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: P635028

Luminaire Tested: GWS-SA3C-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:	P635028
	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-SA3C-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9752.7 lumens
Efficiency:	N/A
Efficacy:	104.9 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):	93
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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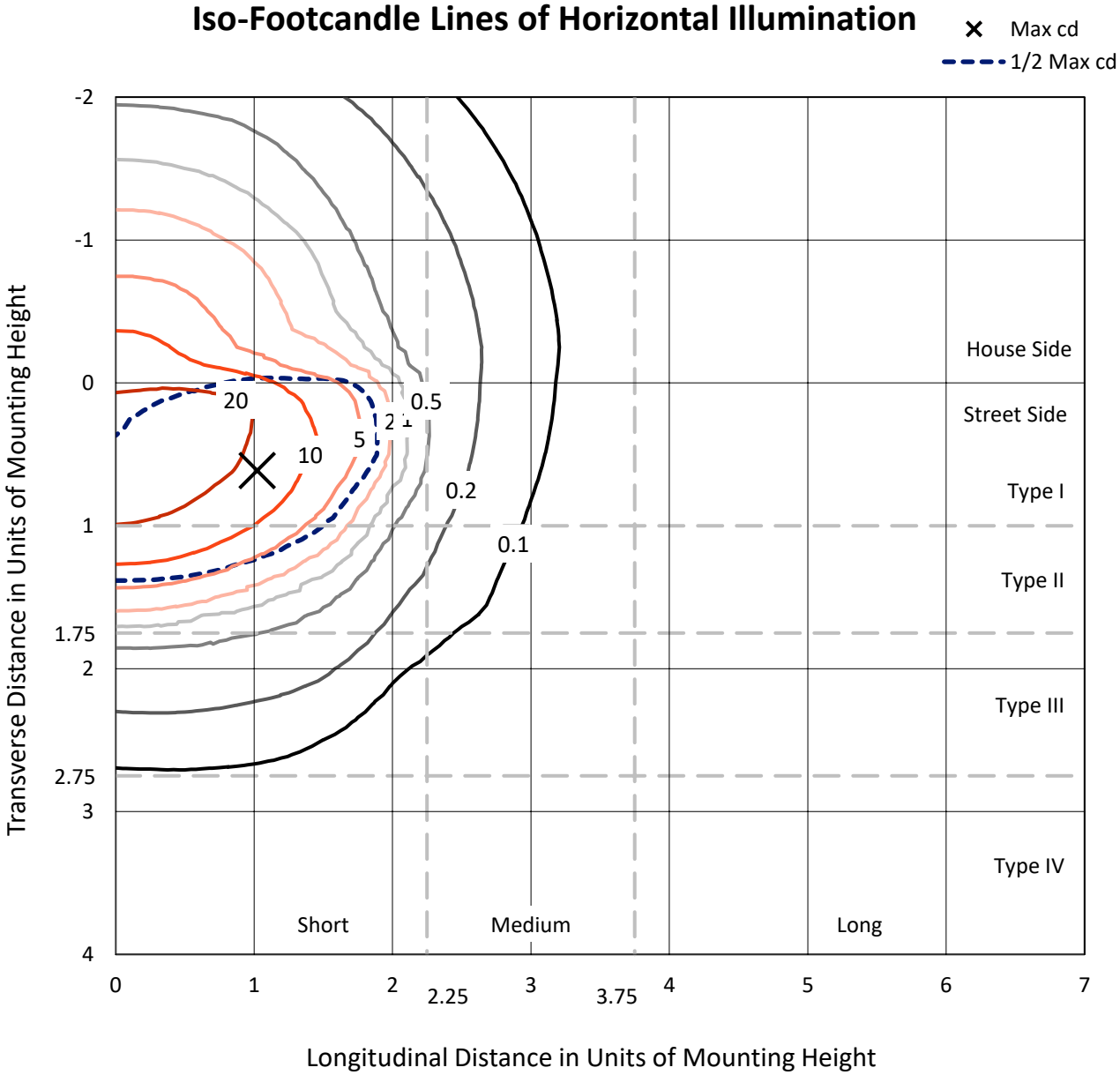
Scaled Data Report

REPORT NUMBER: P635028
CATALOG NUMBER: GWS-SA3C-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 29.2 fc
Type II - Short - N/A

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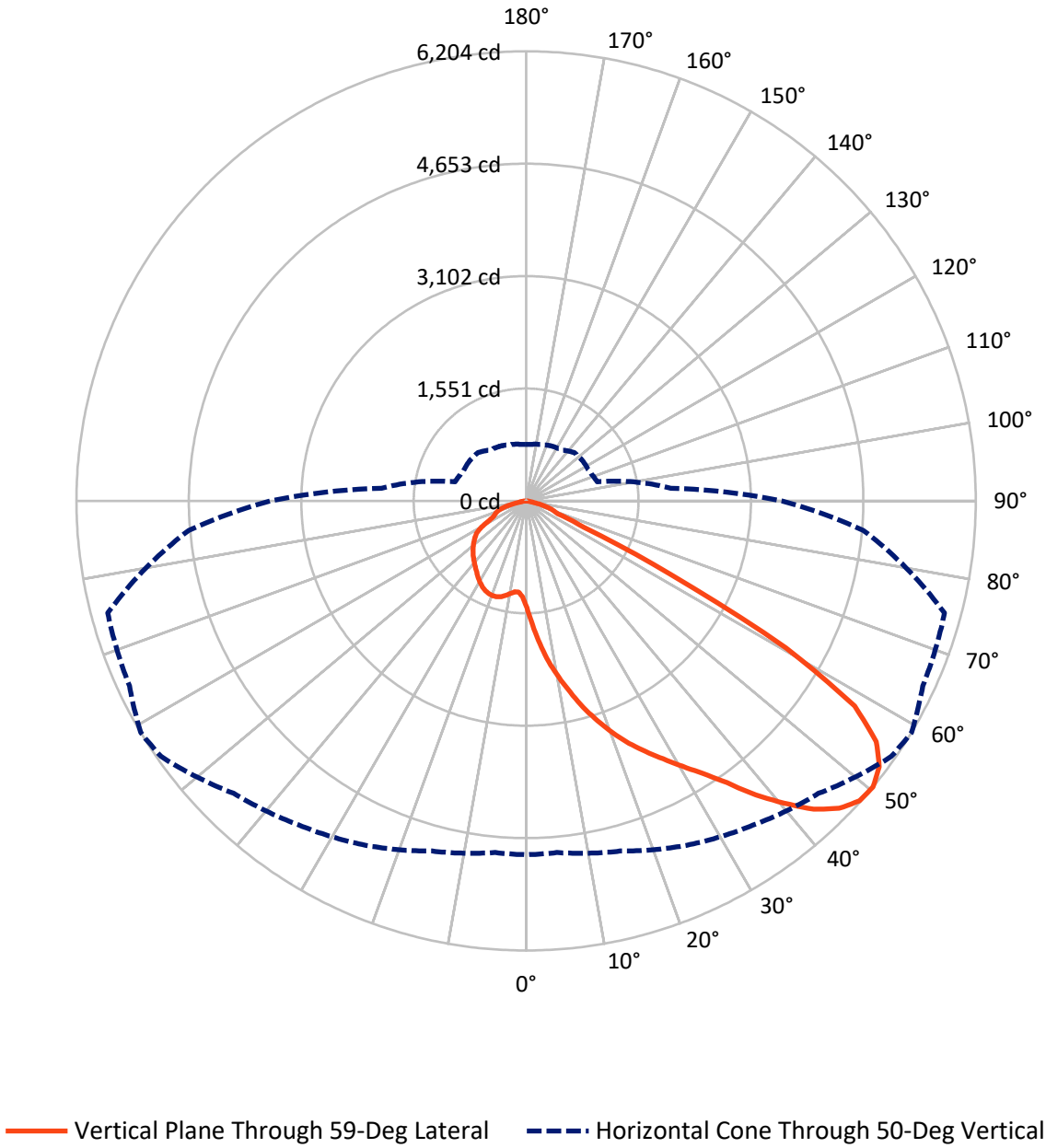
Luminous Intensity Polar Plot



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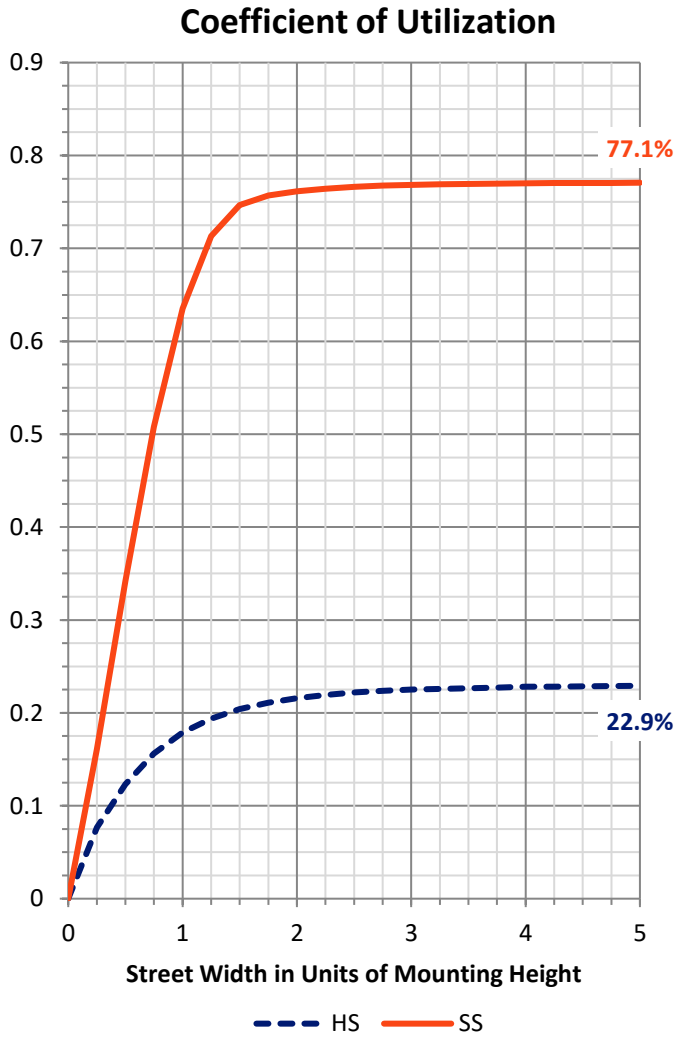
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2243.3	0.0	2243.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7509.4	0.0	7509.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	9752.7	0.0	9752.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.7
10°-20°	601.7	6.2
20°-30°	1139.5	11.7
30°-40°	1889.6	19.4
40°-50°	2581.3	26.5
50°-60°	2343.1	24.0
60°-70°	780.3	8.0
70°-80°	227.6	2.3
80°-90°	23.9	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°	9752.7	100.0
0°-180°	9752.7	100.0



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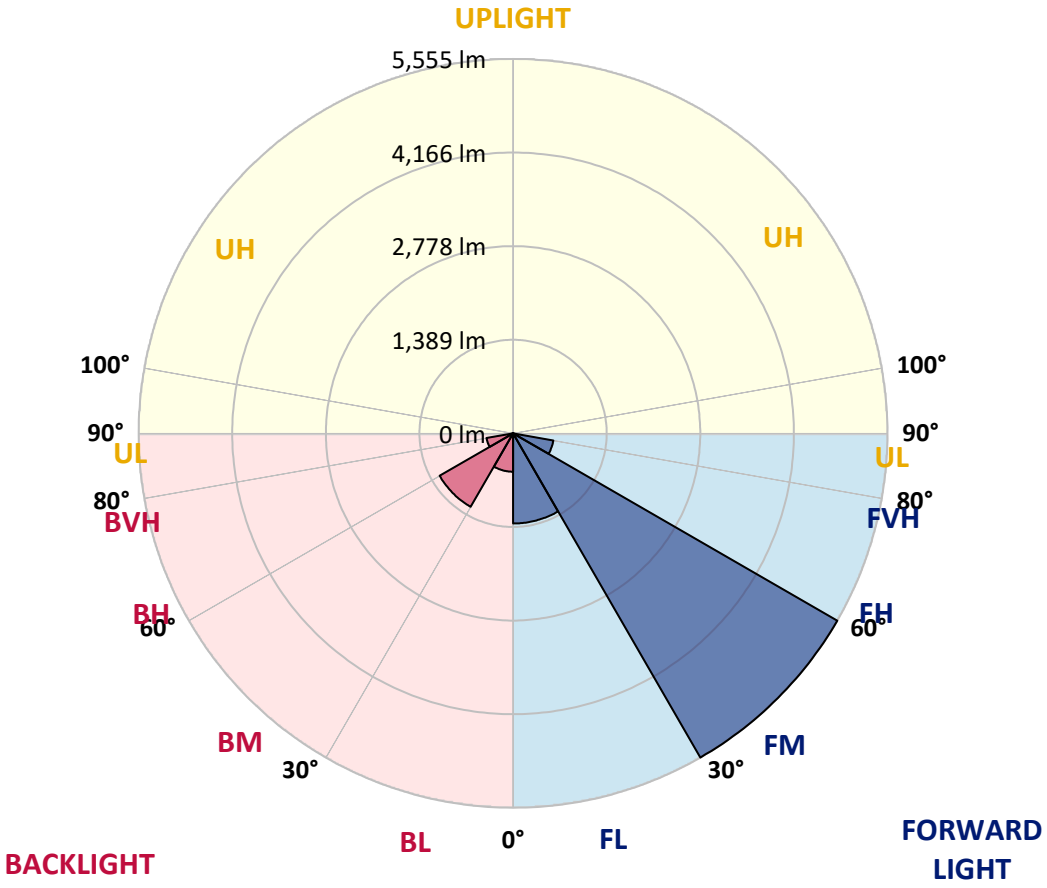
REPORT NUMBER: P635028
CATALOG NUMBER: GWS-SA3C-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1337.3	13.7			
FM	(30°-60°)	5555.3	57.0			
FH	(60°-80°)	607.5	6.2			G0/660
FVH	(80°-90°)	9.3	0.1			G0/10
BL	(0°-30°)	569.6	5.8	B2/1000		
BM	(30°-60°)	1258.7	12.9	B2/2500		
BH	(60°-80°)	400.4	4.1	B1/500		G1/500
BVH	(80°-90°)	14.6	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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REPORT NUMBER: P635028
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	*1477.6*	1477.6	1477.6	1477.6
2.5°	1914.5	1928.8	1906.6	1908.2	1852.6	1827.1	1755.6	*1713.5*	1685.7	1607.9	1537.2
5°	2300.6	2283.9	2266.5	2256.1	2207.7	2139.3	2050.4	*1979.7*	1914.5	1762.0	1615.0
7.5°	2537.3	2528.6	2516.7	2510.3	2462.7	2391.2	2302.2	*2241.8*	2147.3	1940.7	1709.6
10°	2738.3	2728.0	2720.9	2725.6	2686.7	2640.6	2543.7	*2474.6*	2368.1	2129.8	1824.0
12.5°	2894.0	2899.6	2902.0	2927.4	2910.7	2882.9	2782.8	*2709.7*	2591.4	2329.2	1958.2
15°	3017.2	3015.6	3043.4	3091.8	3118.9	3101.4	3021.1	*2960.0*	2815.4	2525.4	2102.8
17.5°	3045.8	3047.4	3091.1	3176.1	3264.2	3307.1	3261.8	*3188.8*	3045.8	2719.3	2252.9
20°	3068.8	3072.0	3117.3	3214.2	3342.9	3462.8	3470.0	*3417.6*	3294.4	2929.0	2405.5
22.5°	3214.2	3221.3	3233.2	3294.4	3410.4	3562.1	3645.5	*3634.4*	3531.2	3149.0	2569.9
25°	3596.3	3574.8	3516.9	3499.4	3543.9	3667.0	3809.2	*3830.6*	3779.8	3391.3	2747.1
27.5°	4068.2	4045.1	3959.3	3868.8	3772.7	3815.6	3967.3	*4031.6*	4032.4	3658.3	2925.0
30°	4496.4	4478.1	4408.2	4278.7	4112.7	4050.7	4162.7	*4249.3*	4300.9	3966.5	3127.6
32.5°	4862.6	4845.9	4751.4	4645.7	4483.7	4358.9	4399.4	*4482.9*	4603.6	4365.3	3379.4
35°	5170.8	5154.1	5063.6	4957.1	4807.0	4732.3	4718.0	*4775.2*	4931.7	4781.6	3668.6
37.5°	5421.1	5404.4	5309.8	5209.7	5095.3	5100.1	5121.6	*5149.4*	5239.1	5227.2	3977.6
40°	5583.1	5565.6	5498.1	5426.6	5354.3	5411.5	5518.0	*5484.6*	5532.3	5587.1	4262.0
42.5°	5655.4	5633.2	5594.2	5578.3	5556.1	5645.1	5850.0	*5816.7*	5759.5	5827.0	4473.3
45°	5583.1	5564.0	5563.3	5611.7	5663.4	5777.7	6079.6	*6052.6*	5908.0	5943.0	4599.6
47.5°	5361.5	5344.8	5390.1	5517.2	5644.3	5811.1	6182.1	*6186.9*	6013.7	5991.4	4681.5
50°	*4882.4*	*4871.3*	*5002.4*	*5243.1*	*5462.4*	*5707.0*	*6149.5*	*6204.3*	*6039.1*	*5976.3*	*4671.1*
52.5°	3908.5	3960.1	4245.3	4647.3	5073.1	5524.3	6028.8	*6100.3*	5916.8	5877.0	4615.5
55°	2675.6	2699.4	2984.6	3571.7	4246.9	5128.7	5751.5	*5862.0*	5772.2	5860.4	4673.5
57.5°	1385.5	1404.5	1629.3	2150.5	2880.5	4053.1	4981.7	*5344.0*	5480.6	5944.6	4853.8
60°	568.8	584.7	677.6	929.5	1453.0	2360.2	3585.2	*4122.2*	4443.1	5429.0	4310.5
62.5°	413.1	421.0	465.5	554.5	761.0	1156.7	2028.9	*2226.7*	2452.3	3402.5	2736.7
65°	348.0	356.7	392.4	446.5	555.3	709.4	866.7	*871.5*	960.4	1386.2	1014.5
67.5°	291.5	299.5	331.3	377.3	448.8	503.7	465.5	*466.3*	464.7	502.9	486.2
70°	227.2	233.6	265.3	314.6	351.9	323.3	363.8	*402.8*	386.1	401.2	424.2
72.5°	166.0	173.2	201.0	238.3	228.8	230.4	294.7	*334.4*	324.9	341.6	363.0
75°	120.0	124.7	139.0	119.2	125.5	151.7	207.3	*228.8*	238.3	252.6	271.7
77.5°	38.9	38.9	43.7	54.8	68.3	84.2	105.7	*114.4*	128.7	144.6	158.1
80°	19.9	20.7	24.6	30.2	38.1	48.5	62.0	*65.9*	73.1	81.8	87.4
82.5°	9.5	10.3	11.9	15.1	19.9	25.4	34.2	*38.1*	42.9	48.5	52.4
85°	2.4	2.4	3.2	4.8	6.4	9.5	12.7	*15.1*	19.1	23.0	25.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.4	*3.2*	4.0	4.8	6.4
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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CATALOG NUMBER: GWS-SA3C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1505.4	1460.9	1403.7	1355.3	1310.8	1276.6	1247.2	1232.9	1219.4	1209.9	1213.1
5°	1546.7	1470.5	1364.0	1290.1	1244.8	1221.8	1205.9	1198.0	1196.4	1190.0	1187.6
7.5°	1607.1	1498.3	1356.1	1281.4	1251.2	1239.3	1230.5	1225.8	1228.2	1221.8	1219.4
10°	1681.8	1544.3	1375.9	1310.0	1283.8	1275.0	1265.5	1259.1	1256.0	1246.4	1244.8
12.5°	1774.7	1601.5	1411.7	1346.5	1320.3	1305.2	1292.5	1281.4	1274.2	1262.3	1259.1
15°	1874.8	1665.1	1453.8	1382.3	1351.3	1329.0	1308.4	1291.7	1279.0	1263.1	1260.7
17.5°	1983.6	1731.8	1488.7	1406.9	1367.2	1337.8	1307.6	1283.0	1265.5	1244.8	1242.5
20°	2097.2	1799.3	1514.9	1418.8	1368.0	1328.3	1287.7	1255.2	1232.9	1212.3	1210.7
22.5°	2214.8	1861.3	1530.8	1415.6	1355.3	1306.0	1257.6	1221.0	1194.8	1170.2	1168.6
25°	2333.2	1920.9	1534.8	1402.9	1329.8	1272.6	1224.2	1181.3	1151.9	1124.1	1120.9
27.5°	2453.1	1970.9	1525.3	1377.5	1295.7	1233.7	1185.3	1143.2	1113.0	1085.2	1080.4
30°	2581.0	2013.8	1504.6	1344.1	1256.0	1192.4	1144.7	1113.0	1084.4	1056.6	1051.8
32.5°	2717.7	2051.2	1475.2	1303.6	1209.9	1151.1	1116.1	1087.5	1058.9	1034.3	1029.6
35°	2880.5	2075.8	1431.5	1251.2	1167.0	1120.9	1097.1	1063.7	1028.8	1001.8	999.4
37.5°	3048.9	2094.9	1379.1	1201.1	1129.7	1103.4	1083.6	1038.3	994.6	962.0	958.1
40°	3211.8	2110.7	1314.0	1154.3	1095.5	1090.7	1063.7	1007.3	931.8	895.3	892.1
42.5°	3363.5	2115.5	1245.6	1104.2	1064.5	1062.1	1031.9	944.6	886.6	863.5	860.3
45°	3467.6	2111.5	1174.9	1057.4	1033.5	1020.8	989.0	899.3	863.5	842.9	838.9
47.5°	3544.7	2090.9	1095.5	1008.1	998.6	981.1	912.8	870.7	837.3	816.7	812.7
50°	*3531.2*	*2005.1*	*1015.3*	*960.4*	*956.5*	*941.4*	*857.2*	*834.9*	*805.5*	*783.3*	*780.1*
52.5°	3461.2	1842.2	933.4	908.0	916.0	886.6	817.4	792.0	766.6	741.2	735.6
55°	3478.7	1724.7	871.5	857.2	871.5	804.7	773.0	746.0	722.1	697.5	692.7
57.5°	3555.0	1608.7	805.5	802.4	817.4	742.0	715.8	681.6	647.4	627.6	627.6
60°	2985.4	1172.5	689.5	697.5	731.7	691.1	668.1	633.1	595.8	578.3	578.3
62.5°	1765.2	735.6	572.0	563.2	584.7	610.1	622.8	594.2	549.7	526.7	527.5
65°	777.7	535.4	504.5	497.3	490.9	508.4	543.4	545.8	498.9	471.9	472.7
67.5°	479.0	484.6	471.9	466.3	460.8	457.6	454.4	456.0	443.3	418.7	417.9
70°	432.2	447.3	438.5	433.7	426.6	421.0	402.0	371.0	349.5	343.2	350.3
72.5°	371.8	392.4	387.7	385.3	376.6	363.0	337.6	307.4	282.0	266.1	269.3
75°	280.4	297.1	299.5	300.3	290.8	278.0	251.8	226.4	204.2	187.5	191.5
77.5°	161.3	170.8	173.2	175.6	168.4	163.6	146.2	127.9	116.0	98.5	103.3
80°	89.8	93.7	93.7	94.5	90.6	85.0	73.1	62.8	57.2	49.3	50.0
82.5°	54.0	55.6	56.4	57.2	54.8	49.3	40.5	33.4	30.2	26.2	25.4
85°	26.2	27.8	27.8	28.6	24.6	21.4	16.7	12.7	11.1	7.9	8.7
87.5°	6.4	7.1	7.1	6.4	5.6	4.0	2.4	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

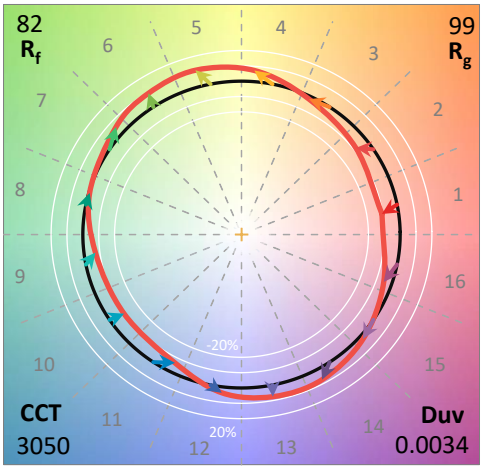
Test Information

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

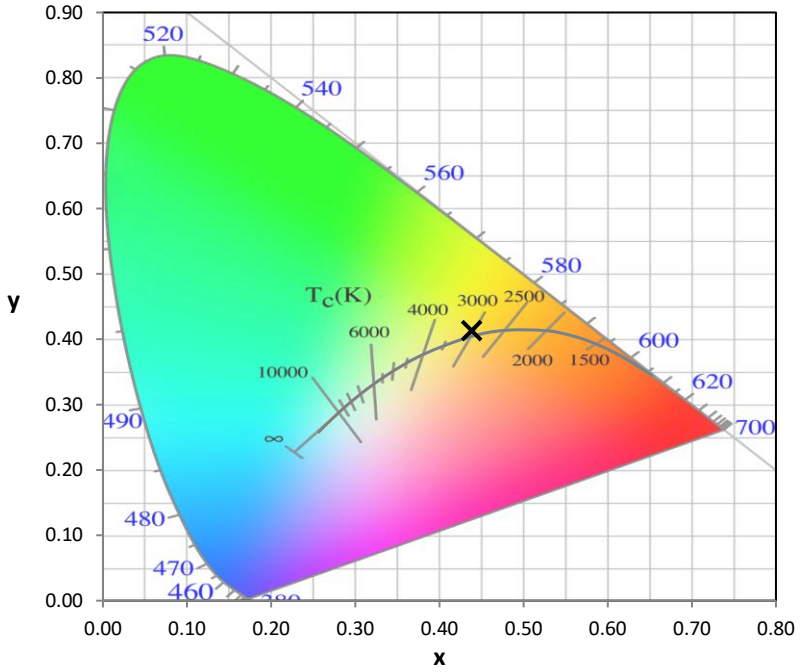
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

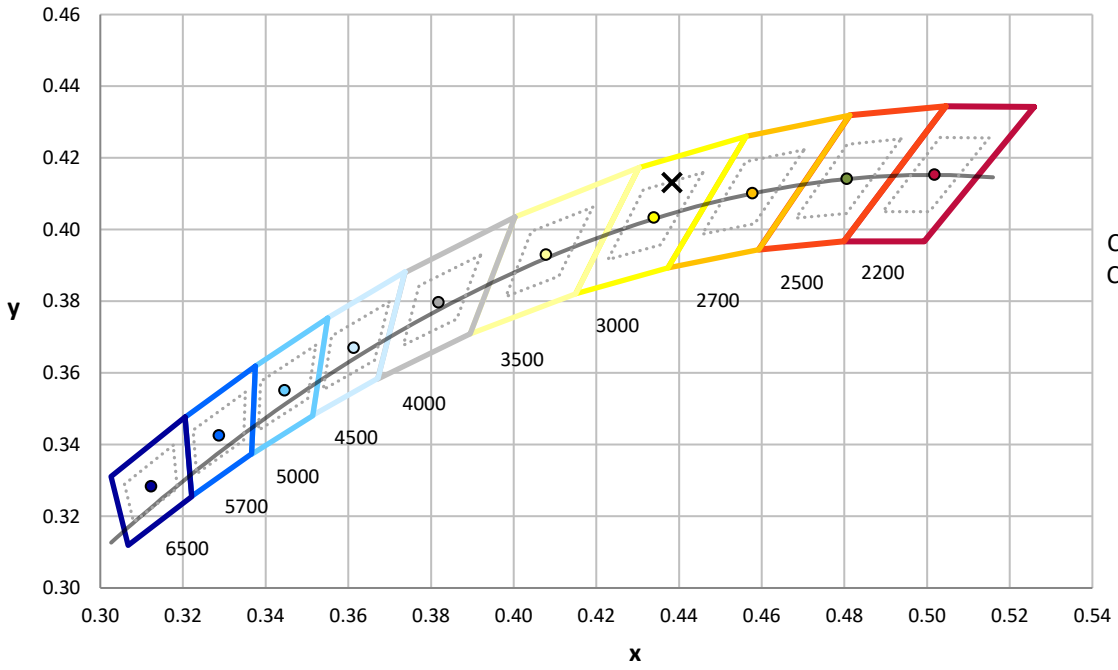
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

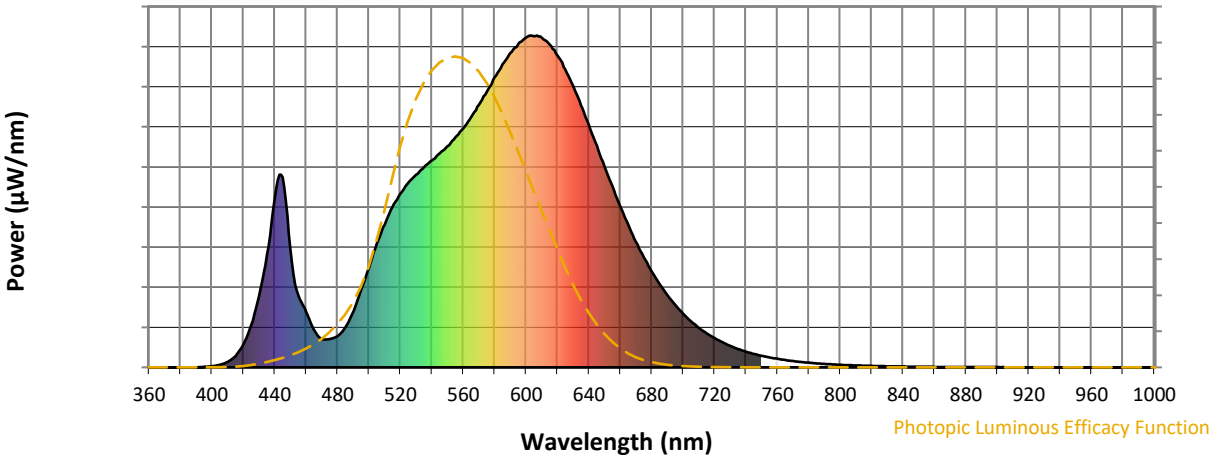


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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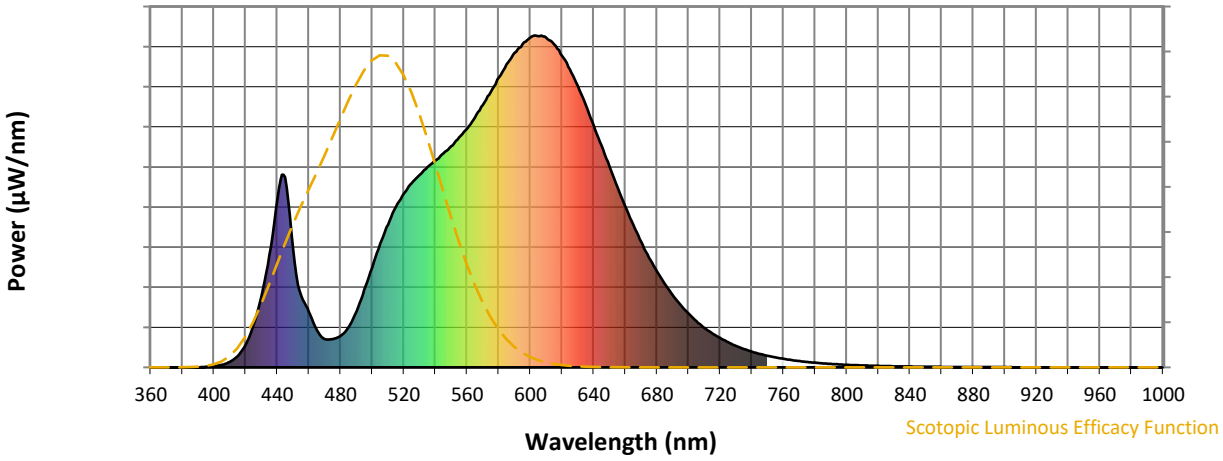
Scotopic Flux vs. Wavelength



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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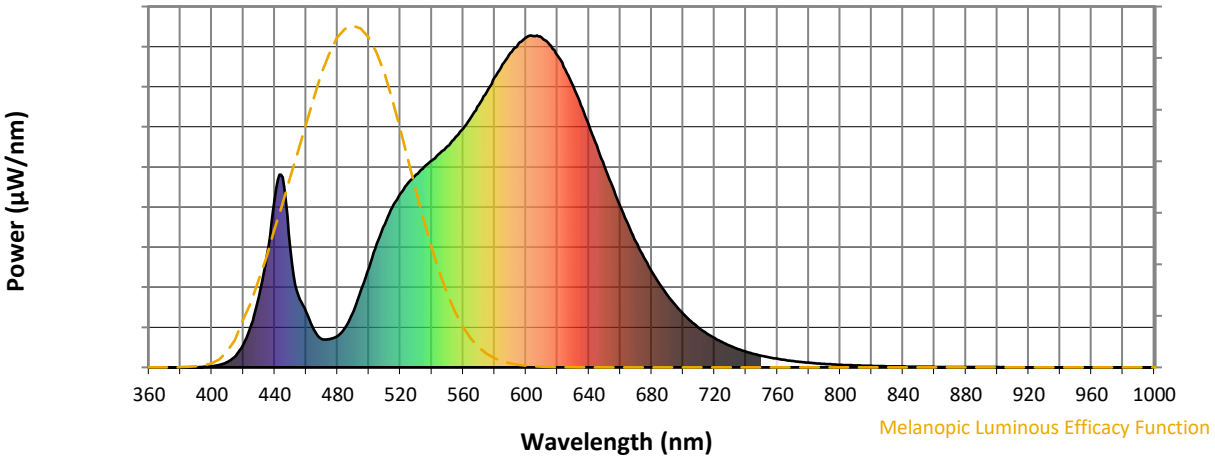
Melanopic Flux vs. Wavelength



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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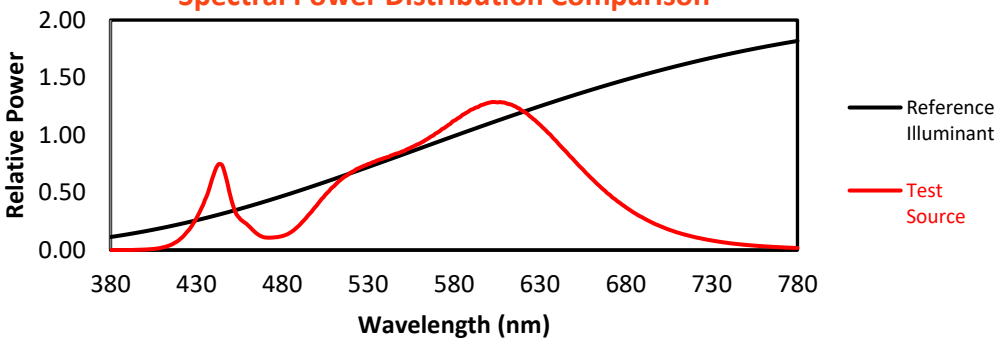
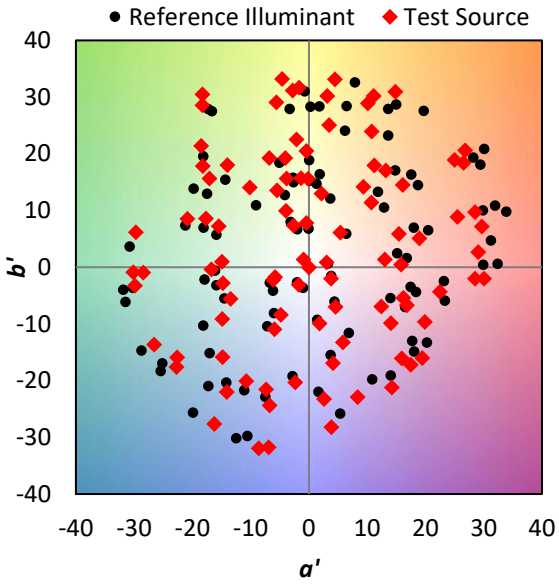
Summary

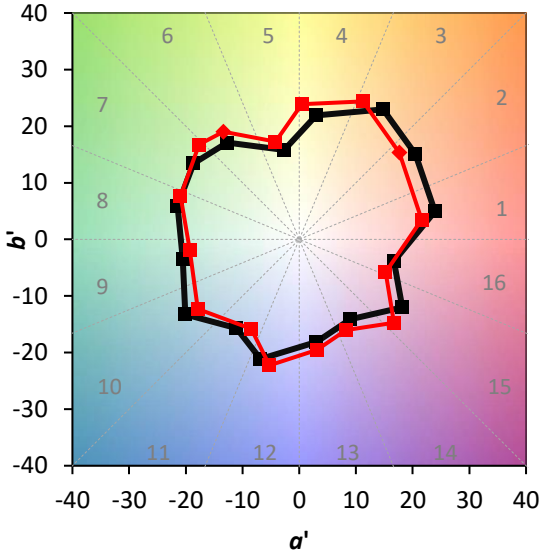
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

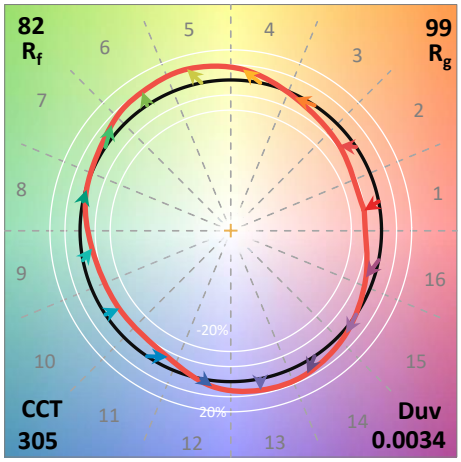
Spectral Power Distribution Comparison

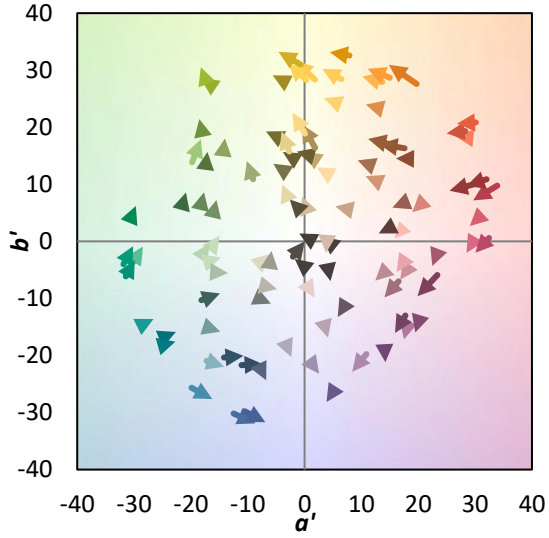


Color Vector Graphics









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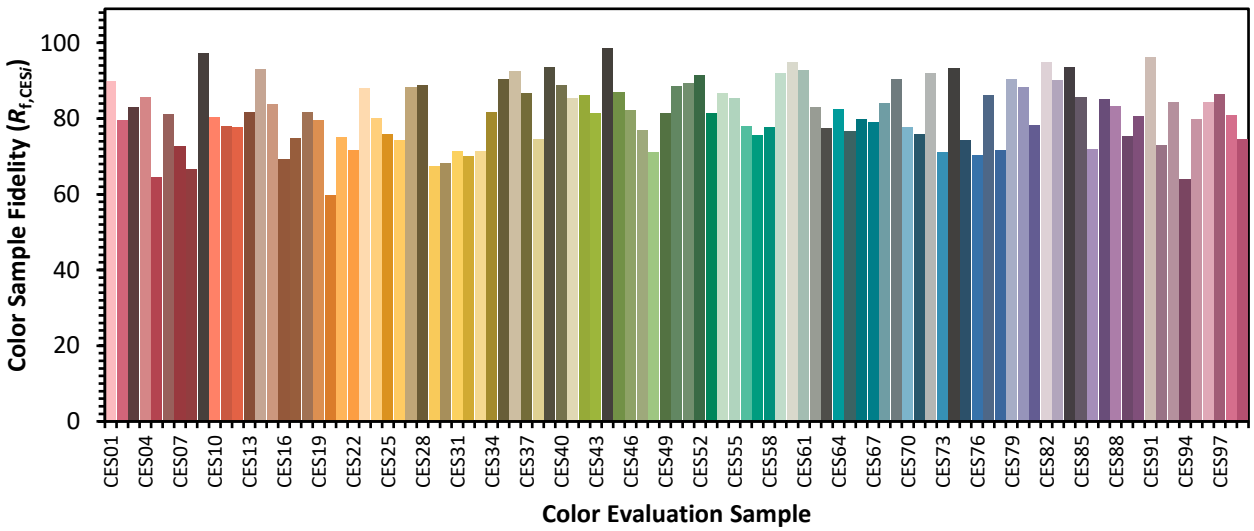
Individual Sample Fidelity Index ($R_{f,i}$)

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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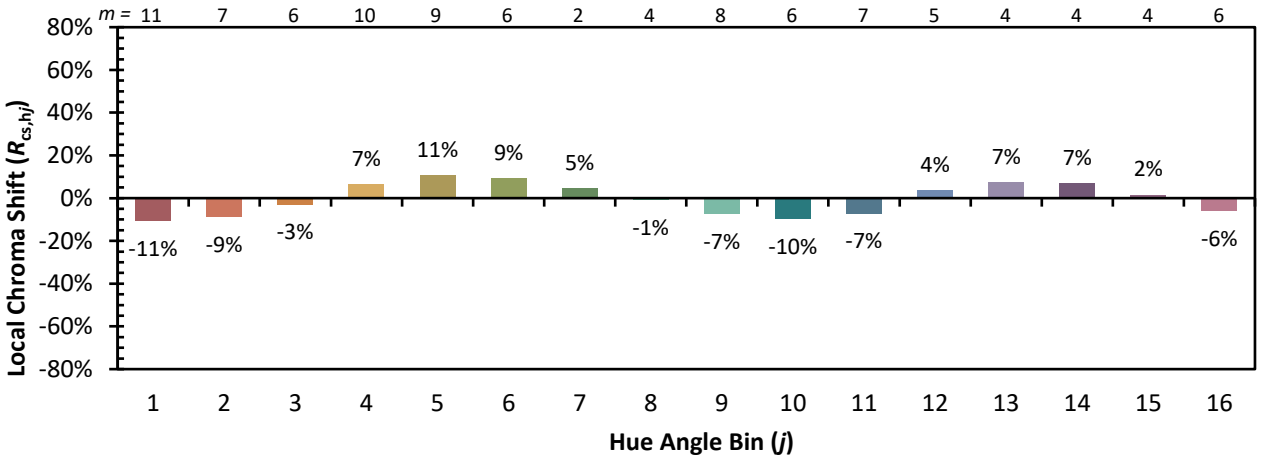
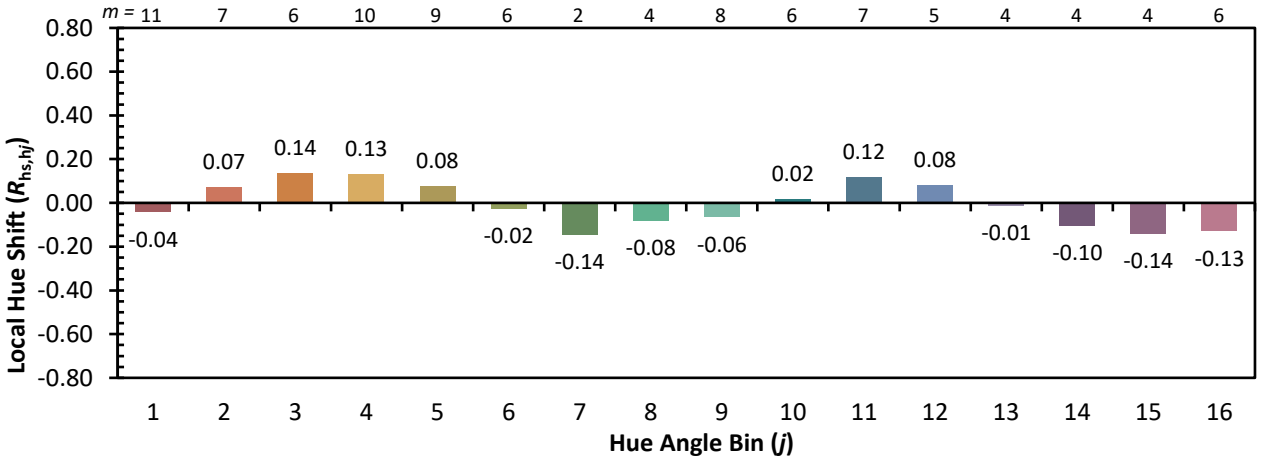
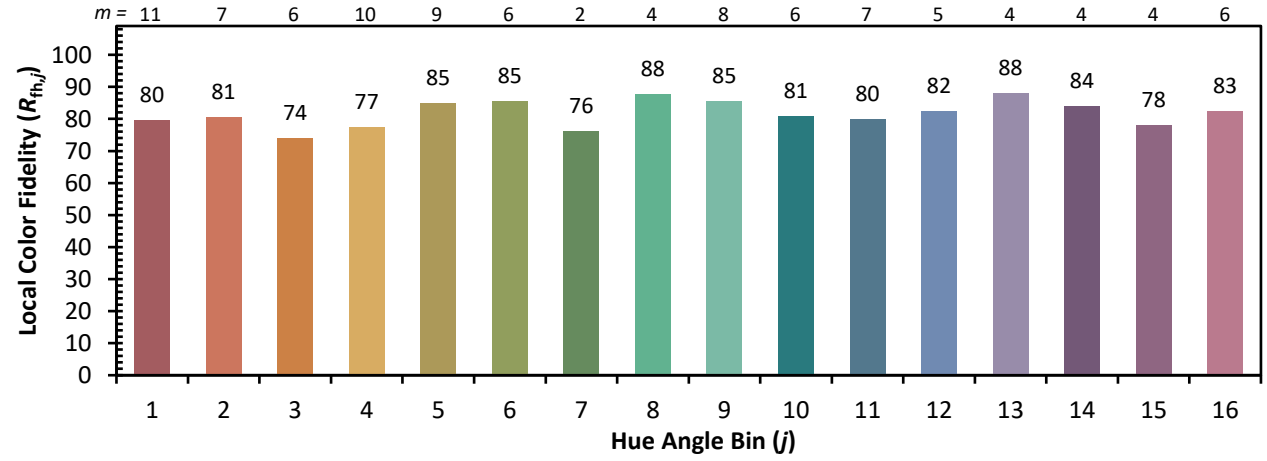
Color Rendition by Hue-Angle Bin







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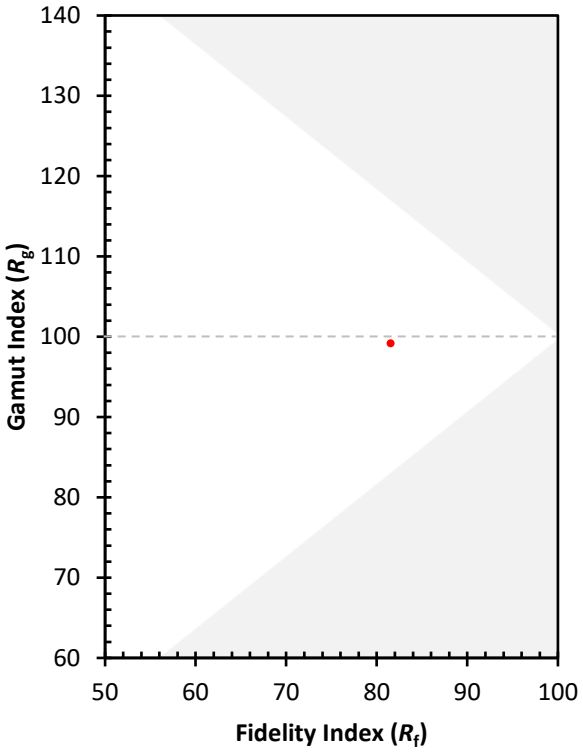
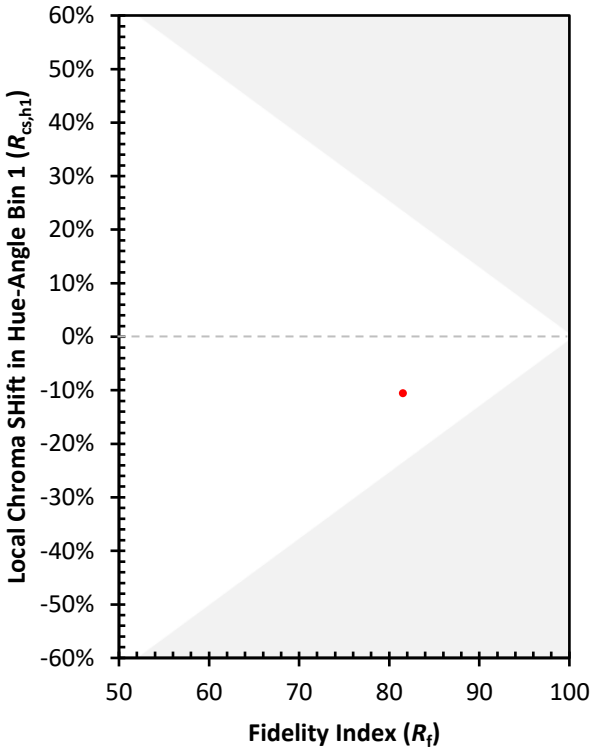
Measure Comparisons





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