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: P630055

Luminaire Tested: GWS-SA1C-830-U-SL2-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:	P630055
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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:	3252.1 lumens
Efficiency:	N/A
Efficacy:	95.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	34.1
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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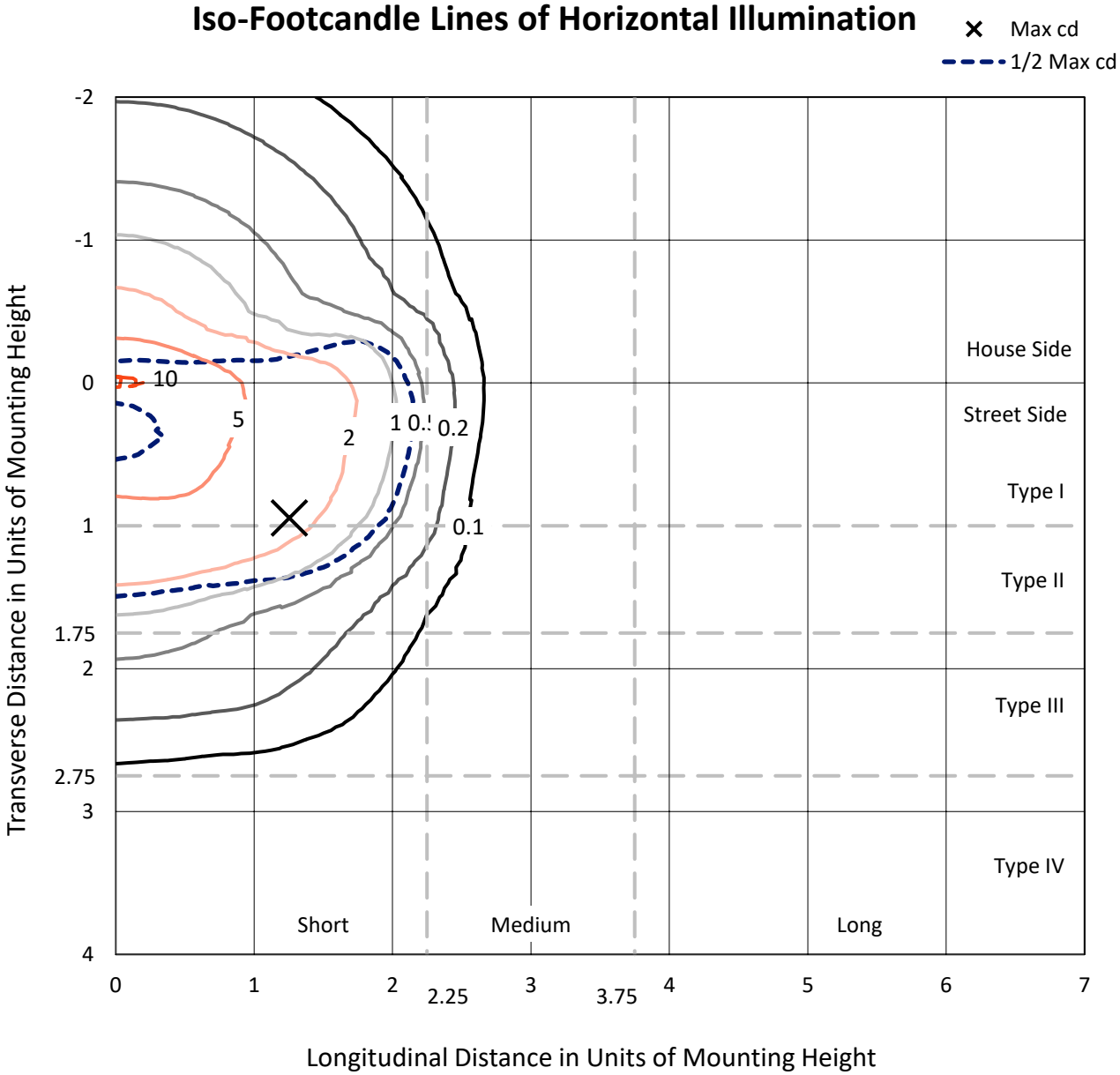
Scaled Data Report

REPORT NUMBER: P630055
CATALOG NUMBER: GWS-SA1C-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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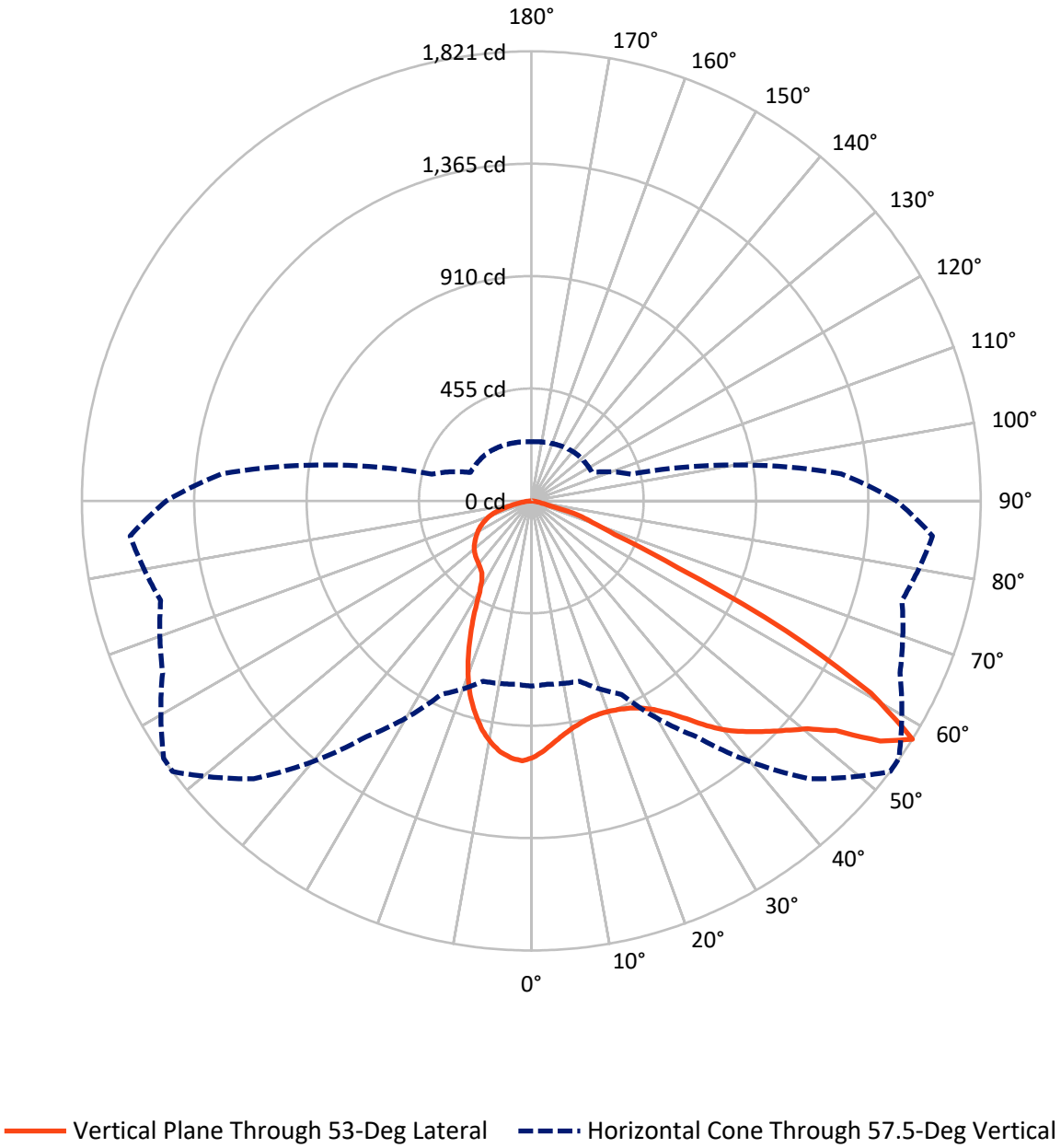
Luminous Intensity Polar Plot



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REPORT NUMBER: P630055
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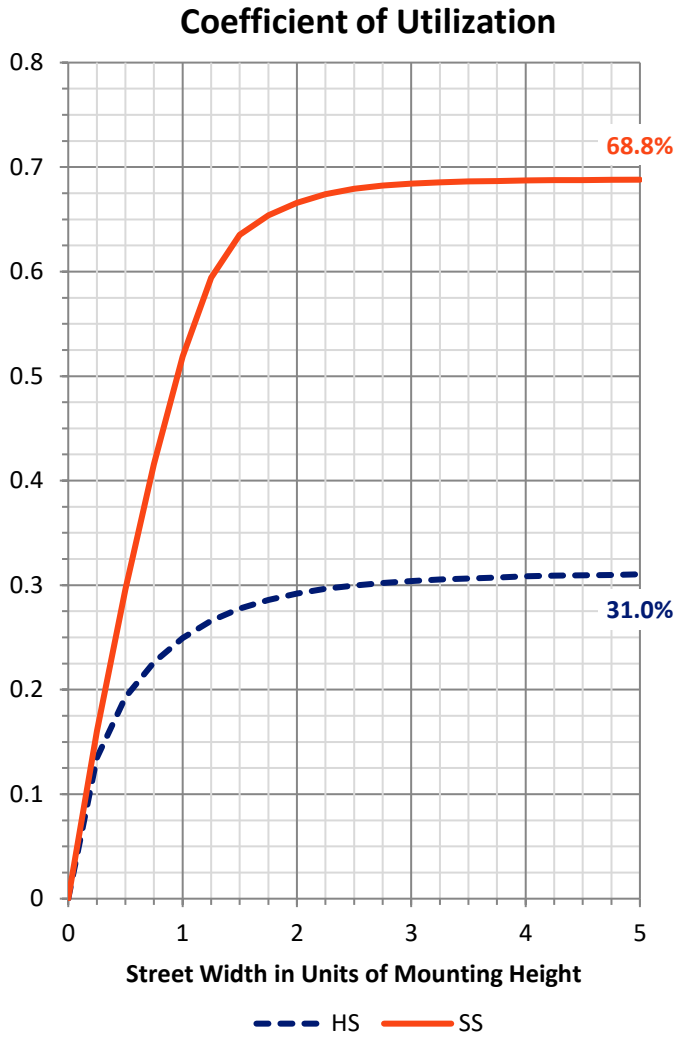
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.8	0.0	1016.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	2235.3	0.0	2235.3
	% Fixture	68.7	0.0	68.7
Total	Lumens	3252.1	0.0	3252.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	2.9
10°-20°	246.4	7.6
20°-30°	363.0	11.2
30°-40°	508.1	15.6
40°-50°	667.9	20.5
50°-60°	783.2	24.1
60°-70°	461.4	14.2
70°-80°	114.8	3.5
80°-90°	13.5	0.4
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°	3252.1	100.0
0°-180°	3252.1	100.0



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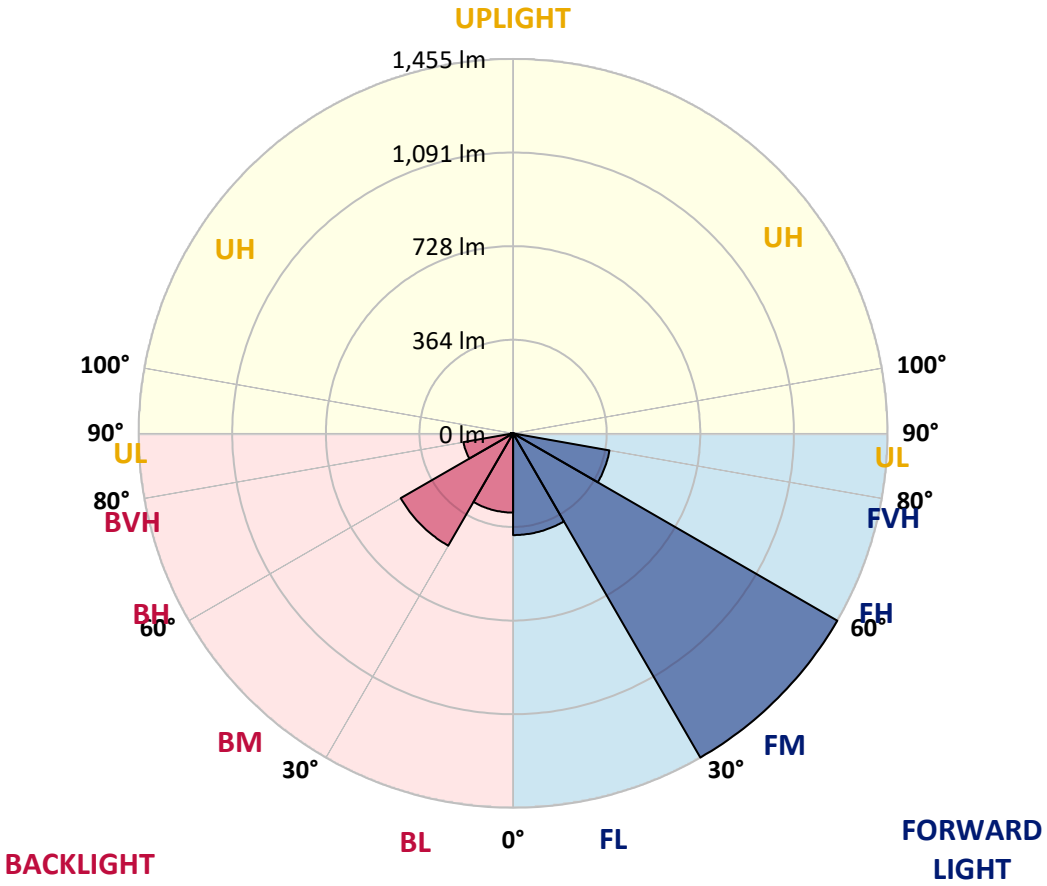
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	395.4	12.2			
FM	(30°-60°)	1455.0	44.7			
FH	(60°-80°)	380.4	11.7			G0/660
FVH	(80°-90°)	4.5	0.1			G0/10
BL	(0°-30°)	307.9	9.5	B1/500		
BM	(30°-60°)	504.2	15.5	B1/1000		
BH	(60°-80°)	195.8	6.0	B1/500		G1/500
BVH	(80°-90°)	9.0	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P630055
CATALOG NUMBER: GWS-SA1C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	*1038.5*	1038.5	1038.5	1038.5	1038.5
2.5°	978.8	981.6	982.1	990.6	991.1	1003.4	*1011.7*	1010.0	1018.5	1028.9	1037.1
5°	932.0	932.3	935.0	945.1	950.6	966.8	*980.5*	980.5	996.9	1018.2	1036.6
7.5°	893.4	893.1	895.6	906.8	915.9	935.3	*953.9*	956.1	979.1	1010.3	1040.1
10°	857.6	859.5	862.2	875.9	887.4	911.5	*933.6*	937.2	966.2	1004.8	1045.1
12.5°	834.6	834.8	838.9	854.3	869.1	894.8	*918.0*	922.4	955.8	999.6	1048.6
15°	819.8	820.1	824.4	841.4	858.7	884.7	*908.5*	913.4	949.8	998.8	1055.5
17.5°	813.2	812.9	817.0	834.0	852.9	880.0	*905.5*	911.5	952.5	1005.1	1067.5
20°	813.2	813.5	815.7	831.0	850.2	878.9	*908.5*	915.9	963.2	1019.3	1086.1
22.5°	824.7	825.8	826.9	837.3	852.4	880.5	*916.4*	926.3	986.2	1043.1	1110.5
25°	847.2	847.4	848.5	857.0	863.9	885.2	*929.5*	944.3	1022.1	1077.9	1141.1
27.5°	877.3	881.1	882.2	887.7	887.7	896.7	*950.1*	971.4	1070.5	1128.0	1180.3
30°	919.4	920.8	922.7	928.7	922.2	918.3	*980.2*	1007.6	1126.6	1188.5	1227.3
32.5°	956.4	959.4	969.8	979.6	967.9	955.8	*1024.5*	1056.8	1180.5	1251.4	1277.4
35°	987.8	995.2	1015.2	1037.1	1028.9	1016.9	*1083.4*	1117.0	1224.9	1296.6	1321.8
37.5°	1025.9	1031.6	1059.0	1094.6	1102.0	1096.2	*1155.1*	1179.2	1254.4	1308.1	1345.9
40°	1064.5	1073.2	1108.6	1157.8	1186.0	1190.1	*1221.3*	1237.5	1264.6	1285.7	1341.2
42.5°	1103.9	1119.0	1167.4	1224.9	1275.0	1284.3	*1277.2*	1284.0	1261.3	1254.7	1319.6
45°	1152.1	1169.9	1224.6	1298.0	1363.9	1378.4	*1331.9*	1325.6	1260.7	1243.0	1306.2
47.5°	1209.0	1226.8	1279.1	1364.5	1448.8	1459.5	*1388.0*	1376.5	1279.9	1261.0	1324.2
50°	1259.4	1271.7	1318.5	1414.0	1527.9	1534.2	*1449.9*	1435.9	1327.5	1311.1	1380.6
52.5°	1208.2	1206.8	1256.1	1373.8	1568.9	1644.8	*1545.1*	1531.7	1419.5	1394.3	1467.9
55°	1025.1	1009.5	1053.5	1169.3	1454.3	1743.0	*1715.9*	1689.1	1542.1	1478.1	1549.8
57.5°	*749.4*	*745.1*	*755.7*	*864.4*	*1164.9*	*1590.8*	*1820.5*	*1818.0*	*1648.1*	*1554.7*	*1631.4*
60°	586.0	579.5	551.0	554.0	794.1	1242.7	*1579.9*	1652.4	1713.7	1600.7	1688.3
62.5°	520.3	515.4	500.6	459.8	473.0	833.2	*1158.1*	1224.6	1497.5	1413.7	1450.2
65°	430.8	429.5	441.8	440.1	396.3	460.1	*653.6*	720.7	941.6	953.4	941.6
67.5°	313.1	310.7	341.9	403.5	381.6	347.3	*364.3*	387.6	482.8	433.6	390.3
70°	203.6	200.1	218.2	291.5	341.6	302.7	*262.5*	258.7	265.5	165.1	178.5
72.5°	136.6	132.5	132.2	160.4	206.4	203.9	*203.4*	201.5	179.8	130.3	144.5
75°	76.1	72.8	72.0	69.3	73.9	75.3	*80.2*	82.9	89.8	98.8	109.5
77.5°	12.9	12.6	15.9	20.3	27.9	35.9	*44.3*	46.8	57.8	68.4	75.3
80°	7.1	7.4	9.6	11.8	15.6	21.3	*27.4*	29.0	35.6	41.3	46.8
82.5°	3.8	3.8	4.9	6.3	8.5	11.2	*14.8*	16.1	20.5	24.1	27.9
85°	1.4	1.4	1.9	2.5	3.6	4.7	*5.7*	6.6	9.0	12.3	14.0
87.5°	0.0	0.0	0.0	0.0	0.3	0.5	*1.1*	1.1	1.4	2.5	3.6
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: P630055
CATALOG NUMBER: GWS-SA1C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
2.5°	1044.0	1036.6	1046.7	1051.3	1053.0	1054.1	1047.0	1042.0	1040.4	1035.2	1032.2
5°	1047.8	1042.9	1052.4	1052.4	1045.6	1038.5	1024.0	1013.8	1006.7	998.2	996.9
7.5°	1054.4	1050.8	1056.0	1045.3	1028.1	1008.9	983.7	964.0	948.2	937.8	938.0
10°	1063.1	1058.7	1054.6	1030.8	999.3	964.0	925.4	896.7	870.4	858.4	851.8
12.5°	1068.9	1062.6	1045.3	1005.9	959.7	912.3	857.8	815.1	777.1	759.8	758.5
15°	1076.0	1064.5	1030.0	973.6	909.3	844.7	774.6	715.2	663.8	636.9	635.6
17.5°	1085.3	1066.4	1011.7	936.7	856.2	760.9	672.8	598.1	543.3	522.5	526.1
20°	1098.4	1068.6	990.9	895.6	790.2	665.7	555.9	487.2	466.1	464.8	462.0
22.5°	1113.2	1070.0	967.9	849.6	710.3	564.1	459.3	430.0	429.7	436.6	438.2
25°	1129.9	1071.1	941.9	796.0	623.8	462.9	406.2	397.4	404.3	417.1	418.8
27.5°	1151.3	1073.2	910.4	737.1	531.8	399.9	376.9	374.7	382.9	395.0	394.4
30°	1182.7	1081.2	877.0	669.5	437.4	370.1	359.1	359.4	362.7	368.4	369.2
32.5°	1214.8	1093.5	844.4	593.4	383.2	353.1	348.2	347.6	347.6	350.1	350.6
35°	1245.1	1107.5	809.1	514.0	356.9	343.2	340.0	338.3	337.5	336.9	336.1
37.5°	1262.1	1114.3	774.6	435.8	343.0	336.7	333.4	331.2	328.2	326.0	325.4
40°	1254.7	1106.4	734.7	377.2	334.5	330.4	326.5	323.5	319.4	317.5	316.4
42.5°	1230.1	1081.7	691.1	349.5	327.6	323.5	318.9	314.0	311.2	309.6	309.3
45°	1204.1	1051.9	638.6	333.4	321.1	316.1	310.7	305.2	302.2	301.4	301.1
47.5°	1203.3	1037.1	582.7	320.5	313.1	308.2	301.4	295.9	292.6	291.5	290.4
50°	1239.4	1052.2	519.8	309.3	304.9	299.7	292.1	286.0	281.9	280.6	280.3
52.5°	1314.4	1108.8	463.4	298.1	294.0	288.0	281.7	275.6	270.7	268.2	268.0
55°	1395.4	1180.8	428.4	286.6	281.1	275.9	270.2	263.6	258.1	254.3	253.7
57.5°	*1479.2*	*1259.4*	*417.7*	*272.1*	*268.0*	*264.4*	*257.6*	*250.5*	*244.2*	*240.6*	*239.8*
60°	1548.1	1327.0	437.7	256.7	254.6	249.9	243.6	236.8	232.4	229.6	229.1
62.5°	1296.1	1080.4	353.4	240.1	240.1	235.1	228.0	223.1	220.1	218.2	217.6
65°	822.5	669.0	241.1	223.4	223.1	216.5	210.5	207.2	205.8	202.8	202.3
67.5°	358.3	305.7	206.1	206.4	205.3	198.2	192.1	189.7	186.9	183.7	183.4
70°	185.9	189.4	184.5	187.5	185.6	177.1	171.3	167.5	161.8	158.5	158.8
72.5°	150.0	153.8	159.3	164.0	159.9	153.0	144.0	139.3	131.9	128.4	128.6
75°	114.4	118.5	123.7	128.6	125.4	116.9	111.1	106.5	98.0	93.9	94.7
77.5°	78.8	81.0	87.3	87.0	85.9	83.5	75.0	69.5	60.8	55.8	56.4
80°	49.0	50.4	53.4	54.7	54.2	50.9	44.1	40.0	34.8	31.8	32.0
82.5°	29.6	30.4	33.1	33.4	33.1	30.7	25.5	22.4	19.2	17.5	17.5
85°	15.1	15.6	17.2	17.2	15.6	13.1	11.8	10.4	8.5	7.7	7.7
87.5°	4.1	4.1	5.2	4.4	3.6	3.3	1.6	1.4	0.5	0.3	0.3
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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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

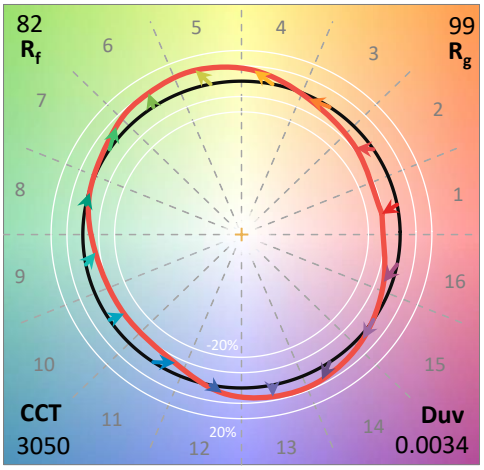
Test Information

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

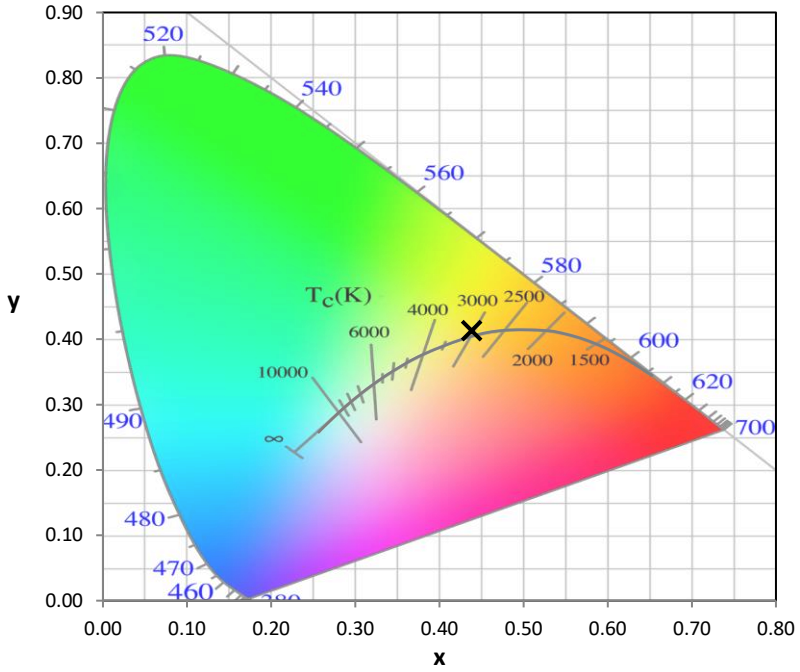
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

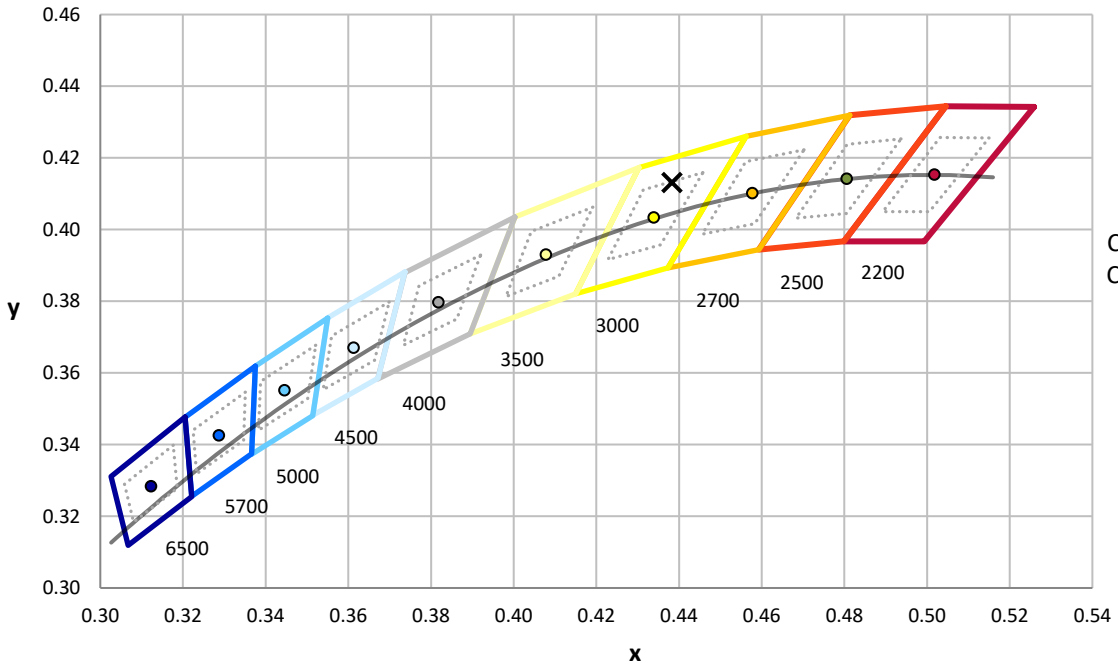
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

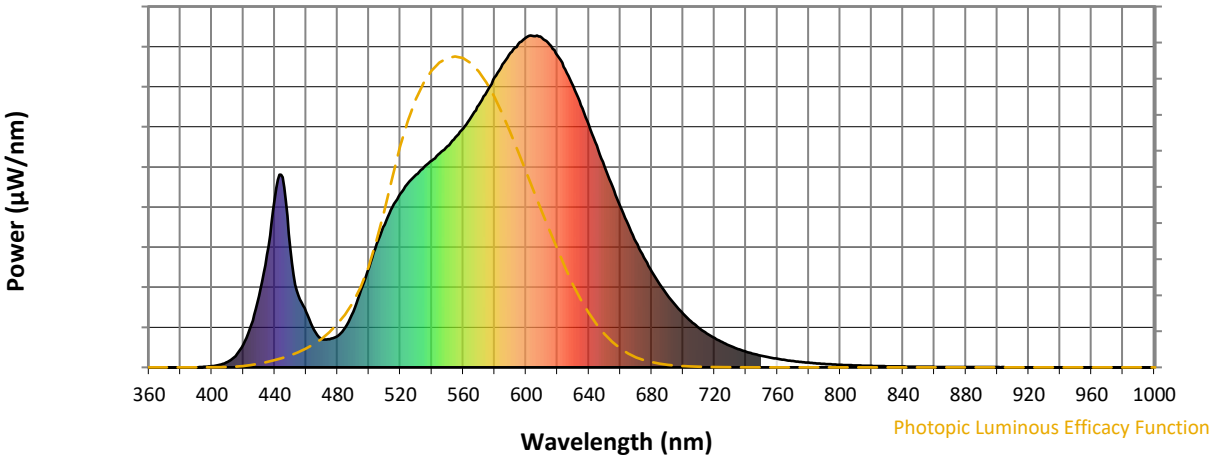


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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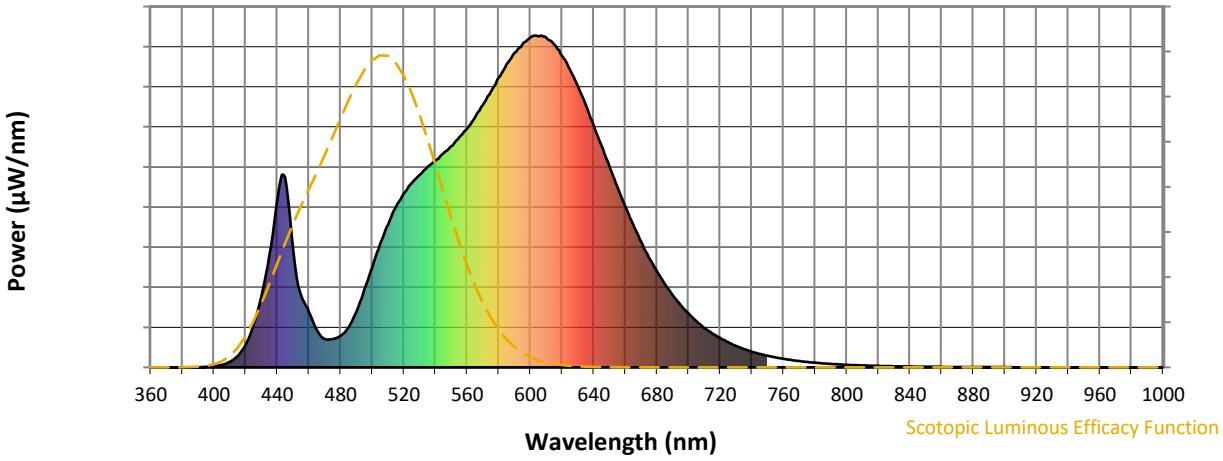
Scotopic Flux vs. Wavelength



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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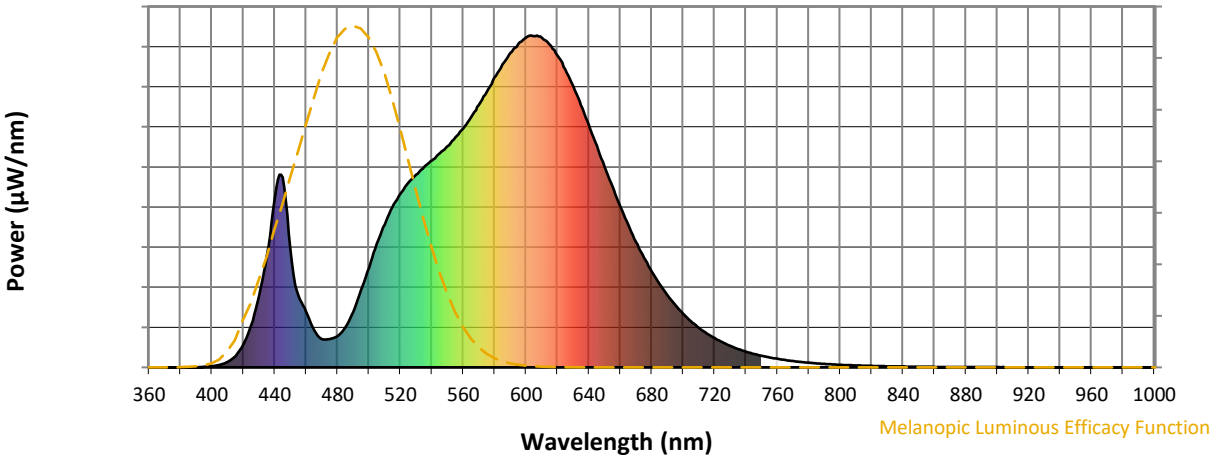
Melanopic Flux vs. Wavelength



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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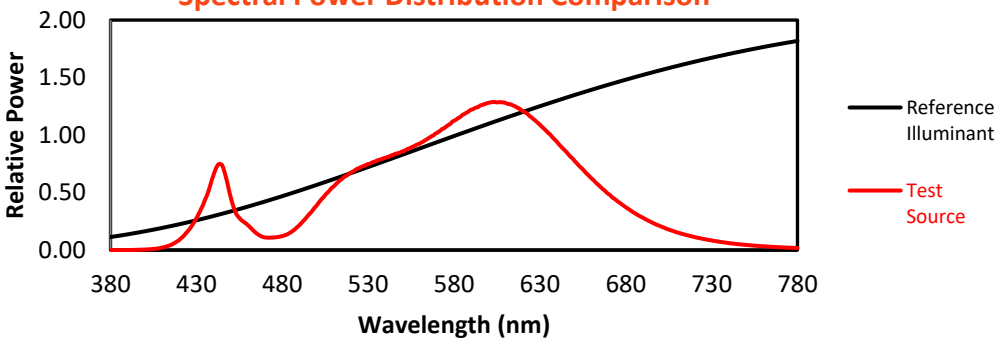
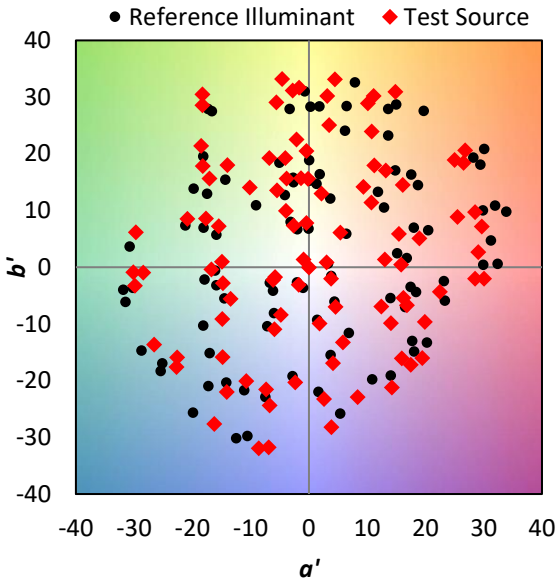
Summary

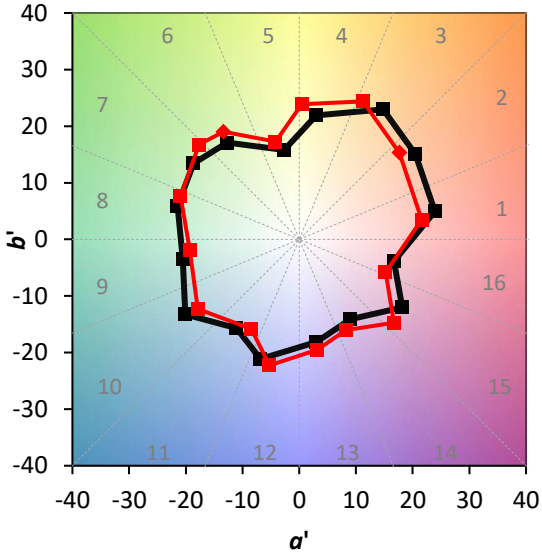
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

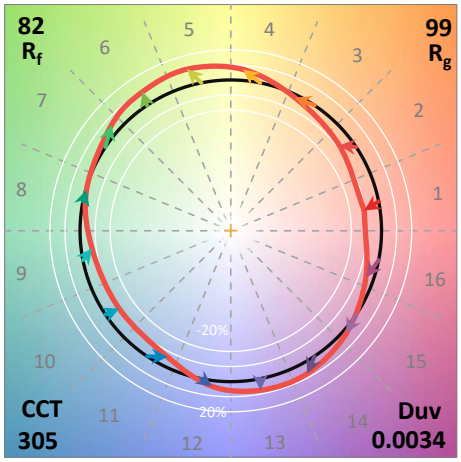
Spectral Power Distribution Comparison

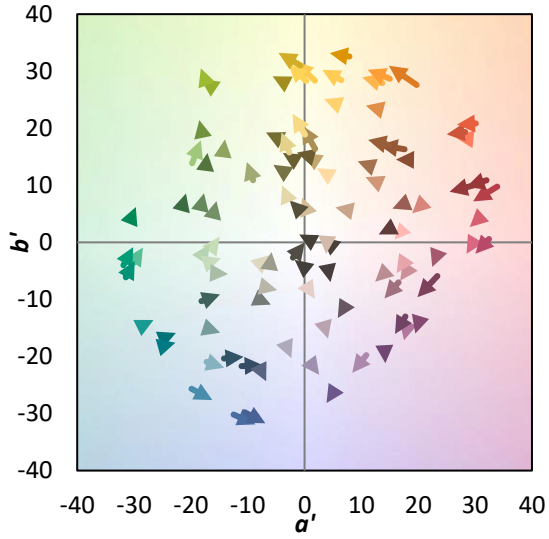


Color Vector Graphics









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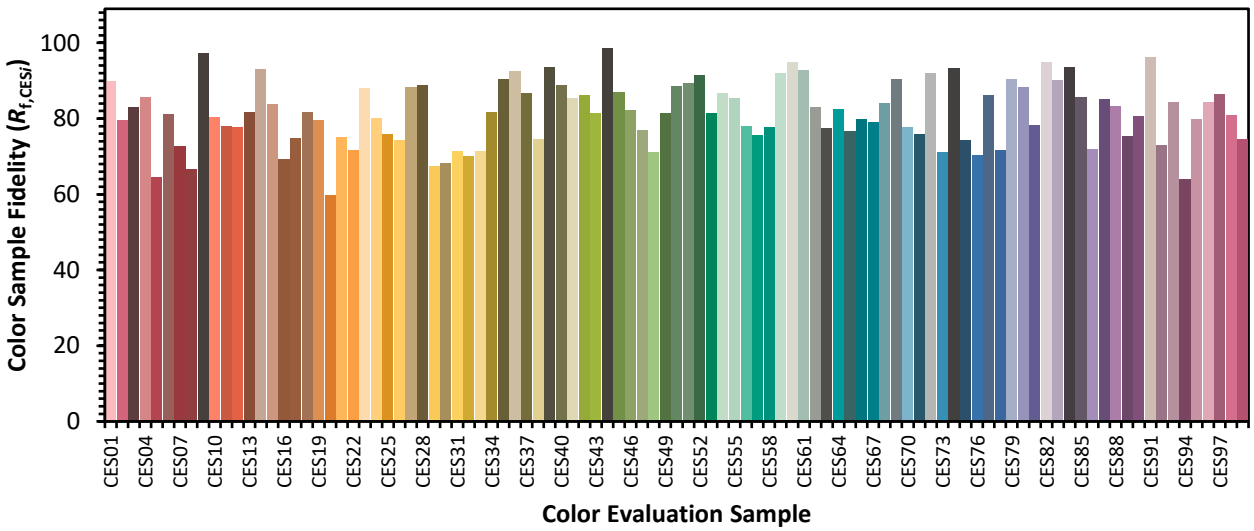
Individual Sample Fidelity Index ($R_{f,i}$)

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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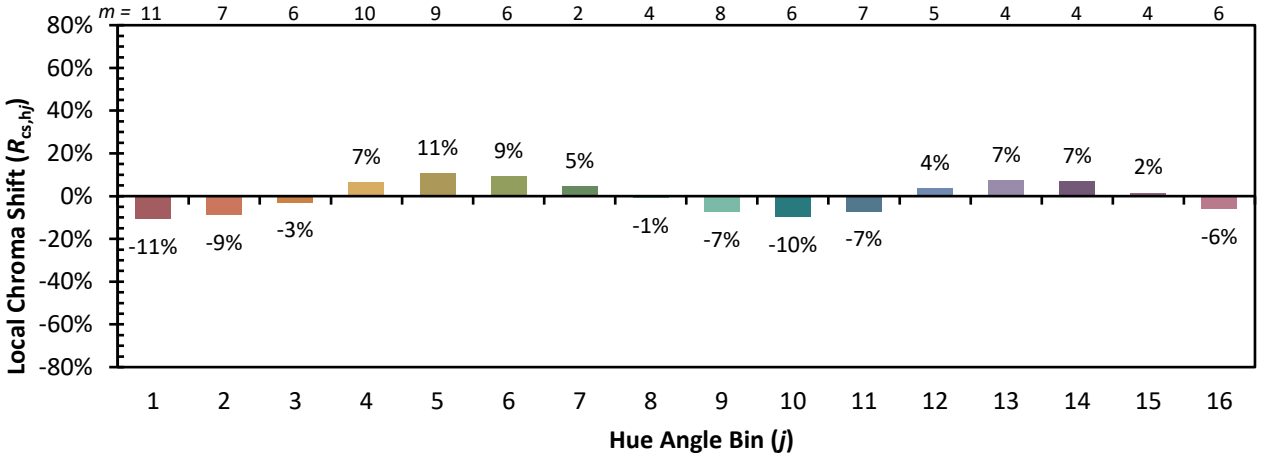
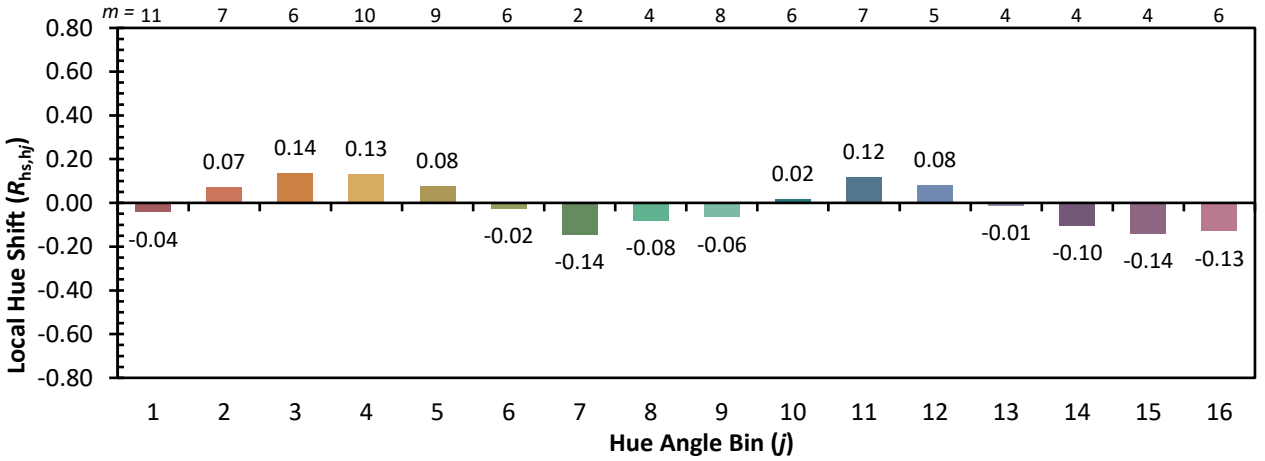
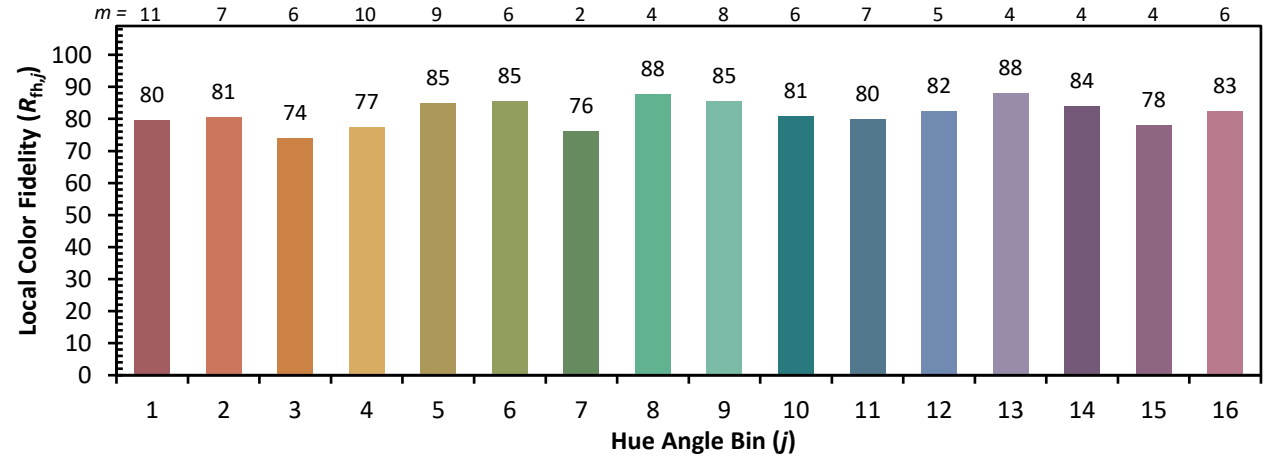
Color Rendition by Hue-Angle Bin







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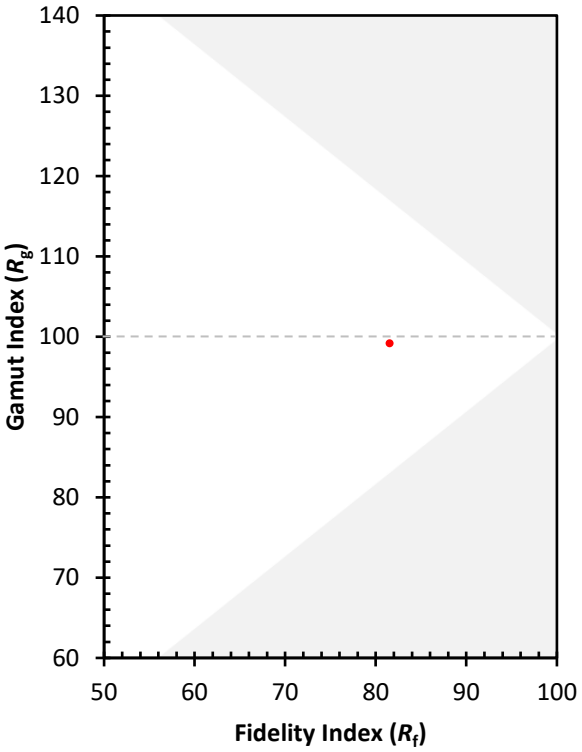
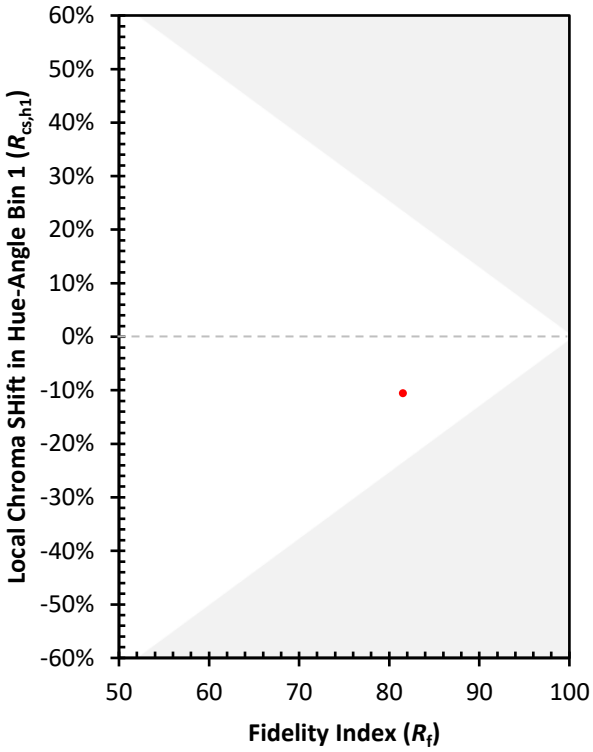
Measure Comparisons





(END OF REPORT)