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: P637008

Luminaire Tested: GWS-SA4B-830-U-T2R-W-GRSWH

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:	P637008
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4B-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10119.6 lumens
Efficiency:	N/A
Efficacy:	107.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	94.4
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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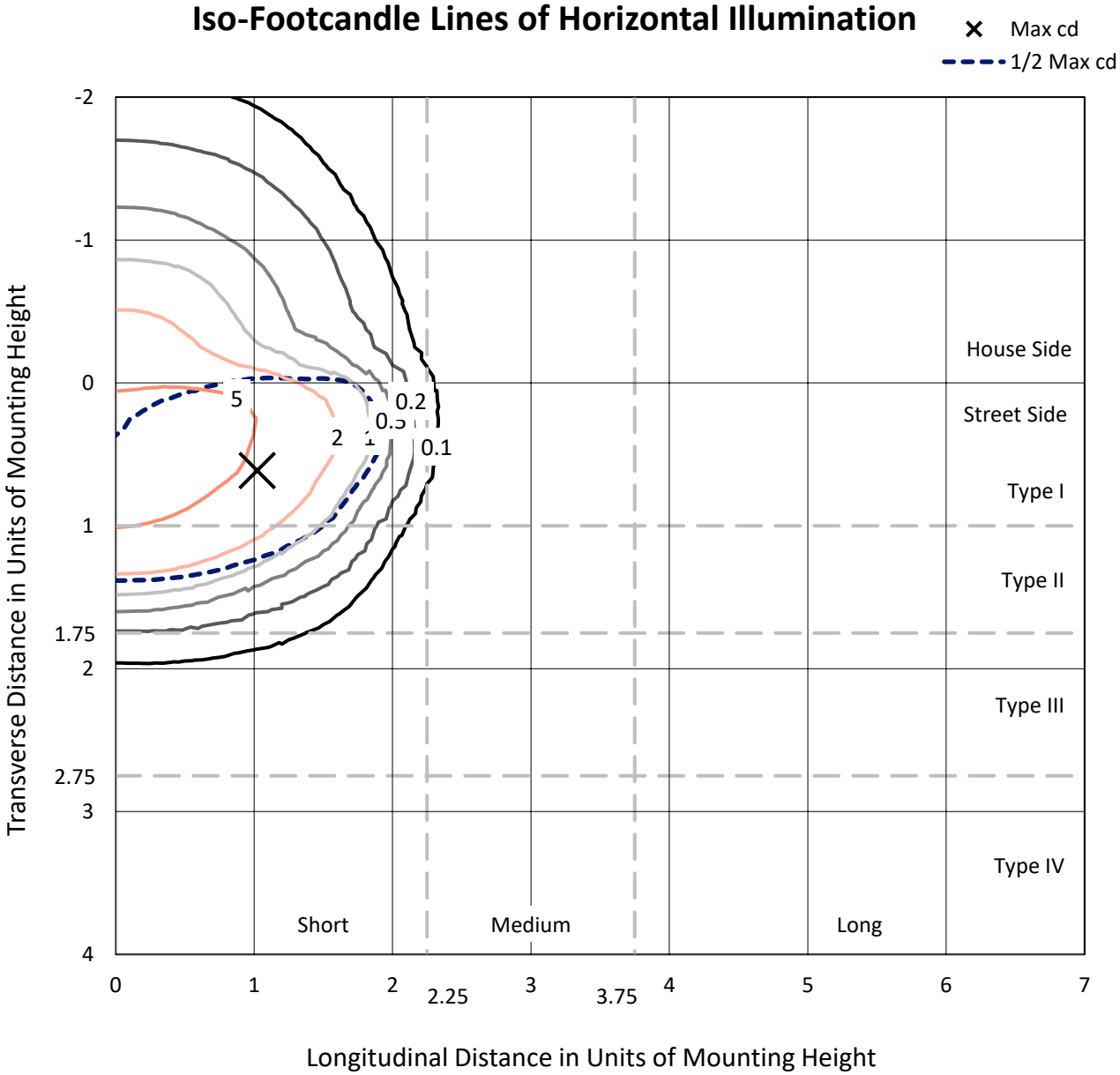
Scaled Data Report

REPORT NUMBER: P637008
CATALOG NUMBER: GWS-SA4B-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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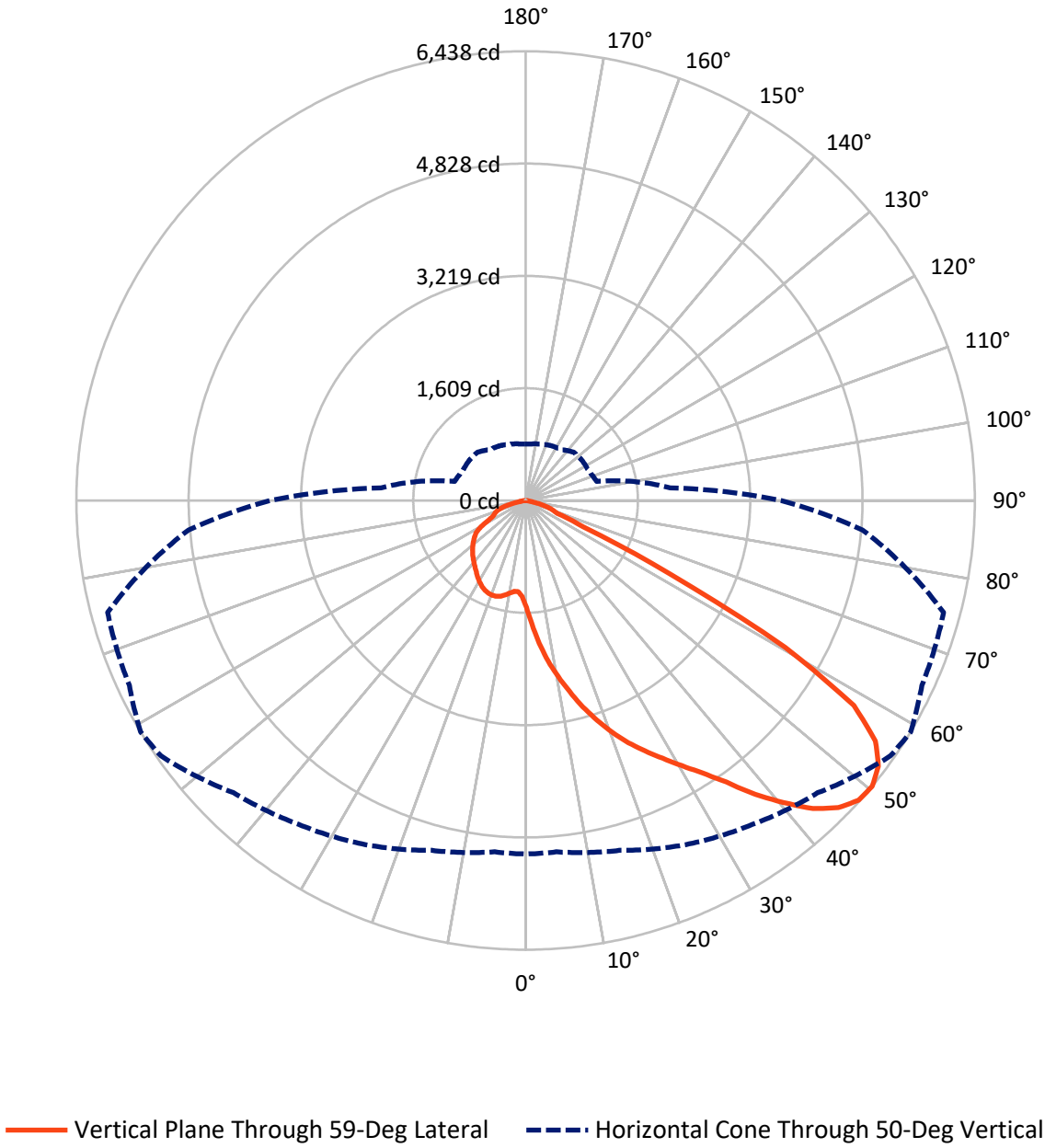
Luminous Intensity Polar Plot



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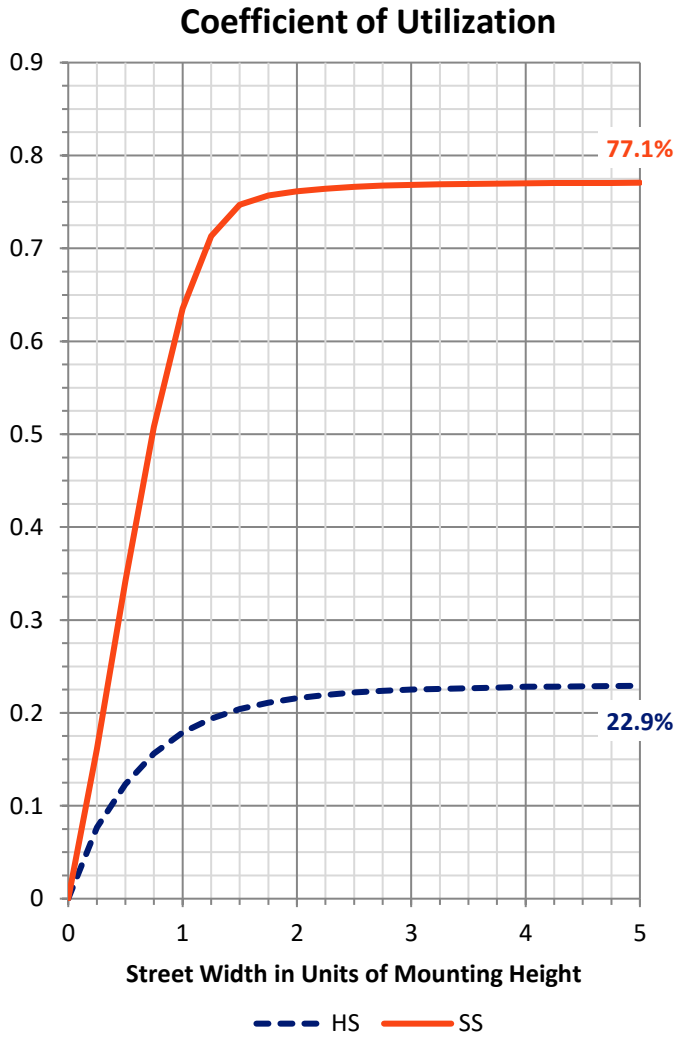
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2327.7	0.0	2327.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7791.9	0.0	7791.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	10119.6	0.0	10119.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.7
10°-20°	624.4	6.2
20°-30°	1182.3	11.7
30°-40°	1960.7	19.4
40°-50°	2678.4	26.5
50°-60°	2431.3	24.0
60°-70°	809.6	8.0
70°-80°	236.1	2.3
80°-90°	24.8	0.2
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°	10119.6	100.0
0°-180°	10119.6	100.0



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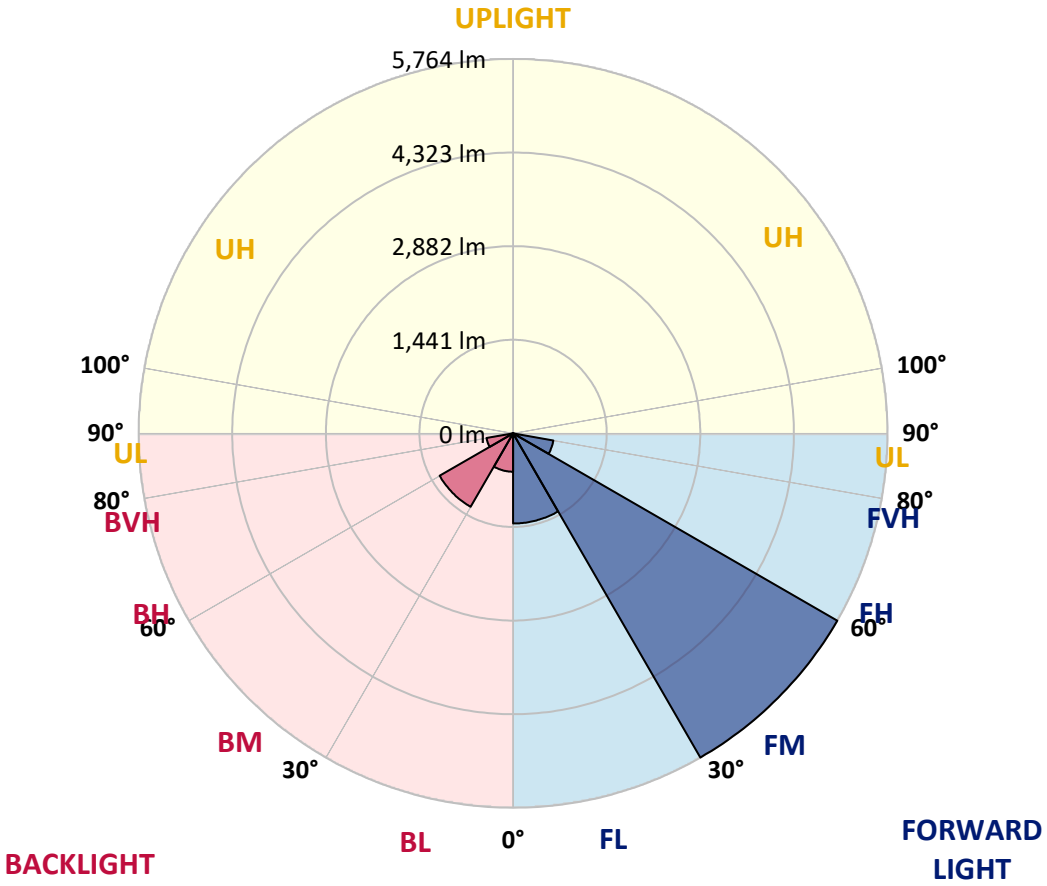
CATALOG NUMBER: GWS-SA4B-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1387.6	13.7			
FM	(30°-60°)	5764.2	57.0			
FH	(60°-80°)	630.3	6.2			G0/660
FVH	(80°-90°)	9.7	0.1			G0/10
BL	(0°-30°)	591.1	5.8	B2/1000		
BM	(30°-60°)	1306.1	12.9	B2/2500		
BH	(60°-80°)	415.5	4.1	B1/500		G1/500
BVH	(80°-90°)	15.1	0.1			G1/100
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2
2.5°	1986.6	2001.4	1978.3	1980.0	1922.3	1895.9	1821.7	1778.0	1749.2	1668.4	1595.0
5°	2387.2	2369.9	2351.7	2341.0	2290.7	2219.8	2127.5	2054.1	1986.6	1828.3	1675.8
7.5°	2632.8	2623.7	2611.4	2604.8	2555.3	2481.1	2388.8	2326.2	2228.1	2013.8	1773.9
10°	2841.3	2830.6	2823.2	2828.2	2787.8	2740.0	2639.4	2567.7	2457.2	2209.9	1892.6
12.5°	3002.9	3008.7	3011.2	3037.5	3020.2	2991.4	2887.5	2811.7	2688.9	2416.8	2031.9
15°	3130.7	3129.0	3157.9	3208.2	3236.2	3218.1	3134.8	3071.3	2921.3	2620.4	2181.9
17.5°	3160.4	3162.0	3207.3	3295.5	3387.0	3431.5	3384.6	3308.7	3160.4	2821.6	2337.7
20°	3184.3	3187.6	3234.5	3335.1	3468.6	3593.1	3600.5	3546.1	3418.4	3039.2	2496.0
22.5°	3335.1	3342.5	3354.9	3418.4	3538.7	3696.1	3782.7	3771.2	3664.0	3267.5	2666.6
25°	3731.6	3709.3	3649.2	3631.0	3677.2	3805.0	3952.5	3974.8	3922.0	3518.9	2850.4
27.5°	4221.2	4197.3	4108.3	4014.3	3914.6	3959.1	4116.5	4183.3	4184.1	3795.9	3035.1
30°	4665.5	4646.6	4574.0	4439.7	4267.4	4203.1	4319.3	4409.2	4462.7	4115.7	3245.3
32.5°	5045.5	5028.2	4930.1	4820.5	4652.3	4522.9	4565.0	4651.5	4776.8	4529.5	3506.6
35°	5365.3	5348.0	5254.1	5143.6	4987.8	4910.3	4895.5	4954.8	5117.2	4961.4	3806.6
37.5°	5625.0	5607.7	5509.6	5405.7	5287.0	5292.0	5314.2	5343.1	5436.2	5423.9	4127.3
40°	5793.2	5775.0	5705.0	5630.8	5555.8	5615.1	5725.6	5690.9	5740.4	5797.3	4422.3
42.5°	5868.2	5845.1	5804.7	5788.2	5765.1	5857.4	6070.1	6035.5	5976.1	6046.2	4641.6
45°	5793.2	5773.4	5772.5	5822.8	5876.4	5995.1	6308.3	6280.3	6130.3	6166.6	4772.7
47.5°	5563.2	5545.9	5592.8	5724.7	5856.6	6029.7	6414.7	6419.6	6239.9	6216.8	4857.6
50°	5066.1	5054.6	5190.6	5440.4	5667.9	5921.7	6380.9	6437.8	6266.3	6201.2	4846.9
52.5°	4055.5	4109.1	4405.0	4822.1	5264.0	5732.2	6255.6	6329.8	6139.4	6098.1	4789.2
55°	2776.2	2801.0	3096.9	3706.0	4406.7	5321.7	5967.9	6082.5	5989.3	6080.8	4849.3
57.5°	1437.6	1457.4	1690.6	2231.4	2988.9	4205.6	5169.2	5545.0	5686.8	6168.2	5036.4
60°	590.2	606.7	703.1	964.4	1507.6	2449.0	3720.0	4277.3	4610.3	5633.2	4472.6
62.5°	428.6	436.9	483.0	575.4	789.7	1200.2	2105.3	2310.5	2544.6	3530.5	2839.7
65°	361.0	370.1	407.2	463.3	576.2	736.1	899.3	904.3	996.6	1438.4	1052.6
67.5°	302.5	310.8	343.7	391.5	465.7	522.6	483.0	483.9	482.2	521.8	504.5
70°	235.7	242.3	275.3	326.4	365.2	335.5	377.5	417.9	400.6	416.3	440.2
72.5°	172.3	179.7	208.5	247.3	237.4	239.0	305.8	347.0	337.1	354.4	376.7
75°	124.5	129.4	144.3	123.6	130.2	157.4	215.1	237.4	247.3	262.1	281.9
77.5°	40.4	40.4	45.3	56.9	70.9	87.4	109.6	118.7	133.5	150.0	164.0
80°	20.6	21.4	25.6	31.3	39.6	50.3	64.3	68.4	75.8	84.9	90.7
82.5°	9.9	10.7	12.4	15.7	20.6	26.4	35.4	39.6	44.5	50.3	54.4
85°	2.5	2.5	3.3	4.9	6.6	9.9	13.2	15.7	19.8	23.9	26.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	4.1	4.9	6.6
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: P637008
CATALOG NUMBER: GWS-SA4B-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2	1533.2
2.5°	1562.0	1515.9	1456.5	1406.2	1360.1	1324.6	1294.1	1279.3	1265.3	1255.4	1258.7
5°	1604.9	1525.8	1415.3	1338.7	1291.7	1267.8	1251.3	1243.0	1241.4	1234.8	1232.3
7.5°	1667.6	1554.6	1407.1	1329.6	1298.3	1285.9	1276.8	1271.9	1274.4	1267.8	1265.3
10°	1745.0	1602.4	1427.7	1359.3	1332.1	1323.0	1313.1	1306.5	1303.2	1293.3	1291.7
12.5°	1841.5	1661.8	1464.8	1397.2	1370.0	1354.3	1341.1	1329.6	1322.2	1309.8	1306.5
15°	1945.3	1727.7	1508.5	1434.3	1402.1	1379.0	1357.6	1340.3	1327.1	1310.6	1308.2
17.5°	2058.3	1797.0	1544.7	1459.8	1418.6	1388.1	1356.8	1331.2	1313.1	1291.7	1289.2
20°	2176.1	1867.0	1571.9	1472.2	1419.4	1378.2	1336.2	1302.4	1279.3	1257.9	1256.2
22.5°	2298.1	1931.3	1588.4	1468.9	1406.2	1355.1	1304.9	1266.9	1239.7	1214.2	1212.5
25°	2421.0	1993.1	1592.5	1455.7	1379.9	1320.5	1270.2	1225.7	1195.2	1166.4	1163.1
27.5°	2545.4	2045.1	1582.6	1429.3	1344.4	1280.1	1229.8	1186.2	1154.8	1126.0	1121.0
30°	2678.1	2089.6	1561.2	1394.7	1303.2	1237.3	1187.8	1154.8	1125.2	1096.3	1091.4
32.5°	2819.9	2128.3	1530.7	1352.7	1255.4	1194.4	1158.1	1128.5	1098.8	1073.2	1068.3
35°	2988.9	2153.9	1485.4	1298.3	1210.9	1163.1	1138.4	1103.7	1067.5	1039.4	1037.0
37.5°	3163.6	2173.7	1431.0	1246.3	1172.1	1144.9	1124.3	1077.4	1032.0	998.2	994.1
40°	3332.6	2190.2	1363.4	1197.7	1136.7	1131.8	1103.7	1045.2	966.9	929.0	925.7
42.5°	3490.1	2195.1	1292.5	1145.8	1104.6	1102.1	1070.8	980.1	919.9	896.0	892.7
45°	3598.1	2191.0	1219.1	1097.1	1072.4	1059.2	1026.2	933.1	896.0	874.6	870.5
47.5°	3678.0	2169.5	1136.7	1046.0	1036.1	1018.0	947.1	903.4	868.8	847.4	843.3
50°	*3664.0*	*2080.5*	*1053.5*	*996.6*	*992.5*	*976.8*	*889.4*	*866.3*	*835.8*	*812.8*	*809.5*
52.5°	3591.5	1911.5	968.5	942.2	950.4	919.9	848.2	821.8	795.4	769.1	763.3
55°	3609.6	1789.5	904.3	889.4	904.3	835.0	802.0	774.0	749.3	723.7	718.8
57.5°	3688.7	1669.2	835.8	832.5	848.2	769.9	742.7	707.2	671.8	651.2	651.2
60°	3097.7	1216.7	715.5	723.7	759.2	717.1	693.2	657.0	618.2	600.1	600.1
62.5°	1831.6	763.3	593.5	584.4	606.7	633.1	646.2	616.6	570.4	546.5	547.3
65°	807.0	555.6	523.4	516.0	509.4	527.5	563.8	566.3	517.7	489.6	490.5
67.5°	497.1	502.8	489.6	483.9	478.1	474.8	471.5	473.1	460.0	434.4	433.6
70°	448.4	464.1	455.0	450.1	442.6	436.9	417.1	384.9	362.7	356.1	363.5
72.5°	385.8	407.2	402.3	399.8	390.7	376.7	350.3	319.0	292.6	276.1	279.4
75°	291.0	308.3	310.8	311.6	301.7	288.5	261.3	234.9	211.8	194.5	198.7
77.5°	167.3	177.2	179.7	182.2	174.8	169.8	151.7	132.7	120.3	102.2	107.2
80°	93.1	97.3	97.3	98.1	94.0	88.2	75.8	65.1	59.3	51.1	51.9
82.5°	56.1	57.7	58.5	59.3	56.9	51.1	42.0	34.6	31.3	27.2	26.4
85°	27.2	28.9	28.9	29.7	25.6	22.3	17.3	13.2	11.5	8.2	9.1
87.5°	6.6	7.4	7.4	6.6	5.8	4.1	2.5	0.8	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

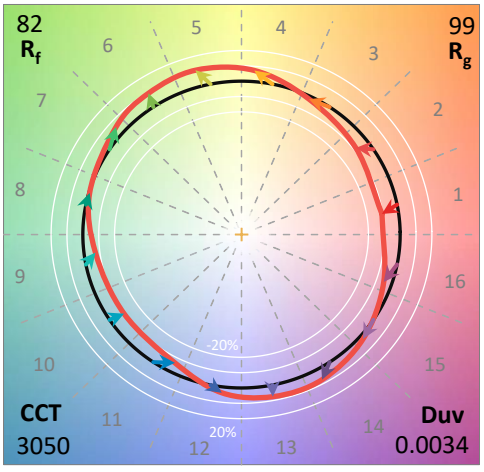
Test Information

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

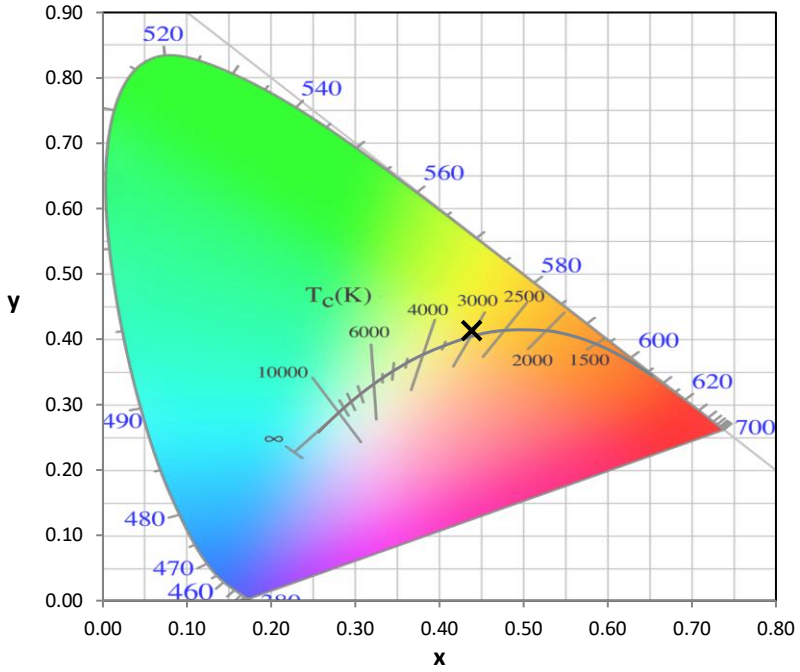
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

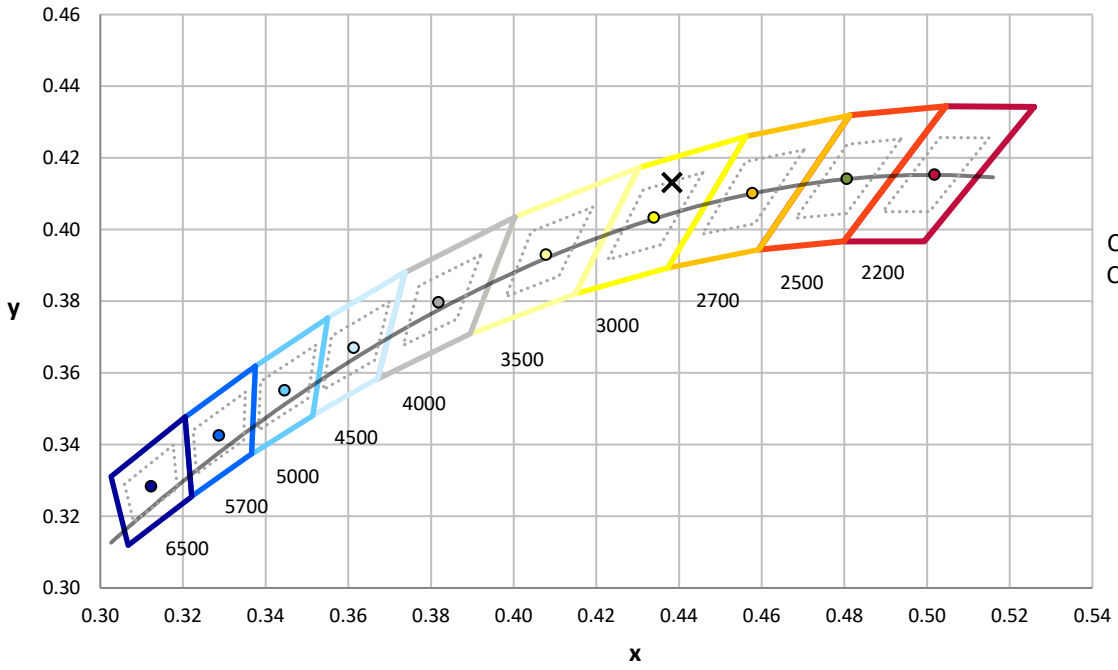
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

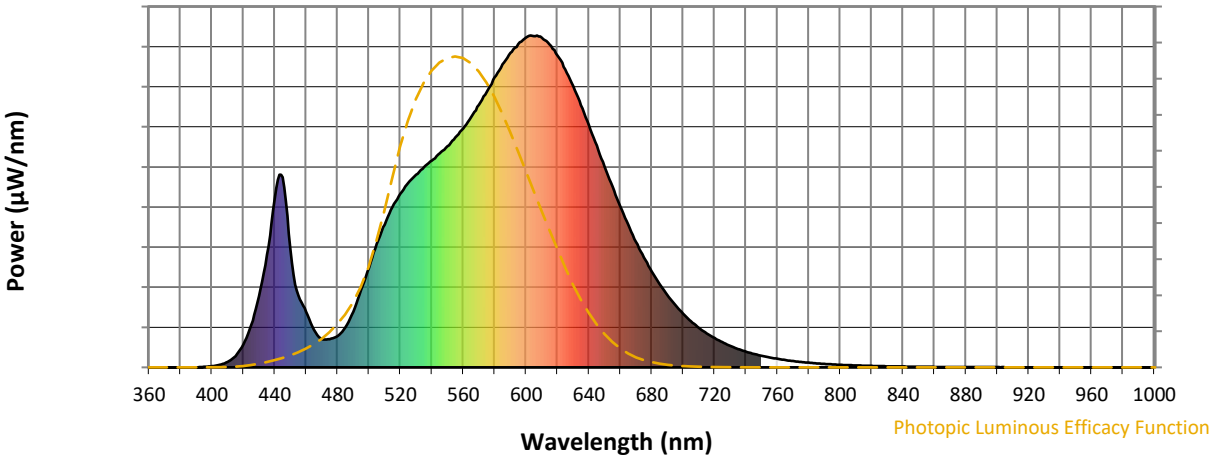


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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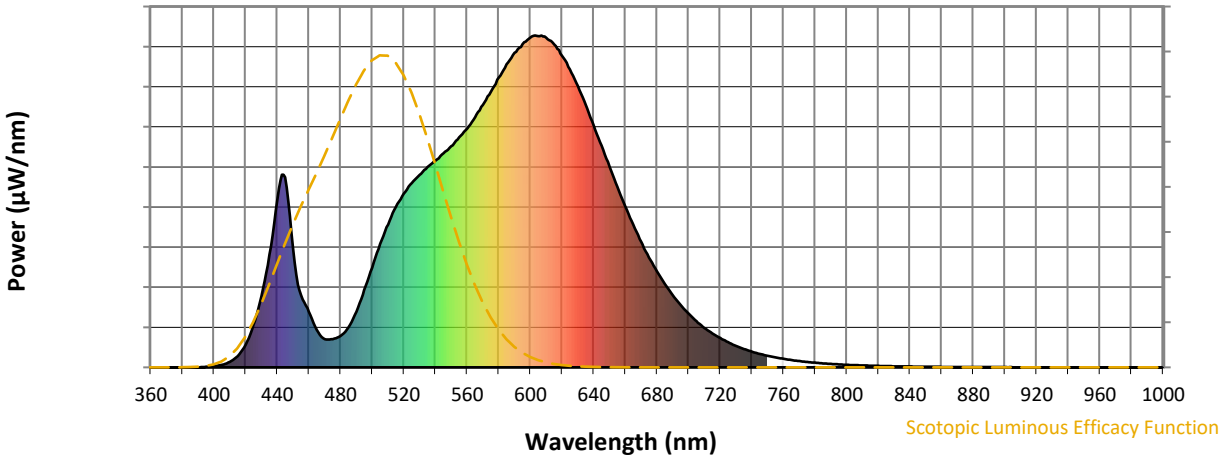
Scotopic Flux vs. Wavelength



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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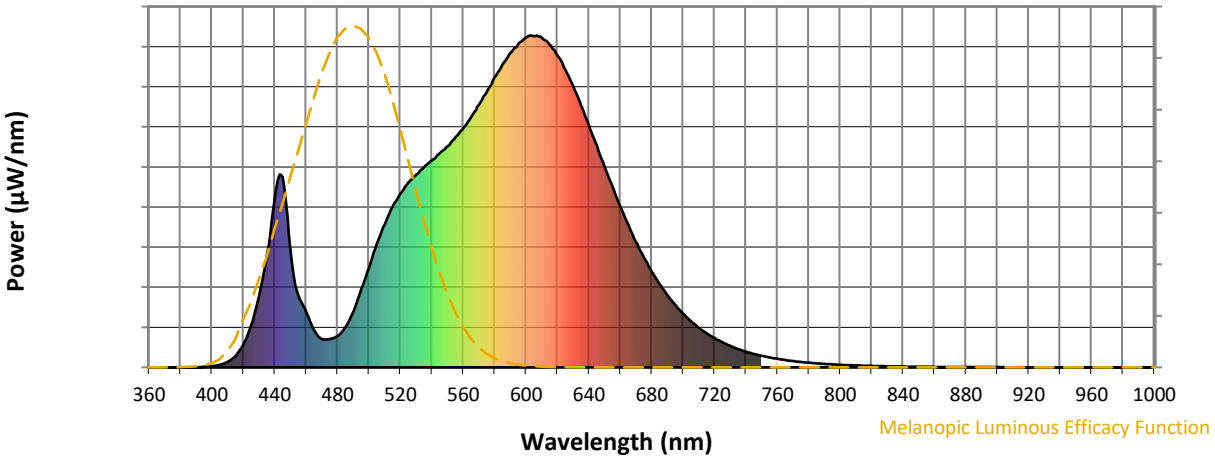
Melanopic Flux vs. Wavelength



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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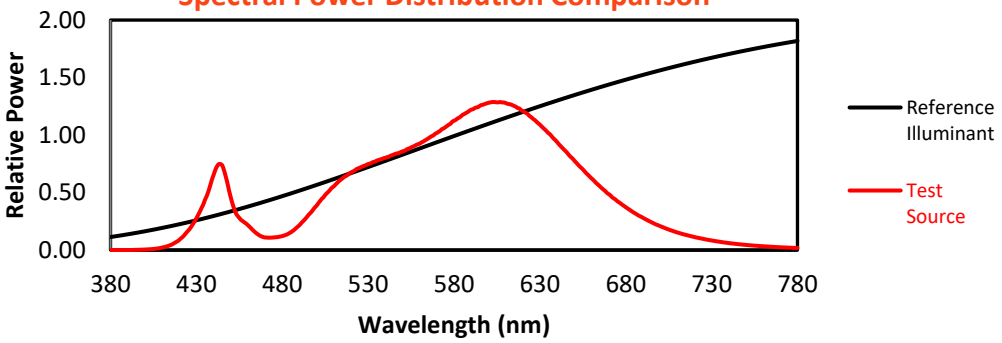
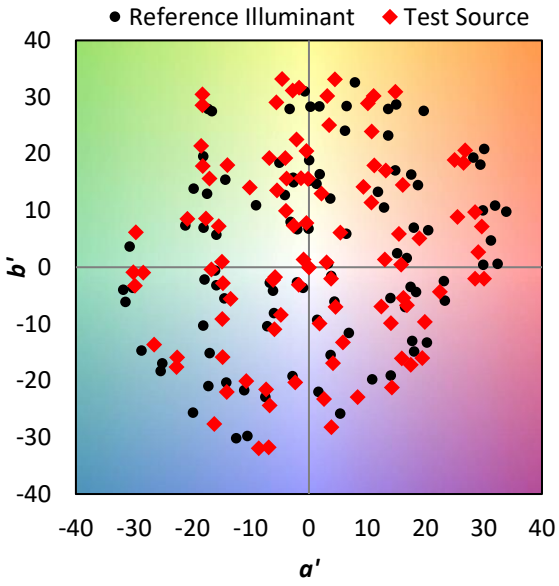
Summary

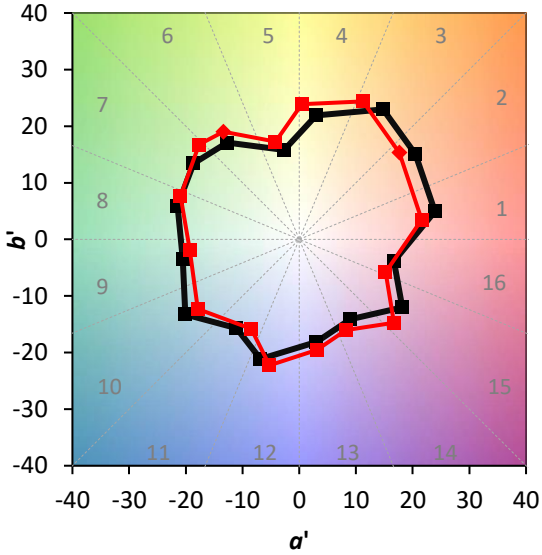
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

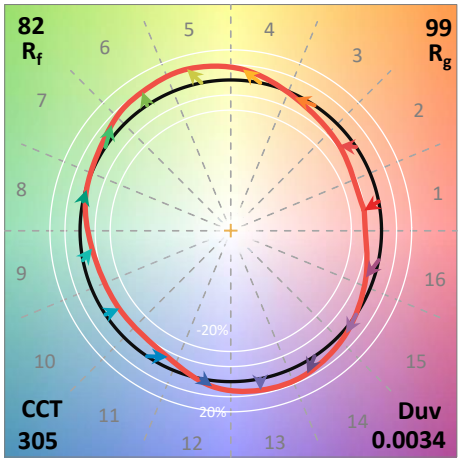
Spectral Power Distribution Comparison

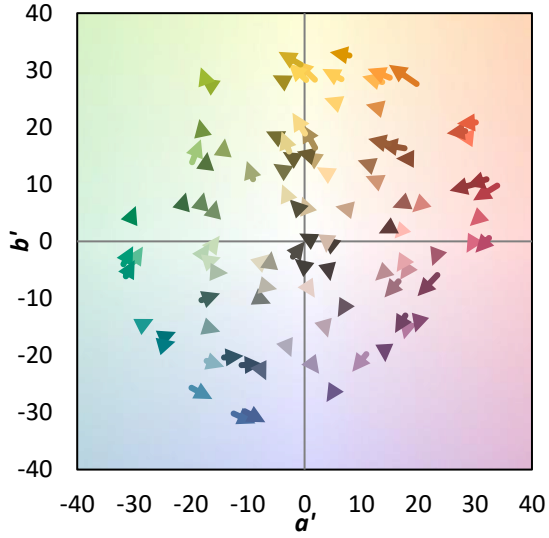


Color Vector Graphics









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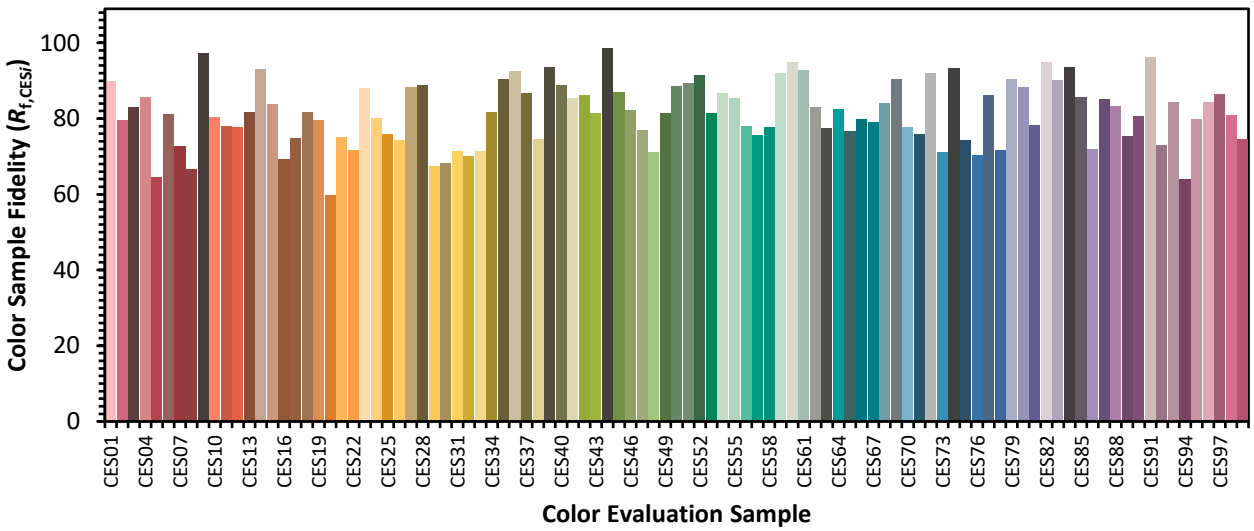
Individual Sample Fidelity Index ($R_{f,i}$)

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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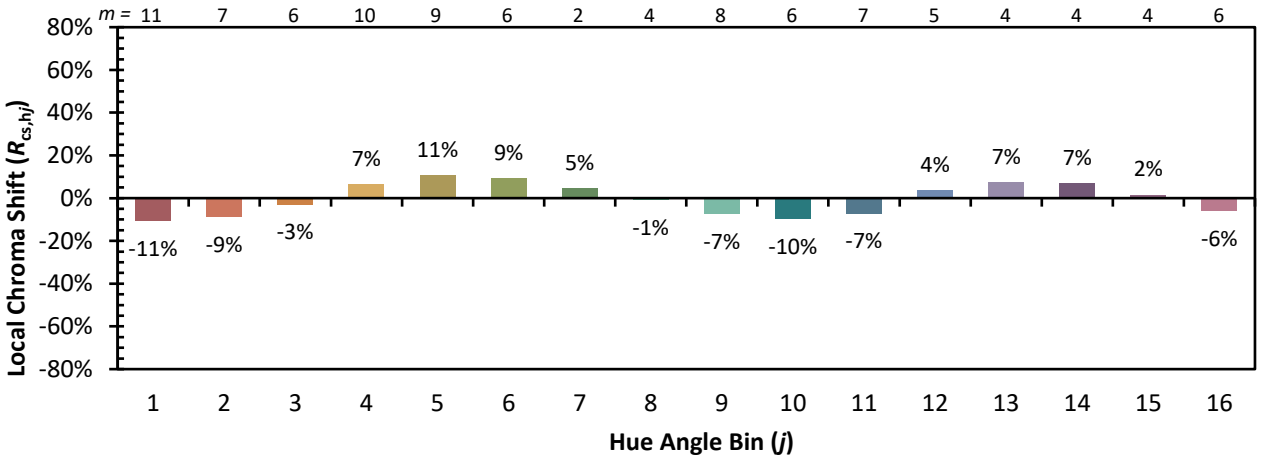
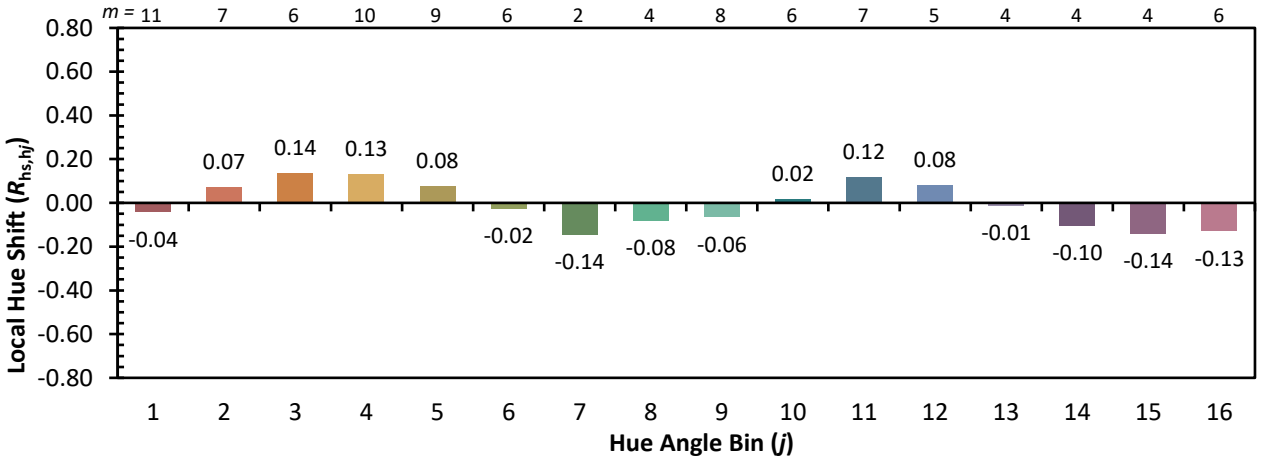
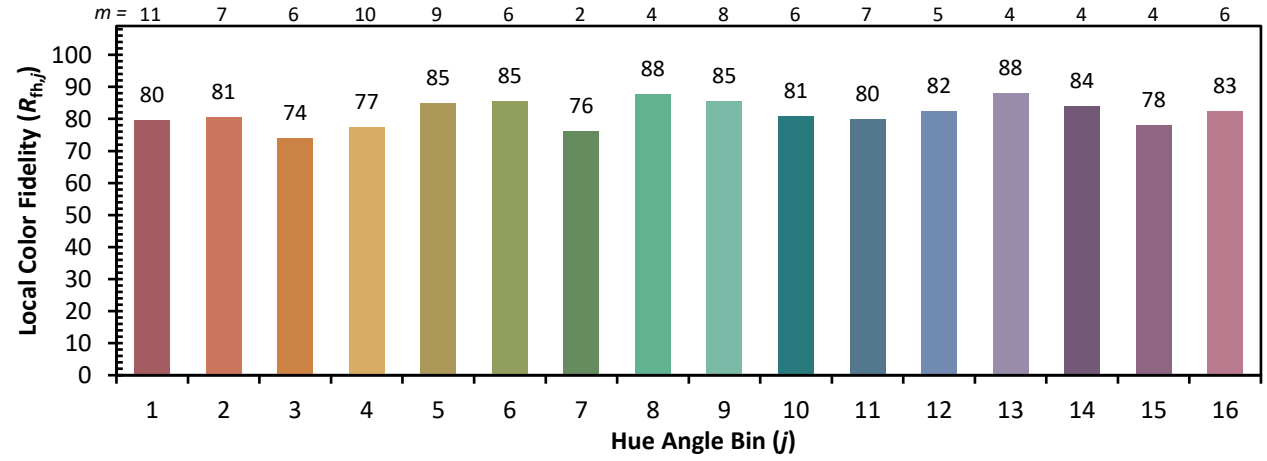
Color Rendition by Hue-Angle Bin







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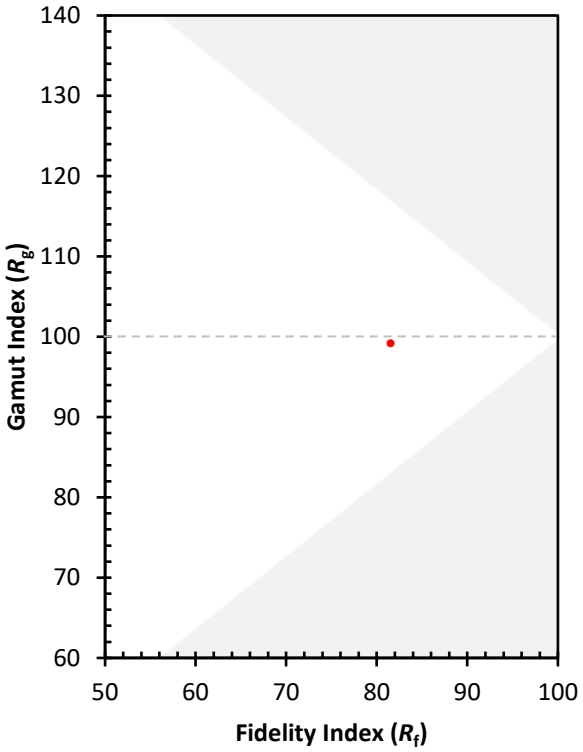
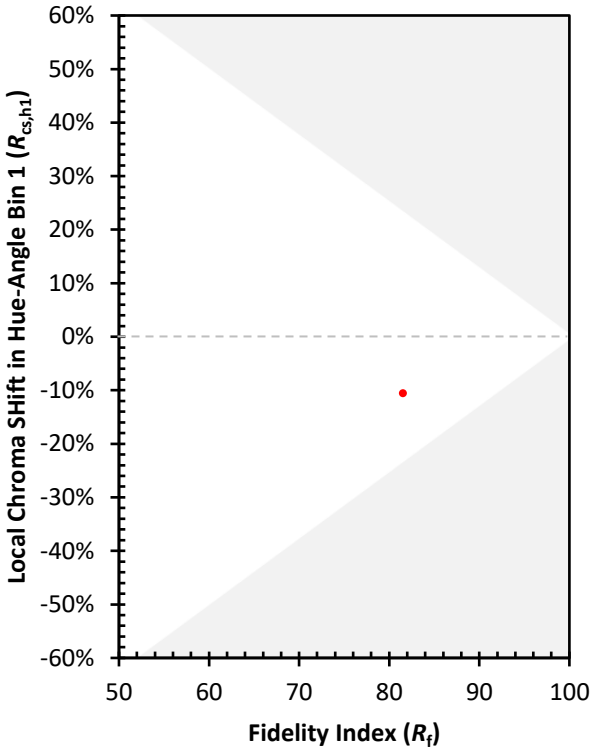
Measure Comparisons





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