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: P632052

Luminaire Tested: GWS-SA2B-830-U-T1-W

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:	P632052
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5472.2 lumens
Efficiency:	N/A
Efficacy:	117.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B2 - U0 - G2

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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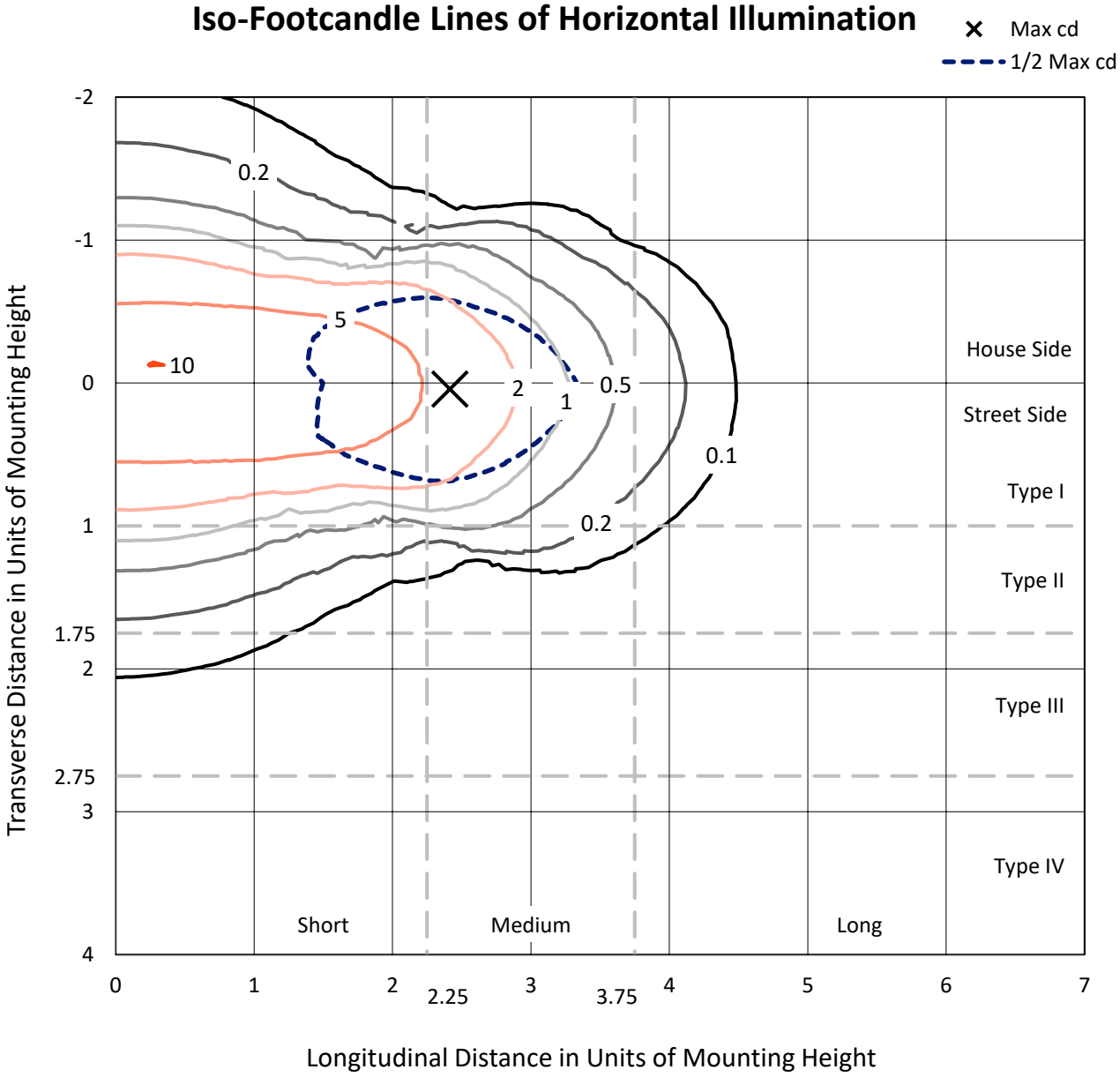
Scaled Data Report

REPORT NUMBER: P632052
CATALOG NUMBER: GWS-SA2B-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type I - Medium - N/A

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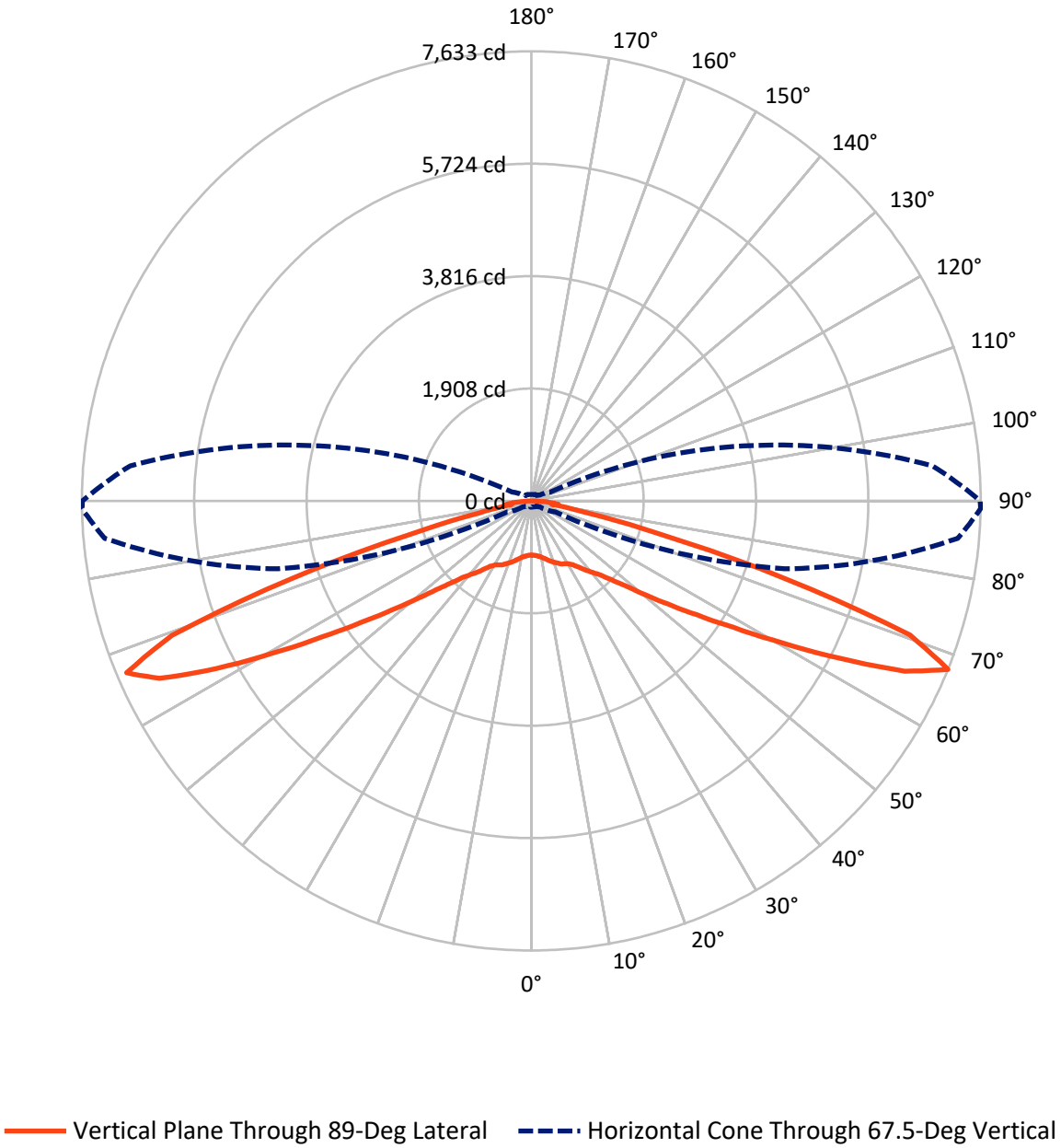
CATALOG NUMBER: GWS-SA2B-830-U-T1-W

Luminous Intensity Polar Plot



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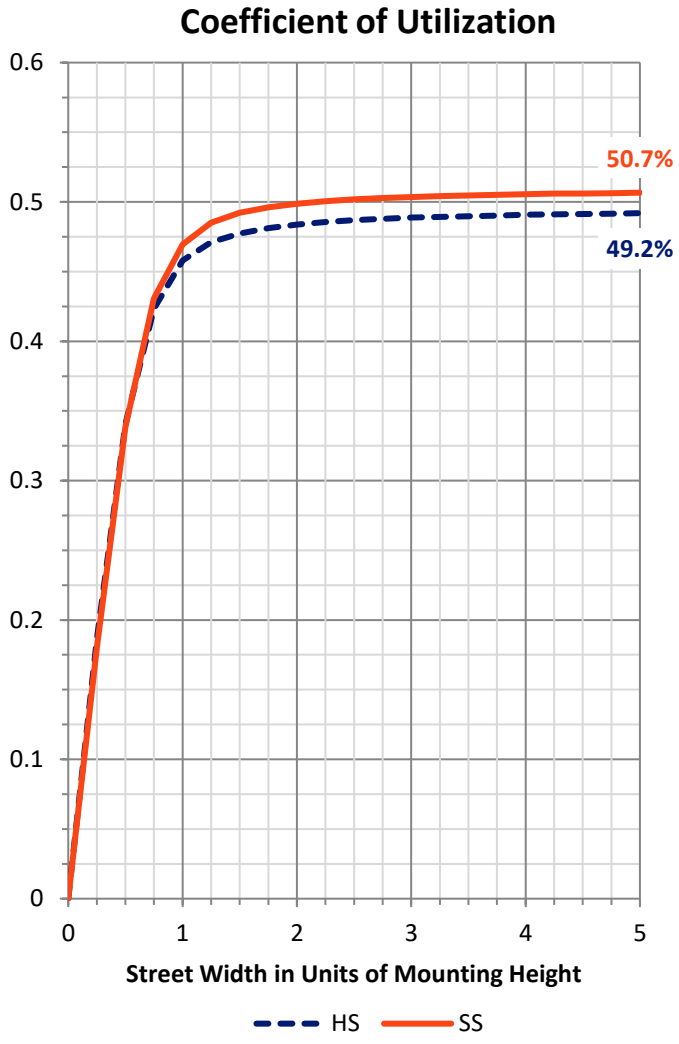
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2712.1	0.0	2712.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	2760.1	0.0	2760.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	5472.2	0.0	5472.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.7
10°-20°	300.0	5.5
20°-30°	507.1	9.3
30°-40°	695.9	12.7
40°-50°	887.5	16.2
50°-60°	1113.5	20.3
60°-70°	1343.0	24.5
70°-80°	485.8	8.9
80°-90°	47.2	0.9
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°	5472.2	100.0
0°-180°	5472.2	100.0



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REPORT NUMBER: P632052
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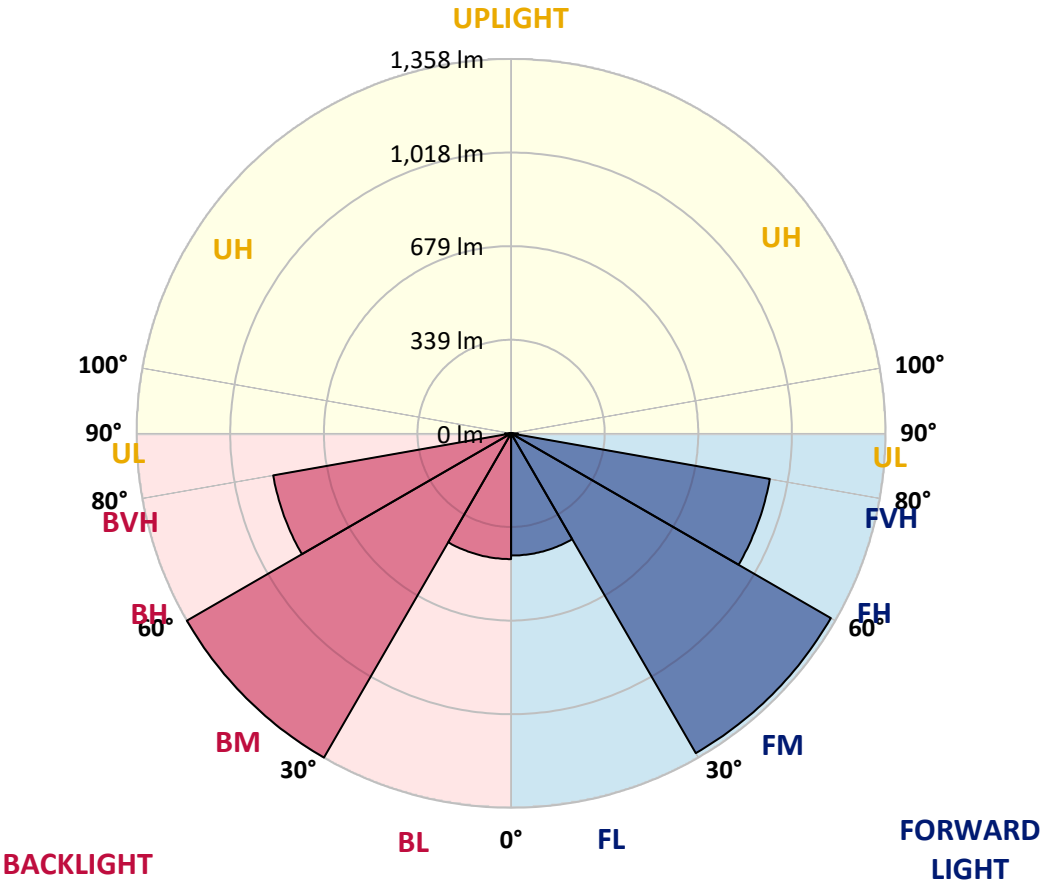
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	443.2	8.1			
FM	(30°-60°)	1339.2	24.5			
FH	(60°-80°)	952.8	17.4			G1/1800
FVH	(80°-90°)	24.9	0.5			G1/100
BL	(0°-30°)	456.0	8.3	B1/500		
BM	(30°-60°)	1357.8	24.8	B2/2500		
BH	(60°-80°)	876.0	16.0	B2/1000		G2/1000
BVH	(80°-90°)	22.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type I Medium



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REPORT NUMBER: P632052
CATALOG NUMBER: GWS-SA2B-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	*918.5*
2.5°	921.2	920.4	918.5	924.4	923.2	923.6	925.9	924.4	921.6	916.9	*923.6*
5°	947.2	946.8	942.4	946.0	942.0	939.3	938.9	935.0	931.8	926.7	*933.8*
7.5°	972.3	971.9	968.4	974.7	971.5	968.4	964.8	957.0	949.5	942.0	*949.9*
10°	991.6	991.2	990.4	999.4	1000.2	1001.4	999.8	986.5	973.5	964.4	*972.3*
12.5°	1002.6	1003.7	1005.7	1022.2	1030.5	1038.3	1040.3	1029.3	1007.7	994.7	*1004.1*
15°	995.1	997.5	1007.3	1037.2	1059.9	1077.6	1085.1	1076.1	1048.2	1026.5	*1037.2*
17.5°	959.3	961.3	980.6	1026.1	1076.5	1117.3	1129.5	1124.0	1093.0	1066.6	*1076.8*
20°	909.8	914.1	935.0	998.6	1073.7	1144.8	1177.5	1175.5	1141.7	1101.2	*1113.4*
22.5°	865.0	870.1	892.1	962.5	1055.2	1151.9	1225.8	1230.9	1186.1	1135.8	*1145.6*
25°	814.7	819.4	847.7	919.6	1023.4	1146.4	1267.1	1290.3	1236.4	1175.5	*1184.5*
27.5°	763.2	766.8	794.7	871.3	981.7	1136.2	1299.7	1355.5	1285.9	1203.0	*1209.3*
30°	718.0	722.7	748.3	823.0	936.2	1115.8	1326.4	1425.1	1342.9	1234.1	*1239.2*
32.5°	674.4	678.3	706.2	775.4	887.8	1084.3	1350.4	1506.8	1427.4	1291.8	*1291.8*
35°	619.4	626.5	657.9	729.8	842.2	1042.7	1367.7	1601.9	1543.0	1377.1	*1377.5*
37.5°	568.7	572.6	605.6	678.3	794.3	995.5	1369.2	1700.6	1689.2	1485.6	*1486.4*
40°	510.9	516.0	551.4	623.3	739.3	946.0	1354.3	1792.5	1842.4	1597.2	*1592.9*
42.5°	452.4	459.8	493.6	564.0	679.9	885.5	1314.6	1880.2	2037.0	1726.5	*1715.9*
45°	395.8	400.5	434.3	500.7	611.9	813.1	1251.0	1964.3	2268.1	1923.0	*1907.7*
47.5°	332.1	334.1	369.0	432.7	541.6	732.6	1159.8	2039.3	2521.9	2183.2	*2156.8*
50°	275.5	278.3	305.8	360.4	455.5	637.1	1046.2	2083.3	2845.4	2538.1	*2492.5*
52.5°	222.8	225.6	247.6	291.2	376.5	528.2	905.5	2073.1	3173.6	2978.6	*2912.2*
55°	180.0	182.0	196.9	231.1	296.3	420.1	739.3	1981.6	3537.9	3554.0	*3410.9*
57.5°	152.1	152.9	163.1	183.9	231.5	323.8	570.7	1765.4	3919.9	4288.1	*4053.1*
60°	136.0	136.4	141.1	154.1	182.7	247.2	418.2	1421.1	4315.6	5206.6	*4884.3*
62.5°	125.8	125.8	129.7	137.2	151.7	190.2	307.3	1020.6	4599.8	6206.0	*5885.7*
65°	115.9	115.9	118.7	125.0	132.8	155.2	230.7	658.3	4739.3	7041.6	*6970.4*
67.5°	*103.4*	*103.8*	*105.7*	*112.4*	*119.5*	*129.7*	*174.9*	*445.3*	*4449.7*	*7272.7*	*7632.6*
70°	91.6	92.0	94.7	99.0	104.9	112.0	136.8	306.9	3238.8	6057.1	*6824.6*
72.5°	78.6	80.2	82.1	86.9	90.4	95.5	111.6	198.9	1884.5	3896.3	*4511.4*
75°	64.5	66.4	68.8	73.5	75.9	77.8	92.0	141.9	906.7	1974.5	*2248.4*
77.5°	49.9	51.9	54.6	59.0	60.5	62.9	70.3	102.6	434.3	875.2	*943.6*
80°	33.4	34.2	36.5	41.7	44.4	46.0	51.9	70.0	188.6	351.4	*348.2*
82.5°	20.4	20.8	21.6	24.8	25.9	27.5	33.8	42.8	90.0	399.3	*457.9*
85°	7.5	7.1	6.7	8.6	10.2	11.8	15.7	21.6	39.3	274.3	*306.9*
87.5°	0.0	0.0	0.0	0.4	0.8	0.8	1.6	3.1	9.4	102.6	*70.3*
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: P632052
CATALOG NUMBER: GWS-SA2B-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	921.6	917.3	922.8	926.7	935.4	938.5	939.3	936.5	936.5	931.8	932.6
5°	932.2	929.5	938.5	945.2	957.8	962.5	965.6	963.7	964.8	961.7	962.5
7.5°	948.3	946.0	961.7	974.7	987.6	993.1	995.9	994.3	994.7	990.8	992.0
10°	970.7	971.5	990.4	1007.3	1024.6	1030.1	1031.3	1026.5	1022.6	1015.5	1015.9
12.5°	1001.4	1005.3	1032.0	1050.9	1068.6	1076.5	1067.8	1050.5	1034.4	1022.2	1020.6
15°	1034.8	1041.9	1080.4	1104.4	1123.6	1119.7	1094.1	1055.2	1023.4	1005.3	1001.8
17.5°	1074.9	1085.5	1133.8	1162.5	1179.0	1153.9	1100.4	1042.3	997.9	973.5	968.8
20°	1112.6	1129.5	1190.4	1227.8	1229.7	1173.1	1097.7	1015.9	960.1	930.3	924.0
22.5°	1147.2	1168.8	1249.8	1297.3	1271.8	1181.8	1080.8	978.6	914.5	879.6	874.1
25°	1184.9	1215.6	1318.9	1363.4	1313.8	1178.2	1045.4	932.2	859.5	823.7	819.8
27.5°	1210.9	1249.4	1388.5	1430.9	1348.4	1158.2	999.8	881.5	809.2	775.4	769.9
30°	1240.7	1289.9	1465.1	1504.4	1369.6	1128.7	951.1	834.4	762.4	725.9	722.0
32.5°	1295.0	1356.7	1560.3	1582.3	1376.3	1092.2	904.3	788.8	713.7	677.2	671.7
35°	1382.2	1454.5	1693.9	1669.1	1371.2	1052.1	859.9	735.3	663.8	629.6	624.1
37.5°	1492.3	1582.3	1842.8	1747.3	1357.1	1008.1	807.2	690.5	619.0	584.4	581.3
40°	1594.8	1705.7	2009.9	1814.9	1328.4	953.8	756.5	643.8	570.7	534.1	527.0
42.5°	1723.3	1870.7	2203.2	1873.5	1281.2	889.0	699.6	586.0	510.1	477.1	468.5
45°	1918.7	2101.8	2428.0	1929.7	1210.9	809.2	628.0	515.6	443.7	409.9	403.2
47.5°	2162.3	2390.7	2671.7	1963.1	1104.0	725.1	547.1	441.4	369.4	331.3	328.2
50°	2504.7	2810.8	2933.0	1957.2	984.5	625.3	455.9	352.9	292.8	265.3	261.0
52.5°	2921.6	3338.2	3215.6	1886.4	857.5	511.7	355.3	277.1	232.3	212.6	209.1
55°	3444.7	3969.8	3513.1	1734.7	697.2	391.8	279.0	218.5	187.9	176.1	174.5
57.5°	4092.4	4787.6	3799.6	1479.3	524.3	299.1	215.0	180.4	165.9	158.8	158.4
60°	4947.2	5655.8	4048.4	1149.6	375.3	228.7	177.6	161.1	149.7	145.0	144.6
62.5°	5963.5	6444.2	4203.2	782.9	282.2	182.4	156.4	146.2	139.5	136.8	136.4
65°	7008.2	6942.5	4129.4	512.9	214.2	154.8	140.3	134.8	128.9	126.2	126.2
67.5°	*7625.2*	*6837.2*	*3562.2*	*356.1*	*169.8*	*136.0*	*126.5*	*121.4*	*111.6*	*109.3*	*109.3*
70°	6753.9	5540.3	2334.9	260.6	137.6	119.1	110.0	103.0	99.0	96.7	96.3
72.5°	4467.0	3605.1	1241.5	180.8	114.8	101.4	93.1	90.4	85.7	83.3	82.9
75°	2223.3	1893.5	636.3	130.5	95.5	81.4	77.8	76.6	72.7	69.6	68.8
77.5°	926.7	843.0	296.7	94.7	72.7	65.6	62.5	62.5	58.2	54.6	53.1
80°	349.4	311.3	140.3	64.8	53.8	48.7	46.8	45.2	41.7	37.3	35.0
82.5°	467.3	305.4	68.8	40.5	35.4	31.4	28.7	27.5	25.5	23.6	22.0
85°	302.6	216.9	31.0	20.8	17.7	13.4	11.8	11.0	9.8	8.6	7.9
87.5°	61.7	72.7	9.4	3.9	2.4	1.2	1.2	0.4	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

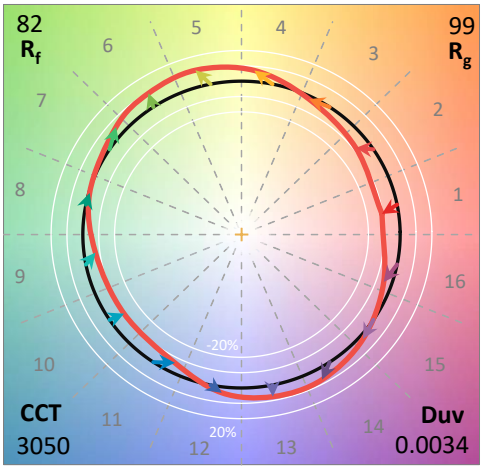
Test Information

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

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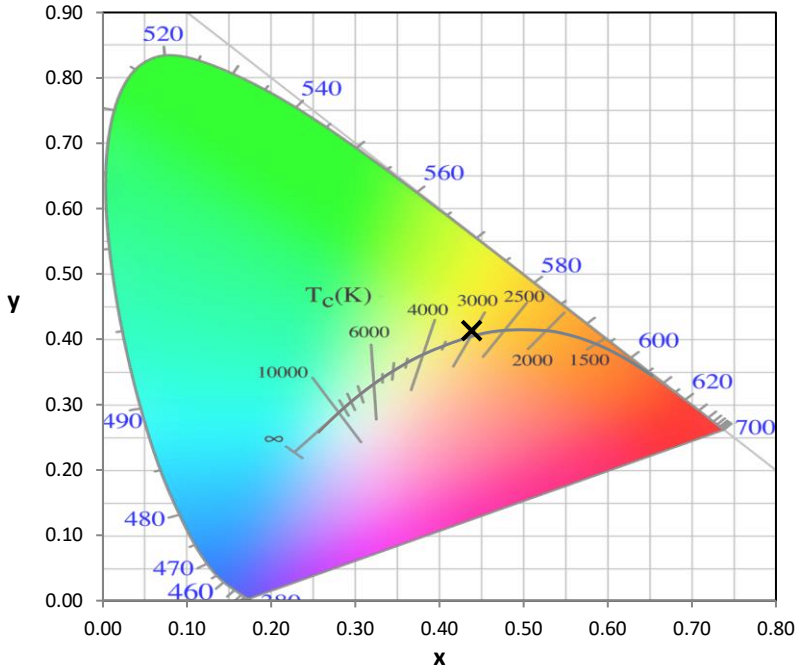
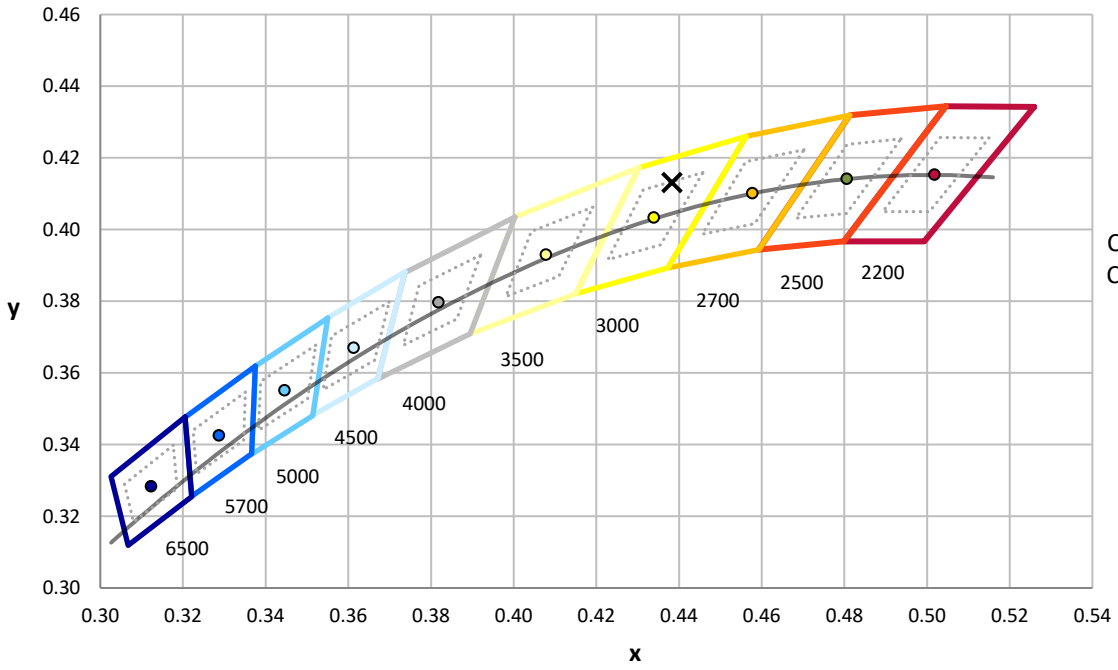
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

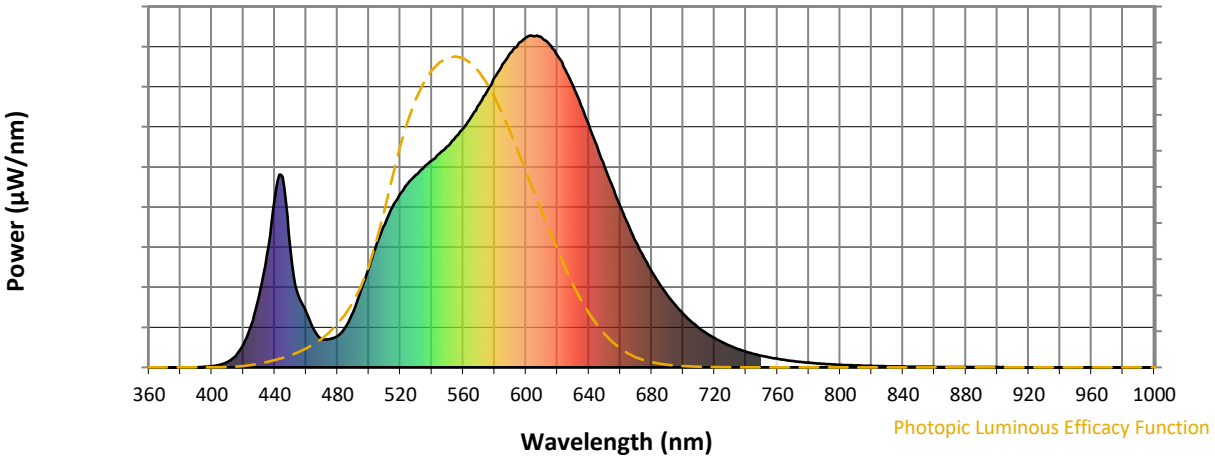


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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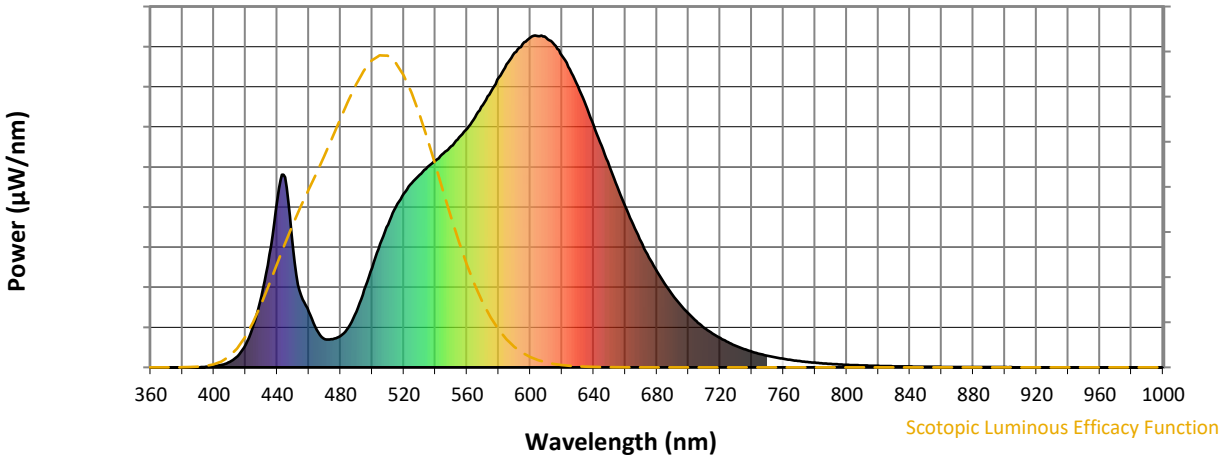
Scotopic Flux vs. Wavelength



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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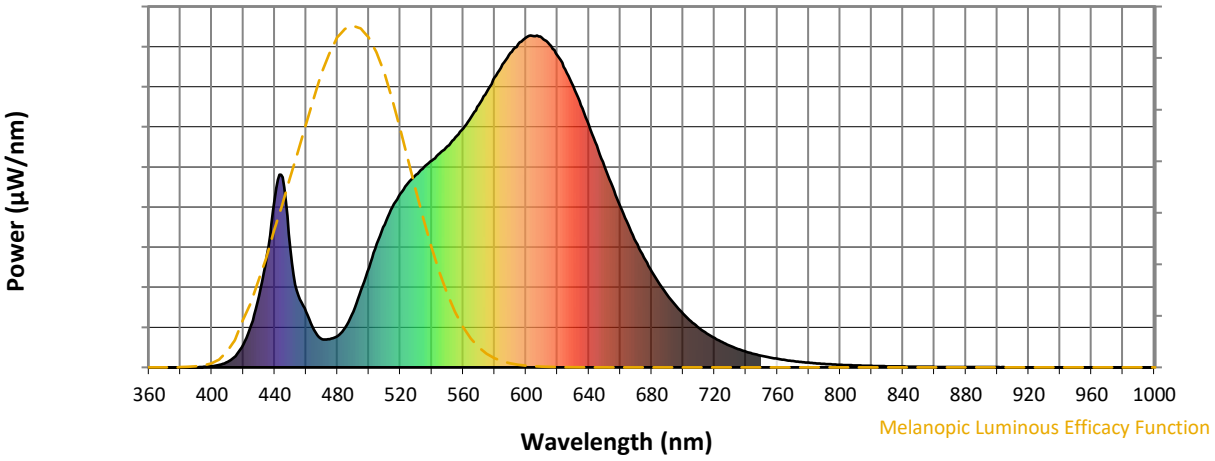
Melanopic Flux vs. Wavelength



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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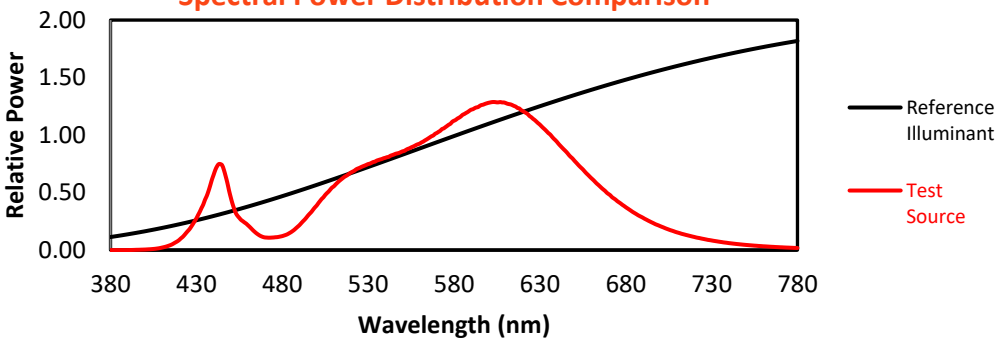
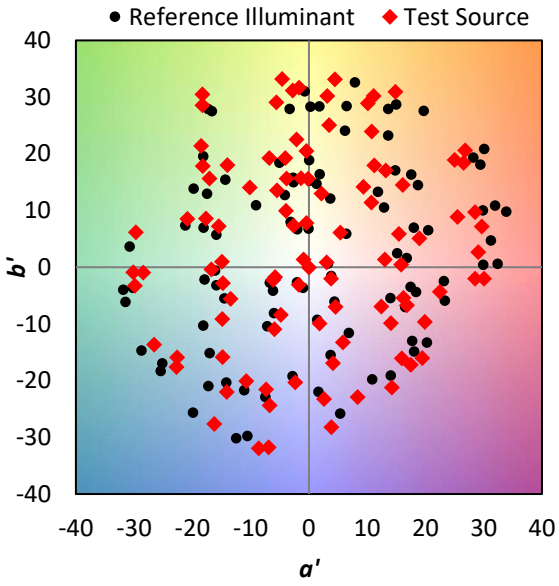
Summary

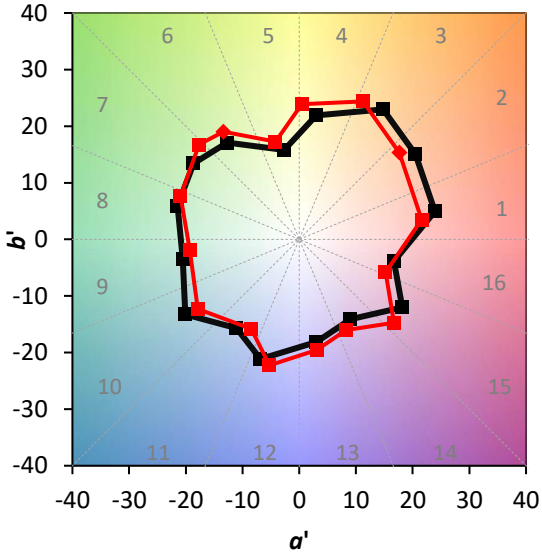
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

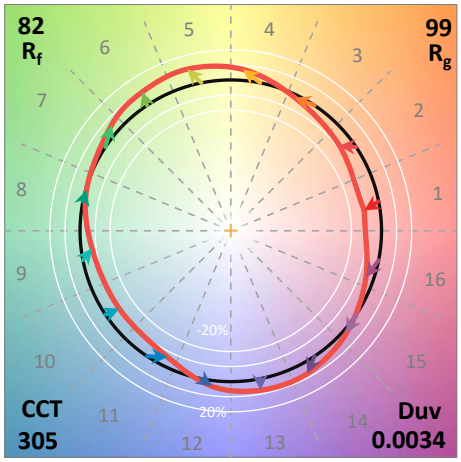
Spectral Power Distribution Comparison

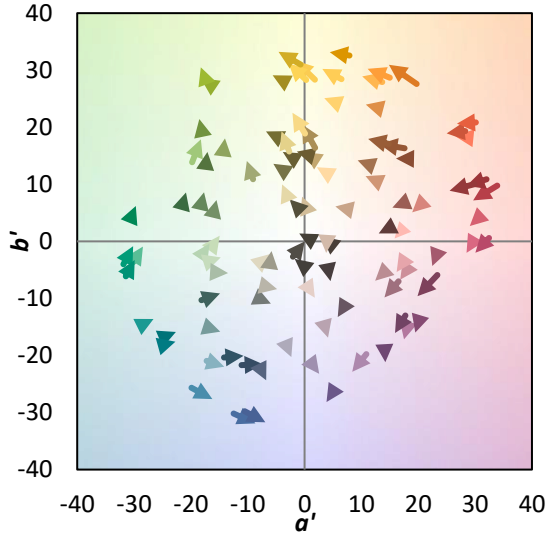


Color Vector Graphics









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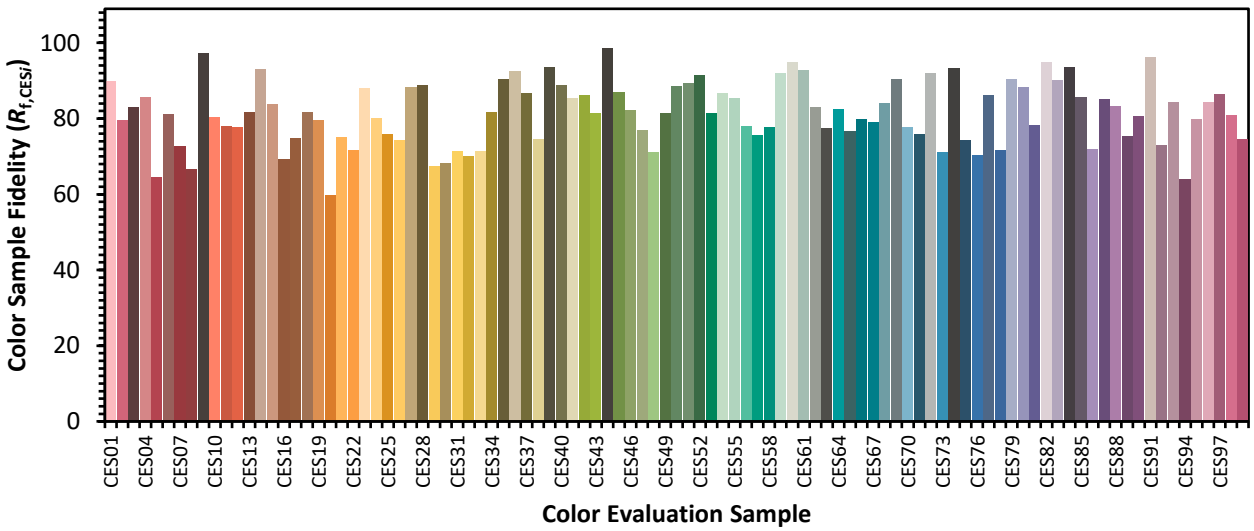
Individual Sample Fidelity Index ($R_{f,i}$)

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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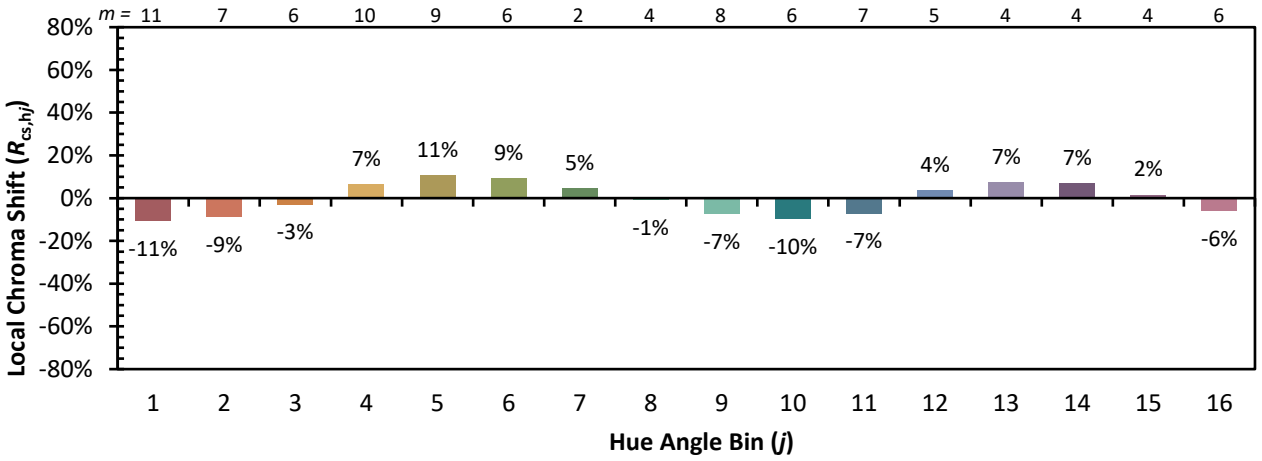
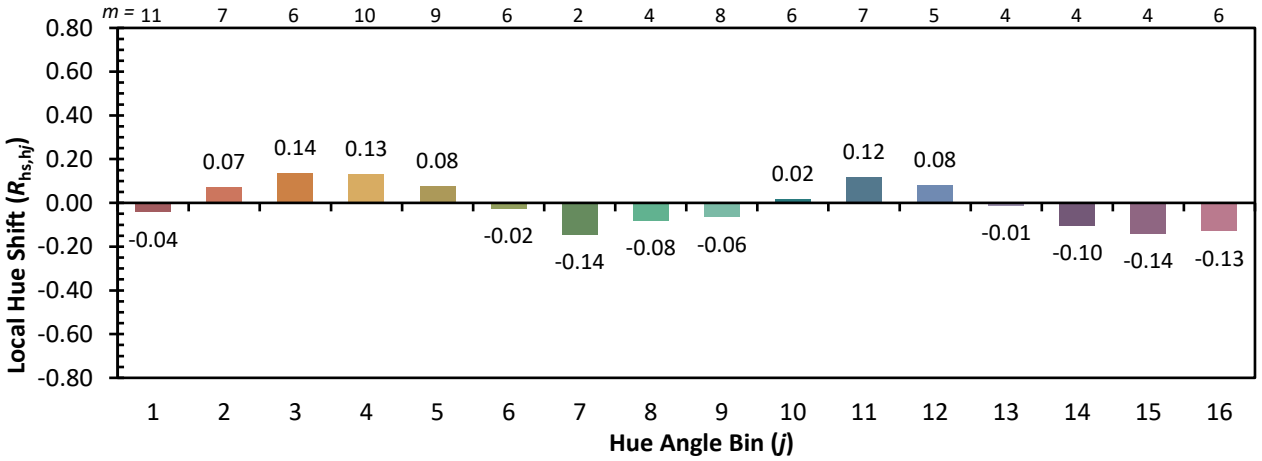
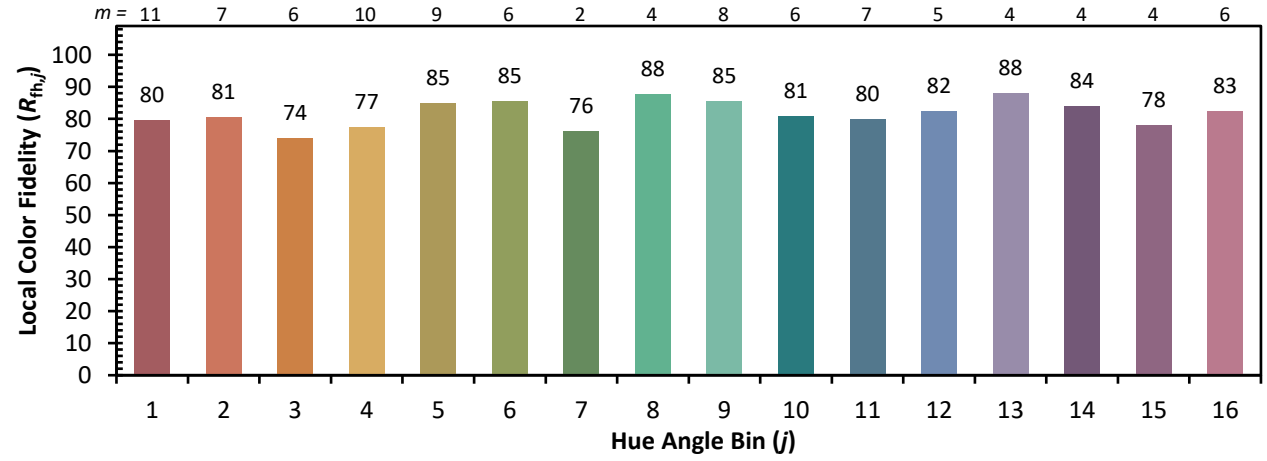
Color Rendition by Hue-Angle Bin







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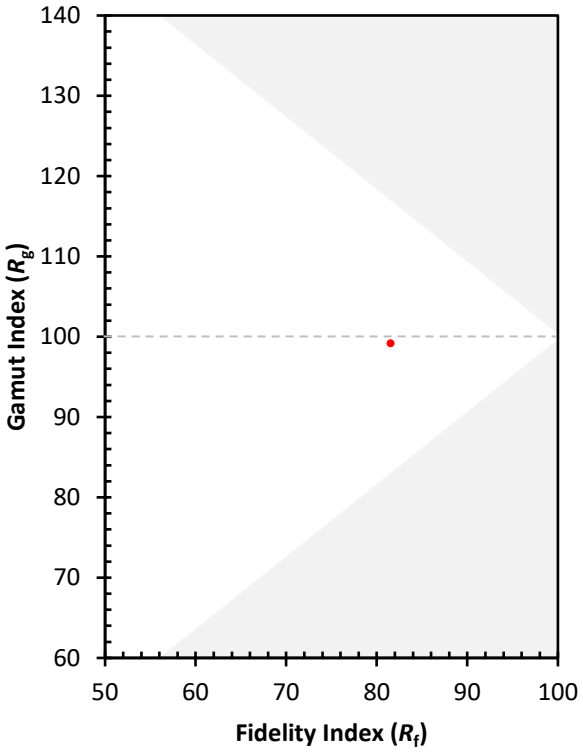
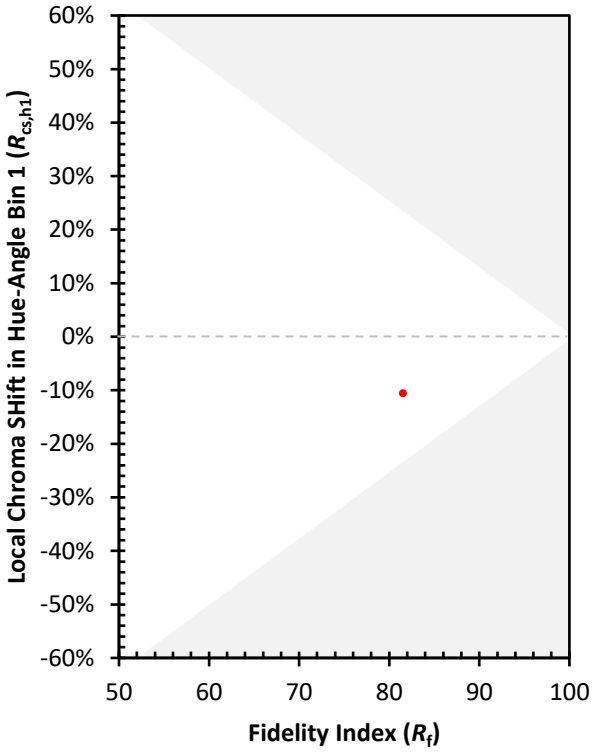
Measure Comparisons





(END OF REPORT)