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: P636017

Luminaire Tested: GWS-SA3E-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:	P636017
	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-SA3E-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11710.8 lumens
Efficiency:	N/A
Efficacy:	73.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	159.2
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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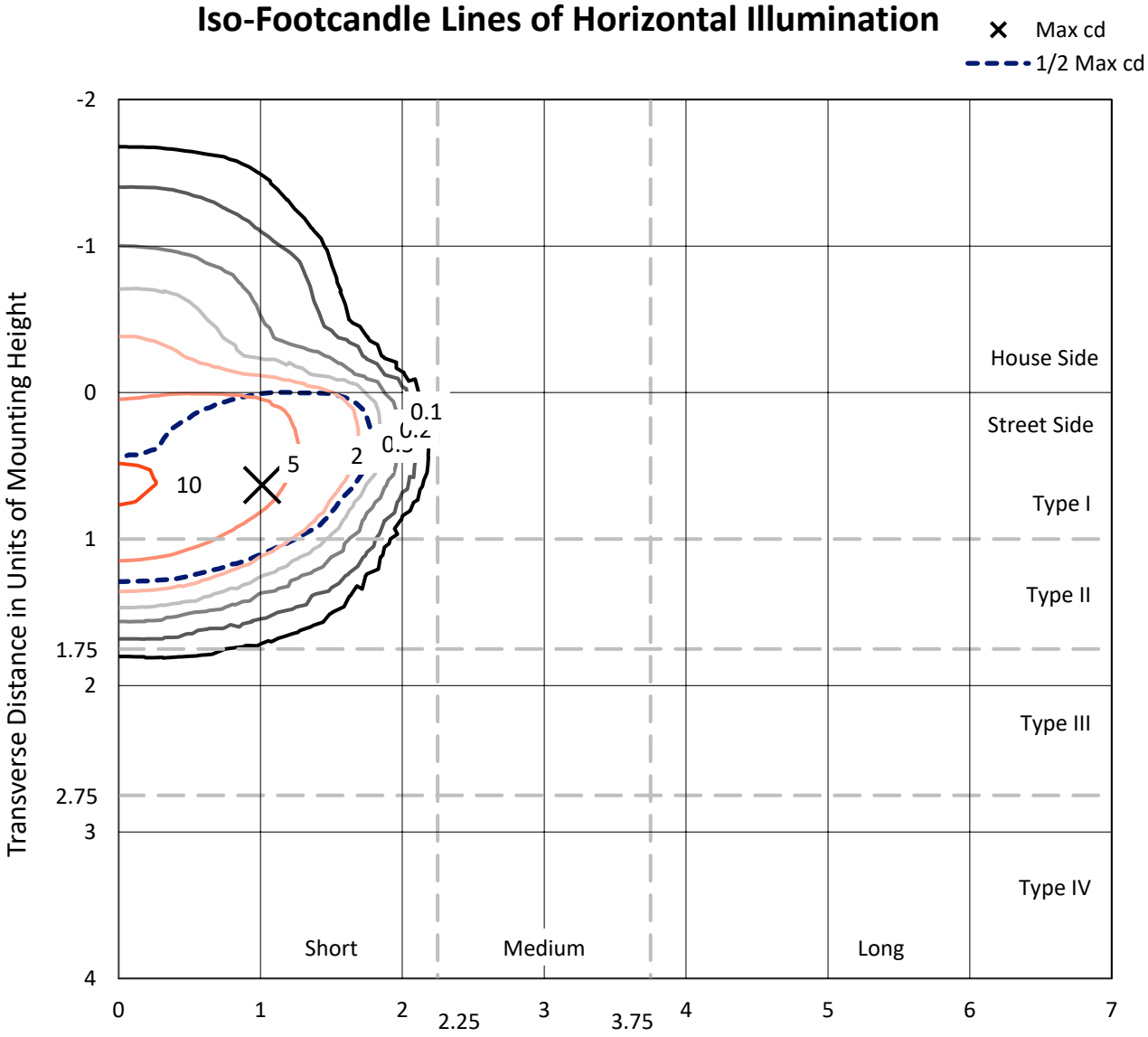
REPORT NUMBER: P636017
CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
Type II - Short - N/A

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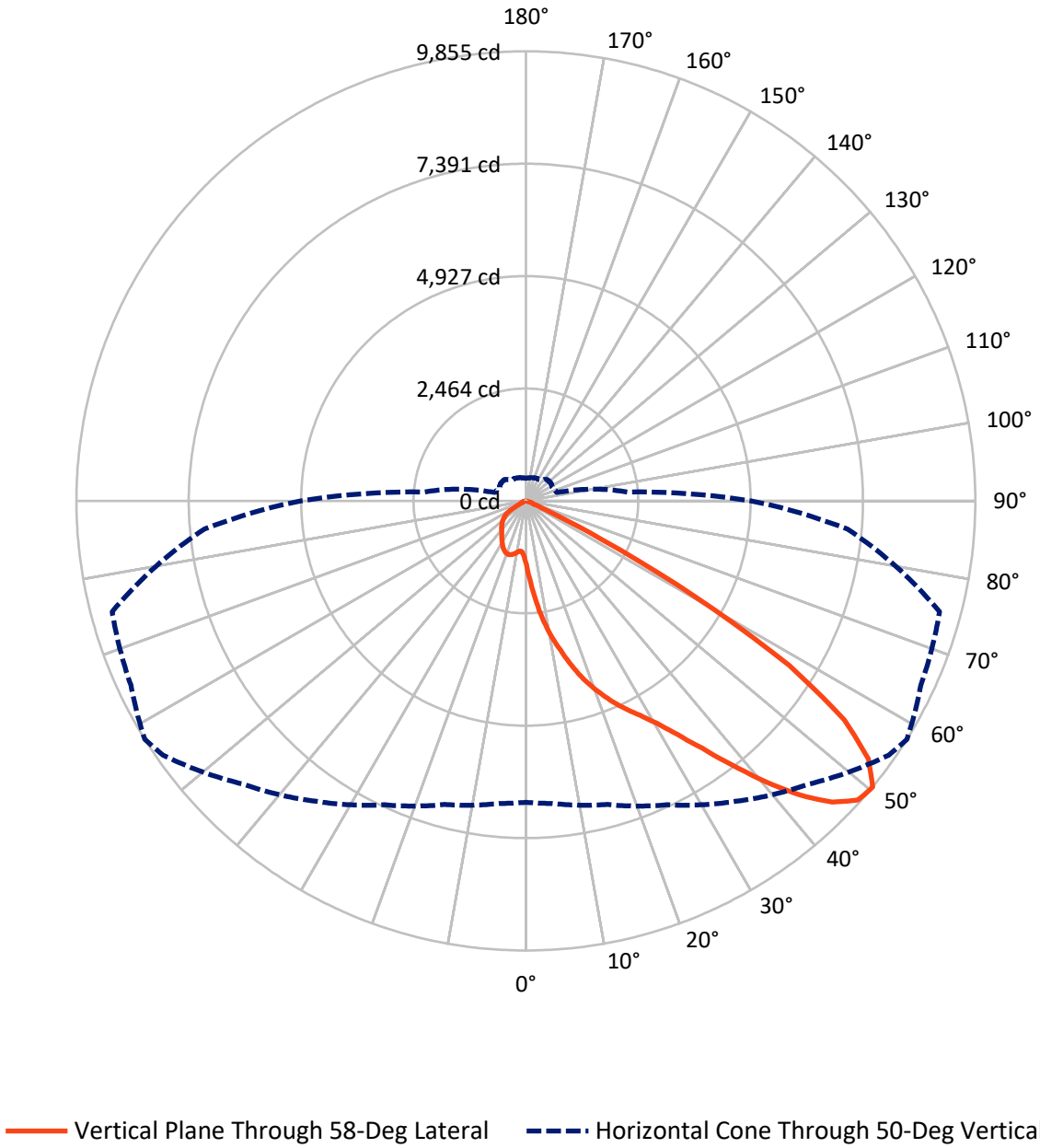
Luminous Intensity Polar Plot



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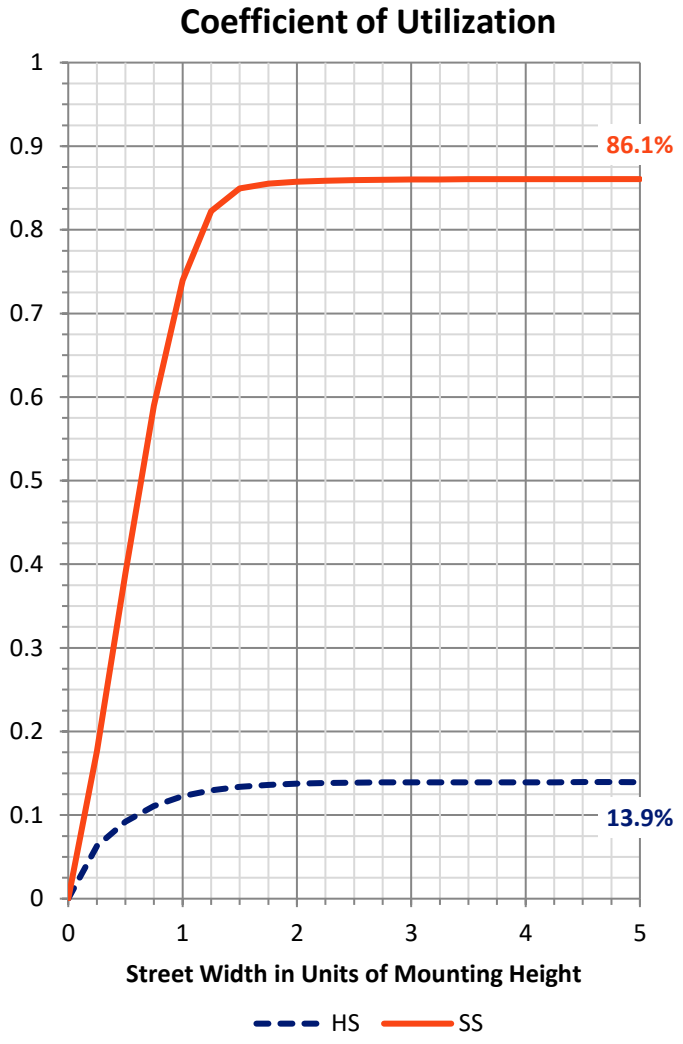
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.3	0.0	1640.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10070.5	0.0	10070.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	11710.8	0.0	11710.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.5
10°-20°	686.0	5.9
20°-30°	1388.2	11.9
30°-40°	2455.9	21.0
40°-50°	3580.1	30.6
50°-60°	2869.6	24.5
60°-70°	517.0	4.4
70°-80°	40.7	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°	11710.8	100.0
0°-180°	11710.8	100.0



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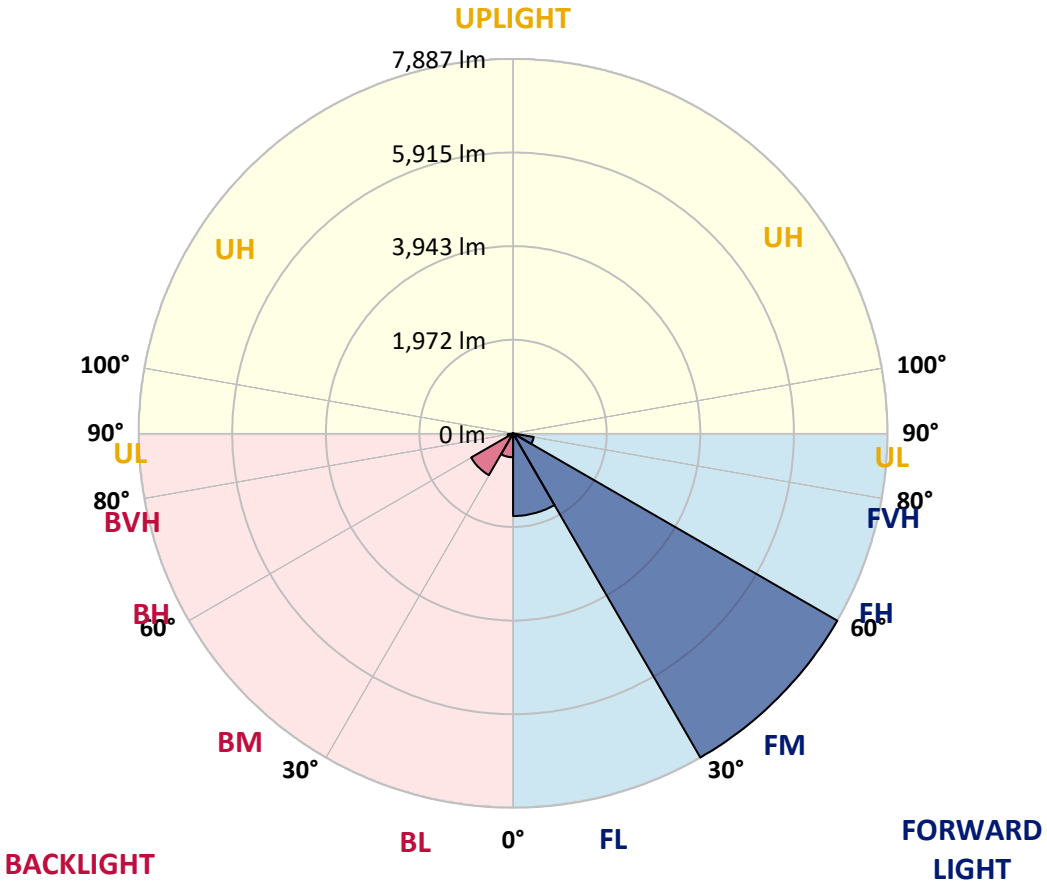
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1742.5	14.9			
FM	(30°-60°)	7886.9	67.3			
FH	(60°-80°)	441.1	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	505.0	4.3	B2/1000		
BM	(30°-60°)	1018.7	8.7	B2/2500		
BH	(60°-80°)	116.6	1.0	B1/500		G1/500
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: B2-U0-G1
Type II Short



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REPORT NUMBER: P636017
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	*1398.8*	1398.8	1398.8	1398.8
2.5°	2070.1	2037.5	2018.7	2003.7	1937.3	1832.1	1763.3	*1726.9*	1666.8	1565.4	1477.7
5°	2701.2	2677.4	2633.6	2603.6	2518.4	2369.4	2215.3	*2154.0*	2017.5	1788.3	1582.9
7.5°	3119.5	3102.0	3085.7	3045.6	2965.5	2830.2	2659.9	*2596.0*	2385.7	2060.1	1723.2
10°	3441.4	3427.6	3408.8	3407.5	3344.9	3223.5	3056.9	*2990.5*	2762.6	2355.6	1888.5
12.5°	3724.4	3713.1	3709.4	3744.4	3704.3	3614.2	3433.8	*3351.2*	3109.5	2657.4	2071.3
15°	3918.5	3916.0	3932.3	4001.1	4023.7	3982.4	3830.8	*3741.9*	3463.9	2960.5	2273.0
17.5°	4007.4	4014.9	4046.2	4165.2	4265.4	4300.4	4184.0	*4108.8*	3815.8	3267.3	2488.3
20°	4158.9	4156.4	4175.2	4287.9	4410.7	4535.9	4500.8	*4436.9*	4171.5	3591.6	2727.5
22.5°	4586.0	4549.7	4509.6	4527.1	4570.9	4717.5	4782.6	*4750.0*	4538.4	3924.8	2974.2
25°	5242.2	5204.6	5075.6	4950.4	4867.7	4934.1	5023.0	*5039.3*	4902.8	4266.6	3232.2
27.5°	5938.5	5904.7	5759.4	5571.5	5334.9	5219.6	5286.0	*5318.6*	5261.0	4673.6	3506.5
30°	6590.9	6545.8	6386.8	6153.9	5879.6	5703.0	5627.9	*5650.4*	5684.3	5155.8	3828.3
32.5°	7157.0	7123.2	6932.8	6687.4	6423.1	6239.0	6063.7	*6101.3*	6183.9	5745.6	4240.3
35°	7636.6	7619.1	7417.5	7173.3	6894.0	6800.1	6649.8	*6657.3*	6740.0	6458.2	4742.5
37.5°	8053.6	8023.6	7840.7	7614.1	7392.4	7377.4	7336.1	*7339.8*	7382.4	7288.5	5319.8
40°	8316.6	8289.1	8158.8	8018.6	7860.8	7863.3	8077.4	*8093.7*	8044.9	8103.7	5929.7
42.5°	8415.6	8395.5	8325.4	8326.6	8310.4	8384.2	8786.2	*8816.3*	8641.0	8743.7	6450.7
45°	8244.0	8235.2	8240.2	8420.6	8615.9	8843.8	9366.1	*9418.7*	9170.7	9168.2	6857.7
47.5°	7690.5	7672.9	7819.4	8126.3	8578.4	9021.7	9716.7	*9798.1*	9541.4	9411.1	7113.1
50°	*6606.0*	*6656.0*	*6887.7*	*7348.6*	*8036.1*	*8777.5*	*9712.9*	*9854.5*	*9555.2*	*9389.9*	*7070.6*
52.5°	4785.1	4775.1	5282.3	5915.9	6752.5	7996.0	9197.0	*9403.6*	9220.8	9180.7	6975.4
55°	2603.6	2695.0	3036.9	3875.9	4920.3	6517.0	8018.6	*8469.4*	8681.0	9104.3	7147.0
57.5°	956.8	996.8	1211.0	1804.6	2604.8	4052.5	6125.1	*6805.1*	7458.8	8891.4	7118.2
60°	385.7	393.2	478.4	663.7	1094.5	2062.6	3674.3	*4277.9*	4894.0	6806.3	5462.6
62.5°	280.5	290.5	324.3	388.2	553.5	901.7	1584.2	*1842.2*	2013.7	3371.2	2691.2
65°	226.7	234.2	261.7	290.5	365.7	484.6	510.9	*492.2*	489.7	871.6	617.4
67.5°	187.8	195.4	215.4	235.4	263.0	241.7	175.3	*184.1*	150.3	149.0	121.5
70°	137.8	146.5	166.6	187.8	157.8	65.1	101.4	*150.3*	114.0	95.2	92.7
72.5°	103.9	110.2	129.0	122.7	46.3	25.0	67.6	*109.0*	87.7	70.1	68.9
75°	77.6	81.4	65.1	20.0	5.0	6.3	25.0	*45.1*	48.8	40.1	40.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	*3.8*	5.0	6.3	7.5
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

REPORT NUMBER: P636017
CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	1427.6	1375.0	1299.9	1237.3	1189.7	1143.4	1108.3	1073.2	1072.0	1054.4	1050.7
5°	1487.7	1392.6	1254.8	1155.9	1095.8	1059.5	1034.4	1021.9	1015.6	1009.4	1006.9
7.5°	1574.2	1437.7	1247.3	1142.1	1092.0	1068.2	1050.7	1043.2	1039.4	1034.4	1033.2
10°	1680.6	1502.8	1274.9	1168.4	1124.6	1102.0	1083.3	1072.0	1065.7	1057.0	1054.4
12.5°	1808.3	1582.9	1318.7	1212.2	1165.9	1135.8	1110.8	1094.5	1085.8	1074.5	1072.0
15°	1946.1	1669.3	1367.5	1252.3	1197.2	1158.4	1127.1	1102.0	1085.8	1072.0	1068.2
17.5°	2088.9	1757.0	1411.4	1279.9	1212.2	1165.9	1120.8	1087.0	1067.0	1049.4	1044.4
20°	2249.2	1847.2	1440.2	1284.9	1207.2	1145.9	1093.3	1050.7	1030.7	1006.9	1001.9
22.5°	2417.0	1931.1	1452.7	1273.6	1179.7	1108.3	1051.9	1008.1	979.3	954.3	946.7
25°	2579.8	2006.2	1446.4	1242.3	1138.4	1055.7	998.1	953.0	921.7	896.7	890.4
27.5°	2752.6	2068.8	1423.9	1196.0	1082.0	998.1	943.0	904.2	875.4	847.8	841.6
30°	2946.7	2126.4	1387.6	1139.6	1015.6	939.2	896.7	870.4	839.1	810.2	801.5
32.5°	3180.9	2177.8	1335.0	1072.0	956.8	887.9	864.1	844.1	807.7	777.7	771.4
35°	3448.9	2220.4	1268.6	1001.9	899.2	855.3	850.3	824.0	776.4	741.4	733.9
37.5°	3759.4	2261.7	1189.7	933.0	856.6	840.3	841.6	796.5	738.9	696.3	691.3
40°	4093.8	2303.0	1102.0	872.9	817.8	831.5	820.3	756.4	662.5	621.1	616.1
42.5°	4442.0	2348.1	1013.1	816.5	785.2	797.7	781.4	676.2	608.6	587.3	584.8
45°	4756.3	2401.9	916.7	760.2	752.6	748.9	721.3	612.4	583.6	568.6	567.3
47.5°	4983.0	2393.2	814.0	706.3	717.6	705.1	621.1	582.3	558.5	538.5	533.5
50°	*4941.6*	*2240.4*	*707.6*	*646.2*	*672.5*	*661.2*	*558.5*	*547.3*	*526.0*	*504.7*	*497.2*
52.5°	4836.4	2032.5	614.9	582.3	623.7	597.4	516.0	504.7	485.9	458.3	449.6
55°	4892.8	1837.1	542.3	531.0	573.6	494.7	468.4	450.8	430.8	400.7	397.0
57.5°	4711.2	1499.0	435.8	443.3	507.2	422.0	410.8	383.2	349.4	329.4	326.9
60°	3261.0	805.2	273.0	281.8	366.9	354.4	368.2	343.1	301.8	283.0	279.3
62.5°	1497.8	323.1	149.0	142.8	192.9	240.4	315.6	313.1	261.7	231.7	229.2
65°	363.2	147.8	106.4	100.2	109.0	144.0	205.4	246.7	211.6	176.6	172.8
67.5°	117.7	120.2	97.7	91.4	96.4	107.7	122.7	136.5	135.2	124.0	121.5
70°	93.9	109.0	90.2	82.7	82.7	86.4	82.7	66.4	57.6	62.6	65.1
72.5°	70.1	82.7	71.4	63.9	61.4	60.1	51.3	37.6	26.3	23.8	22.5
75°	41.3	46.3	43.8	37.6	35.1	31.3	25.0	16.3	8.8	6.3	3.8
77.5°	7.5	8.8	10.0	7.5	6.3	5.0	3.8	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	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

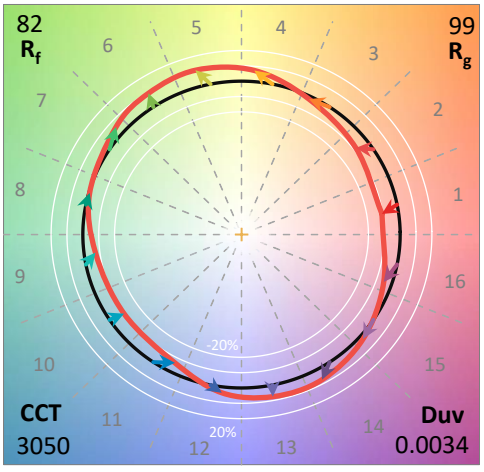
Test Information

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

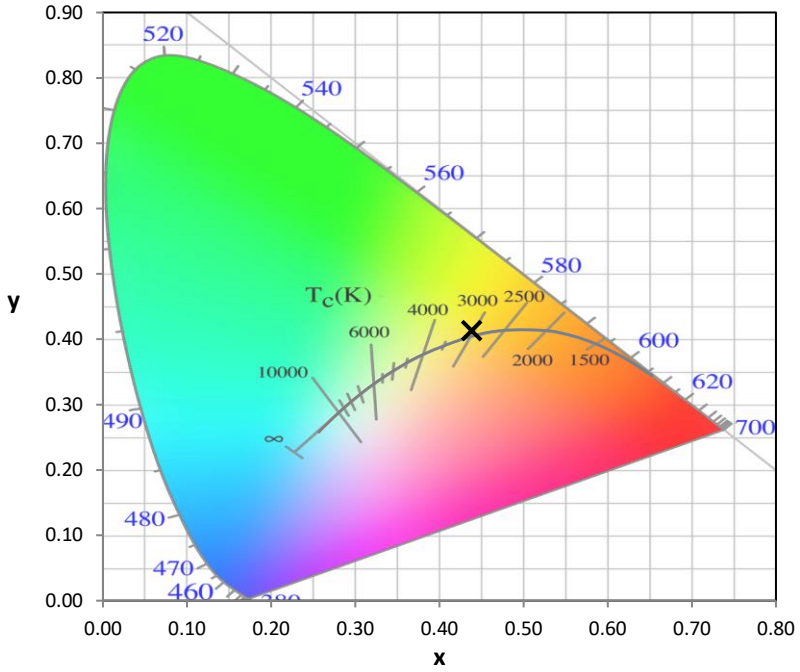
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

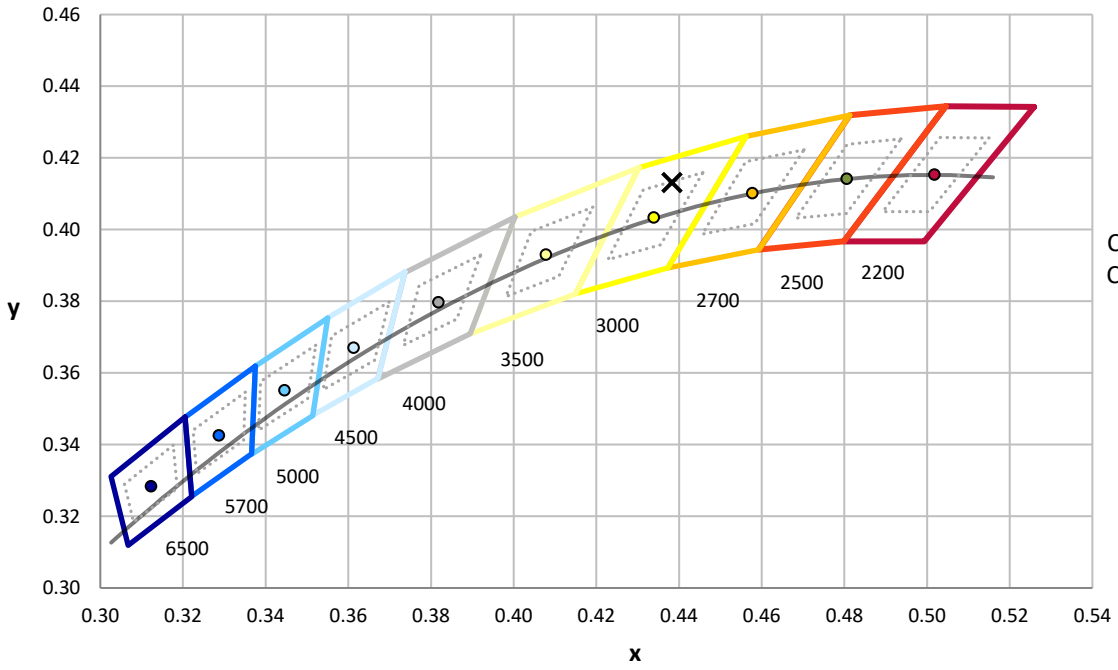
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

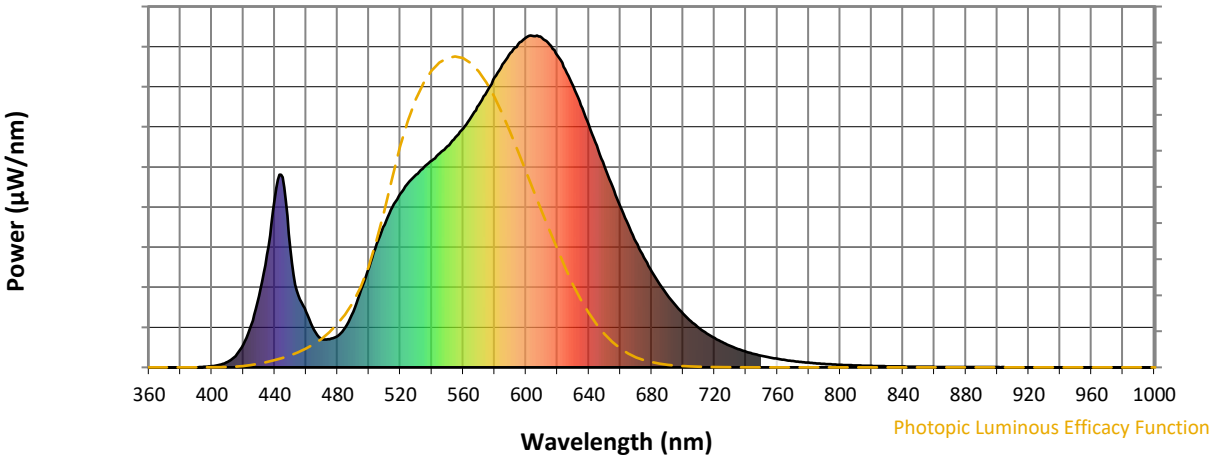


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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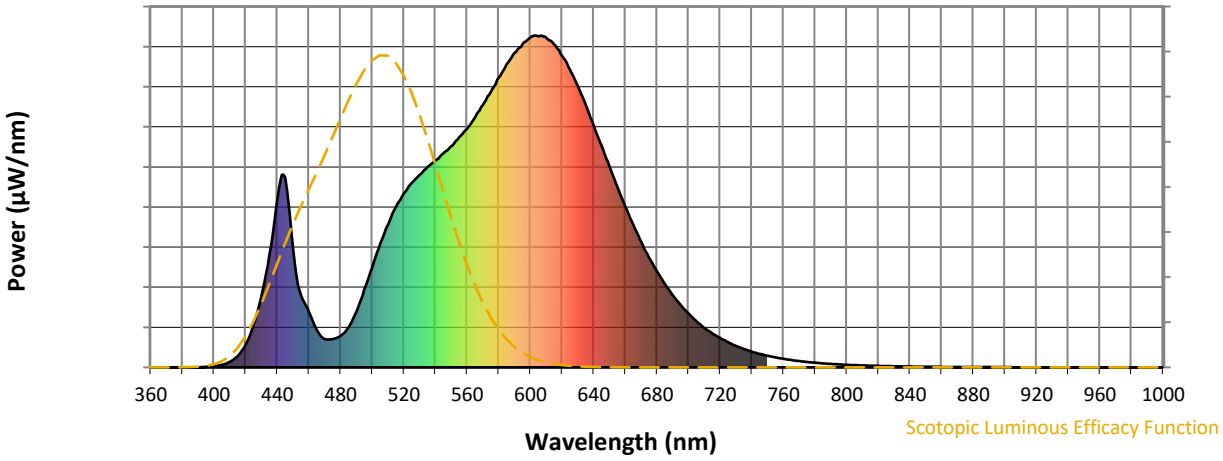
Scotopic Flux vs. Wavelength



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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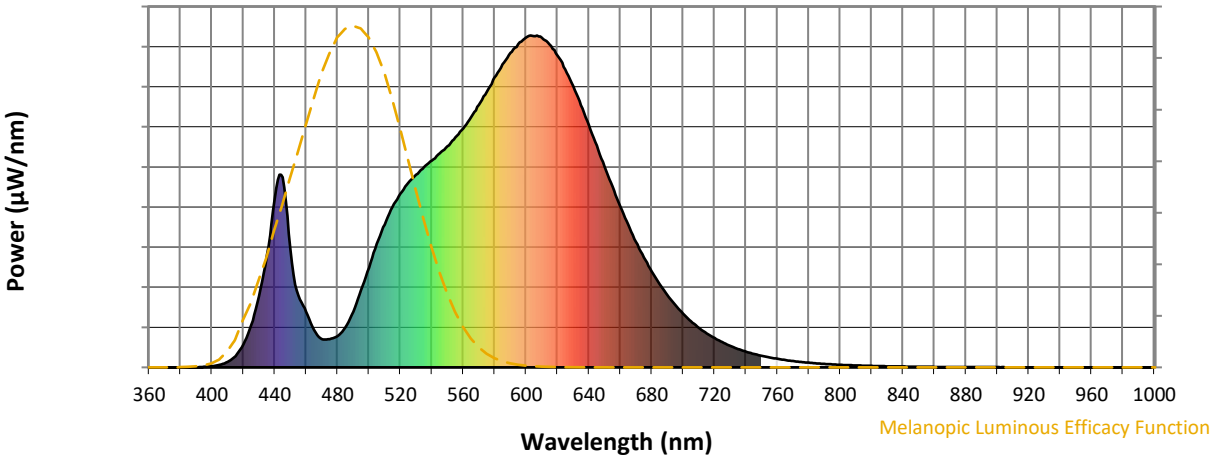
Melanopic Flux vs. Wavelength



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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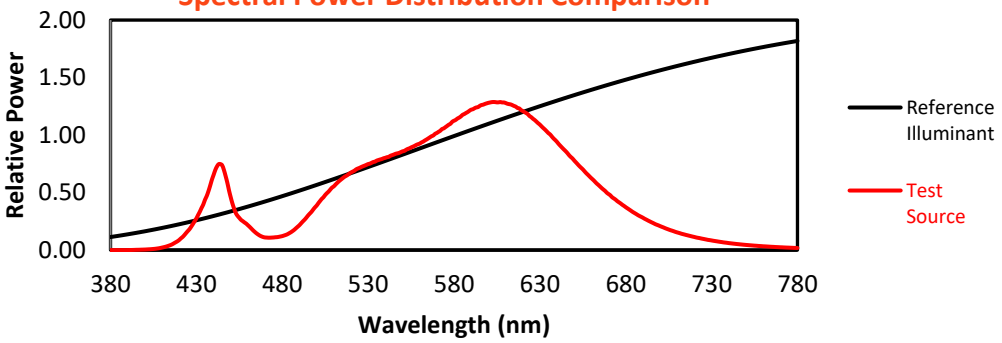
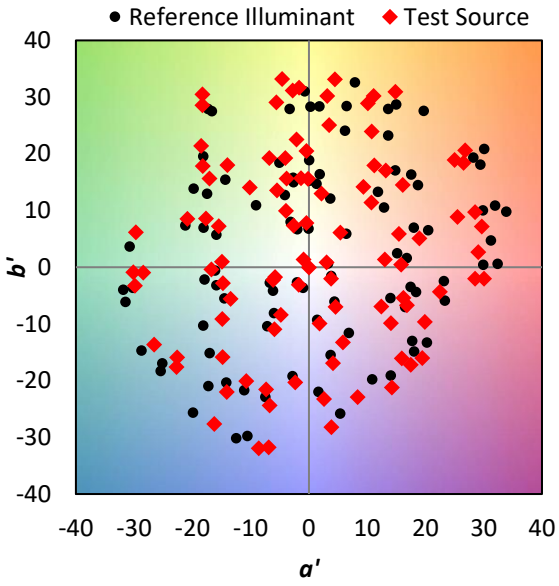
Summary

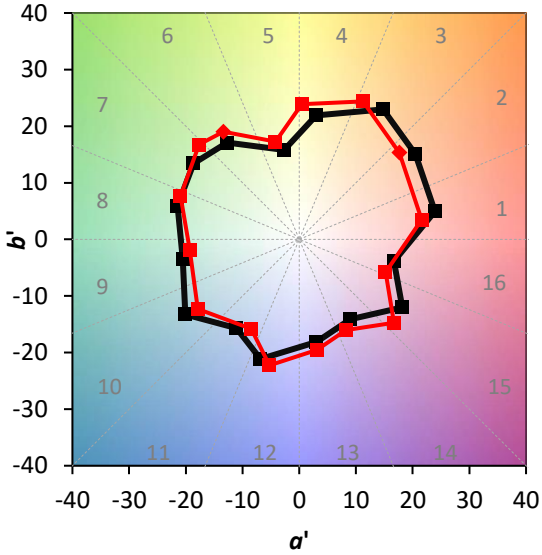
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

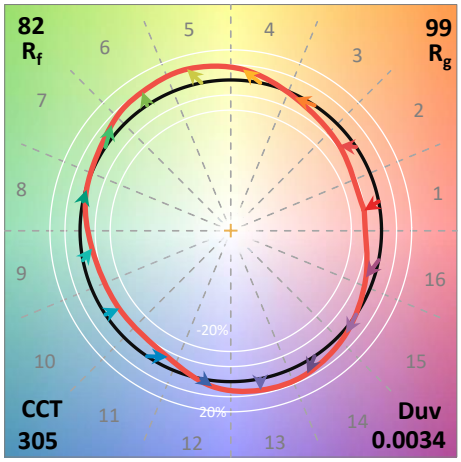
Spectral Power Distribution Comparison

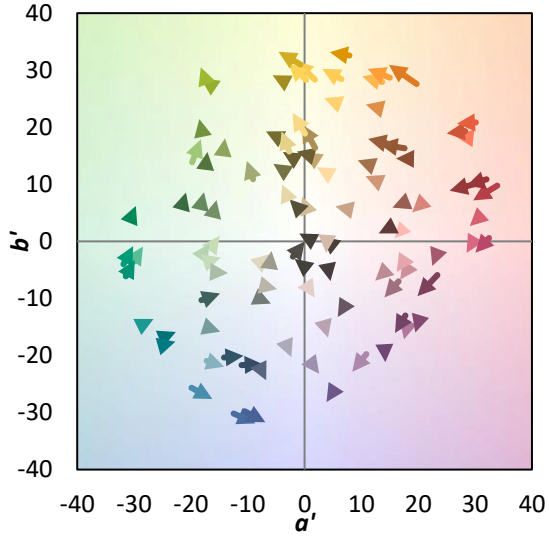


Color Vector Graphics









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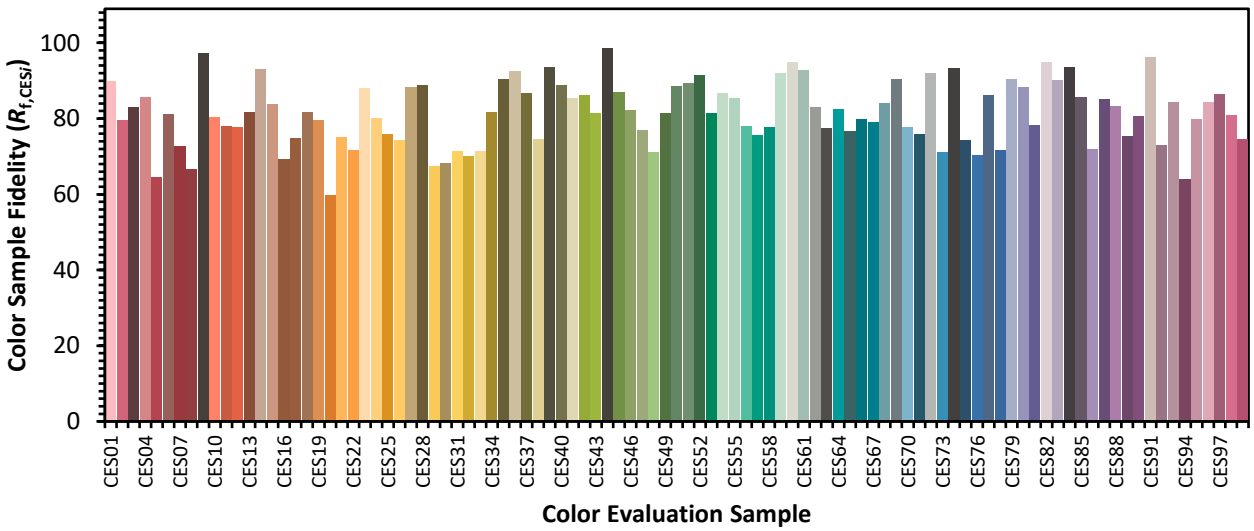
Individual Sample Fidelity Index ($R_{f,i}$)

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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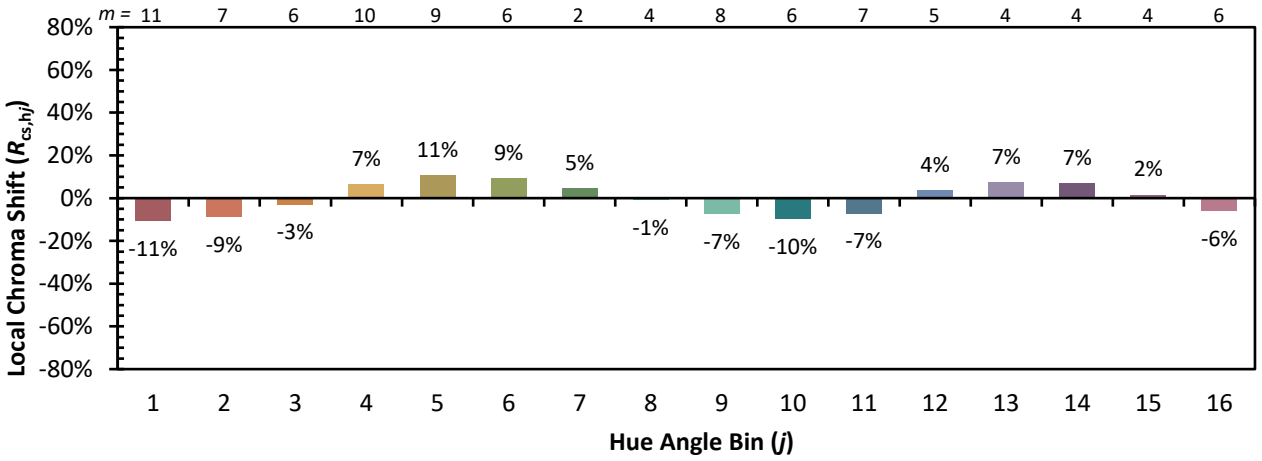
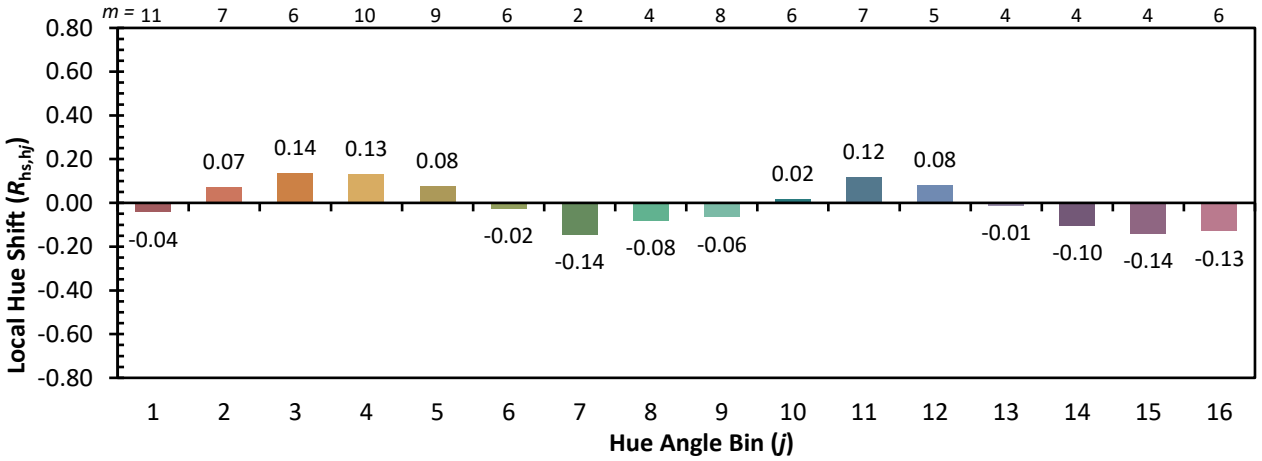
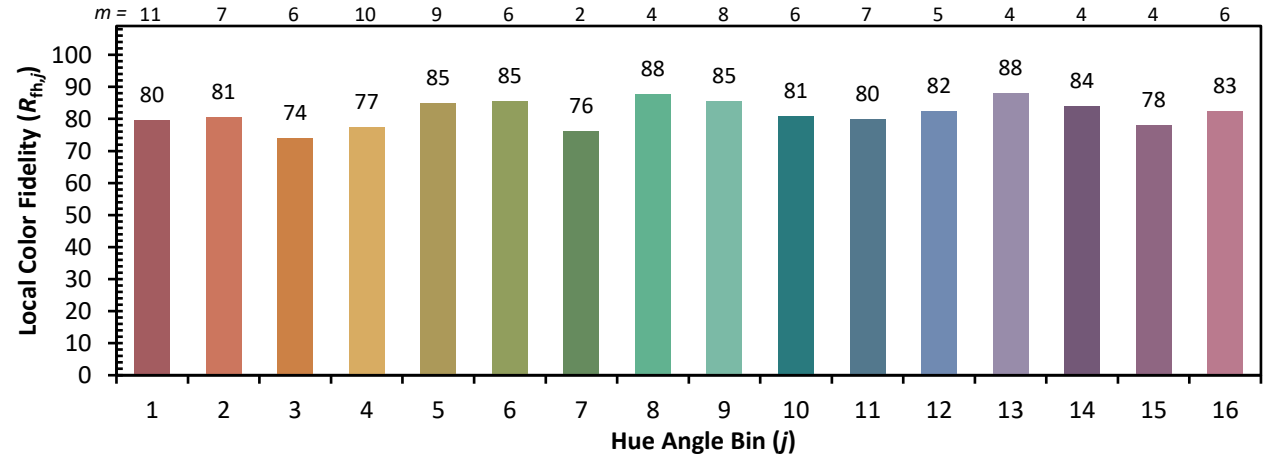
Color Rendition by Hue-Angle Bin







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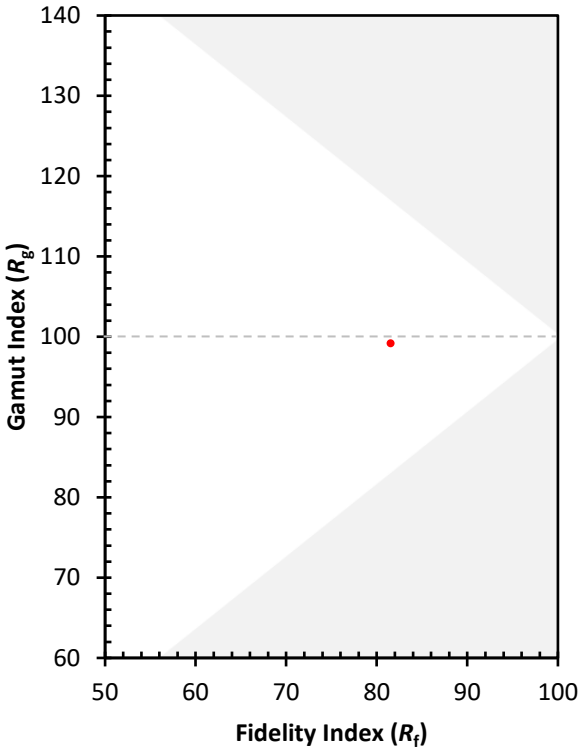
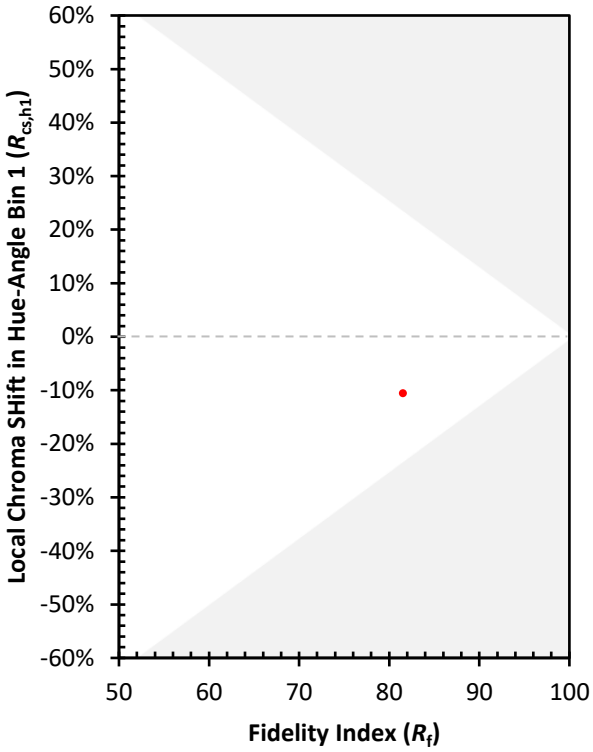
Measure Comparisons





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