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: P632031

Luminaire Tested: GWS-SA2B-830-U-RW-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:	P632031
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3553.2 lumens
Efficiency:	N/A
Efficacy:	76.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	46.4
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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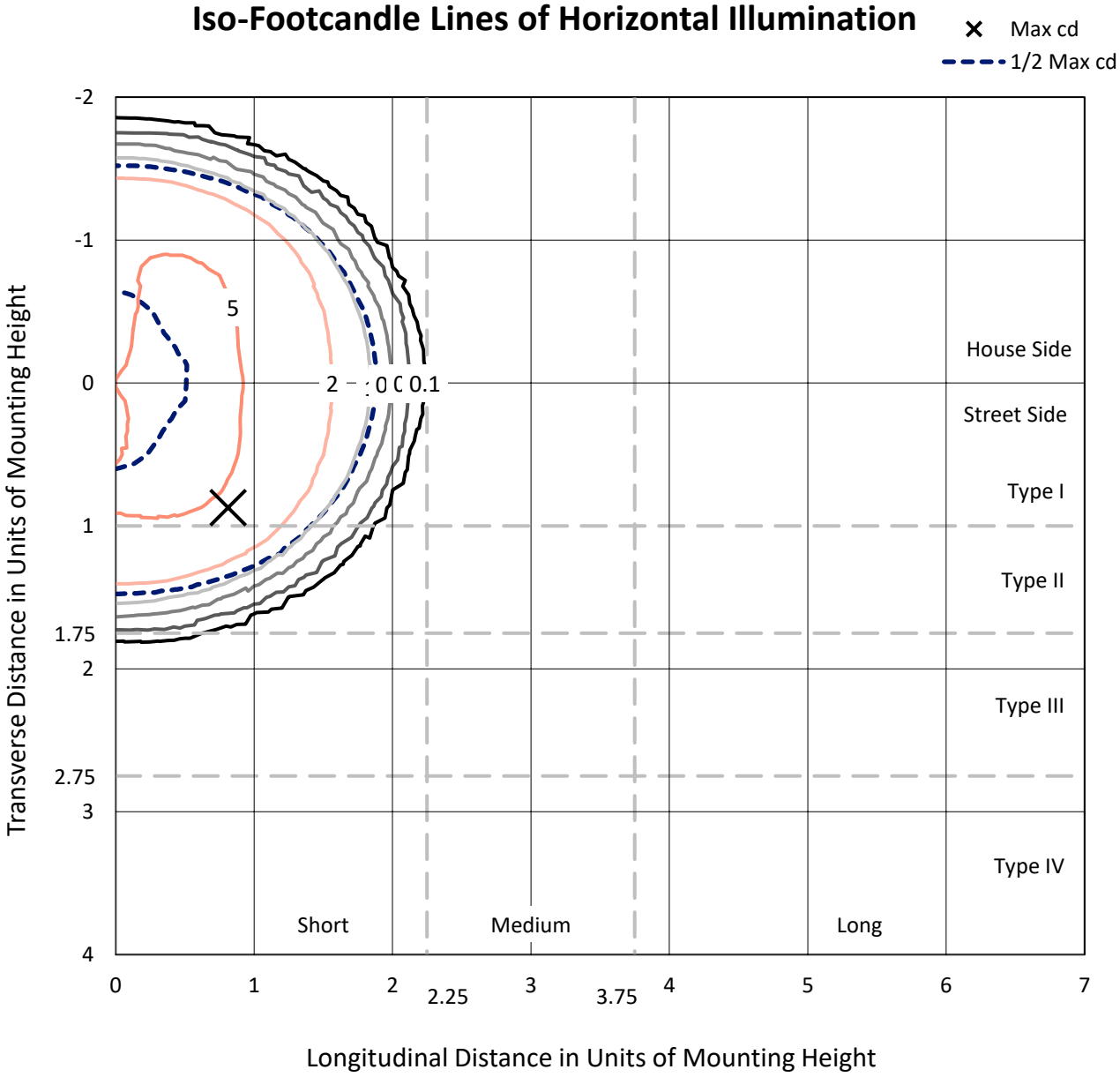
Scaled Data Report

REPORT NUMBER: P632031
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
Type V - Short - N/A

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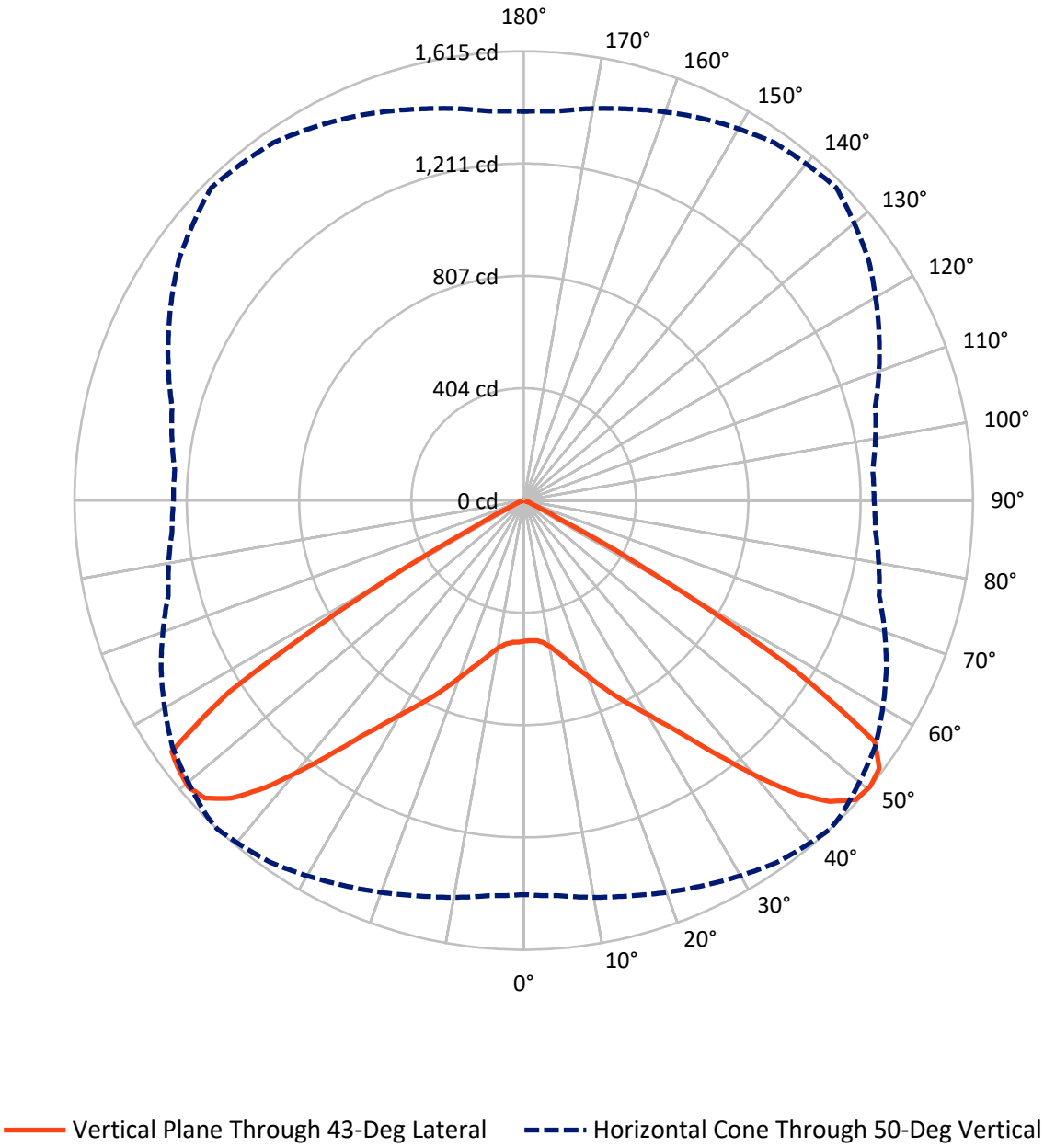
Luminous Intensity Polar Plot



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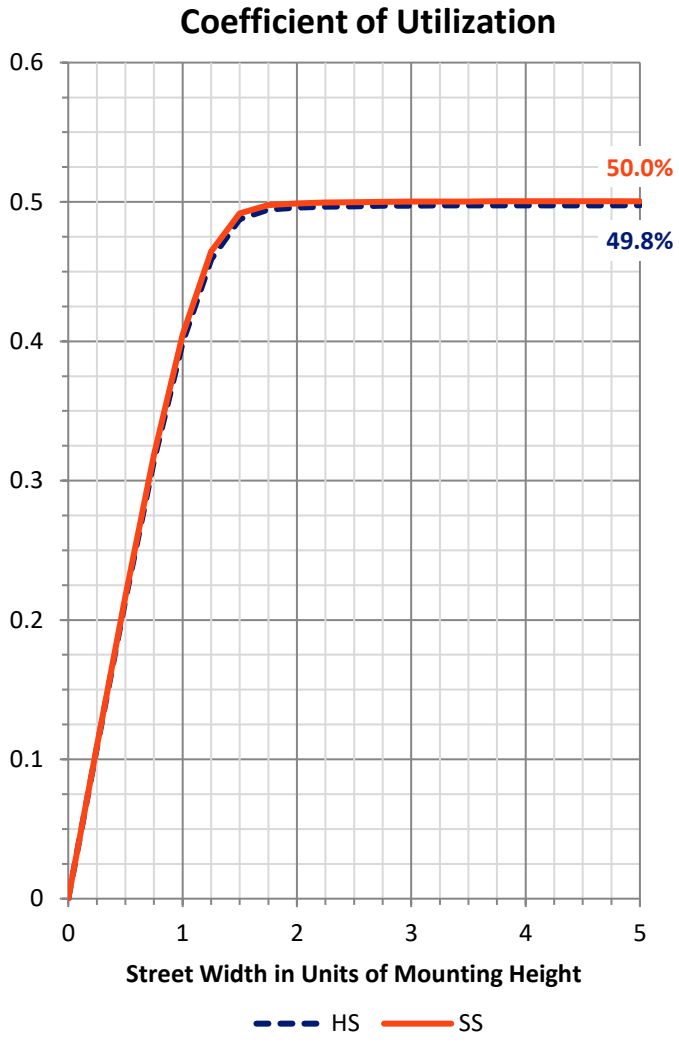
REPORT NUMBER: P632031
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.6	0.0	1776.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1776.6	0.0	1776.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3553.2	0.0	3553.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.4
10°-20°	171.3	4.8
20°-30°	346.5	9.8
30°-40°	642.9	18.1
40°-50°	1067.2	30.0
50°-60°	1089.1	30.7
60°-70°	178.6	5.0
70°-80°	7.8	0.2
80°-90°	0.1	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°	3553.2	100.0
0°-180°	3553.2	100.0



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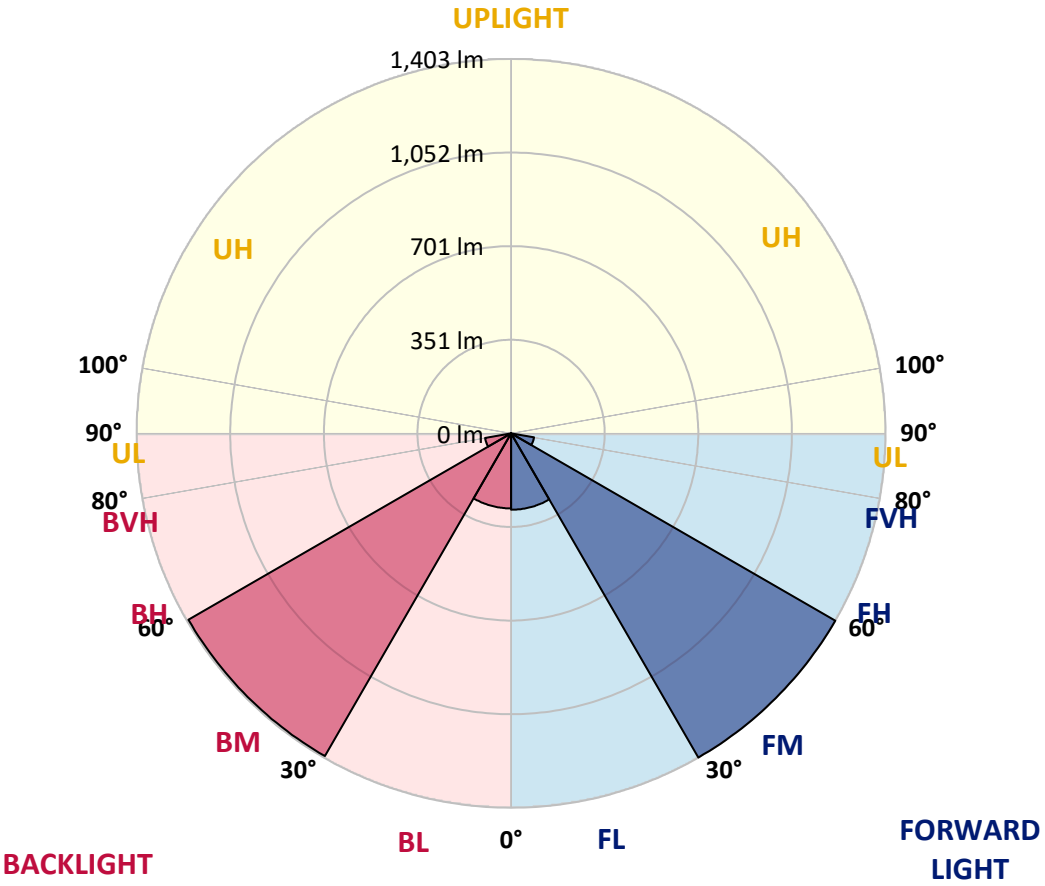
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	286.3	8.1			
FM	(30°-60°)	1403.0	39.5			
FH	(60°-80°)	87.4	2.5			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	281.3	7.9	B1/500		
BM	(30°-60°)	1396.2	39.3	B2/2500		
BH	(60°-80°)	99.1	2.8	B0/110		G0/660
BVH	(80°-90°)	0.1	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-G0
Type V Short



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Scaled Data Report

REPORT NUMBER: P632031
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	505.4	505.4	505.4	505.4	505.4	*505.4*	505.4	505.4	505.4	505.4	505.4
2.5°	496.0	497.1	498.7	500.3	502.2	*504.2*	505.4	508.9	508.1	511.3	511.3
5°	490.5	491.6	493.6	497.1	501.5	*505.8*	508.9	516.0	519.9	526.2	528.6
7.5°	493.2	494.8	497.1	502.6	509.3	*516.0*	519.5	530.9	538.8	550.6	557.3
10°	502.2	503.8	507.7	517.2	525.8	*535.3*	539.6	554.1	566.7	582.8	592.2
12.5°	512.5	514.4	522.3	536.4	551.4	*563.9*	569.8	585.9	598.9	617.0	631.9
15°	523.1	526.2	538.4	559.2	580.4	*597.3*	603.6	620.9	633.9	653.2	670.0
17.5°	547.8	551.4	565.1	587.5	616.6	*636.3*	641.8	659.8	669.7	682.6	700.3
20°	578.9	585.6	602.5	629.6	661.4	*680.3*	684.2	701.9	701.1	706.6	721.9
22.5°	617.4	622.1	640.6	672.8	708.6	*729.4*	738.4	745.9	736.1	731.4	741.2
25°	657.5	663.0	683.0	718.4	758.5	*782.4*	789.9	795.8	780.1	762.4	763.6
27.5°	709.3	713.3	732.9	770.7	810.7	*837.9*	844.5	854.8	833.9	805.6	797.8
30°	771.0	775.0	795.8	835.5	875.2	*898.4*	908.6	921.2	898.4	863.0	854.0
32.5°	843.4	847.3	874.0	914.9	947.5	*972.7*	982.5	995.8	977.8	938.1	927.9
35°	929.8	932.2	963.6	1008.0	1042.6	*1067.0*	1073.7	1089.4	1069.3	1029.6	1024.1
37.5°	1030.0	1032.8	1067.0	1118.5	1153.8	*1180.9*	1191.5	1195.9	1171.5	1127.1	1122.8
40°	1140.1	1149.1	1182.5	1237.9	1277.6	*1311.8*	1321.2	1306.7	1272.5	1212.0	1204.1
42.5°	1254.8	1262.7	1300.0	1360.1	1406.1	*1441.1*	1441.5	1410.1	1351.9	1268.2	1256.4
45°	1350.3	1353.5	1401.8	1462.3	1518.9	*1543.7*	1546.0	1489.0	1401.4	1300.8	1275.6
47.5°	1415.9	1421.1	1463.1	1521.3	1583.8	*1606.2*	1601.4	1530.3	1425.0	1322.0	1280.4
50°	*1416.7*	*1425.4*	*1471.0*	*1527.2*	*1587.7*	*1614.8*	*1608.1*	*1542.1*	*1438.3*	*1322.8*	*1269.0*
52.5°	1291.4	1305.5	1379.8	1461.1	1553.9	*1600.3*	1601.8	1557.4	1433.2	1310.2	1258.8
55°	974.2	989.6	1083.1	1221.8	1401.0	*1530.3*	1552.7	1539.3	1427.3	1315.7	1276.8
57.5°	515.6	503.8	555.7	693.2	918.4	*1147.1*	1212.8	1319.7	1361.7	1322.4	1310.2
60°	112.4	119.9	159.6	215.0	358.4	*539.6*	603.6	786.8	1004.5	1101.2	1171.1
62.5°	48.3	47.6	49.5	56.2	82.1	*136.8*	167.0	272.7	430.3	591.1	699.9
65°	39.7	40.1	41.7	41.7	38.9	*39.3*	41.3	62.5	100.6	141.1	189.4
67.5°	29.9	30.3	33.0	33.8	31.8	*28.3*	27.9	23.6	24.8	31.0	32.2
70°	18.9	18.9	20.4	21.2	21.2	*19.6*	19.3	16.9	16.5	18.9	21.2
72.5°	10.2	10.2	11.0	11.4	11.0	*10.6*	10.6	10.2	9.8	11.4	14.5
75°	4.3	4.3	4.7	4.7	4.3	*4.3*	4.3	4.3	4.3	5.1	7.9
77.5°	0.8	1.2	1.6	1.2	0.8	*0.8*	0.8	1.2	1.2	1.6	2.4
80°	0.4	0.4	0.8	0.4	0.0	*0.0*	0.0	0.0	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.4
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: P632031
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4
2.5°	514.0	509.7	511.3	512.1	510.9	510.1	505.8	504.6	502.6	499.5	498.7
5°	531.3	527.8	527.4	525.0	519.5	512.9	504.6	501.1	497.1	493.2	492.4
7.5°	560.4	556.1	553.3	545.5	532.9	522.3	508.5	501.1	496.0	490.8	489.7
10°	597.7	592.6	584.8	570.2	553.3	538.0	521.9	512.1	504.2	497.1	496.7
12.5°	637.4	631.9	617.8	599.3	578.9	564.7	544.3	530.5	518.7	508.1	507.0
15°	679.1	672.4	653.2	631.1	612.3	597.7	575.3	553.3	535.3	519.9	518.4
17.5°	710.9	702.7	679.9	663.4	648.0	633.1	608.0	578.9	554.9	536.4	532.1
20°	731.0	723.1	701.5	692.5	685.4	674.8	644.9	614.6	587.9	565.1	561.2
22.5°	750.2	740.8	721.9	721.9	727.4	723.1	690.9	656.3	624.9	598.5	592.6
25°	771.8	764.4	751.0	762.0	775.8	775.4	742.4	699.1	663.0	633.5	627.6
27.5°	803.3	795.8	791.1	811.9	829.2	828.0	791.9	745.1	707.0	677.9	672.4
30°	858.7	851.6	846.5	871.7	893.7	885.4	845.7	800.5	762.0	729.0	725.1
32.5°	932.6	925.1	918.4	943.6	963.2	952.6	914.9	872.4	828.0	795.8	787.9
35°	1029.6	1013.9	1007.2	1037.1	1045.4	1033.6	997.4	960.1	912.9	876.0	870.9
37.5°	1129.8	1111.4	1106.7	1132.6	1146.0	1141.6	1099.2	1060.3	1009.2	968.3	962.4
40°	1215.5	1198.6	1190.4	1230.8	1261.1	1263.9	1225.7	1178.2	1118.1	1075.6	1065.0
42.5°	1265.8	1251.3	1249.3	1312.2	1361.7	1397.1	1351.5	1302.4	1239.1	1191.2	1182.5
45°	1277.2	1267.8	1284.3	1366.8	1443.8	1508.3	1469.4	1417.5	1349.1	1298.4	1290.2
47.5°	1276.0	1272.9	1302.4	1395.1	1492.6	1572.0	1552.7	1494.2	1428.1	1375.1	1367.2
50°	*1259.1*	*1259.5*	*1308.7*	*1409.3*	*1512.2*	*1589.3*	*1570.0*	*1515.8*	*1456.8*	*1404.6*	*1398.3*
52.5°	1252.5	1250.1	1296.9	1404.9	1532.3	1581.4	1538.2	1477.3	1411.6	1347.2	1337.7
55°	1276.0	1270.1	1298.4	1401.4	1534.6	1577.1	1463.1	1331.1	1196.7	1120.4	1114.1
57.5°	1311.4	1305.1	1318.5	1375.5	1411.6	1311.4	1076.8	863.8	725.5	666.9	641.4
60°	1171.1	1166.8	1156.6	1087.8	933.0	703.8	479.4	305.7	219.7	177.6	177.6
62.5°	726.6	720.7	665.3	494.4	359.2	207.9	114.4	71.5	54.2	50.7	50.3
65°	204.0	202.8	167.8	118.7	75.5	46.8	41.3	42.1	41.3	40.1	39.7
67.5°	30.7	33.8	33.8	27.5	26.3	29.5	34.6	36.9	35.0	33.0	32.2
70°	19.6	21.2	20.4	17.7	18.9	22.0	24.8	25.2	24.0	22.0	21.6
72.5°	13.8	15.3	12.6	11.4	11.8	13.0	14.1	14.1	13.8	13.0	12.2
75°	8.3	8.3	5.9	5.5	5.5	5.9	5.9	6.7	6.7	6.3	5.9
77.5°	2.8	3.1	2.0	1.6	1.6	1.6	2.0	2.4	2.4	2.0	1.6
80°	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
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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Peachtree City, GA 30269

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

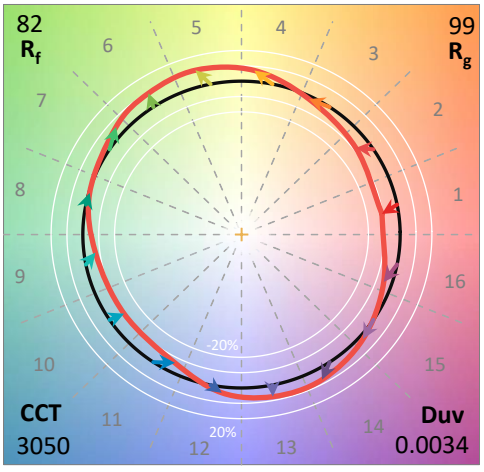
Test Information

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

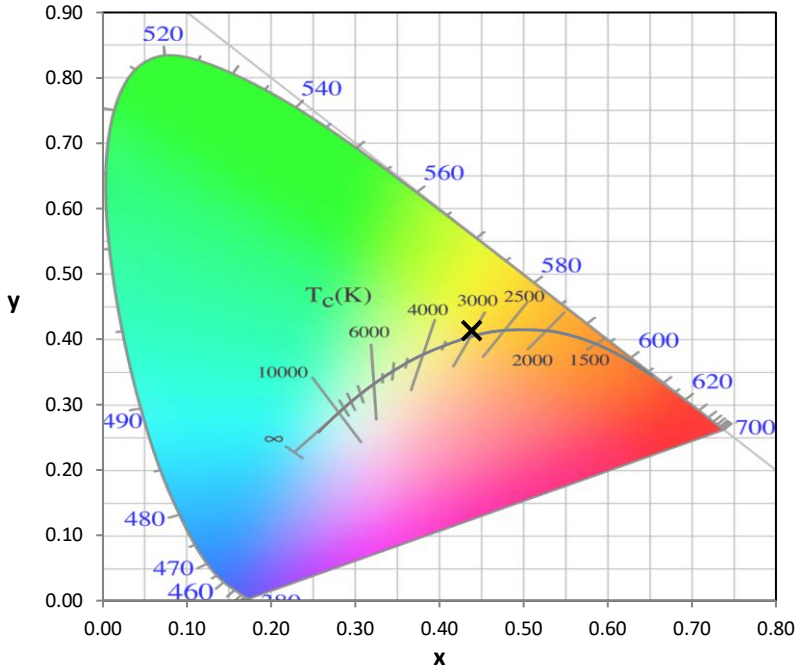
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

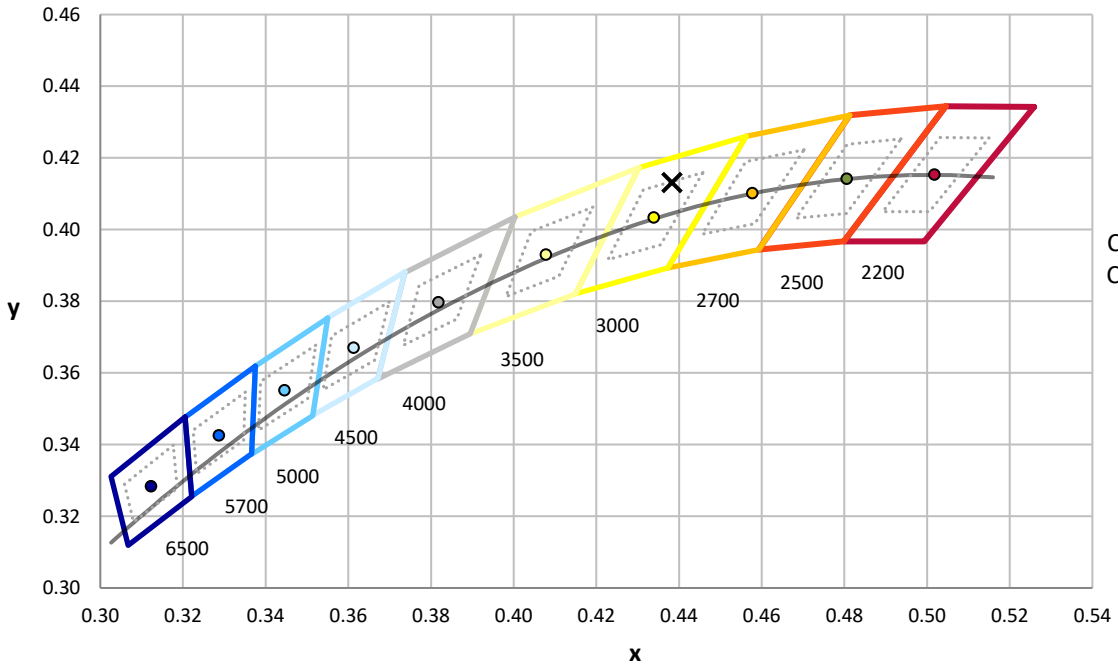
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

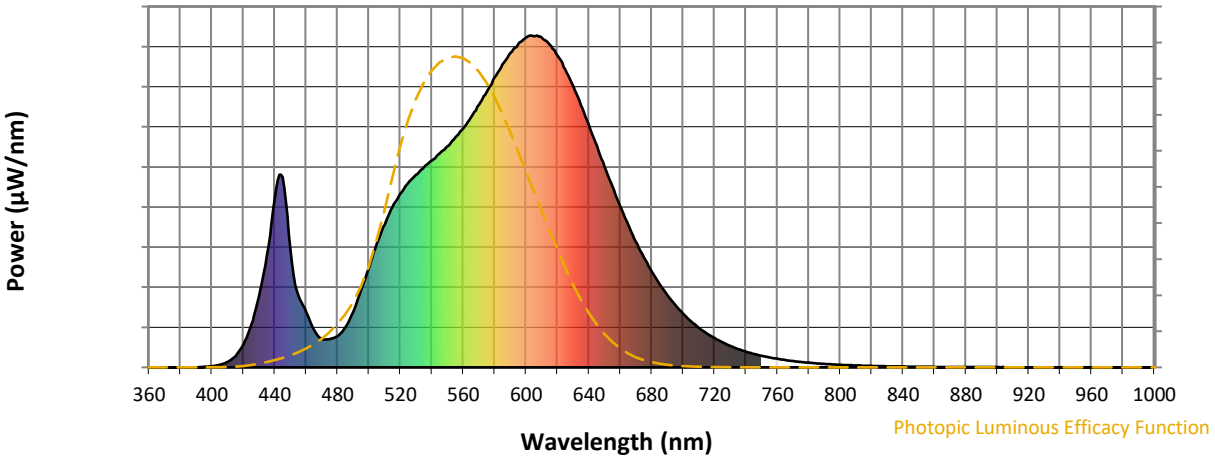


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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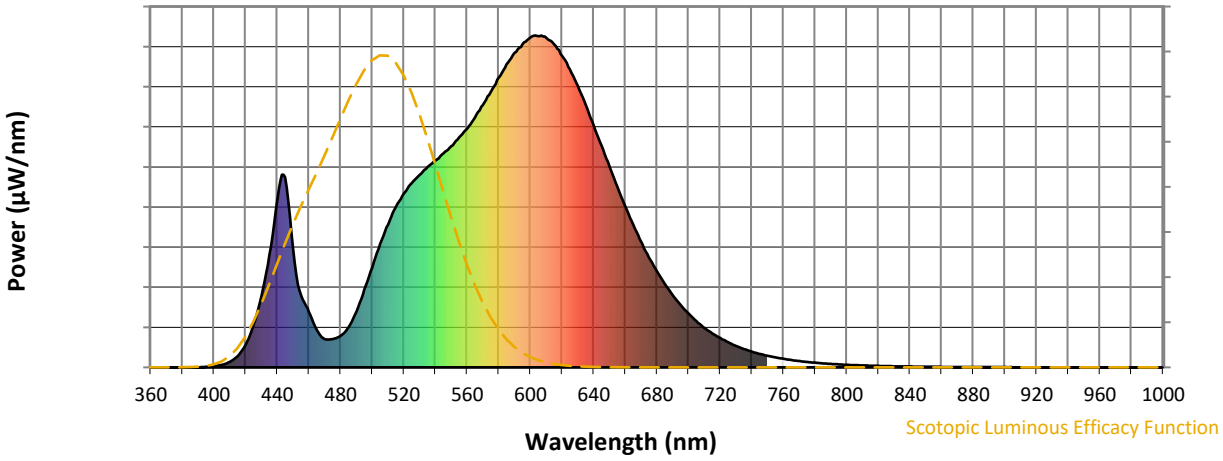
Scotopic Flux vs. Wavelength



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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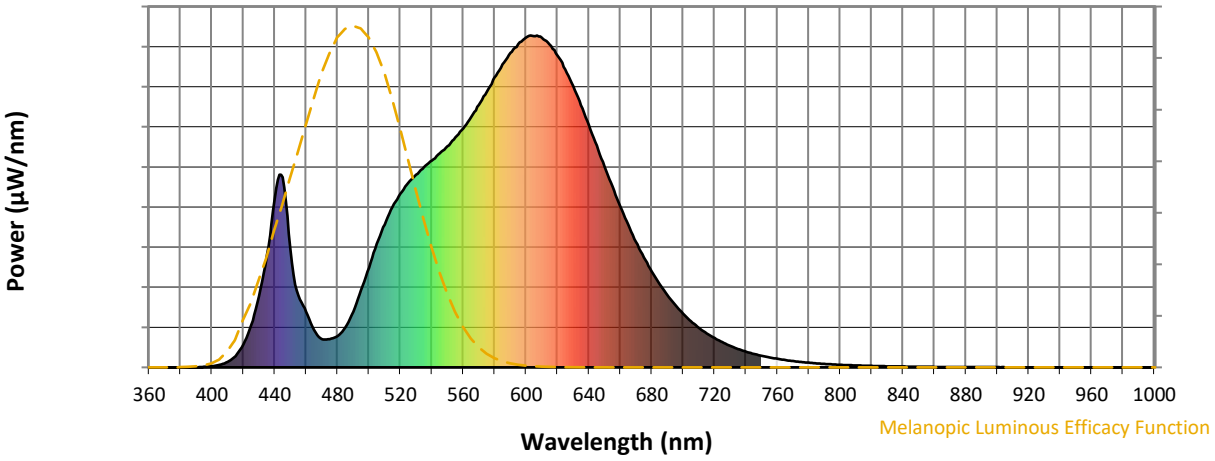
Melanopic Flux vs. Wavelength



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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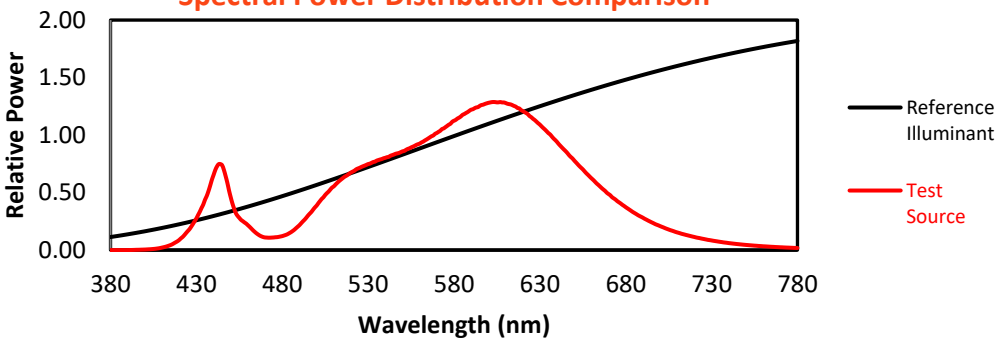
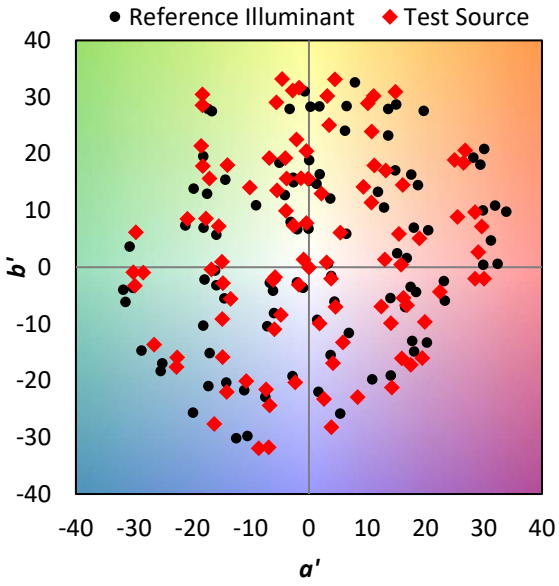
Summary

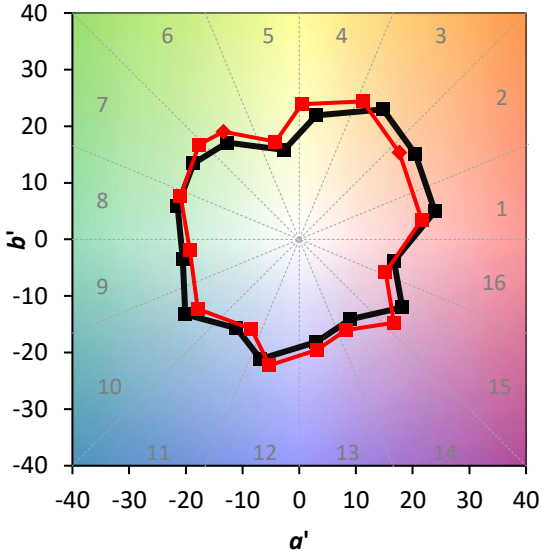
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

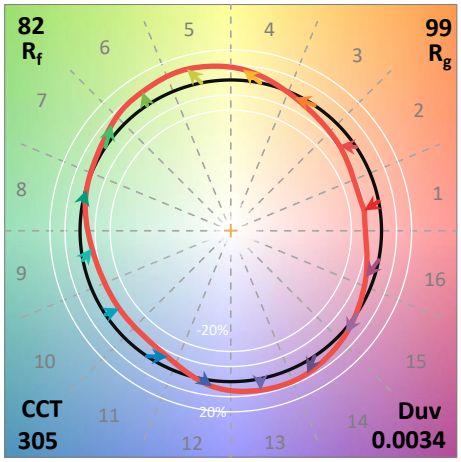
Spectral Power Distribution Comparison

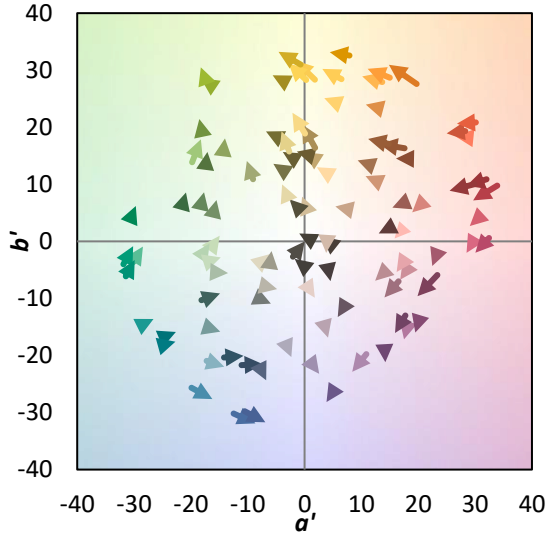


Color Vector Graphics









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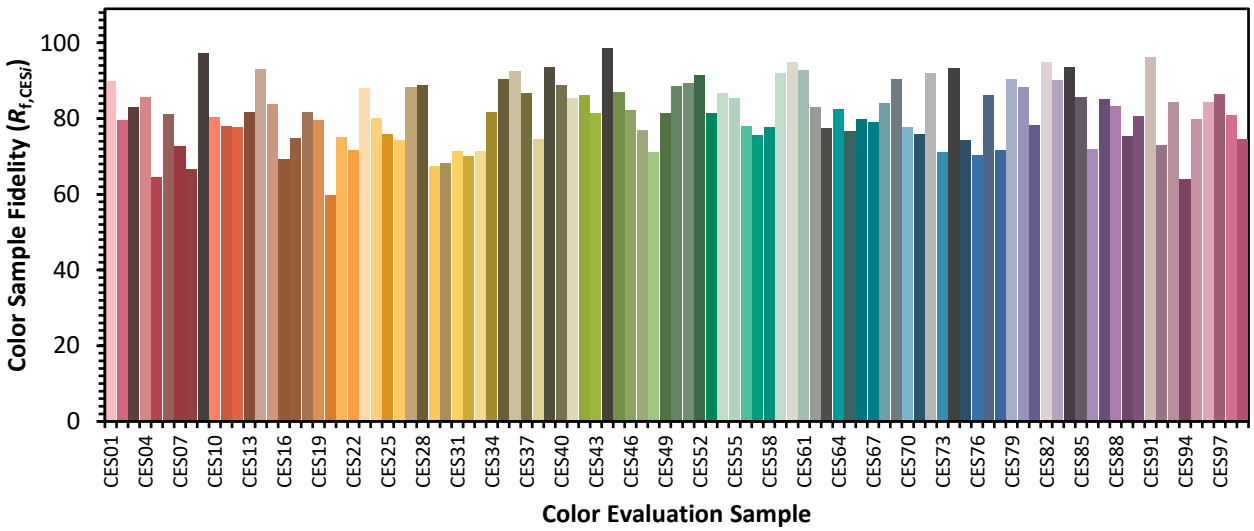
Individual Sample Fidelity Index ($R_{f,i}$)

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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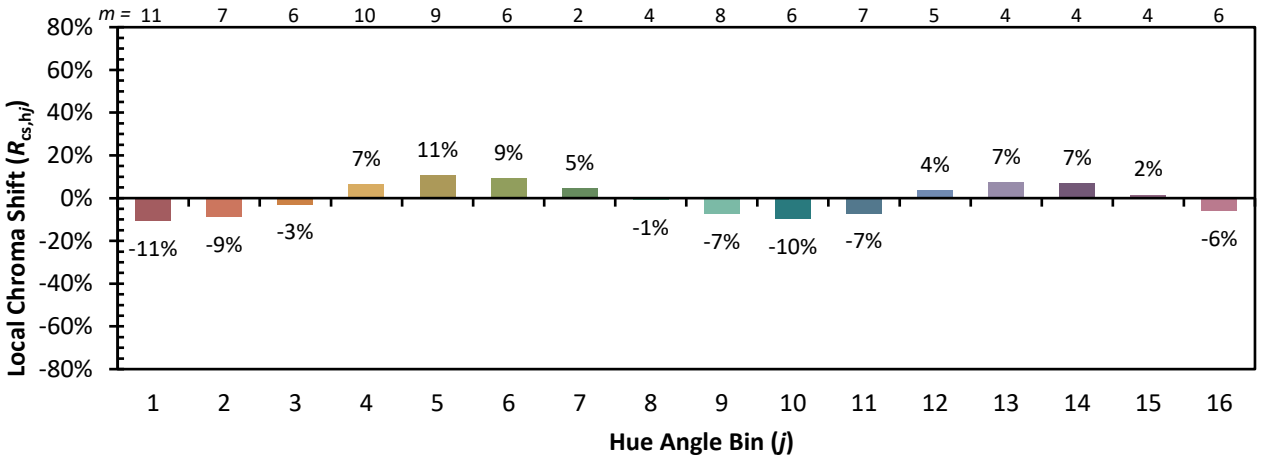
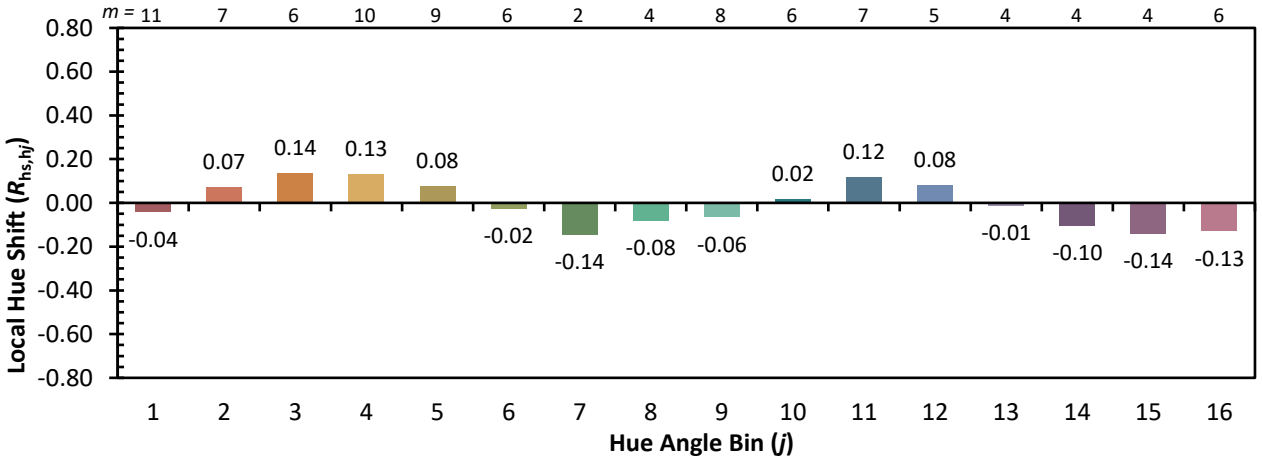
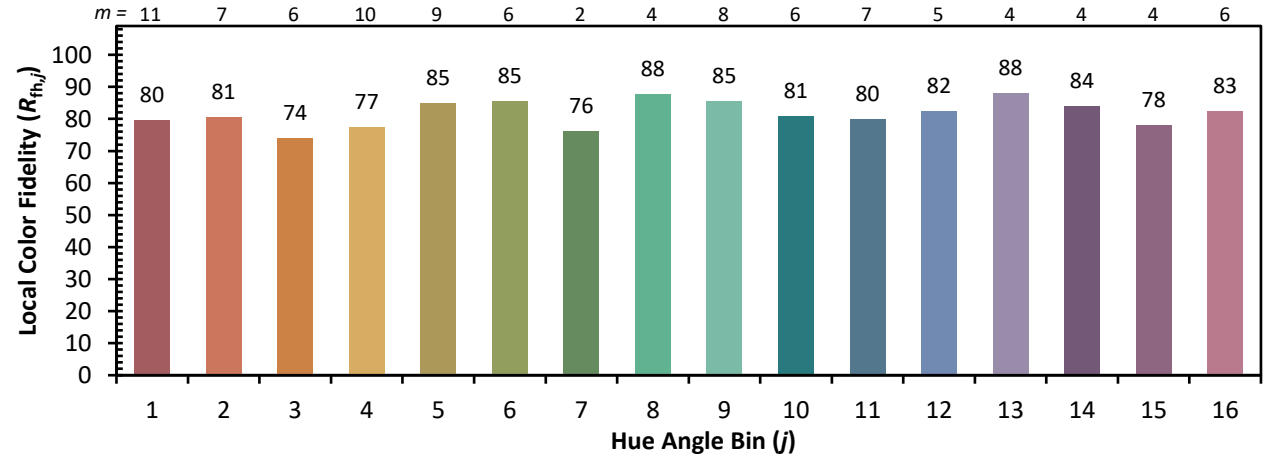
Color Rendition by Hue-Angle Bin







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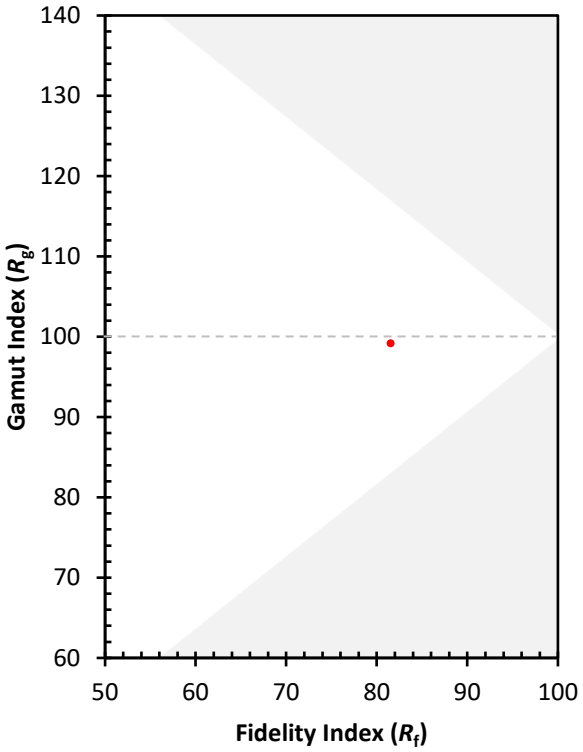
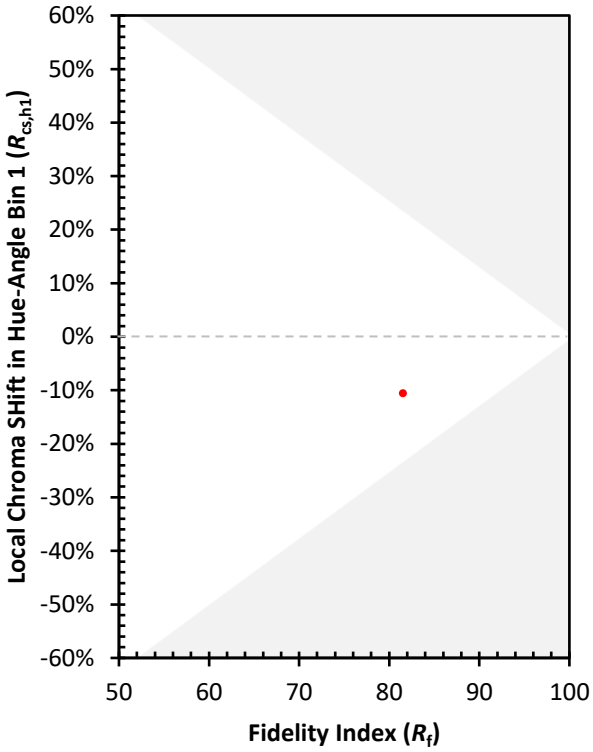
Measure Comparisons





(END OF REPORT)