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: P640940

Luminaire Tested: GWS-SA5E-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:	P640940
	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-SA5E-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30368.1 lumens
Efficiency:	N/A
Efficacy:	112.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	269.6
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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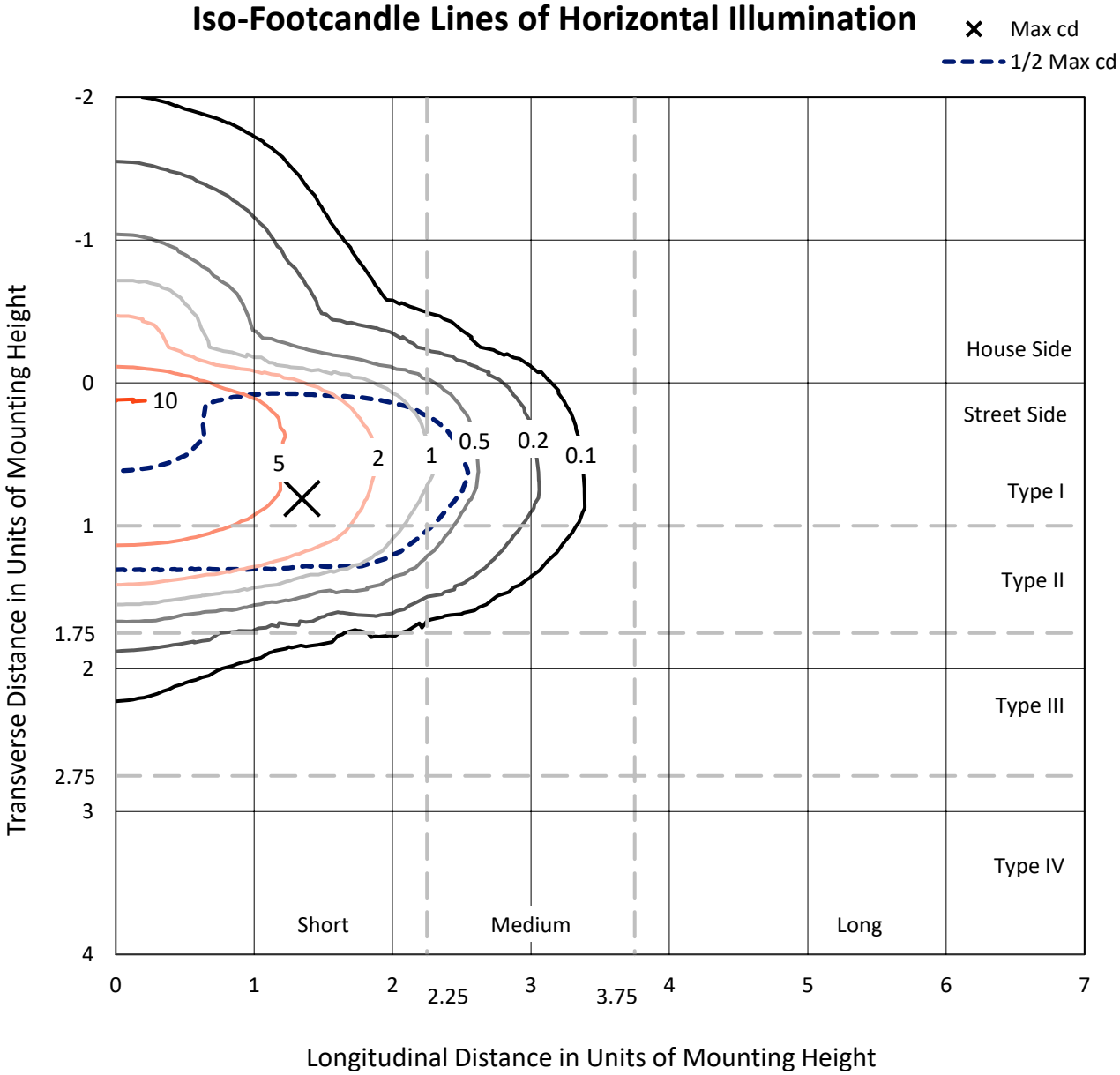
Scaled Data Report

REPORT NUMBER: P640940
CATALOG NUMBER: GWS-SA5E-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Short - N/A

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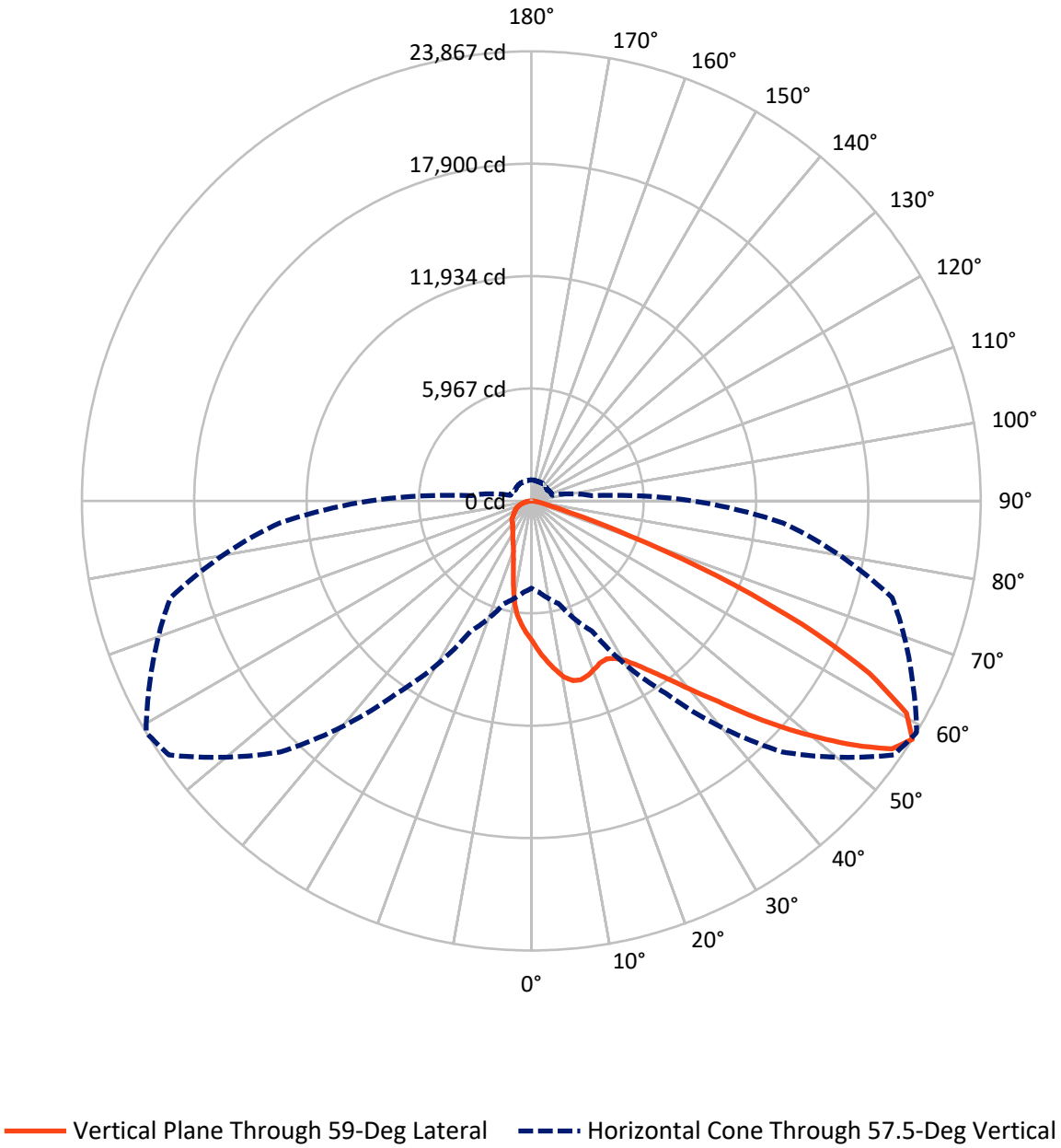
Luminous Intensity Polar Plot



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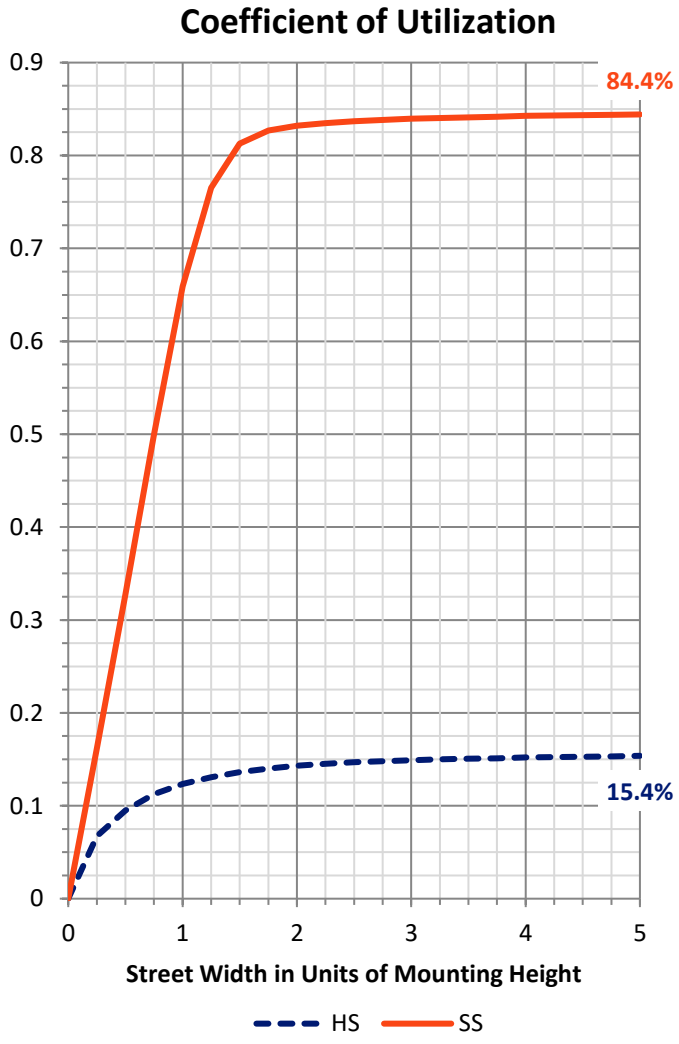
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4713.0	0.0	4713.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	25655.1	0.0	25655.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	30368.1	0.0	30368.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.2	2.3
10°-20°	1754.0	5.8
20°-30°	2843.3	9.4
30°-40°	4573.8	15.1
40°-50°	7102.6	23.4
50°-60°	7650.5	25.2
60°-70°	4440.0	14.6
70°-80°	1159.1	3.8
80°-90°	152.7	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°	30368.1	100.0
0°-180°	30368.1	100.0



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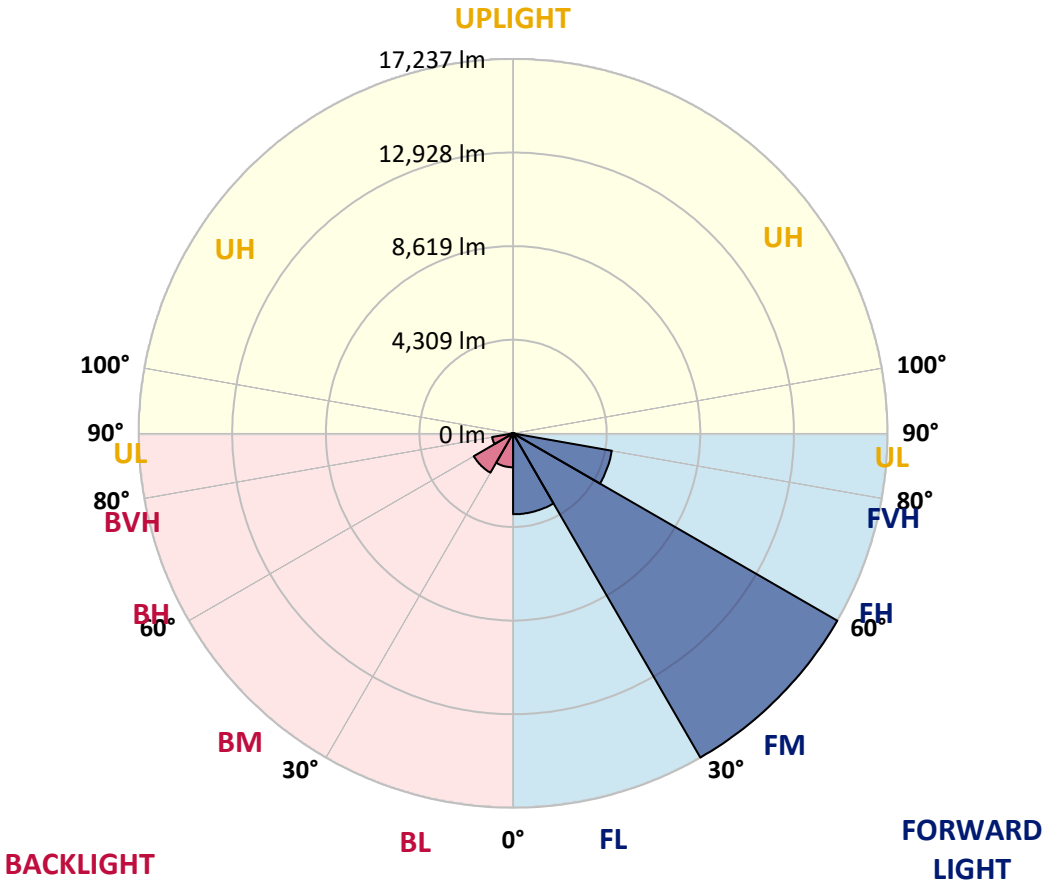
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3725.9	12.3			
FM	(30°-60°)	17237.3	56.8			
FH	(60°-80°)	4618.9	15.2			G2/5000
FVH	(80°-90°)	73.1	0.2			G1/100
BL	(0°-30°)	1563.6	5.1	B3/2500		
BM	(30°-60°)	2089.5	6.9	B2/2500		
BH	(60°-80°)	980.3	3.2	B2/1000		G2/1000
BVH	(80°-90°)	79.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P640940
CATALOG NUMBER: GWS-SA5E-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8
2.5°	8455.3	8384.7	8433.9	8346.3	8309.9	8213.7	8089.7	8006.3	7878.1	7711.3	7565.9
5°	9295.5	9246.3	9257.0	9162.9	9079.5	8919.2	8664.8	8523.7	8305.6	7970.0	7657.9
7.5°	9269.8	9327.5	9359.6	9440.8	9464.4	9449.4	9220.6	9024.0	8784.5	8280.0	7809.6
10°	8309.9	8418.9	8517.3	8795.2	9133.0	9560.6	9614.0	9496.4	9254.8	8675.5	7991.4
12.5°	7264.5	7347.9	7435.5	7769.0	8286.4	9141.5	9720.9	9793.6	9697.4	9066.7	8196.6
15°	6751.4	6789.9	6873.3	7093.5	7506.1	8455.3	9534.9	9853.5	10026.6	9481.5	8427.5
17.5°	6730.0	6747.1	6787.7	6905.3	7191.8	7925.1	9199.3	9733.7	10285.3	9919.7	8696.9
20°	7172.6	7127.7	7102.0	7099.9	7241.0	7747.6	8874.3	9541.3	10407.2	10368.7	8985.5
22.5°	7786.1	7801.1	7745.5	7608.7	7591.6	7873.8	8711.8	9346.8	10443.5	10766.3	9252.7
25°	8656.2	8731.1	8566.5	8305.6	8177.4	8239.4	8812.3	9286.9	10439.2	11097.7	9419.5
27.5°	9671.7	9729.5	9562.7	9220.6	8955.5	8805.9	9111.6	9464.4	10475.6	11384.2	9519.9
30°	10828.3	10847.6	10618.8	10259.7	9872.7	9552.0	9609.7	9829.9	10661.6	11760.4	9637.5
32.5°	12241.5	12322.7	11976.4	11407.7	10866.8	10456.3	10278.9	10420.0	11063.5	12205.1	9819.2
35°	14035.1	14062.9	13622.5	12808.0	12042.6	11474.0	11102.0	11176.8	11674.9	12827.2	10092.9
37.5°	15726.2	15754.0	15285.8	14529.0	13434.4	12656.2	12117.5	12083.3	12457.4	13705.9	10539.7
40°	16799.4	16878.5	16669.0	16194.4	15149.0	14099.3	13368.1	13250.5	13483.6	14781.3	11161.8
42.5°	17376.6	17410.8	17406.6	17468.6	16846.4	15803.2	14779.1	14543.9	14700.0	15942.1	11790.4
45°	17380.9	17466.4	17695.2	18291.6	18319.4	17669.5	16562.1	16194.4	16051.1	17111.5	12446.7
47.5°	16602.7	16694.6	17323.2	18496.9	19362.7	19510.2	18697.8	17960.3	17357.4	18118.5	12985.4
50°	14246.8	14477.7	15674.9	17750.8	19567.9	20985.4	20735.2	19734.7	18518.3	18896.7	13323.2
52.5°	12200.8	12192.3	12929.9	15642.8	18710.7	21635.3	22706.3	21560.4	19666.3	19390.5	13408.7
55°	8934.2	8983.3	9738.0	11963.5	16423.1	21006.7	23790.2	23240.8	20983.2	19653.5	13374.5
57.5°	4632.8	4876.5	5650.4	7634.3	12478.8	18843.2	23501.6	23867.2	22321.5	19839.5	13419.4
60°	2341.0	2293.9	2571.9	3645.1	7230.3	14717.1	21722.9	22888.1	22563.1	19984.8	13447.2
62.5°	1562.8	1550.0	1473.0	1688.9	2954.5	8716.1	18518.3	20151.6	20884.9	19642.8	13092.3
65°	1353.3	1327.6	1186.5	1178.0	1434.5	3615.1	13573.4	15841.6	17261.2	18122.7	12243.6
67.5°	1218.6	1180.1	1036.9	966.3	1030.5	1588.4	7649.3	10625.2	12746.0	15326.4	10383.6
70°	1088.2	1068.9	925.7	823.1	816.7	968.5	2817.7	5483.6	7799.0	10456.3	7591.6
72.5°	974.9	940.7	818.8	720.5	671.3	686.3	1222.9	2112.2	4036.3	6522.6	4540.8
75°	844.5	818.8	711.9	613.6	553.7	502.4	746.1	977.0	1840.7	3099.9	2144.3
77.5°	652.1	634.9	562.3	487.4	453.2	374.1	453.2	615.7	850.9	1306.2	1116.0
80°	378.4	389.1	419.0	380.5	333.5	267.2	295.0	354.9	511.0	707.6	632.8
82.5°	190.3	203.1	271.5	220.2	198.8	156.1	175.3	209.5	267.2	391.2	248.0
85°	15.0	15.0	49.2	55.6	68.4	55.6	70.5	85.5	121.9	156.1	83.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	10.7	19.2	36.3	23.5
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: P640940
CATALOG NUMBER: GWS-SA5E-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8	7454.8
2.5°	7467.6	7358.6	7228.1	7121.3	6956.6	6869.0	6757.8	6621.0	6565.4	6539.8	6524.8
5°	7482.6	7290.1	7012.2	6755.7	6471.3	6246.9	5996.7	5735.9	5586.3	5549.9	5524.3
7.5°	7538.1	7268.8	6826.2	6402.9	5874.9	5385.3	4908.6	4436.1	4194.5	4102.6	4094.0
10°	7615.1	7260.2	6638.1	5934.7	5043.2	4269.3	3711.3	3341.5	3185.4	3134.1	3117.0
12.5°	7711.3	7253.8	6390.1	5284.8	4083.3	3352.2	3033.6	2973.8	2995.2	2990.9	2990.9
15°	7833.2	7262.4	6090.8	4549.4	3303.0	2909.6	2916.1	2986.6	3052.9	3063.6	3063.6
17.5°	7965.7	7253.8	5656.8	3811.8	2834.8	2804.9	2903.2	3001.6	3061.4	3070.0	3070.0
20°	8109.0	7213.2	5109.5	3117.0	2629.6	2738.6	2845.5	2922.5	2958.8	2967.4	2967.4
22.5°	8194.5	7097.7	4515.2	2638.1	2499.2	2633.9	2704.4	2783.5	2787.8	2719.4	2717.2
25°	8181.6	6881.8	3837.5	2330.3	2360.2	2477.8	2567.6	2512.0	2443.6	2405.1	2398.7
27.5°	8100.4	6556.9	3146.9	2097.3	2195.6	2328.1	2300.4	2253.3	2236.2	2193.5	2189.2
30°	7997.8	6157.1	2527.0	1915.5	2024.6	2146.4	2103.7	2099.4	2082.3	2035.3	2035.3
32.5°	7899.4	5744.5	2058.8	1780.8	1915.5	1924.1	1983.9	1988.2	1979.7	1898.4	1889.9
35°	7871.6	5331.9	1742.4	1674.0	1808.6	1804.4	1889.9	1887.7	1740.2	1626.9	1624.8
37.5°	7955.0	4912.8	1554.2	1586.3	1661.1	1716.7	1785.1	1661.1	1612.0	1543.5	1539.3
40°	8132.5	4525.9	1458.0	1535.0	1567.1	1648.3	1541.4	1550.0	1537.1	1485.8	1479.4
42.5°	8367.6	4196.6	1404.6	1517.9	1513.6	1535.0	1417.4	1451.6	1470.9	1432.4	1426.0
45°	8594.2	3910.2	1376.8	1453.8	1475.1	1351.1	1327.6	1359.7	1389.6	1374.7	1368.2
47.5°	8761.0	3662.2	1361.8	1366.1	1426.0	1289.1	1250.7	1265.6	1302.0	1308.4	1306.2
50°	8812.3	3450.5	1344.7	1293.4	1280.6	1227.1	1197.2	1192.9	1235.7	1265.6	1269.9
52.5°	8714.0	3262.4	1299.8	1229.3	1167.3	1175.8	1165.1	1143.8	1186.5	1227.1	1231.4
55°	8568.6	3155.5	1229.3	1167.3	1094.6	1128.8	1133.1	1113.8	1141.6	1169.4	1169.4
57.5°	*8579.3*	*3217.5*	*1160.9*	*1109.6*	*1030.5*	*1075.3*	*1098.9*	*1090.3*	*1090.3*	*1111.7*	*1113.8*
60°	8649.8	3307.3	1116.0	1036.9	966.3	1013.4	1066.8	1058.2	1039.0	1066.8	1066.8
62.5°	8446.7	3187.6	1086.0	966.3	897.9	953.5	1017.6	1013.4	992.0	1036.9	1041.1
65°	7848.1	2866.9	1051.8	878.7	829.5	893.6	949.2	964.2	944.9	1004.8	1015.5
67.5°	6578.2	2411.5	985.6	795.3	761.1	820.9	874.4	895.8	880.8	951.4	959.9
70°	4904.3	1951.9	880.8	703.4	677.7	731.2	780.3	788.9	791.0	874.4	882.9
72.5°	3127.7	1517.9	741.8	600.7	581.5	622.1	658.5	692.7	707.6	786.7	784.6
75°	1744.5	1128.8	596.5	508.8	474.6	506.7	549.4	590.1	632.8	748.3	761.1
77.5°	1004.8	793.2	472.5	408.3	367.7	401.9	438.3	496.0	624.3	724.7	711.9
80°	566.5	515.2	357.0	299.3	273.6	299.3	327.1	436.1	491.7	534.5	540.9
82.5°	265.1	288.6	243.7	183.9	183.9	201.0	226.6	337.8	372.0	303.6	265.1
85°	96.2	130.4	119.7	94.1	83.4	81.2	141.1	192.4	119.7	106.9	91.9
87.5°	25.7	36.3	34.2	23.5	12.8	10.7	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

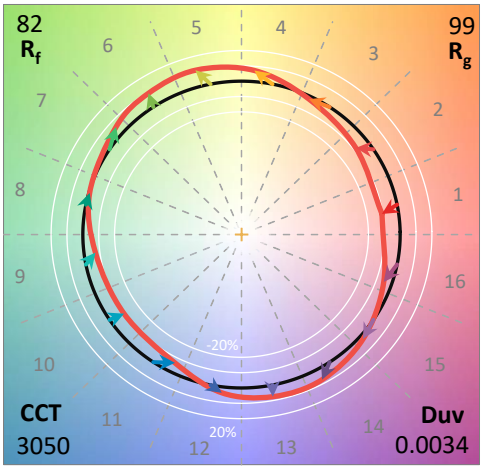
Test Information

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

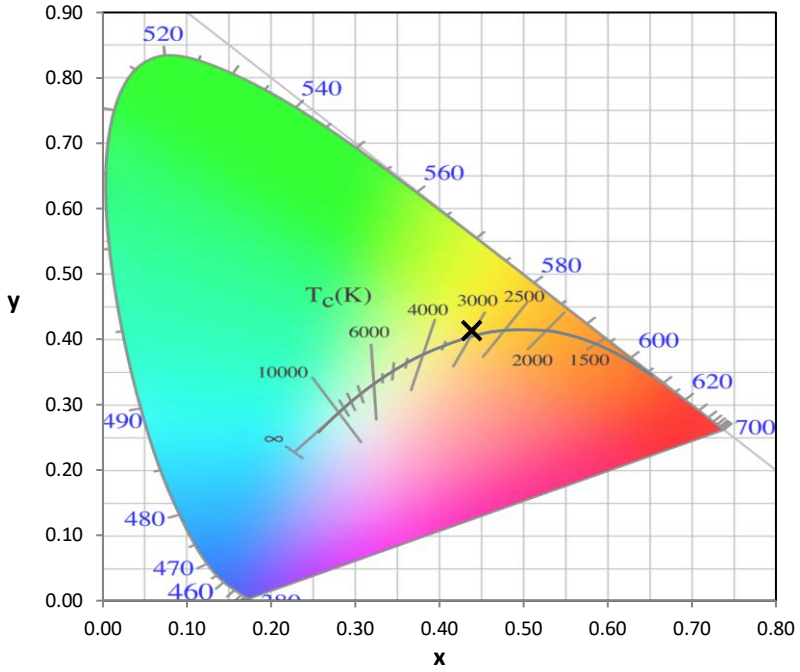
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

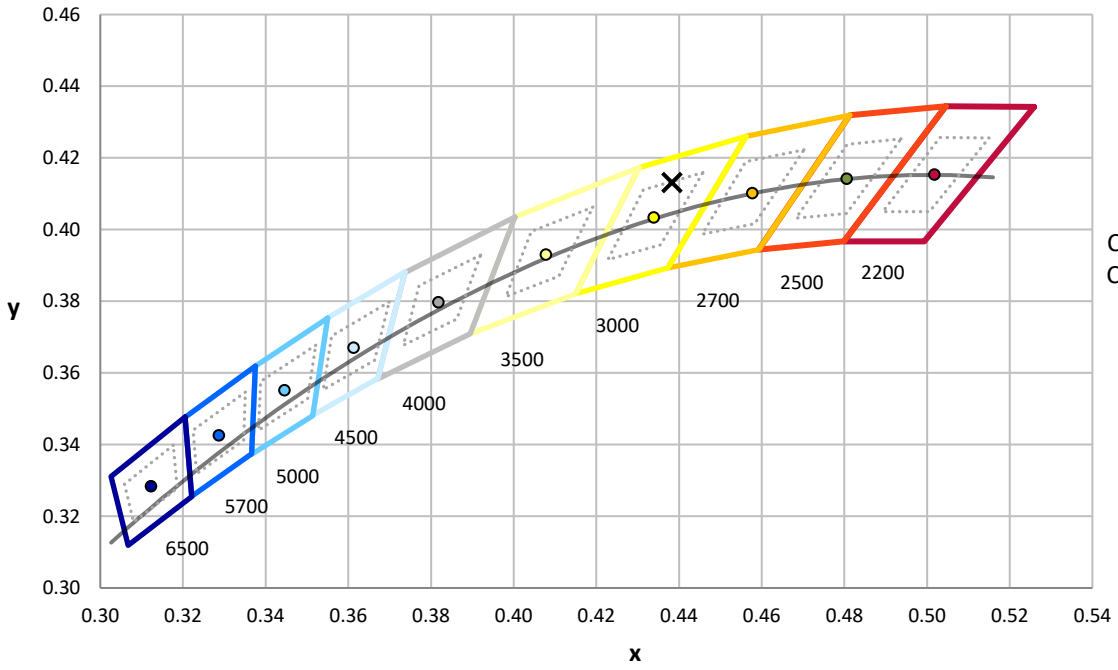
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

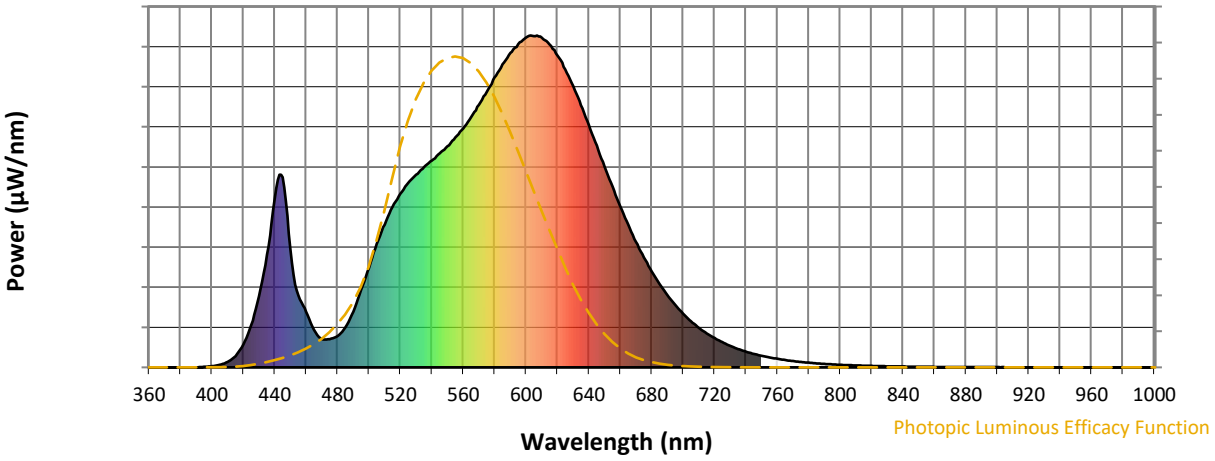


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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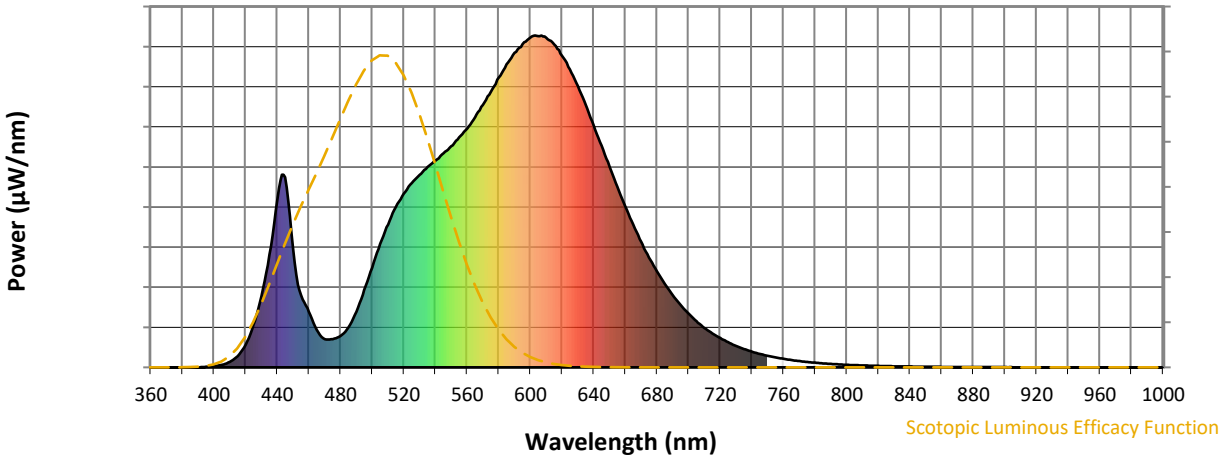
Scotopic Flux vs. Wavelength



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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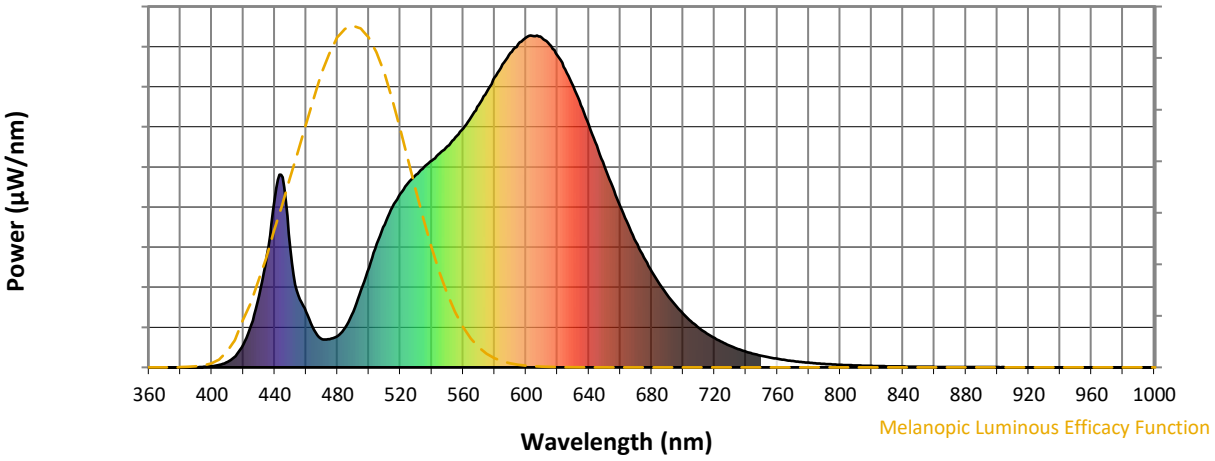
Melanopic Flux vs. Wavelength



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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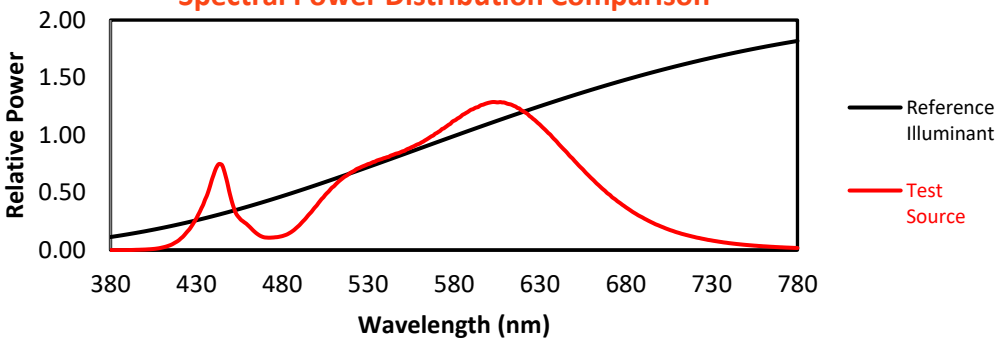
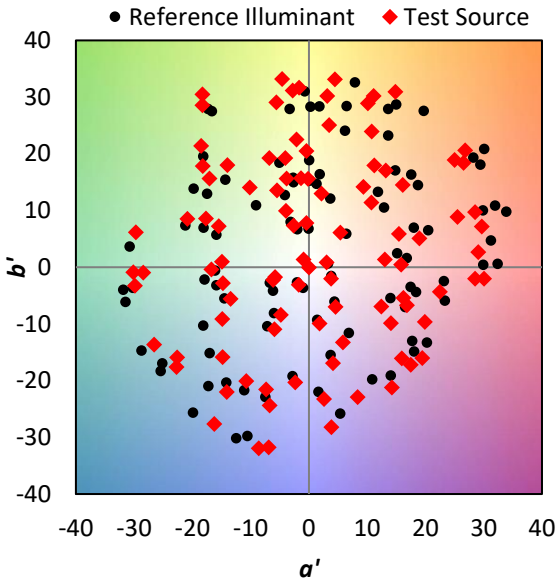
Summary

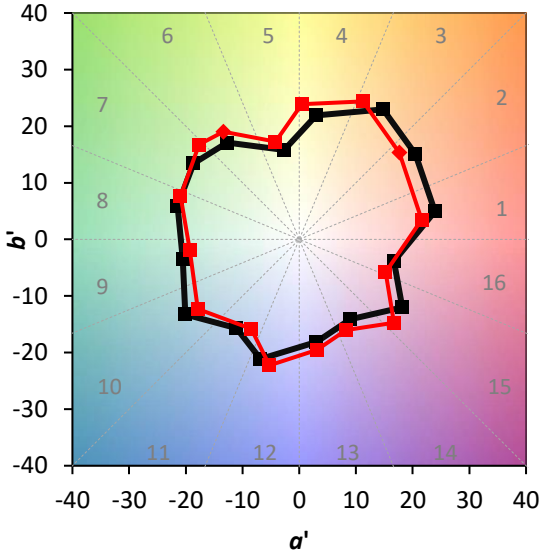
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

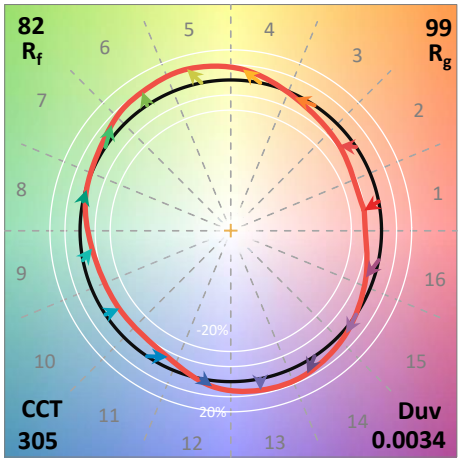
Spectral Power Distribution Comparison

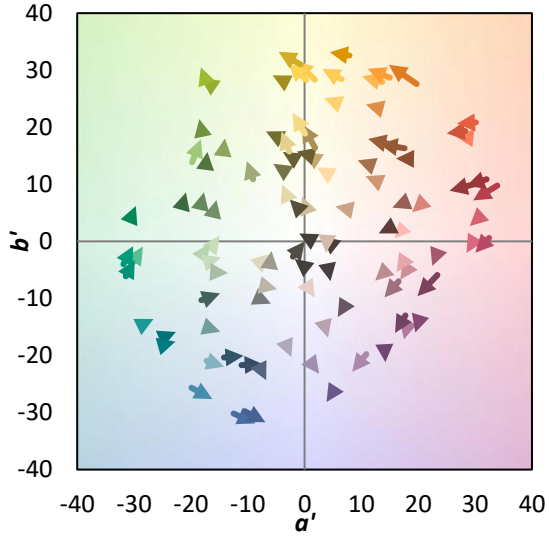


Color Vector Graphics









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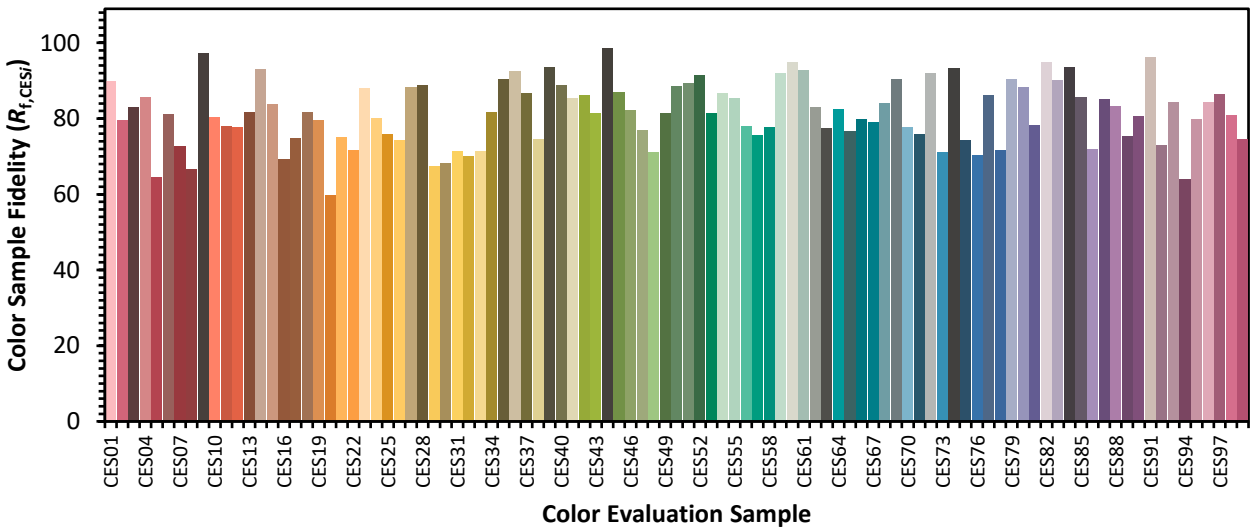
Individual Sample Fidelity Index ($R_{f,i}$)

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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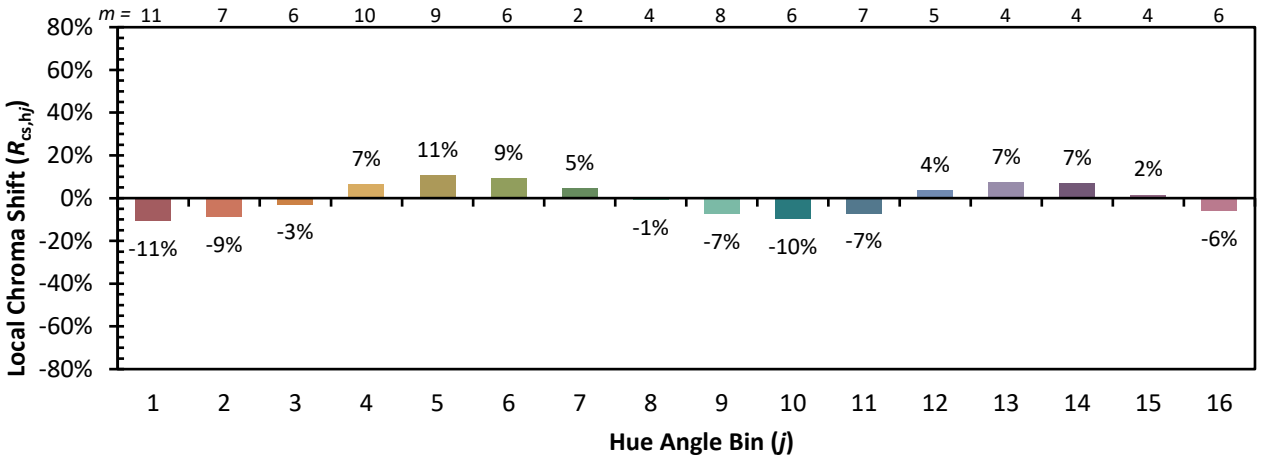
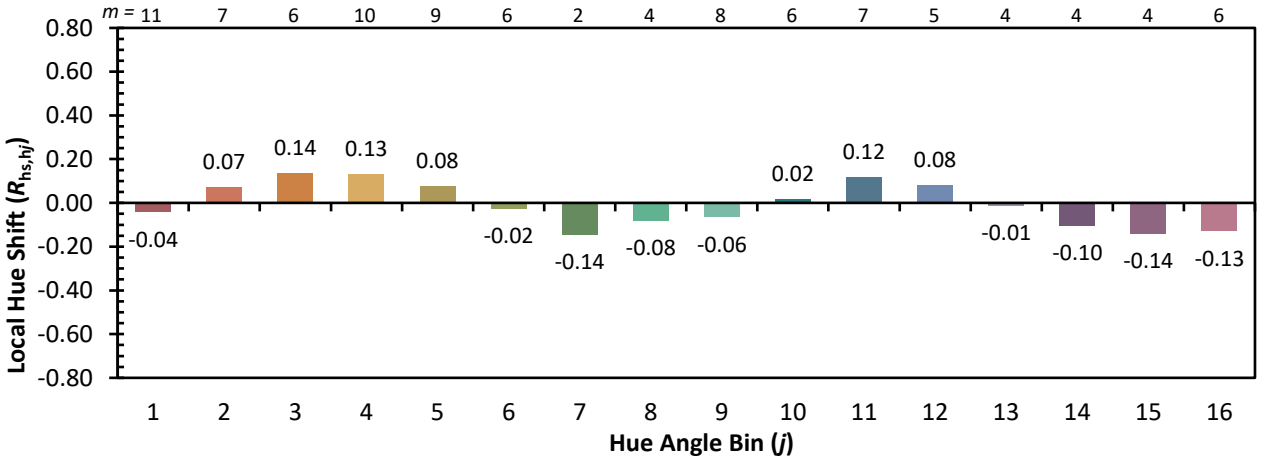
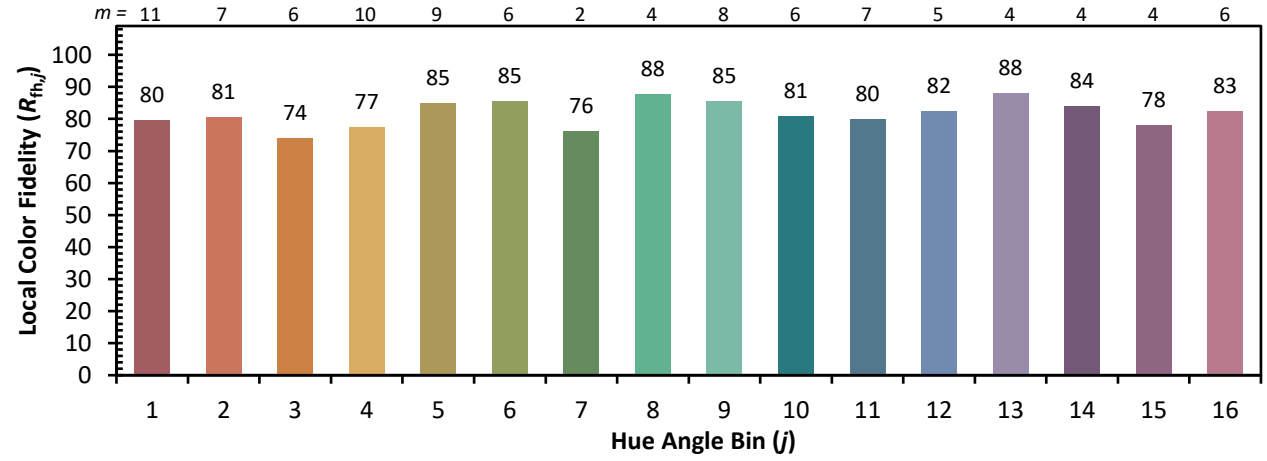
Color Rendition by Hue-Angle Bin







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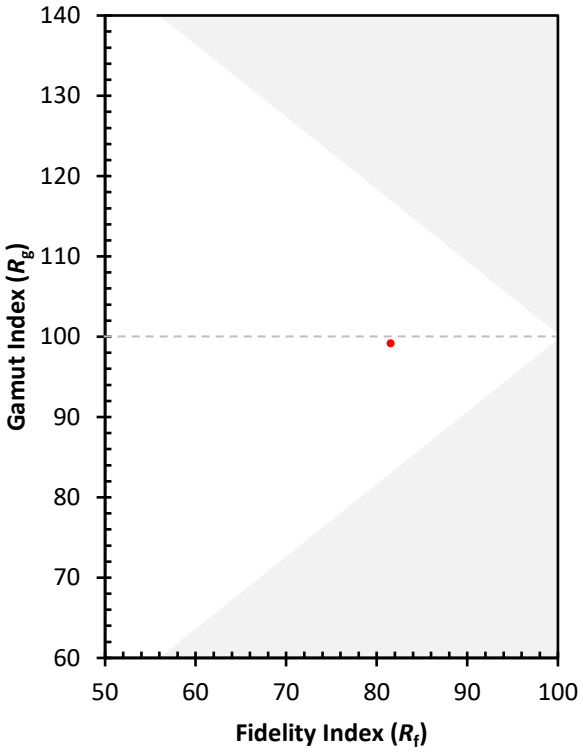
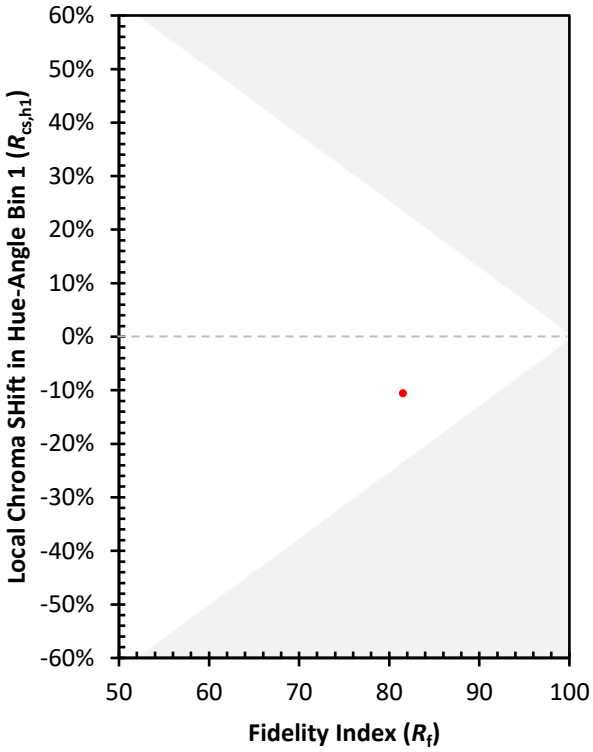
Measure Comparisons





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