529.9	17649.9	18476.1	18616.8	17841.6	17137.8	16562.6	17288.8	12390.8
50°	13594.4	13814.7	14957.1	16937.9	18671.9	20024.4	19785.7	18831.0	17670.3	18031.3	12713.1
52.5°	11642.1	11634.0	12337.8	14926.5	17853.9	20644.6	21666.6	20573.2	18765.7	18502.6	12794.7
55°	8525.1	8572.0	9292.1	11415.7	15671.1	20044.8	22700.9	22176.6	20022.4	18753.5	12762.1
57.5°	4420.6	4653.2	5391.7	7284.8	11907.3	17980.3	22425.5	22774.3	21299.4	18931.0	12804.9
60°	2233.8	2188.9	2454.1	3478.2	6899.2	14043.2	20728.2	21840.0	21529.9	19069.7	12831.4
62.5°	1491.2	1479.0	1405.5	1611.6	2819.2	8317.0	17670.3	19228.8	19928.5	18743.3	12492.8
65°	1291.3	1266.8	1132.2	1124.0	1368.8	3449.6	12951.8	15116.2	16470.8	17292.9	11682.9
67.5°	1162.8	1126.1	989.4	922.1	983.3	1515.7	7299.0	10138.7	12162.3	14624.6	9908.2
70°	1038.3	1020.0	883.3	785.4	779.3	924.1	2688.7	5232.5	7441.8	9977.5	7244.0
72.5°	930.2	897.6	781.3	687.5	640.6	654.8	1166.9	2015.5	3851.5	6224.0	4332.9
75°	805.8	781.3	679.3	585.5	528.4	479.4	712.0	932.3	1756.4	2958.0	2046.1
77.5°	622.2	605.9	536.5	465.1	432.5	357.0	432.5	587.5	811.9	1246.4	1064.9
80°	361.1	371.3	399.8	363.1	318.2	255.0	281.5	338.6	487.6	675.2	603.8
82.5°	181.6	193.8	259.1	210.1	189.7	148.9	167.3	199.9	255.0	373.3	236.6
85°	14.3	14.3	46.9	53.0	65.3	53.0	67.3	81.6	116.3	148.9	79.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	10.2	18.4	34.7	22.4
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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Scaled Data Report

REPORT NUMBER: P642920
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4	7113.4
2.5°	7125.6	7021.6	6897.2	6795.2	6638.1	6554.4	6448.4	6317.8	6264.8	6240.3	6226.0
5°	7139.9	6956.3	6691.1	6446.3	6175.0	5960.8	5722.1	5473.3	5330.5	5295.8	5271.3
7.5°	7193.0	6935.9	6513.6	6109.7	5605.9	5138.7	4683.8	4233.0	4002.4	3914.7	3906.6
10°	7266.4	6927.8	6334.1	5663.0	4812.3	4073.8	3541.4	3188.5	3039.6	2990.6	2974.3
12.5°	7358.2	6921.6	6097.5	5042.8	3896.4	3198.7	2894.7	2837.6	2858.0	2853.9	2853.9
15°	7474.5	6929.8	5811.9	4341.1	3151.8	2776.4	2782.5	2849.8	2913.1	2923.3	2923.3
17.5°	7601.0	6921.6	5397.8	3637.3	2705.0	2676.4	2770.3	2864.1	2921.2	2929.4	2929.4
20°	7737.6	6882.9	4875.5	2974.3	2509.2	2613.2	2715.2	2788.6	2823.3	2831.5	2831.5
22.5°	7819.2	6772.7	4308.4	2517.3	2384.7	2513.3	2580.6	2656.0	2660.1	2594.8	2592.8
25°	7807.0	6566.7	3661.8	2223.6	2252.1	2364.3	2450.0	2397.0	2331.7	2295.0	2288.9
27.5°	7729.5	6256.6	3002.8	2001.2	2095.1	2221.5	2195.0	2150.1	2133.8	2093.0	2088.9
30°	7631.6	5875.1	2411.3	1827.8	1931.9	2048.1	2007.3	2003.3	1986.9	1942.1	1942.1
32.5°	7537.7	5481.4	1964.5	1699.3	1827.8	1836.0	1893.1	1897.2	1889.0	1811.5	1803.3
35°	7511.2	5087.7	1662.6	1597.3	1725.8	1721.7	1803.3	1801.3	1660.5	1552.4	1550.4
37.5°	7590.8	4687.9	1483.1	1513.7	1585.1	1638.1	1703.4	1585.1	1538.1	1472.9	1468.8
40°	7760.1	4318.6	1391.3	1464.7	1495.3	1572.8	1470.8	1479.0	1466.7	1417.8	1411.7
42.5°	7984.5	4004.5	1340.3	1448.4	1444.3	1464.7	1352.5	1385.1	1403.5	1366.8	1360.7
45°	8200.7	3731.1	1313.7	1387.2	1407.6	1289.3	1266.8	1297.4	1326.0	1311.7	1305.6
47.5°	8359.8	3494.5	1299.5	1303.5	1360.7	1230.1	1193.4	1207.7	1242.3	1248.5	1246.4
50°	8408.8	3292.5	1283.1	1234.2	1221.9	1170.9	1142.4	1138.3	1179.1	1207.7	1211.7
52.5°	8314.9	3113.0	1240.3	1173.0	1113.8	1122.0	1111.8	1091.4	1132.2	1170.9	1175.0
55°	8176.2	3011.0	1173.0	1113.8	1044.5	1077.1	1081.2	1062.8	1089.3	1115.9	1115.9
57.5°	*8186.4*	*3070.2*	*1107.7*	*1058.7*	*983.3*	*1026.1*	*1048.5*	*1040.4*	*1040.4*	*1060.8*	*1062.8*
60°	8253.7	3155.8	1064.9	989.4	922.1	966.9	1017.9	1009.8	991.4	1017.9	1017.9
62.5°	8059.9	3041.6	1036.3	922.1	856.8	909.8	971.0	966.9	946.5	989.4	993.5
65°	7488.8	2735.6	1003.7	838.4	791.5	852.7	905.7	920.0	901.7	958.8	969.0
67.5°	6277.0	2301.1	940.4	758.9	726.2	783.4	834.4	854.8	840.5	907.8	915.9
70°	4679.7	1862.5	840.5	671.2	646.7	697.7	744.6	752.8	754.8	834.4	842.5
72.5°	2984.5	1448.4	707.9	573.2	554.9	593.6	628.3	661.0	675.2	750.7	748.7
75°	1664.6	1077.1	569.2	485.5	452.9	483.5	524.3	563.0	603.8	714.0	726.2
77.5°	958.8	756.8	450.8	389.6	350.9	383.5	418.2	473.3	595.7	691.6	679.3
80°	540.6	491.6	340.7	285.6	261.1	285.6	312.1	416.2	469.2	510.0	516.1
82.5°	253.0	275.4	232.6	175.4	175.4	191.8	216.2	322.3	355.0	289.7	253.0
85°	91.8	124.4	114.2	89.8	79.6	77.5	134.6	183.6	114.2	102.0	87.7
87.5°	24.5	34.7	32.6	22.4	12.2	10.2	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

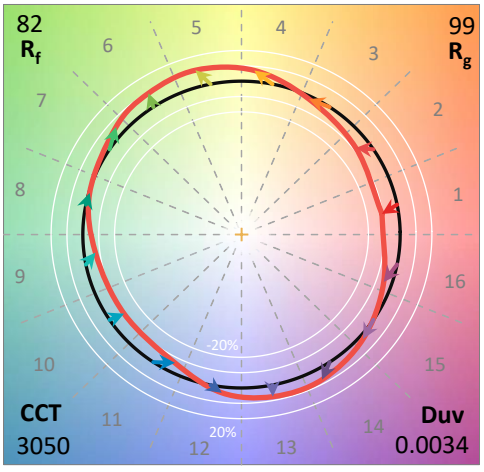
Test Information

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

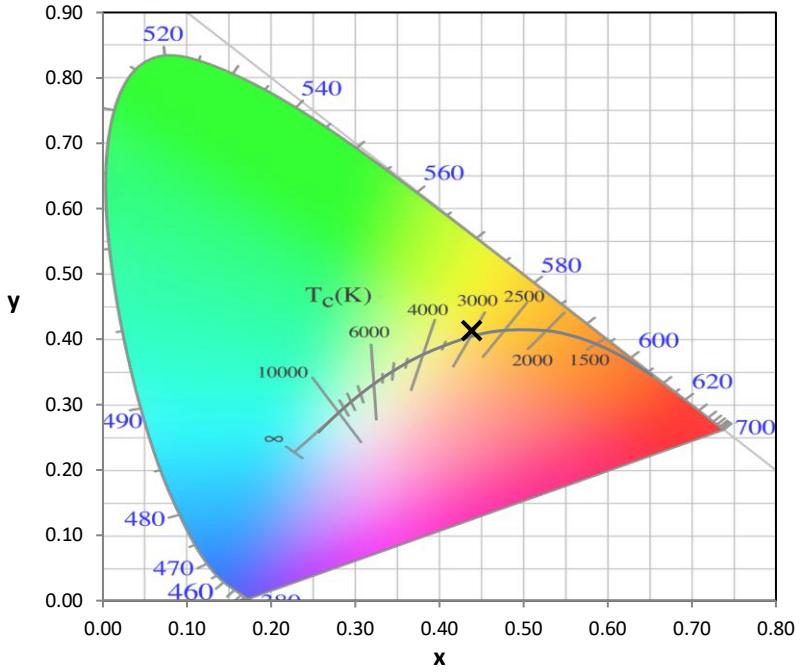
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

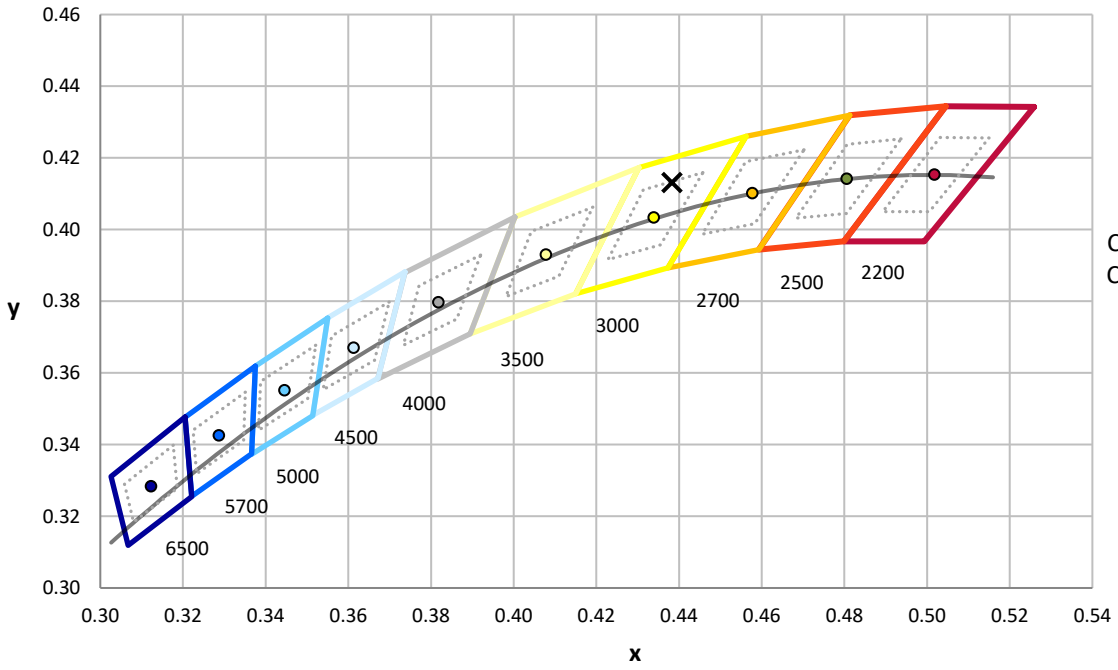
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

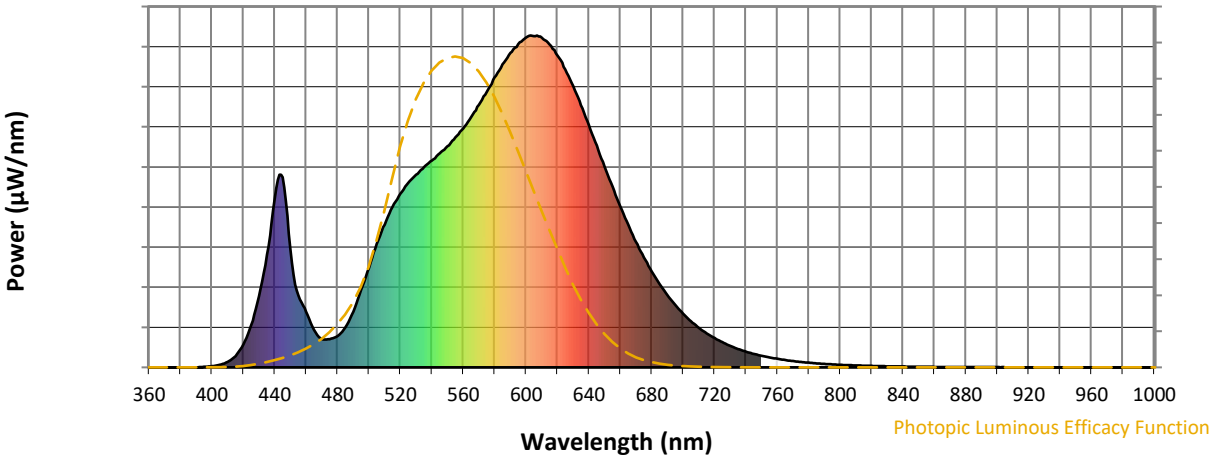


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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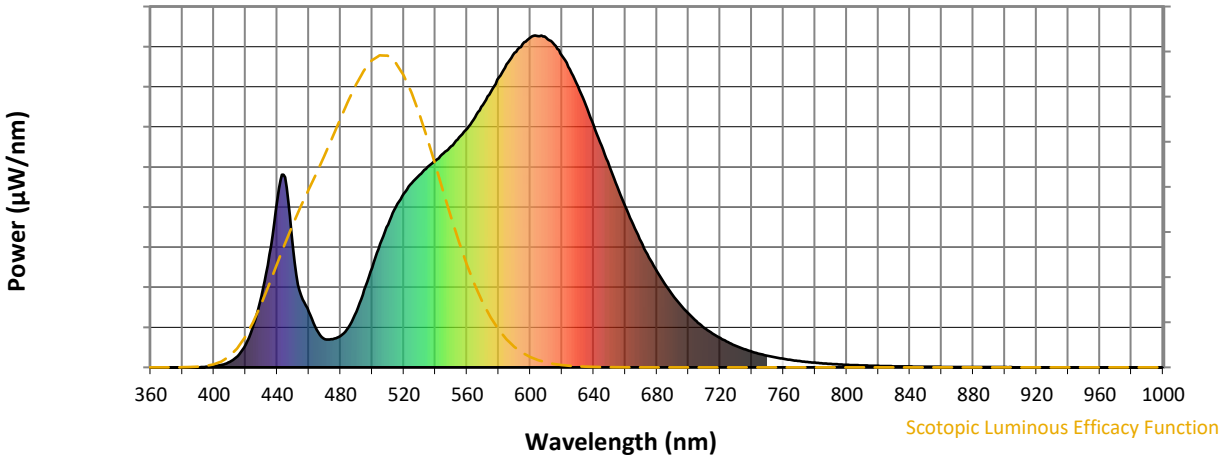
Scotopic Flux vs. Wavelength



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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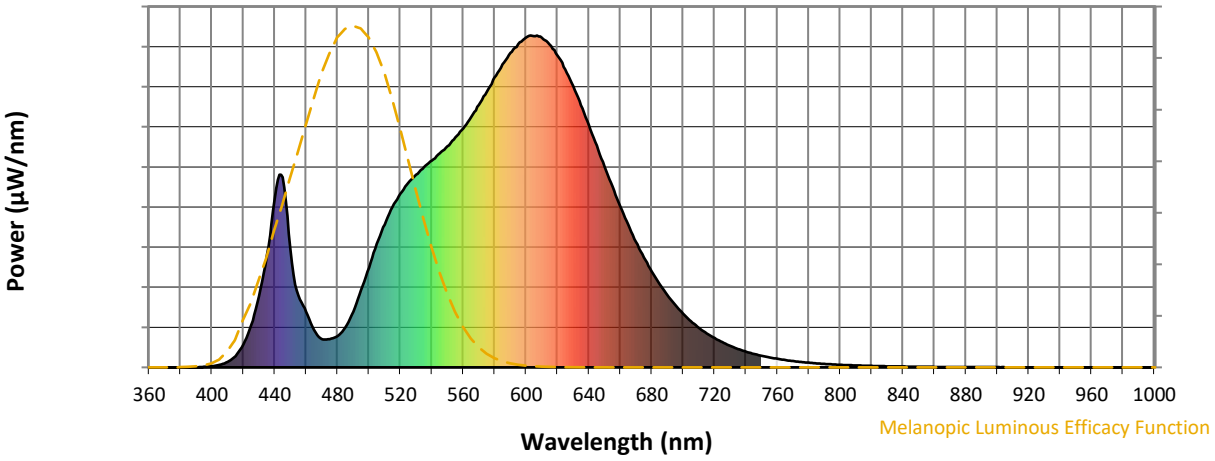
Melanopic Flux vs. Wavelength



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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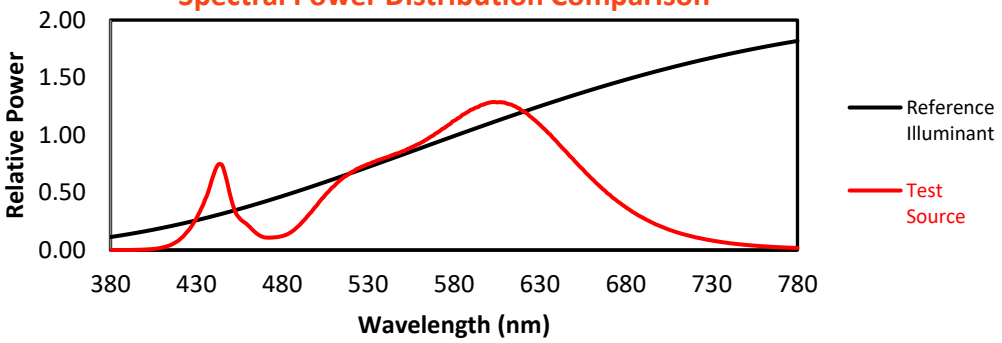
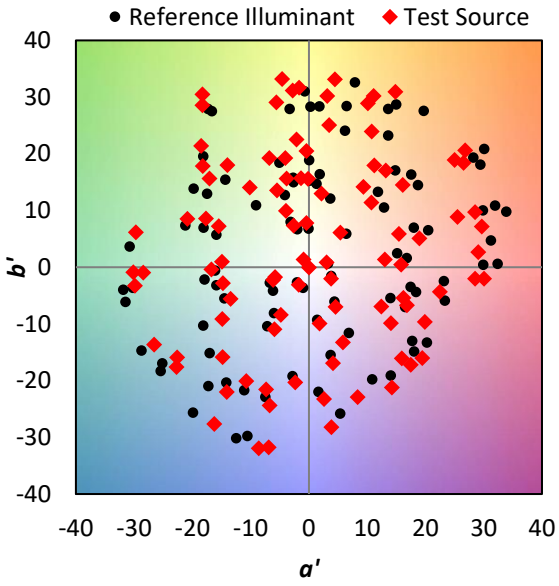
Summary

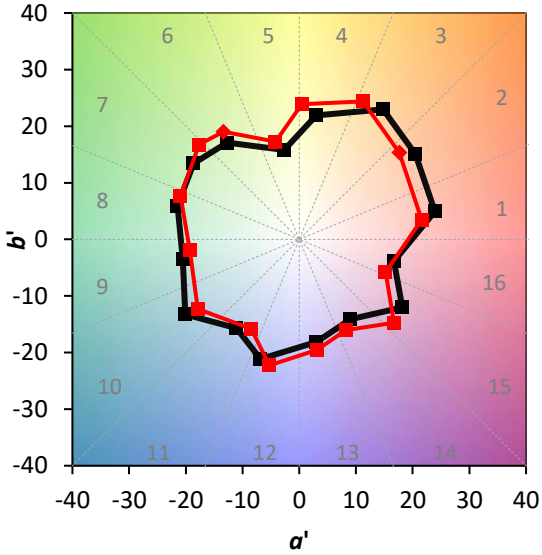
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

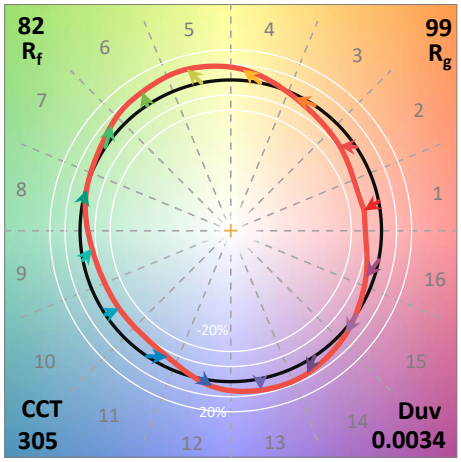
Spectral Power Distribution Comparison

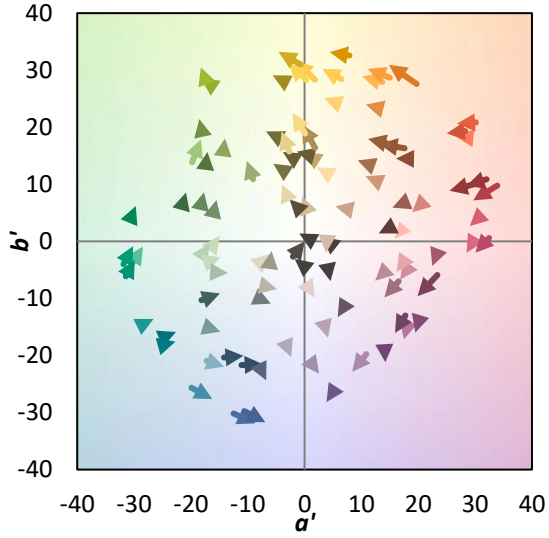


Color Vector Graphics









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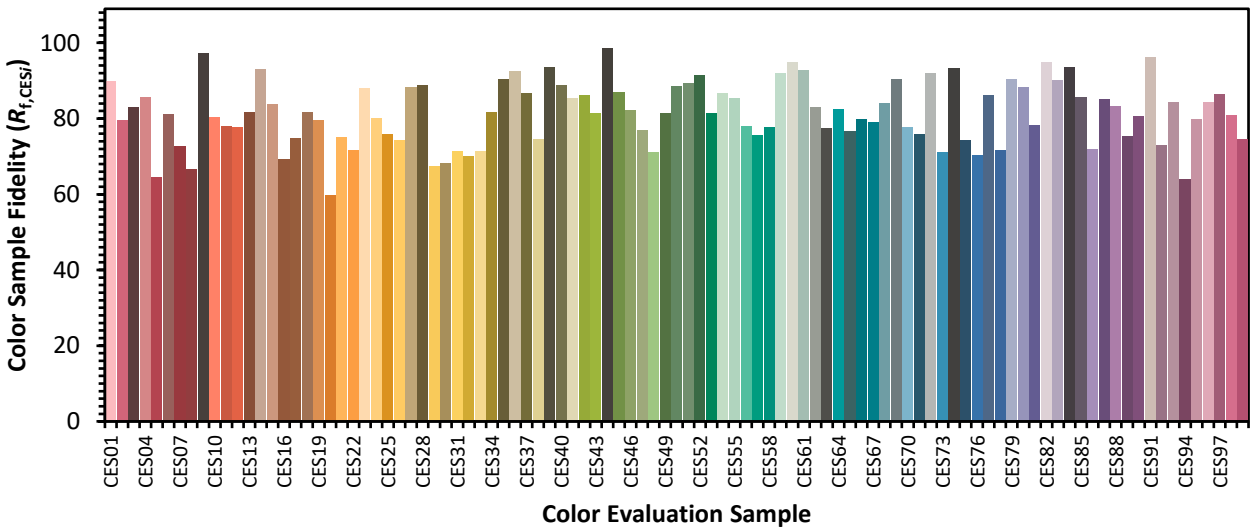
Individual Sample Fidelity Index ($R_{f,i}$)

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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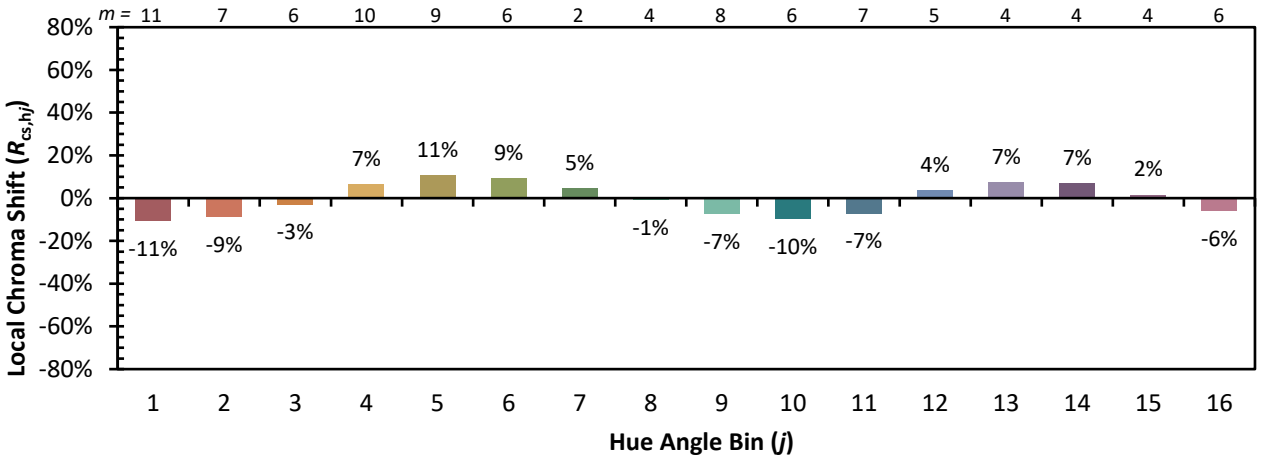
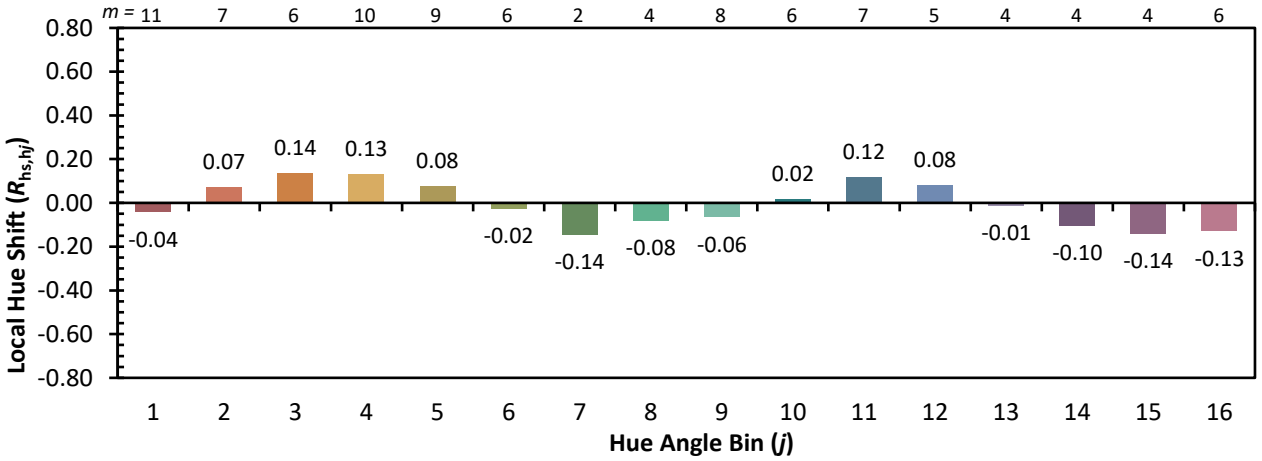
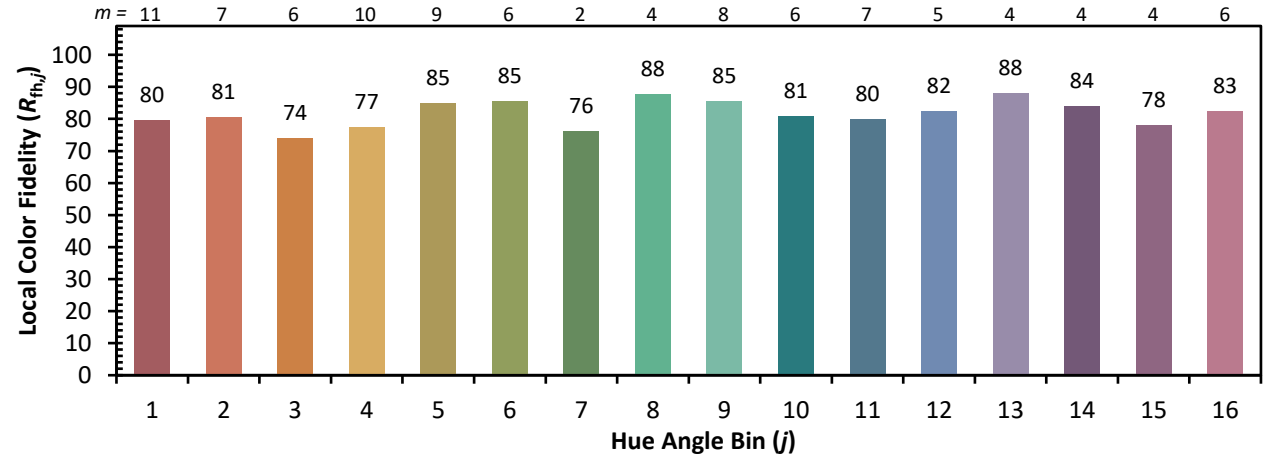
Color Rendition by Hue-Angle Bin







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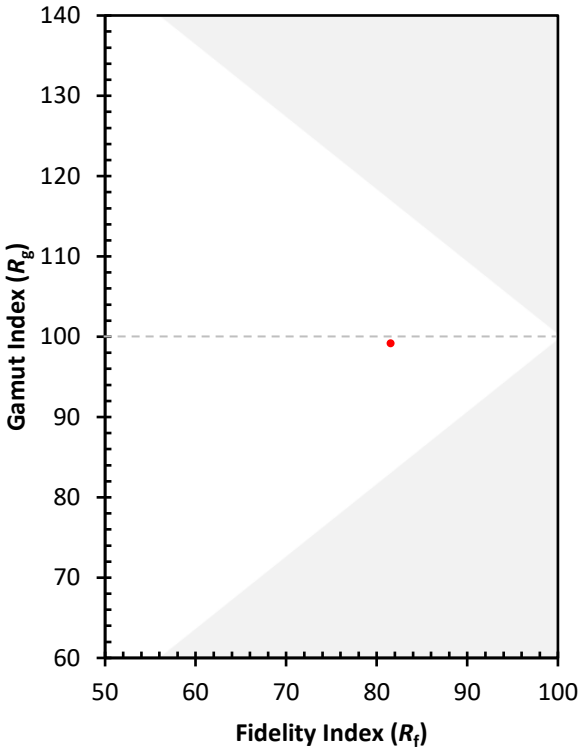
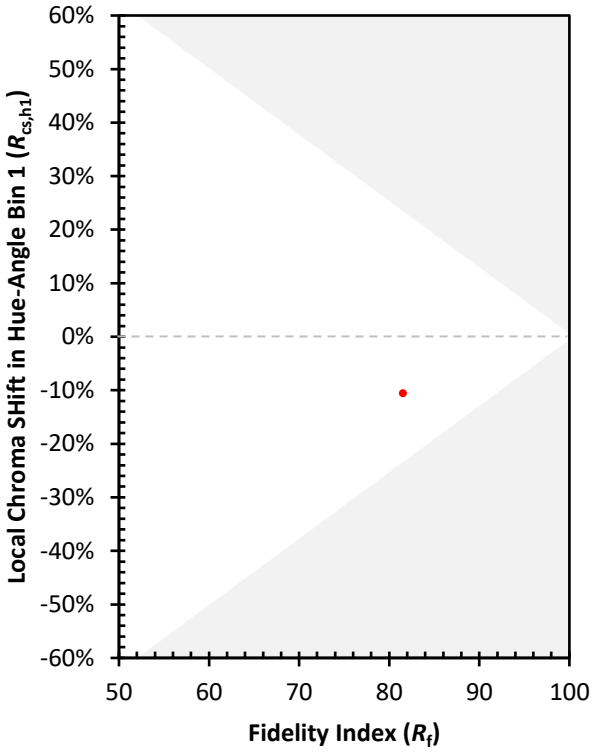
Measure Comparisons





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