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: P629585

Luminaire Tested: GWS-SA1B-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:	P629585
	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-SA1B-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2505.7 lumens
Efficiency:	N/A
Efficacy:	100.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	25
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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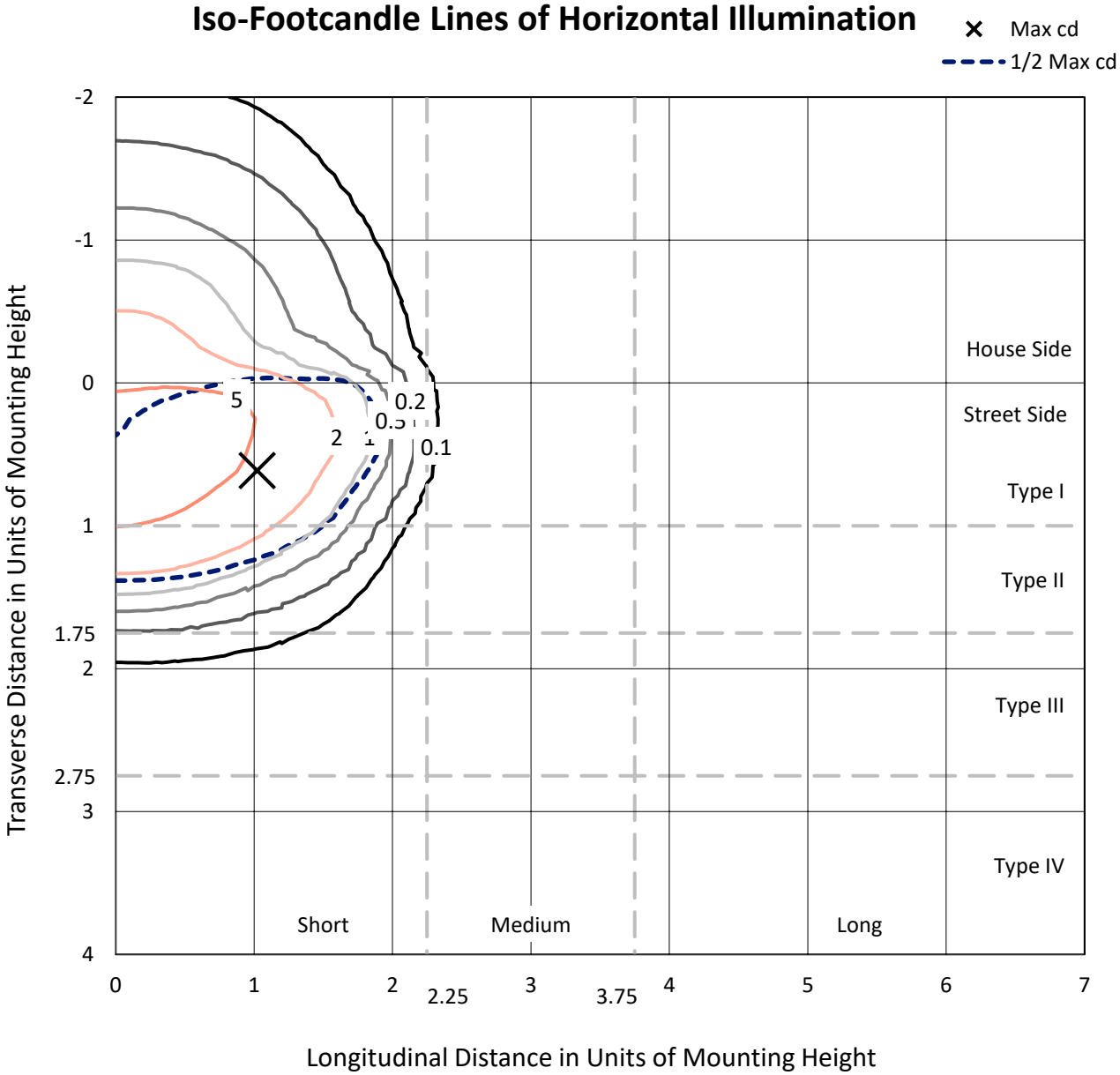
Scaled Data Report

REPORT NUMBER: P629585
CATALOG NUMBER: GWS-SA1B-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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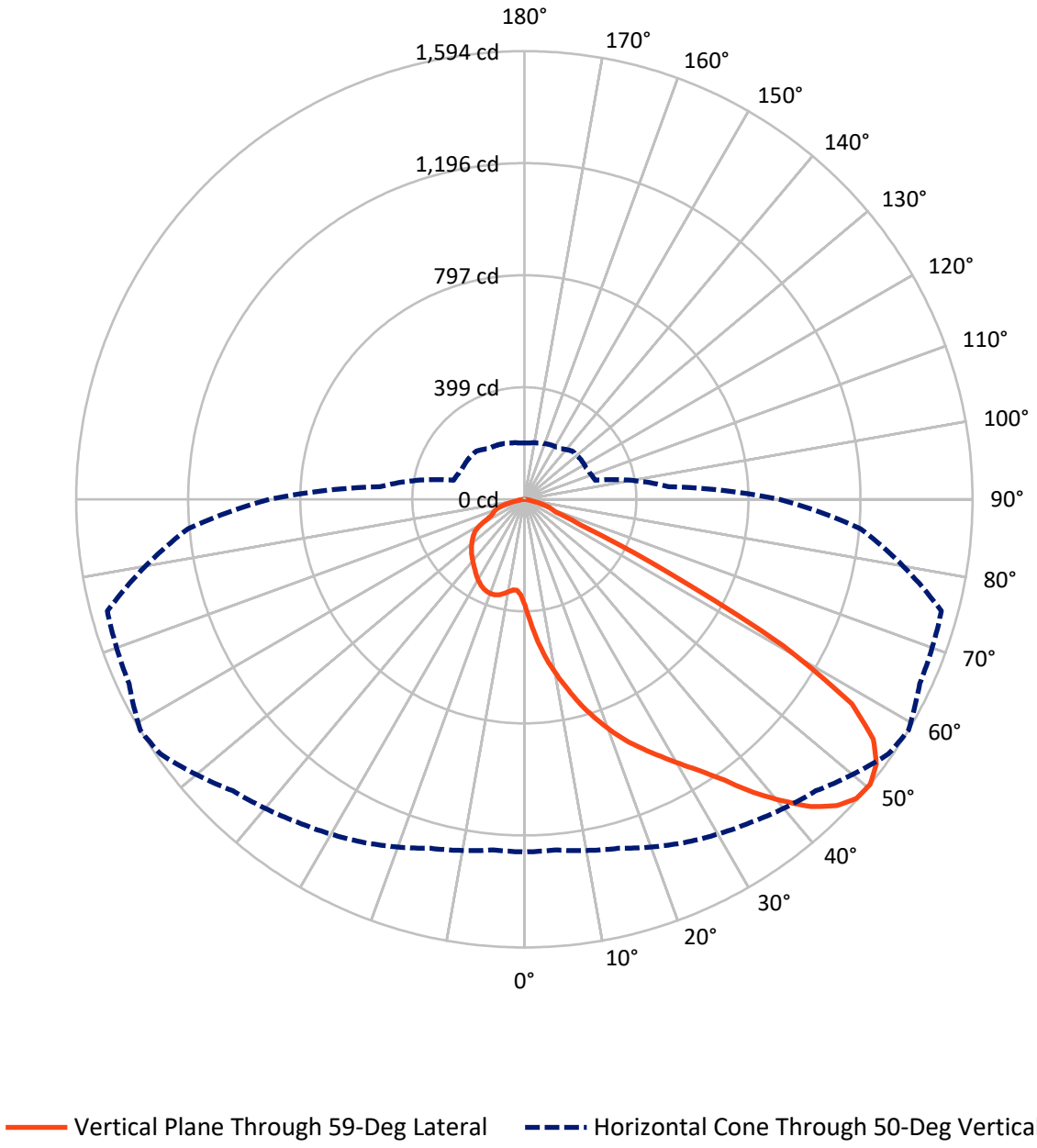
Luminous Intensity Polar Plot



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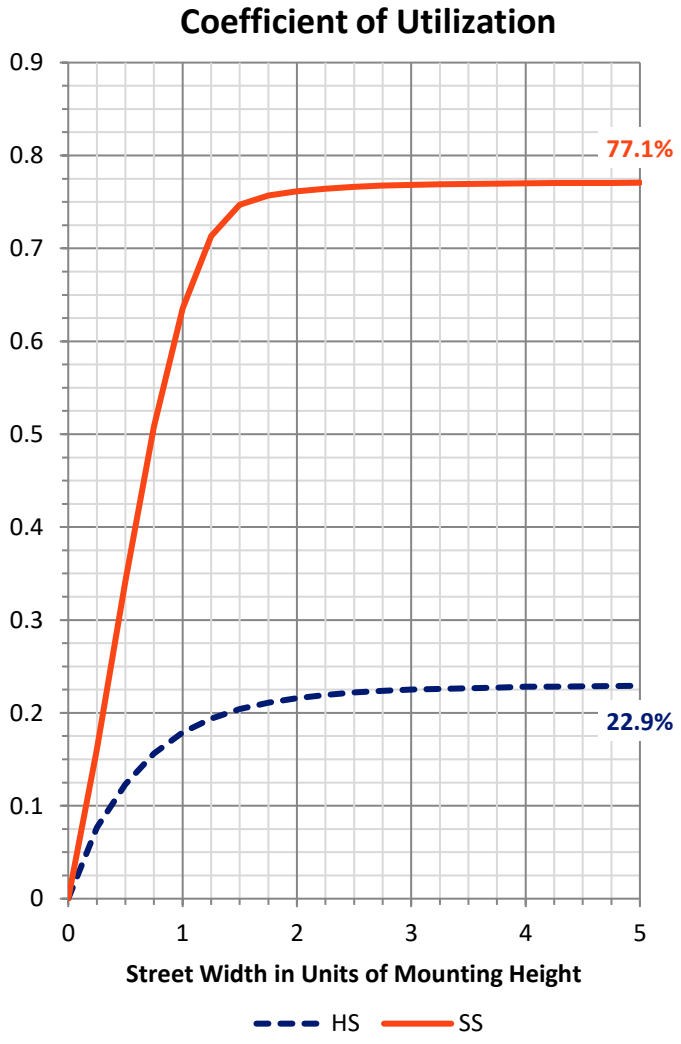
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.4	0.0	576.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1929.3	0.0	1929.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	2505.7	0.0	2505.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.7
10°-20°	154.6	6.2
20°-30°	292.8	11.7
30°-40°	485.5	19.4
40°-50°	663.2	26.5
50°-60°	602.0	24.0
60°-70°	200.5	8.0
70°-80°	58.5	2.3
80°-90°	6.1	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°	2505.7	100.0
0°-180°	2505.7	100.0



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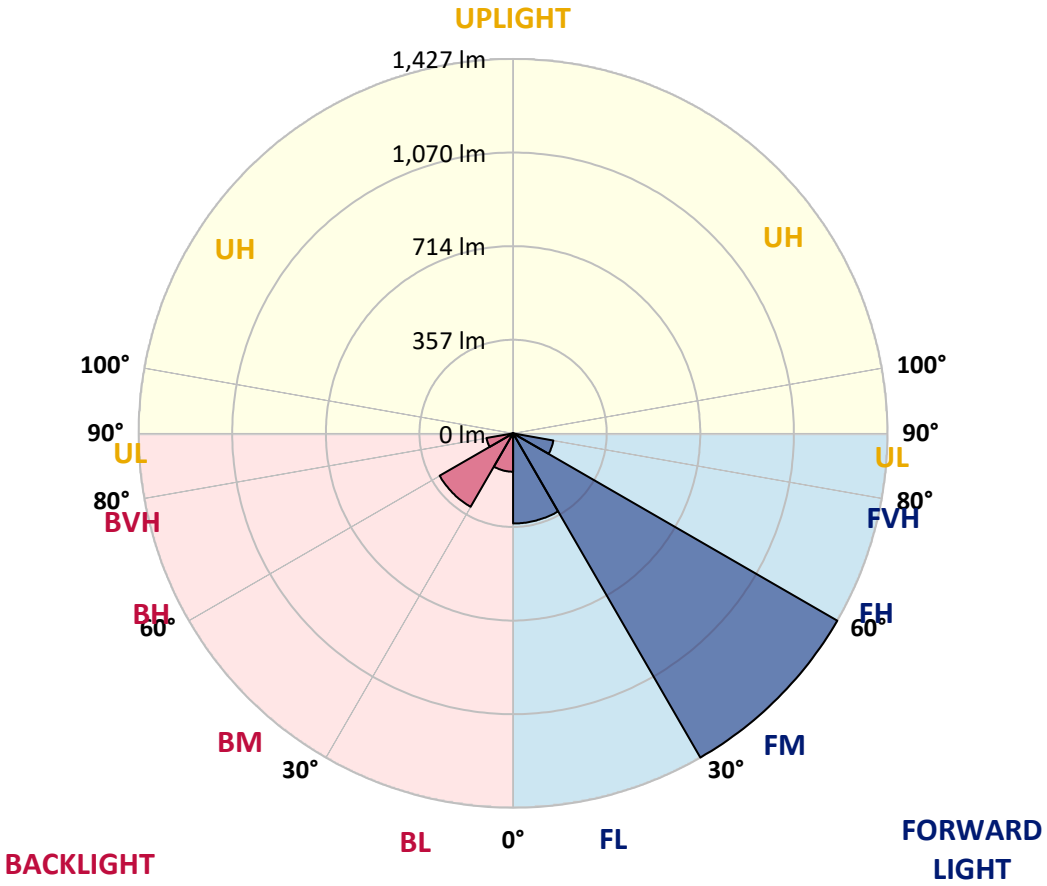
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	343.6	13.7			
FM	(30°-60°)	1427.3	57.0			
FH	(60°-80°)	156.1	6.2			G0/660
FVH	(80°-90°)	2.4	0.1			G0/10
BL	(0°-30°)	146.4	5.8	B1/500		
BM	(30°-60°)	323.4	12.9	B1/1000		
BH	(60°-80°)	102.9	4.1	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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REPORT NUMBER: P629585
CATALOG NUMBER: GWS-SA1B-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	*379.6*	379.6	379.6	379.6
2.5°	491.9	495.6	489.8	490.3	476.0	469.4	451.1	*440.2*	433.1	413.1	394.9
5°	591.1	586.8	582.3	579.7	567.2	549.6	526.8	*508.6*	491.9	452.7	414.9
7.5°	651.9	649.7	646.6	645.0	632.7	614.3	591.5	*576.0*	551.7	498.6	439.2
10°	703.5	700.9	699.1	700.3	690.3	678.4	653.5	*635.8*	608.4	547.2	468.6
12.5°	743.5	745.0	745.6	752.1	747.8	740.7	715.0	*696.2*	665.8	598.4	503.1
15°	775.2	774.8	781.9	794.4	801.3	796.8	776.2	*760.5*	723.3	648.8	540.3
17.5°	782.5	782.9	794.2	816.0	838.7	849.7	838.0	*819.3*	782.5	698.6	578.8
20°	788.4	789.3	800.9	825.8	858.9	889.7	891.5	*878.1*	846.4	752.5	618.0
22.5°	825.8	827.6	830.7	846.4	876.2	915.2	936.6	*933.8*	907.2	809.1	660.3
25°	924.0	918.5	903.6	899.1	910.5	942.1	978.7	*984.2*	971.1	871.3	705.8
27.5°	1045.2	1039.3	1017.2	994.0	969.3	980.3	1019.3	*1035.8*	1036.0	939.9	751.5
30°	1155.2	1150.5	1132.6	1099.3	1056.6	1040.7	1069.5	*1091.7*	1105.0	1019.1	803.6
32.5°	1249.3	1245.0	1220.7	1193.6	1152.0	1119.9	1130.3	*1151.8*	1182.8	1121.5	868.3
35°	1328.5	1324.2	1301.0	1273.6	1235.0	1215.8	1212.2	*1226.9*	1267.1	1228.5	942.5
37.5°	1392.8	1388.5	1364.2	1338.5	1309.1	1310.3	1315.9	*1323.0*	1346.1	1343.0	1021.9
40°	1434.4	1429.9	1412.6	1394.2	1375.7	1390.3	1417.7	*1409.1*	1421.4	1435.5	1095.0
42.5°	1453.0	1447.3	1437.3	1433.2	1427.5	1450.4	1503.0	*1494.4*	1479.7	1497.1	1149.3
45°	1434.4	1429.5	1429.3	1441.8	1455.0	1484.4	1562.0	*1555.1*	1517.9	1526.9	1181.8
47.5°	1377.5	1373.2	1384.8	1417.5	1450.2	1493.0	1588.3	*1589.6*	1545.1	1539.3	1202.8
50°	*1254.4*	*1251.6*	*1285.2*	*1347.1*	*1403.4*	*1466.3*	*1580.0*	*1594.0*	*1551.6*	*1535.5*	*1200.1*
52.5°	1004.2	1017.5	1090.7	1194.0	1303.4	1419.3	1548.9	*1567.3*	1520.2	1510.0	1185.8
55°	687.4	693.5	766.8	917.6	1091.1	1317.7	1477.7	*1506.1*	1483.0	1505.7	1200.7
57.5°	356.0	360.9	418.6	552.5	740.1	1041.3	1279.9	*1373.0*	1408.1	1527.3	1247.1
60°	146.1	150.2	174.1	238.8	373.3	606.4	921.1	*1059.1*	1141.5	1394.8	1107.5
62.5°	106.1	108.2	119.6	142.5	195.5	297.2	521.3	*572.1*	630.1	874.2	703.1
65°	89.4	91.6	100.8	114.7	142.7	182.3	222.7	*223.9*	246.8	356.2	260.6
67.5°	74.9	76.9	85.1	96.9	115.3	129.4	119.6	*119.8*	119.4	129.2	124.9
70°	58.4	60.0	68.2	80.8	90.4	83.1	93.5	*103.5*	99.2	103.1	109.0
72.5°	42.7	44.5	51.6	61.2	58.8	59.2	75.7	*85.9*	83.5	87.8	93.3
75°	30.8	32.0	35.7	30.6	32.2	39.0	53.3	*58.8*	61.2	64.9	69.8
77.5°	10.0	10.0	11.2	14.1	17.6	21.6	27.1	*29.4*	33.1	37.1	40.6
80°	5.1	5.3	6.3	7.8	9.8	12.5	15.9	*16.9*	18.8	21.0	22.5
82.5°	2.4	2.7	3.1	3.9	5.1	6.5	8.8	*9.8*	11.0	12.5	13.5
85°	0.6	0.6	0.8	1.2	1.6	2.4	3.3	*3.9*	4.9	5.9	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.6	*0.8*	1.0	1.2	1.6
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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Scaled Data Report

REPORT NUMBER: P629585
CATALOG NUMBER: GWS-SA1B-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	386.8	375.3	360.6	348.2	336.8	328.0	320.4	316.8	313.3	310.8	311.7
5°	397.4	377.8	350.4	331.5	319.8	313.9	309.8	307.8	307.4	305.7	305.1
7.5°	412.9	384.9	348.4	329.2	321.5	318.4	316.2	314.9	315.5	313.9	313.3
10°	432.1	396.8	353.5	336.6	329.8	327.6	325.1	323.5	322.7	320.2	319.8
12.5°	456.0	411.5	362.7	346.0	339.2	335.3	332.1	329.2	327.4	324.3	323.5
15°	481.7	427.8	373.5	355.1	347.2	341.5	336.2	331.9	328.6	324.5	323.9
17.5°	509.6	444.9	382.5	361.5	351.3	343.7	336.0	329.6	325.1	319.8	319.2
20°	538.8	462.3	389.2	364.5	351.5	341.3	330.9	322.5	316.8	311.5	311.1
22.5°	569.0	478.2	393.3	363.7	348.2	335.5	323.1	313.7	307.0	300.6	300.2
25°	599.5	493.5	394.3	360.4	341.7	327.0	314.5	303.5	295.9	288.8	288.0
27.5°	630.3	506.4	391.9	353.9	332.9	317.0	304.5	293.7	285.9	278.8	277.6
30°	663.1	517.4	386.6	345.3	322.7	306.4	294.1	285.9	278.6	271.5	270.2
32.5°	698.2	527.0	379.0	334.9	310.8	295.7	286.8	279.4	272.1	265.7	264.5
35°	740.1	533.3	367.8	321.5	299.8	288.0	281.9	273.3	264.3	257.4	256.8
37.5°	783.3	538.2	354.3	308.6	290.2	283.5	278.4	266.8	255.5	247.2	246.1
40°	825.2	542.3	337.6	296.6	281.5	280.2	273.3	258.8	239.4	230.0	229.2
42.5°	864.2	543.5	320.0	283.7	273.5	272.9	265.1	242.7	227.8	221.9	221.0
45°	890.9	542.5	301.9	271.7	265.5	262.3	254.1	231.0	221.9	216.6	215.5
47.5°	910.7	537.2	281.5	259.0	256.6	252.1	234.5	223.7	215.1	209.8	208.8
50°	*907.2*	*515.2*	*260.8*	*246.8*	*245.7*	*241.9*	*220.2*	*214.5*	*207.0*	*201.2*	*200.4*
52.5°	889.3	473.3	239.8	233.3	235.3	227.8	210.0	203.5	197.0	190.4	189.0
55°	893.8	443.1	223.9	220.2	223.9	206.8	198.6	191.7	185.5	179.2	178.0
57.5°	913.4	413.3	207.0	206.1	210.0	190.6	183.9	175.1	166.3	161.2	161.2
60°	767.0	301.3	177.2	179.2	188.0	177.6	171.7	162.7	153.1	148.6	148.6
62.5°	453.5	189.0	147.0	144.7	150.2	156.8	160.0	152.7	141.2	135.3	135.5
65°	199.8	137.6	129.6	127.8	126.1	130.6	139.6	140.2	128.2	121.2	121.4
67.5°	123.1	124.5	121.2	119.8	118.4	117.6	116.7	117.2	113.9	107.6	107.4
70°	111.0	114.9	112.7	111.4	109.6	108.2	103.3	95.3	89.8	88.2	90.0
72.5°	95.5	100.8	99.6	99.0	96.7	93.3	86.7	79.0	72.5	68.4	69.2
75°	72.0	76.3	76.9	77.2	74.7	71.4	64.7	58.2	52.5	48.2	49.2
77.5°	41.4	43.9	44.5	45.1	43.3	42.0	37.6	32.9	29.8	25.3	26.5
80°	23.1	24.1	24.1	24.3	23.3	21.8	18.8	16.1	14.7	12.7	12.9
82.5°	13.9	14.3	14.5	14.7	14.1	12.7	10.4	8.6	7.8	6.7	6.5
85°	6.7	7.1	7.1	7.3	6.3	5.5	4.3	3.3	2.9	2.0	2.2
87.5°	1.6	1.8	1.8	1.6	1.4	1.0	0.6	0.2	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

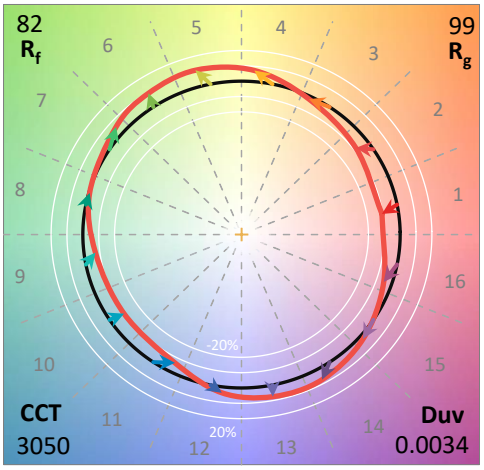
Test Information

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

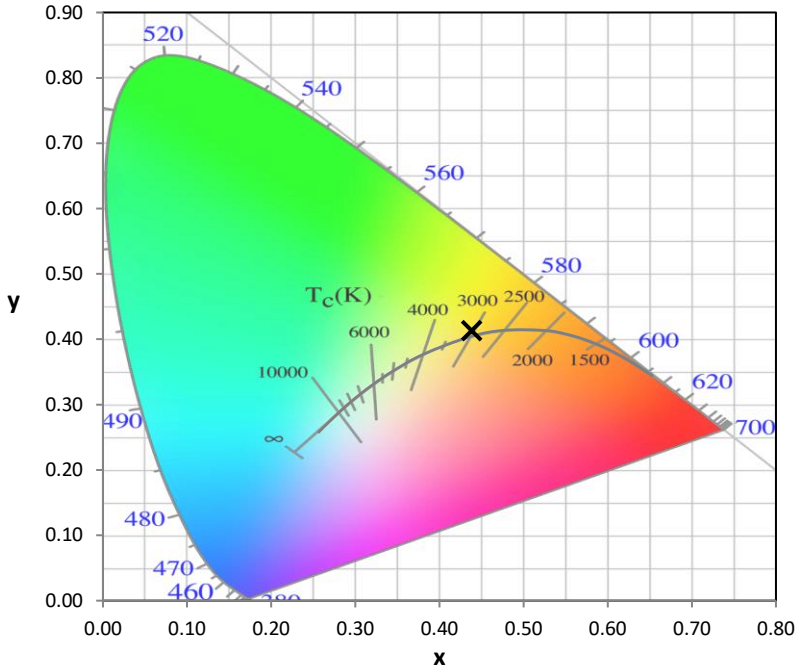
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

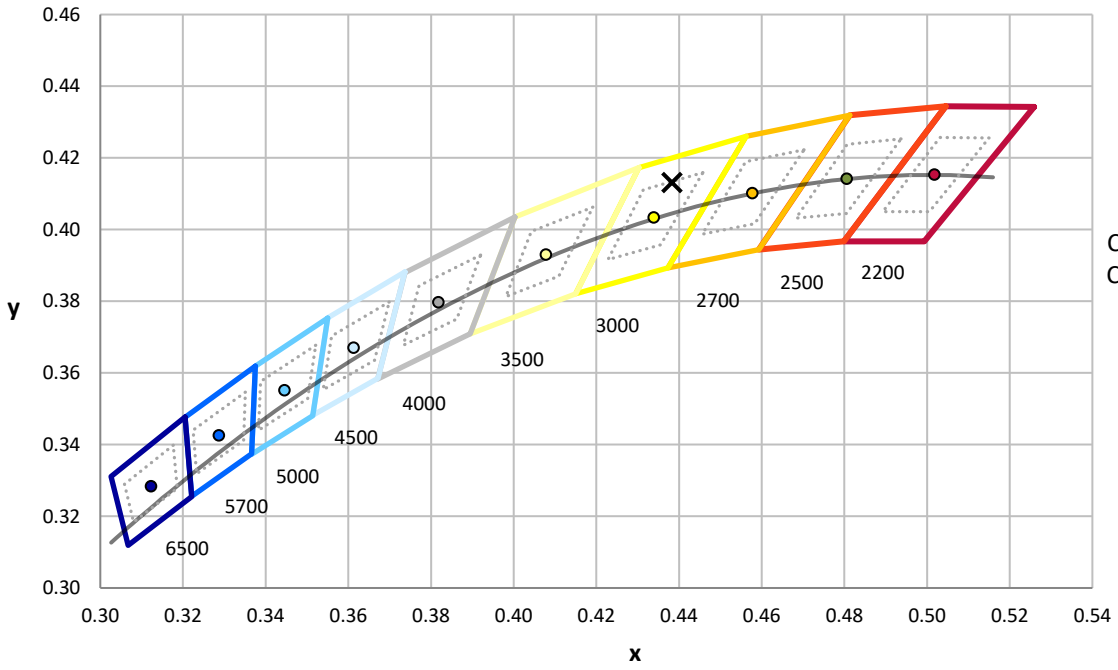
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

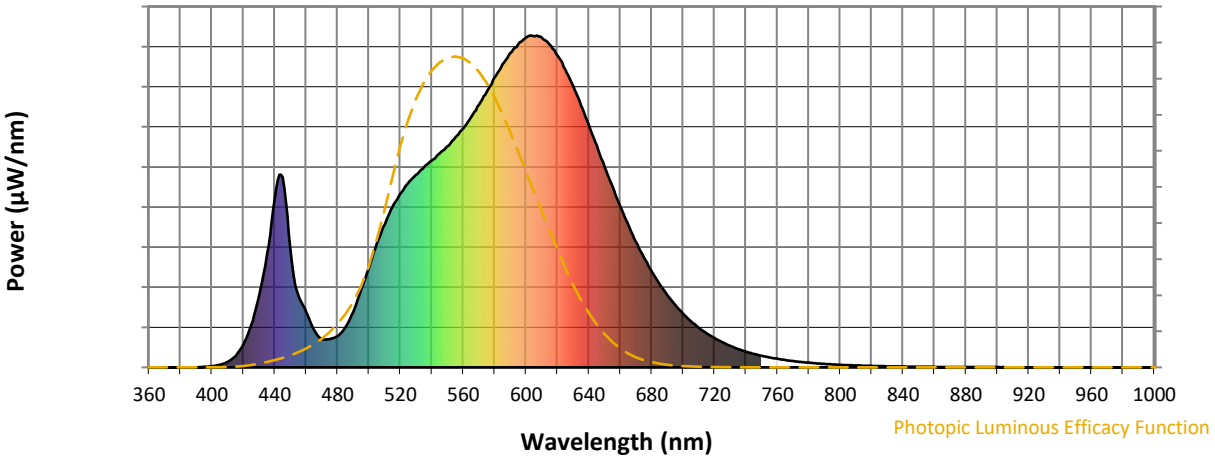


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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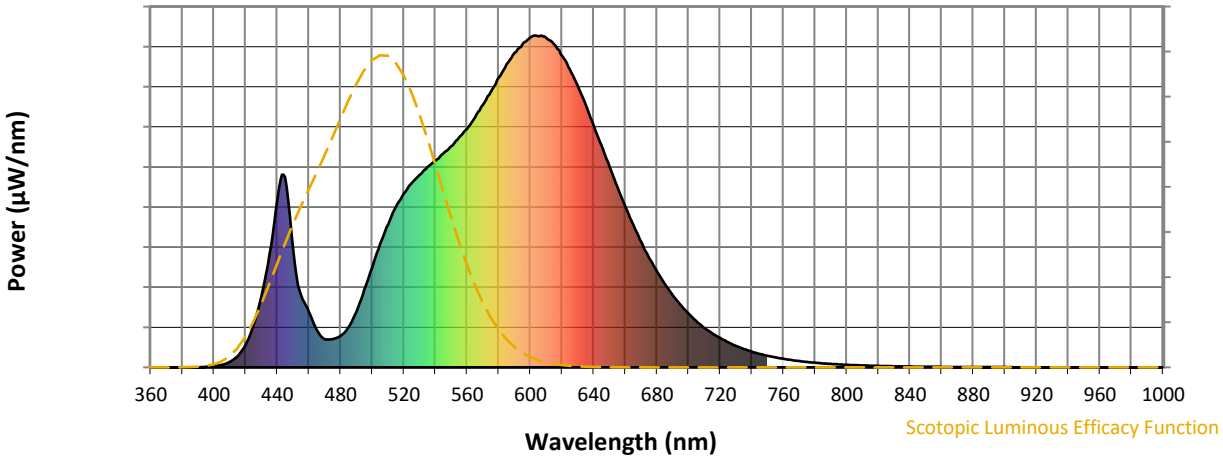
Scotopic Flux vs. Wavelength



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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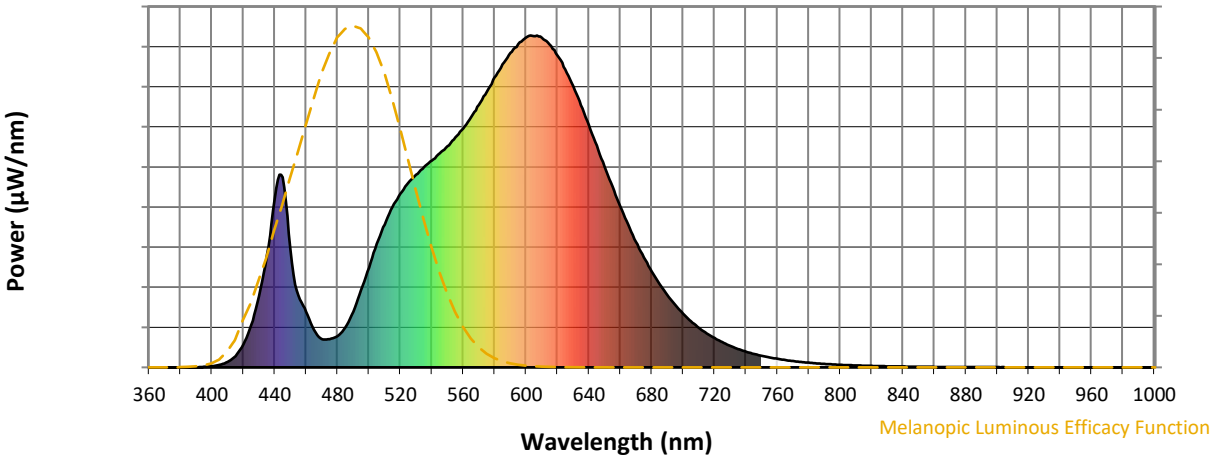
Melanopic Flux vs. Wavelength



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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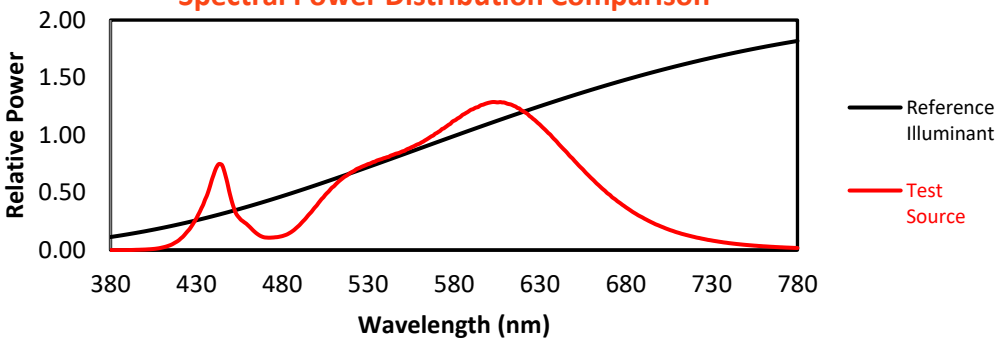
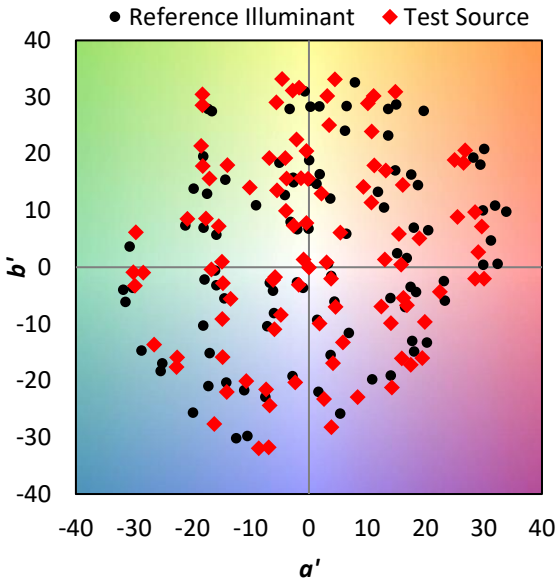
Summary

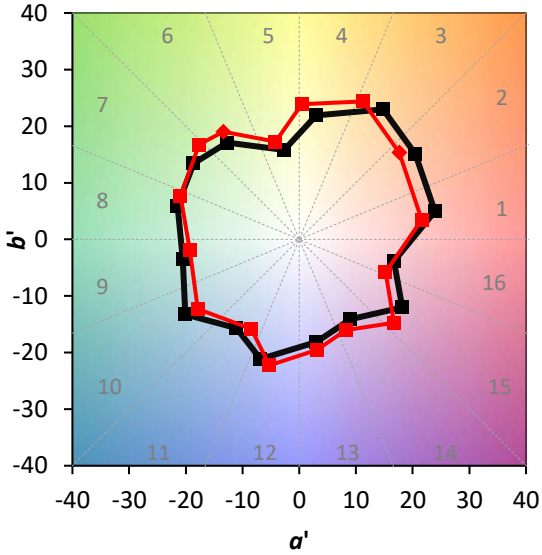
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

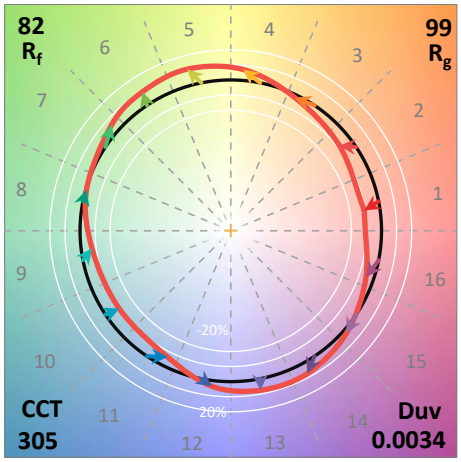
Spectral Power Distribution Comparison

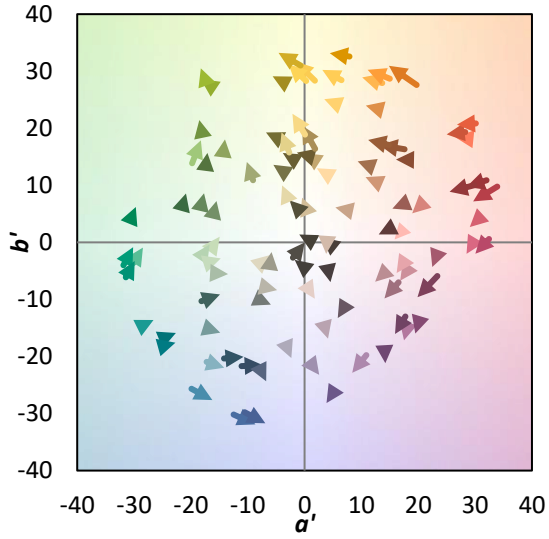


Color Vector Graphics









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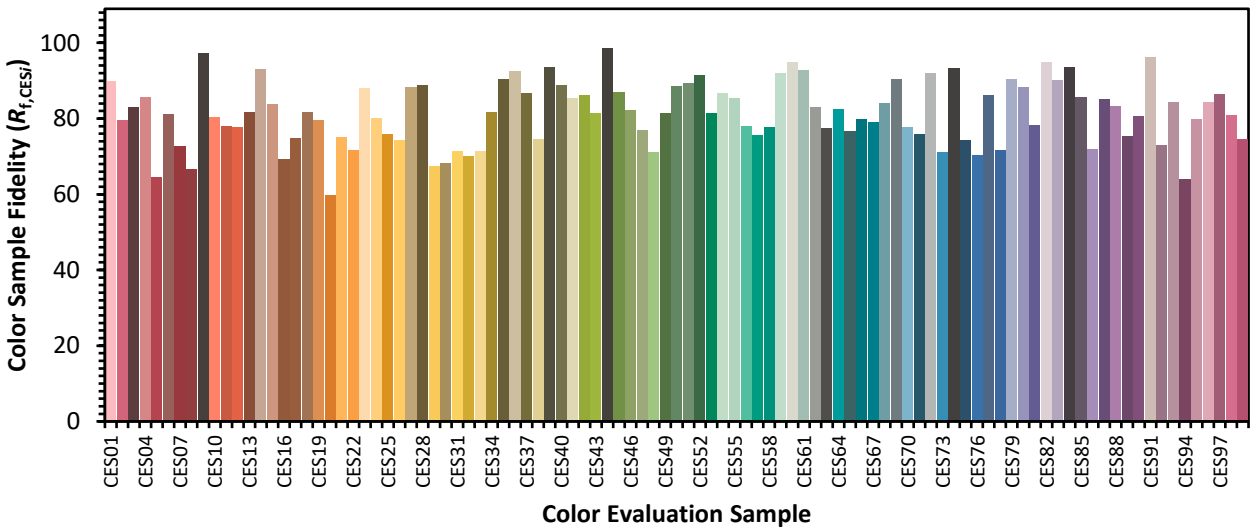
Individual Sample Fidelity Index ($R_{f,i}$)

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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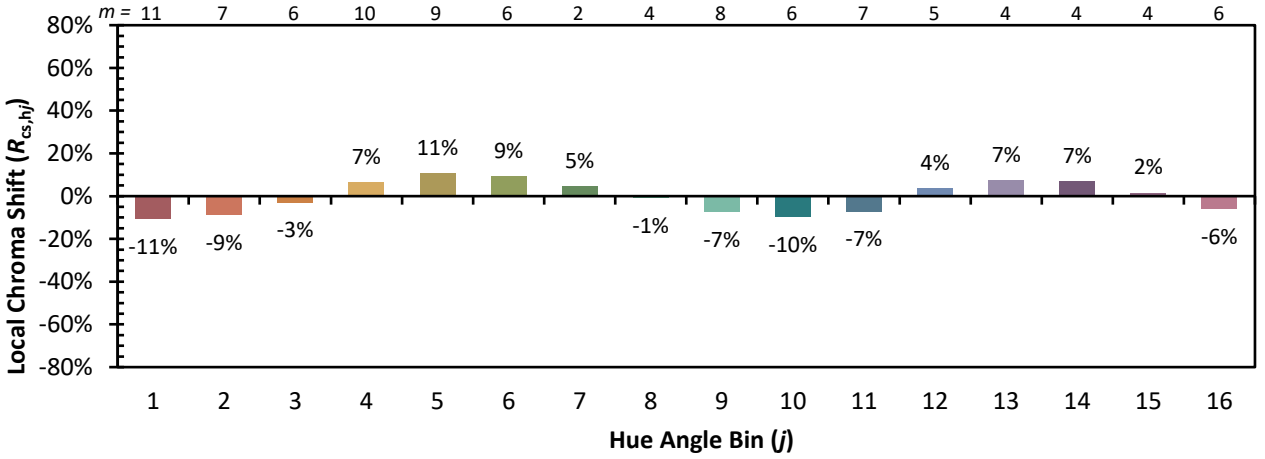
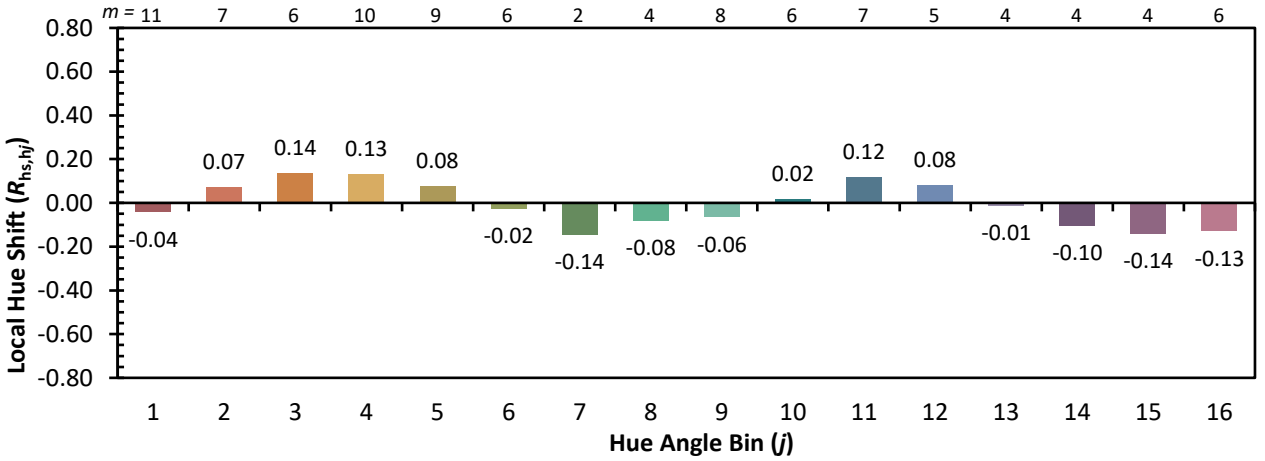
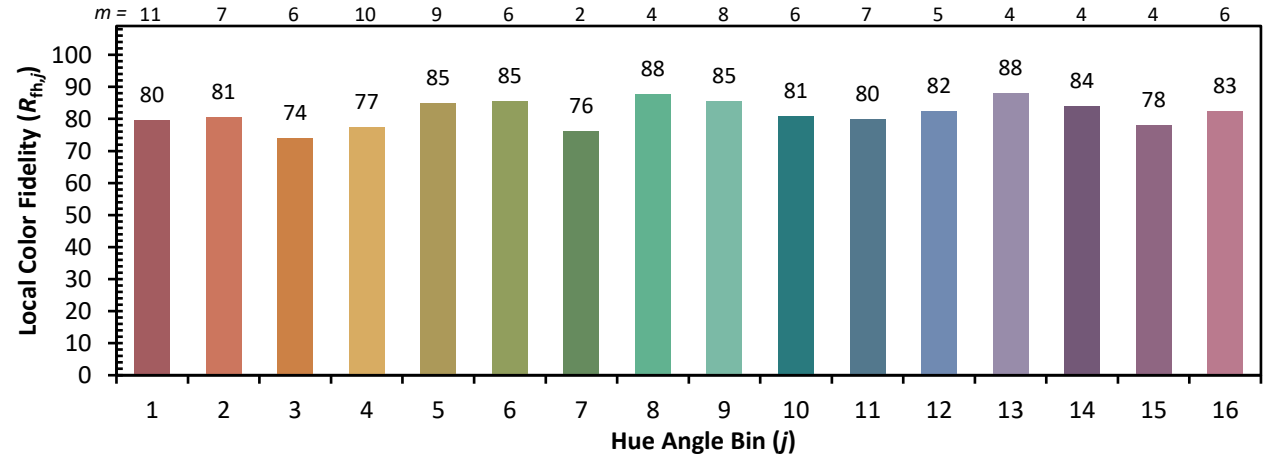
Color Rendition by Hue-Angle Bin







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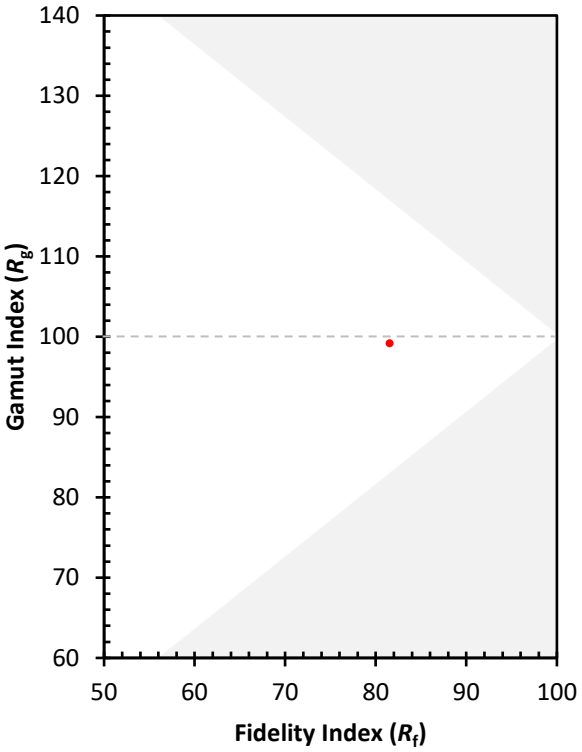
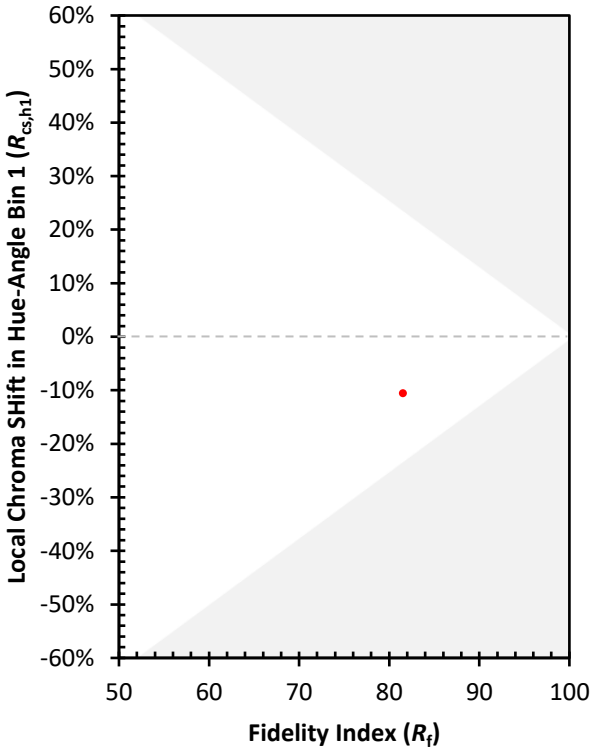
Measure Comparisons





(END OF REPORT)