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: P631050

Luminaire Tested: GWS-SA1E-830-U-SL3-W-HSS

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:	P631050
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1E-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4875.4 lumens
Efficiency:	N/A
Efficacy:	83.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	58.4
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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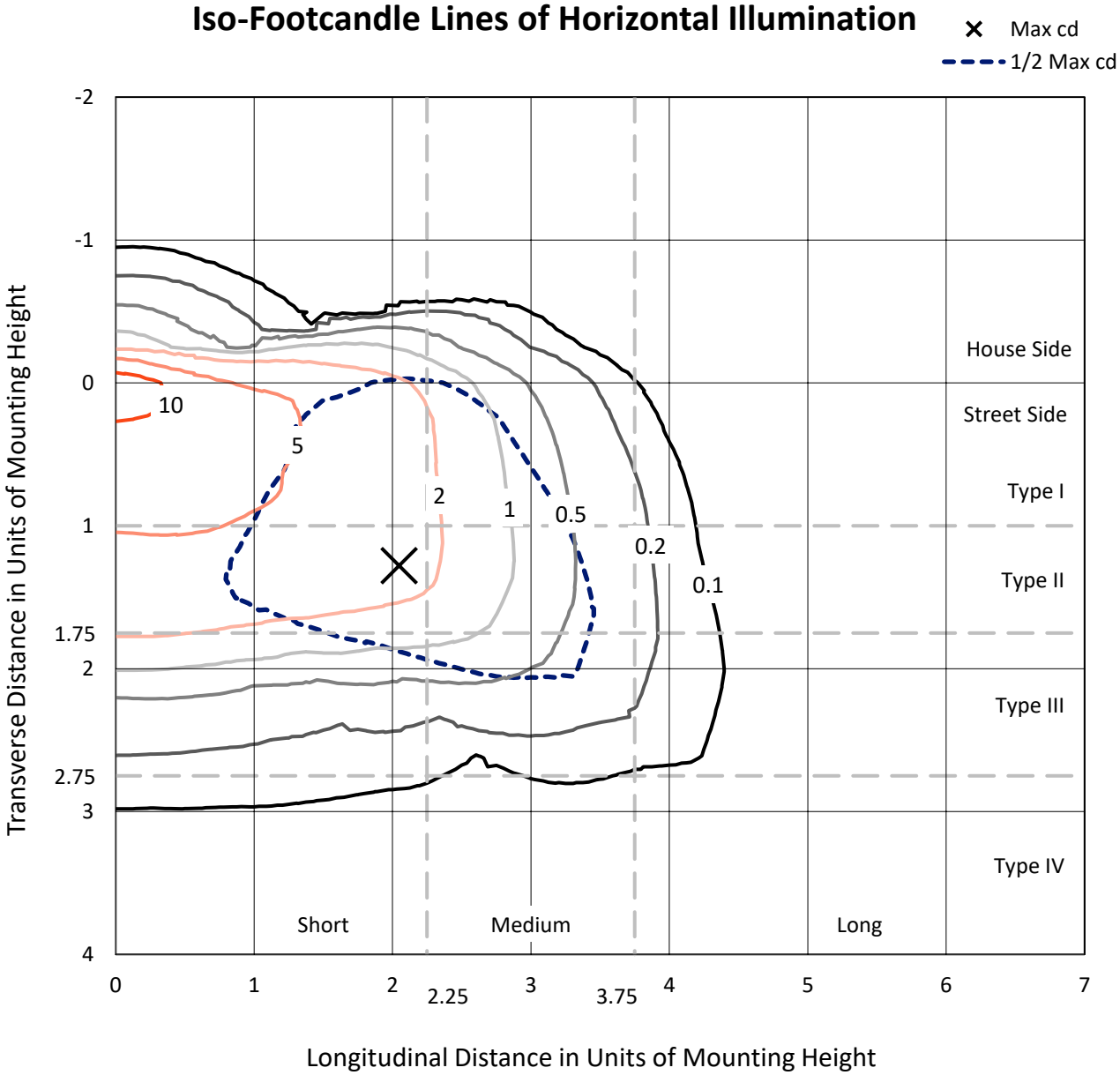
Scaled Data Report

REPORT NUMBER: P631050
CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
Type III - Short - N/A

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REPORT NUMBER: P631050
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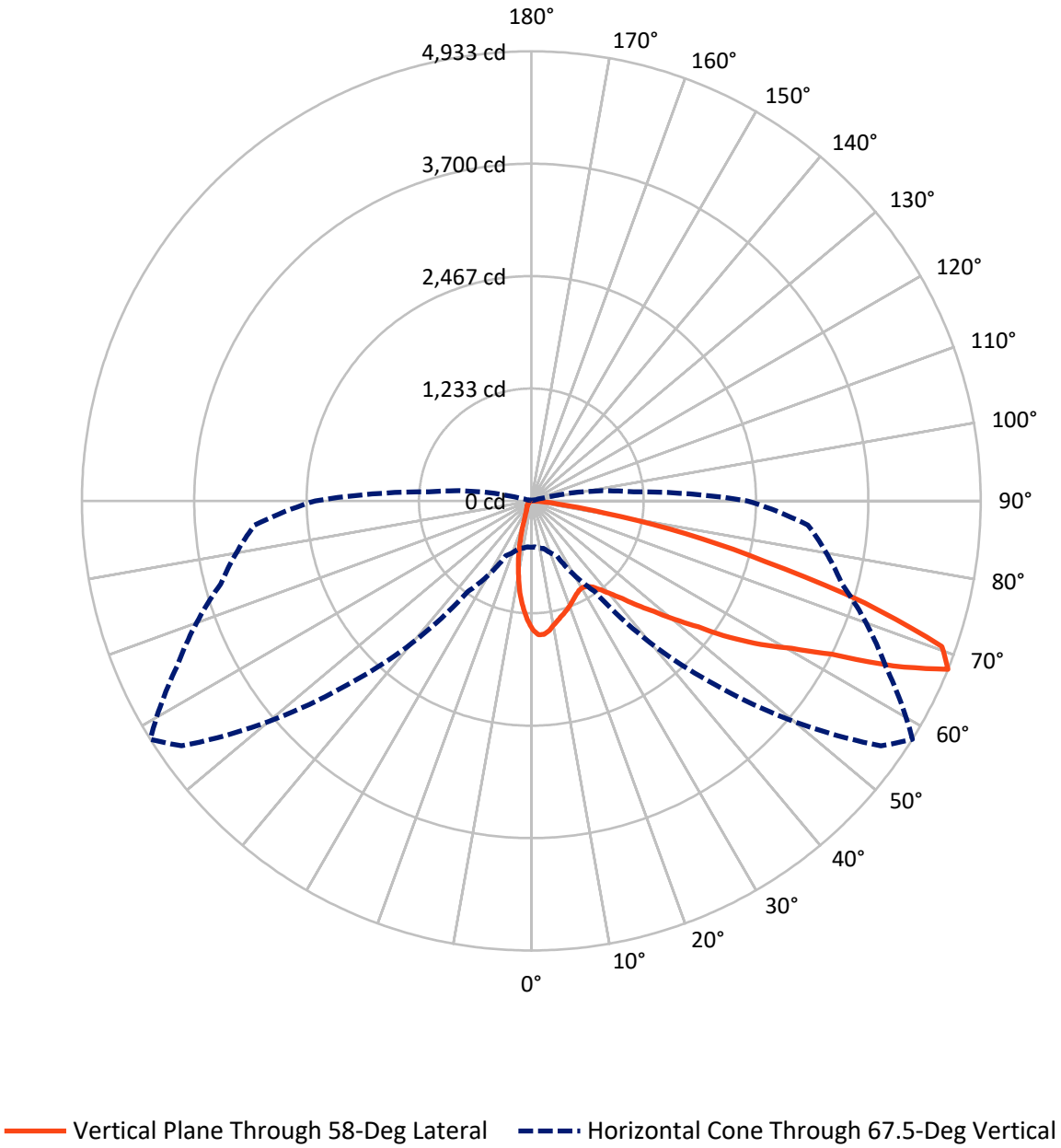
Luminous Intensity Polar Plot



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REPORT NUMBER: P631050
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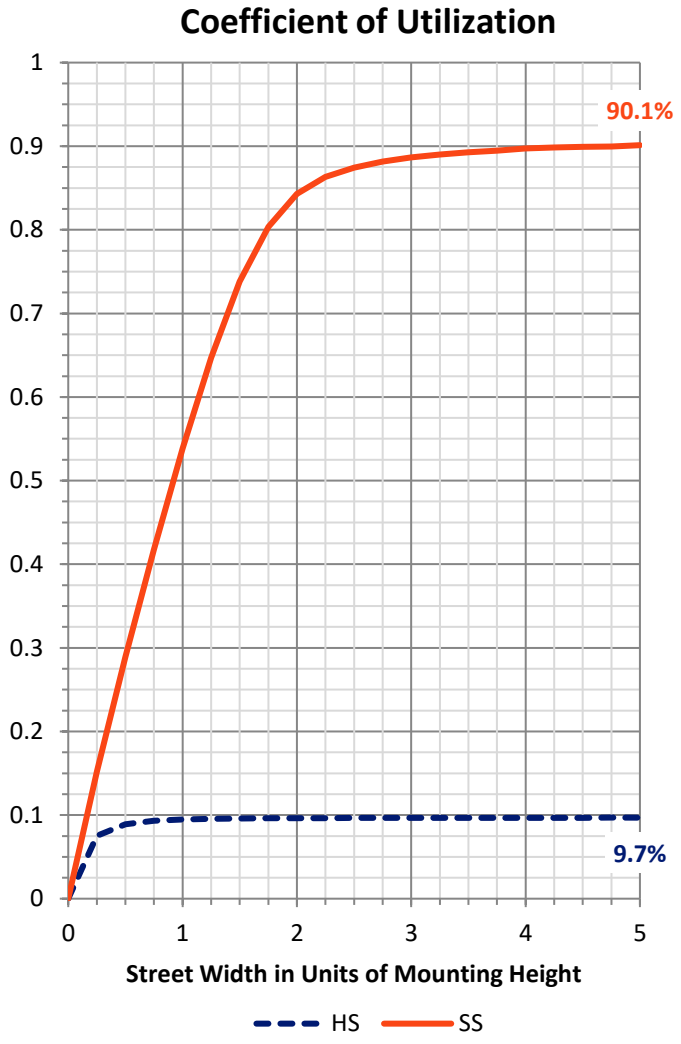
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.3	0.0	476.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4399.1	0.0	4399.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	4875.4	0.0	4875.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	2.3
10°-20°	237.9	4.9
20°-30°	320.8	6.6
30°-40°	450.8	9.2
40°-50°	696.2	14.3
50°-60°	1113.3	22.8
60°-70°	1318.2	27.0
70°-80°	583.2	12.0
80°-90°	40.8	0.8
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°	4875.4	100.0
0°-180°	4875.4	100.0



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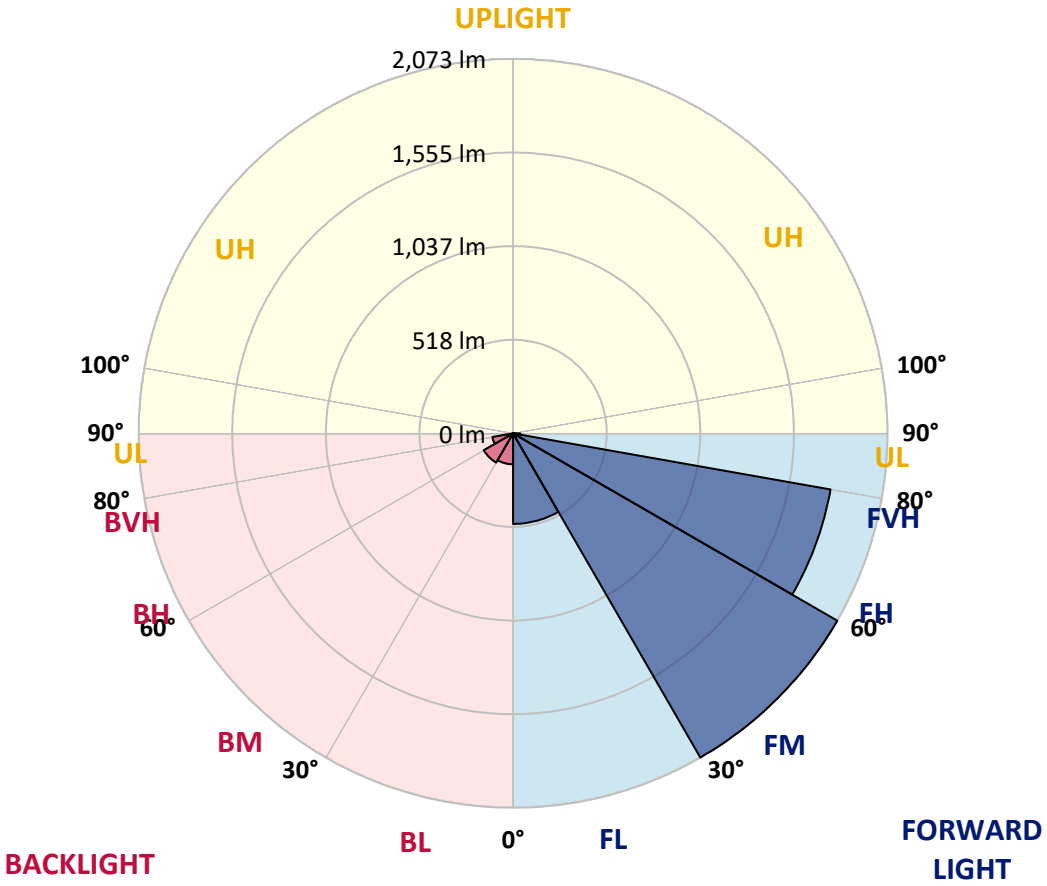
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	501.6	10.3			
FM	(30°-60°)	2073.4	42.5			
FH	(60°-80°)	1785.1	36.6			G1/1800
FVH	(80°-90°)	39.0	0.8			G1/100
BL	(0°-30°)	171.4	3.5	B1/500		
BM	(30°-60°)	186.9	3.8	B0/220		
BH	(60°-80°)	116.3	2.4	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			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 III Short



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Scaled Data Report

REPORT NUMBER: P631050
CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1479.2	1481.8	1485.3	1489.6	1488.7	1484.8	1480.1	1469.3	1462.4	1440.8	1414.5
5°	1431.8	1431.3	1440.0	1448.2	1462.8	1470.6	1481.4	1471.5	1468.0	1442.1	1399.4
7.5°	1339.0	1343.7	1353.6	1366.6	1387.7	1410.6	1436.5	1433.5	1443.8	1426.6	1373.5
10°	1247.9	1245.3	1260.9	1280.3	1312.7	1342.0	1379.5	1379.1	1406.3	1404.6	1344.2
12.5°	1168.1	1167.7	1179.8	1201.8	1239.7	1280.7	1331.6	1332.9	1366.6	1380.4	1319.1
15°	1100.8	1101.6	1113.3	1136.2	1175.4	1225.5	1284.6	1295.4	1333.4	1361.4	1294.5
17.5°	1052.9	1053.3	1060.2	1080.1	1118.5	1172.0	1243.2	1257.9	1306.6	1347.2	1274.7
20°	1030.9	1029.2	1030.4	1040.4	1070.1	1118.9	1200.9	1219.9	1282.0	1337.3	1256.6
22.5°	1033.9	1031.3	1025.3	1024.0	1037.4	1074.5	1156.0	1179.3	1255.3	1331.2	1240.2
25°	1060.7	1055.0	1046.4	1033.5	1028.3	1046.8	1116.8	1140.9	1230.2	1331.6	1227.6
27.5°	1101.6	1095.6	1084.8	1067.6	1047.3	1039.5	1090.0	1112.9	1212.5	1341.6	1221.6
30°	1153.9	1149.1	1138.8	1118.0	1090.9	1058.9	1084.4	1103.4	1203.9	1361.8	1224.2
32.5°	1215.6	1212.1	1203.5	1184.5	1153.4	1104.7	1103.4	1118.0	1210.8	1391.2	1234.1
35°	1275.1	1276.4	1276.8	1266.5	1233.3	1174.1	1155.6	1160.8	1239.3	1435.2	1256.6
37.5°	1339.4	1336.4	1351.9	1359.3	1327.3	1264.3	1236.3	1236.7	1293.7	1500.4	1298.8
40°	1388.2	1389.0	1422.7	1452.9	1439.5	1378.7	1338.5	1338.1	1377.4	1589.7	1367.0
42.5°	1433.9	1439.5	1489.1	1540.9	1559.5	1505.5	1476.6	1465.8	1494.8	1710.5	1469.3
45°	1482.7	1490.9	1560.3	1634.1	1682.9	1651.0	1628.1	1632.4	1635.9	1851.2	1606.9
47.5°	1539.6	1544.8	1630.7	1734.7	1825.7	1817.5	1818.8	1813.6	1811.9	2028.5	1789.0
50°	1608.7	1620.8	1719.6	1843.8	1968.1	2022.5	2040.6	2042.8	2014.7	2221.8	1977.6
52.5°	1755.4	1770.1	1854.6	1963.4	2123.5	2237.8	2311.6	2296.9	2253.8	2409.1	2184.3
55°	1928.4	1939.6	2021.2	2133.8	2313.3	2473.9	2649.0	2643.0	2537.3	2606.3	2354.3
57.5°	1944.8	1957.3	2083.8	2256.4	2557.1	2765.6	2949.8	2969.2	2814.3	2746.1	2506.2
60°	1760.6	1786.0	1958.6	2190.8	2650.3	3157.8	3279.5	3283.4	3017.6	2888.1	2691.8
62.5°	1411.0	1423.1	1597.0	1899.9	2506.6	3386.5	3783.1	3701.1	3278.6	3107.7	2985.6
65°	739.6	788.8	940.3	1275.5	2032.8	3306.7	4388.9	4366.5	3748.1	3422.3	3214.3
67.5°	507.5	507.0	542.8	665.0	1212.1	2847.1	4686.2	4933.0	4290.9	3530.2	3048.6
70°	386.2	387.5	419.4	498.8	627.8	1895.2	4360.0	4782.0	4391.9	3205.3	2465.7
72.5°	256.3	258.9	312.0	403.0	501.4	929.0	3388.2	3826.2	3695.5	2574.4	1735.5
75°	153.2	155.3	193.3	293.0	445.8	520.0	2152.8	2645.2	2543.8	1774.4	930.3
77.5°	63.0	64.7	99.2	182.5	326.2	403.9	1190.5	1730.8	1523.7	705.5	254.2
80°	26.3	27.2	47.9	127.7	235.2	253.3	551.5	813.4	624.4	151.9	77.7
82.5°	9.5	9.9	17.7	70.3	146.3	190.7	278.3	321.5	176.1	49.6	41.9
85°	0.4	0.4	4.3	23.7	55.7	53.9	159.2	154.0	58.3	20.7	25.0
87.5°	0.0	0.0	0.4	0.4	0.9	2.2	15.1	26.8	12.5	5.2	10.8
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: P631050
CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1397.2	1374.4	1349.3	1326.0	1288.9	1266.9	1239.7	1227.6	1210.4	1206.1	1208.7
5°	1368.8	1329.5	1269.5	1215.1	1144.8	1088.3	1031.3	1007.1	976.1	955.4	946.7
7.5°	1328.6	1277.3	1183.6	1084.8	988.2	885.0	806.5	754.7	707.7	681.8	676.6
10°	1288.1	1221.2	1087.0	945.4	795.7	672.3	566.1	487.6	423.7	394.8	372.4
12.5°	1246.2	1162.9	988.6	803.9	630.0	461.7	330.5	254.2	208.4	190.3	193.3
15°	1207.8	1106.8	891.1	662.4	443.6	278.8	182.5	154.0	143.3	139.8	139.4
17.5°	1171.1	1053.7	794.0	524.7	292.6	170.9	139.8	132.9	129.9	128.2	128.2
20°	1137.9	1002.8	699.0	395.3	189.0	135.5	126.4	123.0	120.4	119.1	119.1
22.5°	1106.8	953.6	606.3	279.6	139.4	121.7	116.1	112.6	109.6	107.9	107.9
25°	1078.8	909.2	517.8	192.5	120.0	111.3	105.3	101.4	96.2	93.2	93.2
27.5°	1058.5	869.5	432.8	140.2	108.3	100.1	93.2	88.0	82.4	79.0	78.1
30°	1046.4	835.8	346.9	115.2	97.5	89.3	81.6	75.1	68.6	65.2	64.7
32.5°	1039.5	804.8	268.4	100.5	88.5	79.0	70.3	63.4	57.0	53.1	52.6
35°	1042.1	780.6	201.1	90.6	79.8	69.9	60.4	53.5	47.9	44.4	43.6
37.5°	1064.5	769.8	151.0	82.9	72.5	62.1	52.2	45.7	40.6	38.0	37.5
40°	1108.1	772.0	118.7	76.8	66.5	54.4	44.9	38.8	35.0	32.8	32.4
42.5°	1175.9	790.1	98.0	71.6	60.0	47.5	38.8	34.1	30.2	28.0	27.6
45°	1276.8	827.6	85.4	65.6	53.1	41.0	33.7	29.3	25.9	23.3	22.9
47.5°	1423.1	892.8	77.2	60.0	47.0	35.4	28.9	24.6	21.6	19.4	19.0
50°	1578.9	970.9	70.3	54.4	41.9	30.6	24.6	20.3	17.7	15.5	15.1
52.5°	1745.0	1055.0	65.2	49.2	37.1	26.3	20.7	16.8	14.2	12.1	11.7
55°	1904.7	1139.6	59.1	45.7	31.5	22.4	17.3	13.8	11.2	9.5	9.5
57.5°	2060.0	1217.3	52.6	40.1	25.9	19.0	14.2	11.2	9.1	7.8	7.3
60°	2245.6	1324.7	45.3	34.1	21.6	16.0	11.7	9.1	7.3	6.0	6.0
62.5°	2521.3	1436.5	38.8	28.5	18.1	13.4	9.5	7.3	6.0	5.2	4.7
65°	2611.5	1376.1	32.8	23.3	14.7	10.8	7.8	6.5	5.2	4.7	4.3
67.5°	*2370.7*	*1128.0*	*27.2*	*19.0*	*12.1*	*9.1*	*6.9*	*5.6*	*4.7*	*4.3*	*3.9*
70°	1849.9	800.5	21.1	14.2	9.9	7.3	6.0	5.2	4.3	3.9	3.9
72.5°	1258.3	473.4	16.8	10.8	8.2	6.5	5.2	4.7	4.3	3.9	3.5
75°	619.6	168.3	12.9	8.2	6.5	5.6	4.7	4.3	3.9	3.5	3.5
77.5°	167.0	46.6	9.9	6.5	5.2	4.3	4.3	4.3	3.9	3.0	3.0
80°	56.5	19.4	7.3	4.7	4.3	3.5	3.0	3.9	3.5	3.0	2.6
82.5°	31.1	9.5	5.2	3.9	3.0	2.6	2.6	2.6	2.6	2.2	2.2
85°	19.8	5.2	3.5	3.0	3.0	2.2	1.7	1.7	1.3	1.3	1.3
87.5°	9.1	3.0	3.0	2.6	2.6	2.2	1.3	0.9	0.4	0.4	0.4
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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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

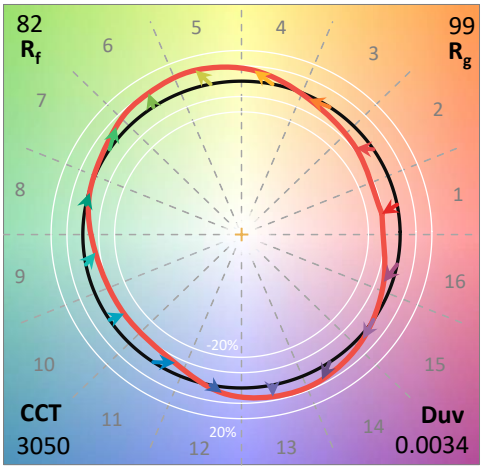
Test Information

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

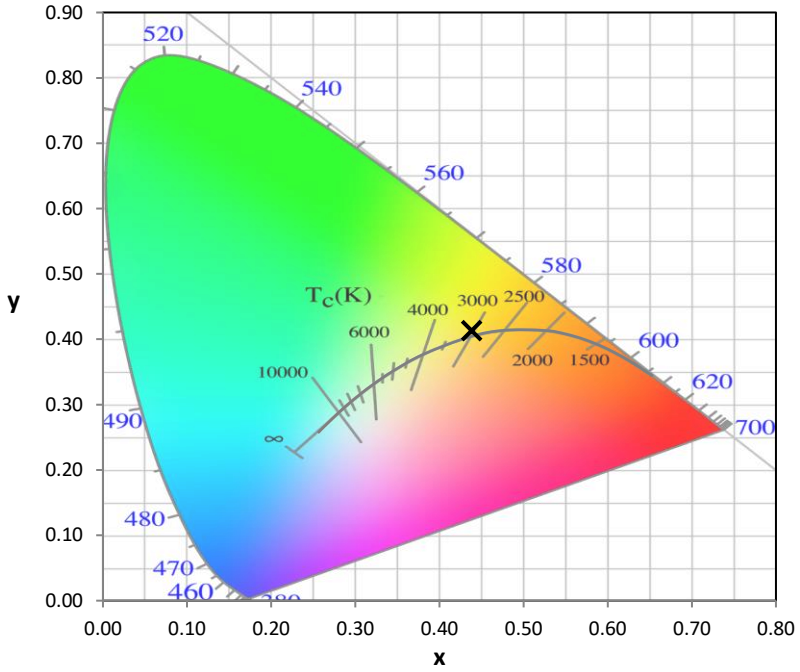
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

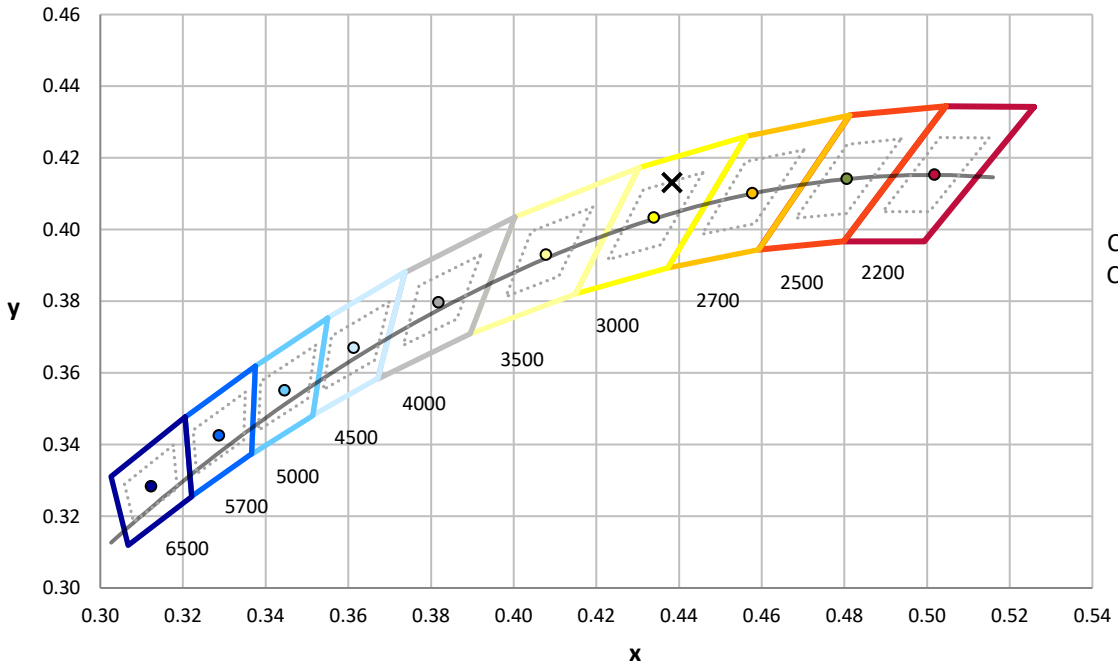
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

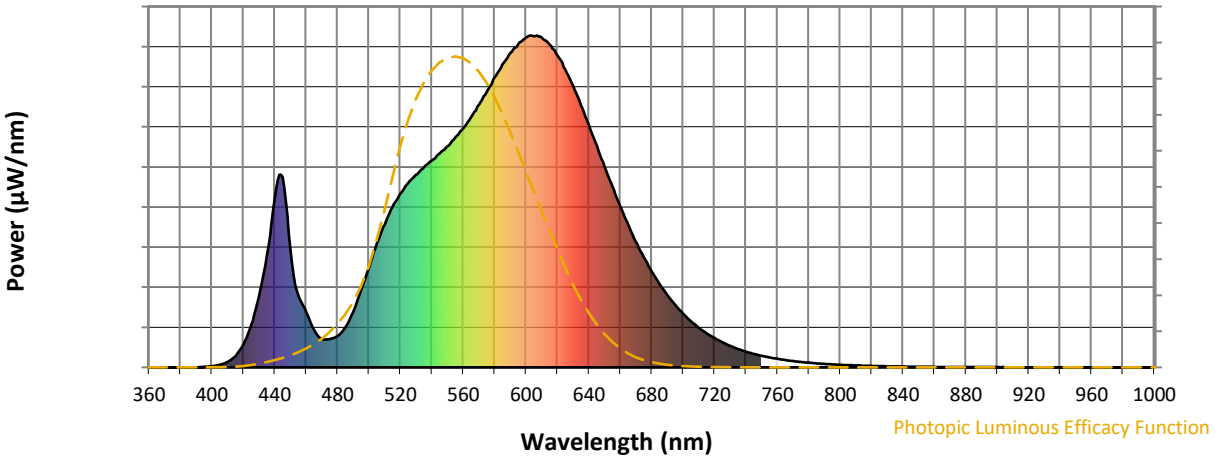


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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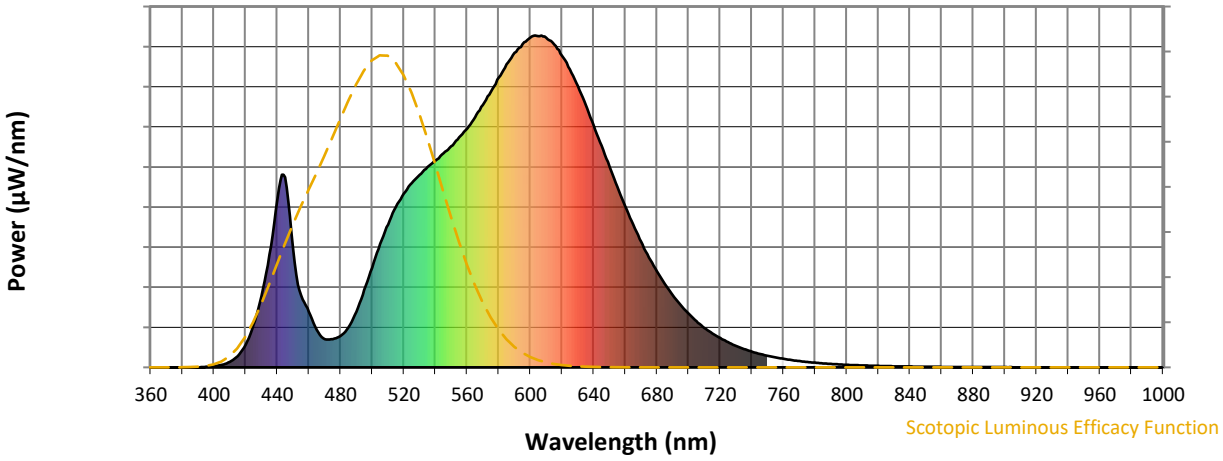
Scotopic Flux vs. Wavelength



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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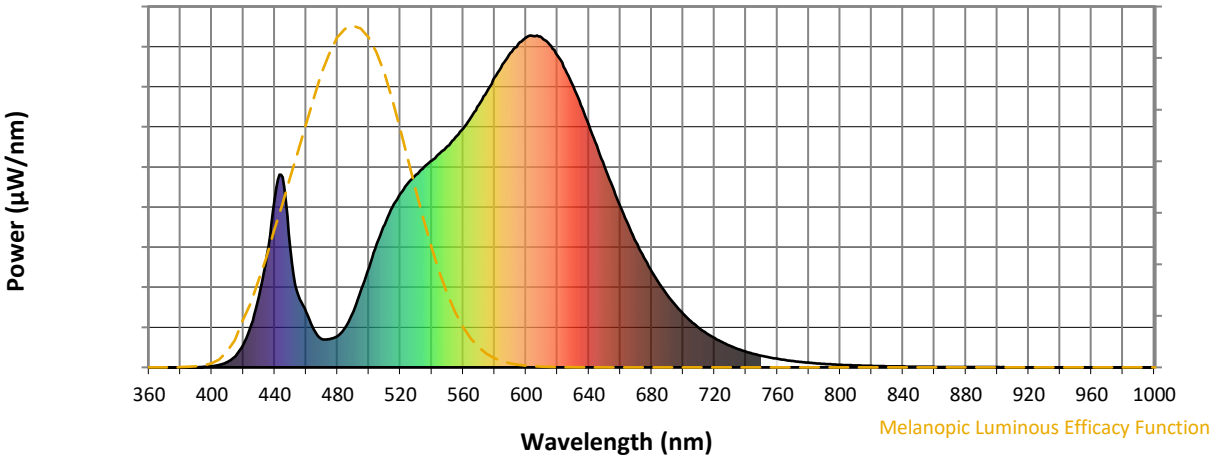
Melanopic Flux vs. Wavelength



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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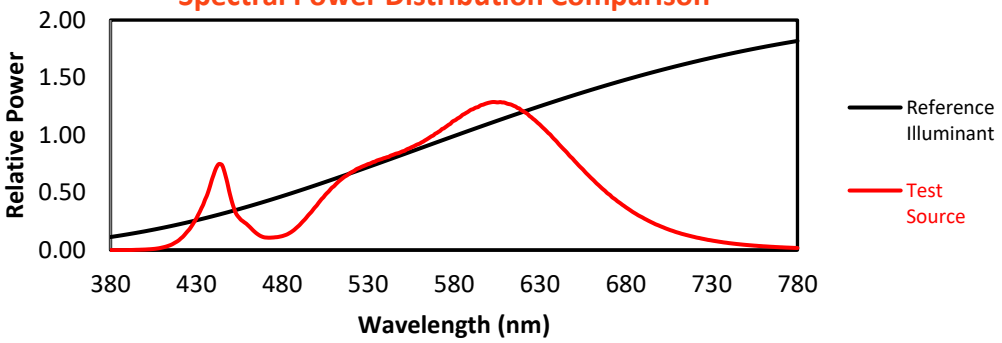
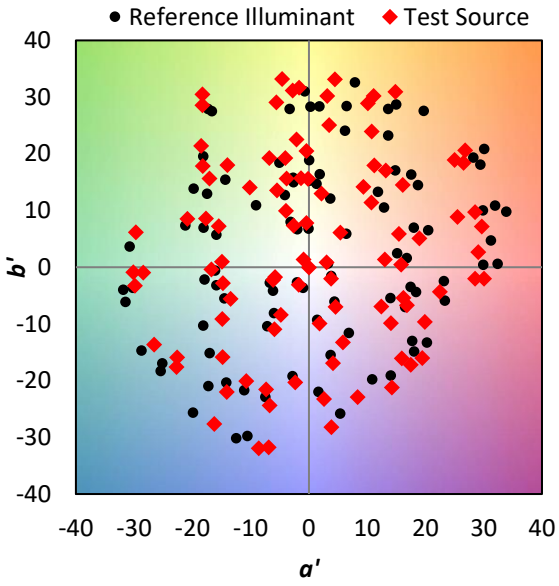
Summary

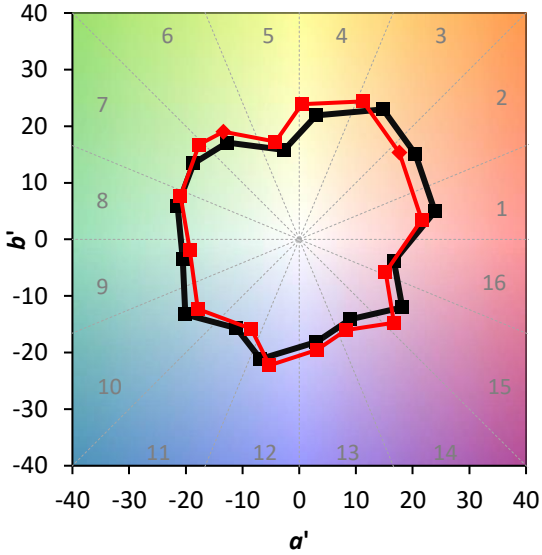
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

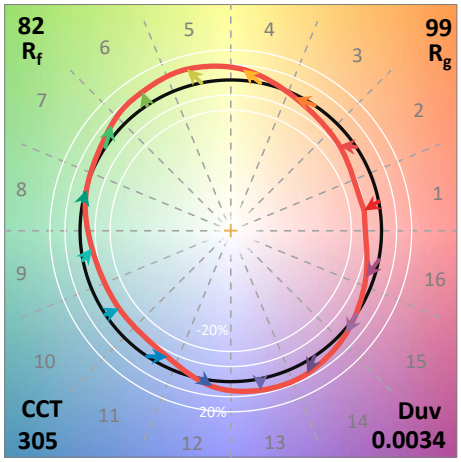
Spectral Power Distribution Comparison

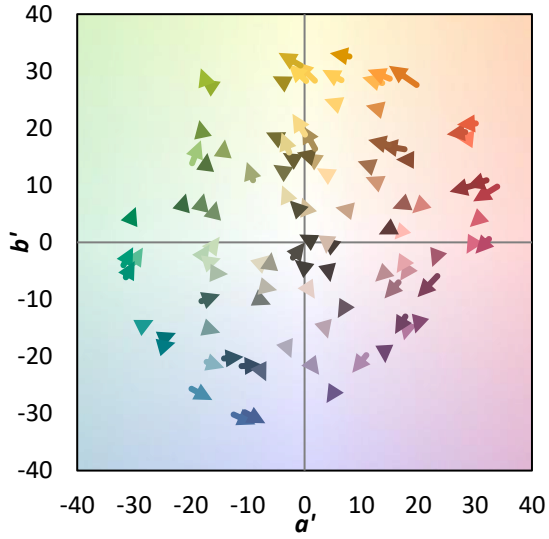


Color Vector Graphics









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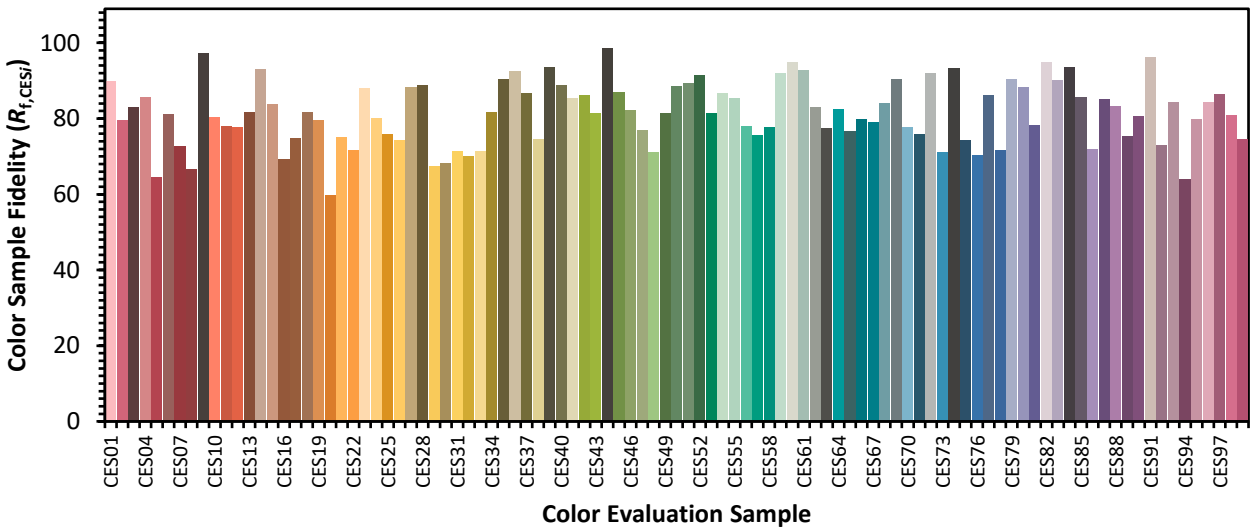
Individual Sample Fidelity Index ($R_{f,i}$)

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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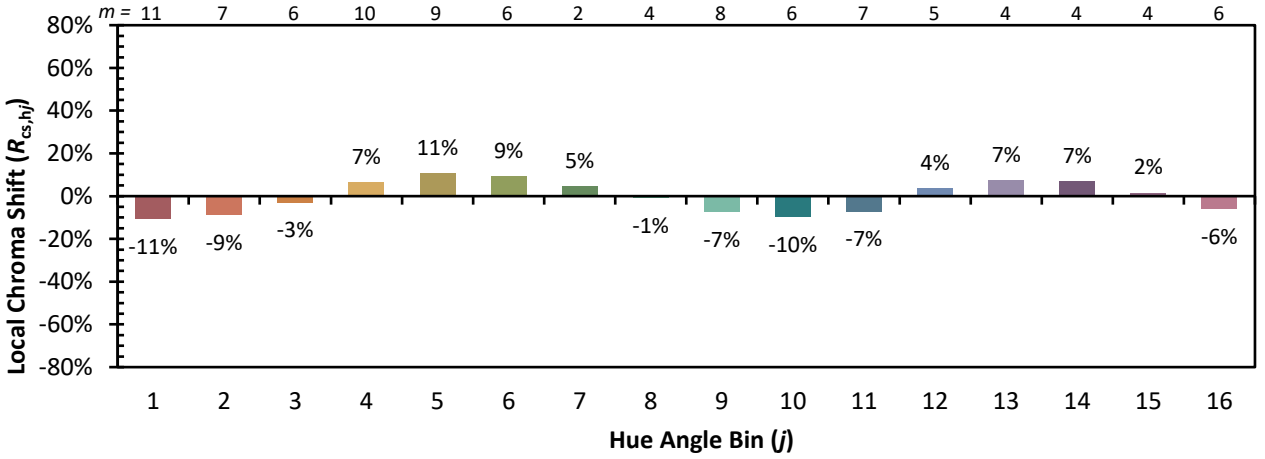
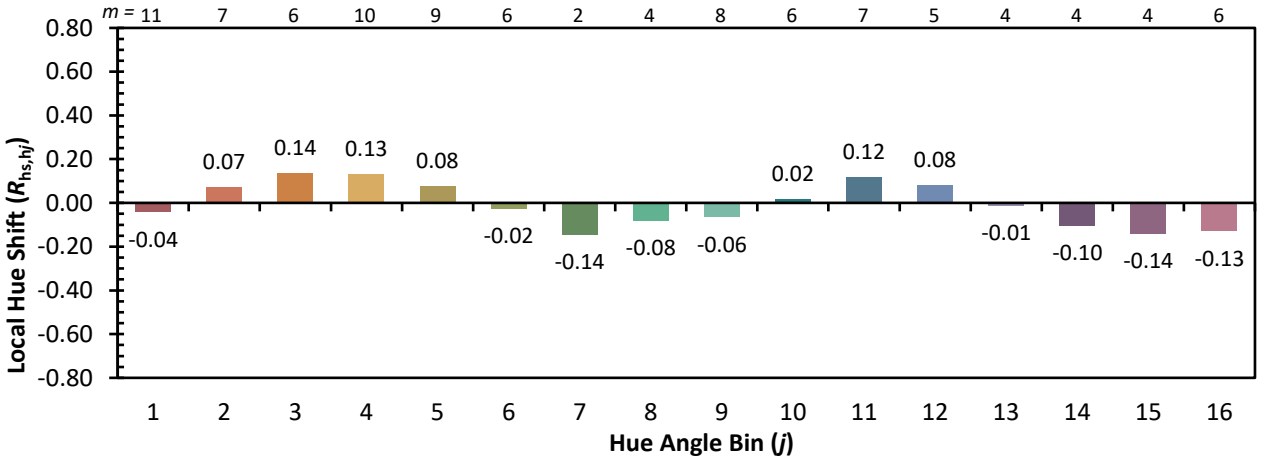
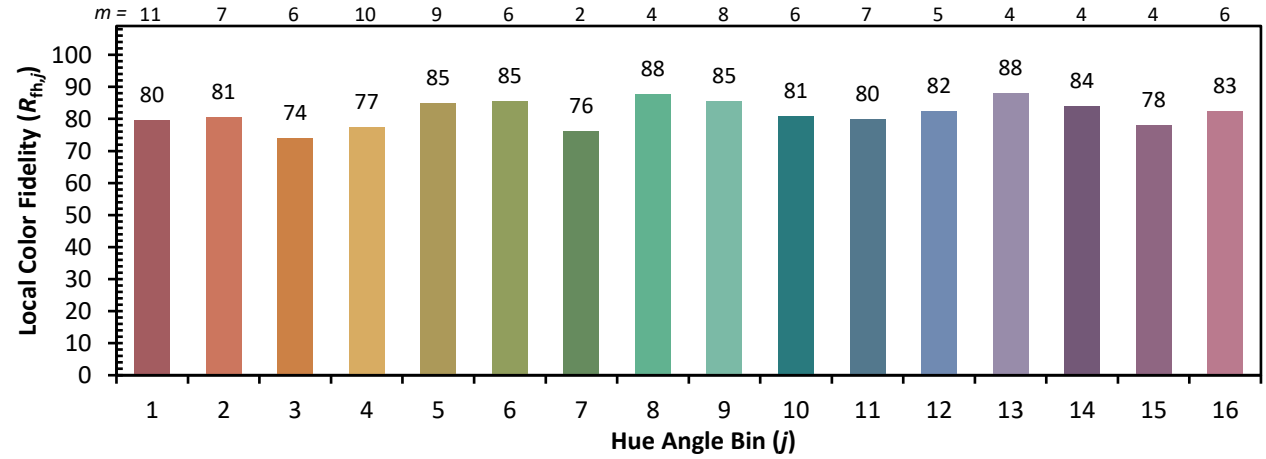
Color Rendition by Hue-Angle Bin







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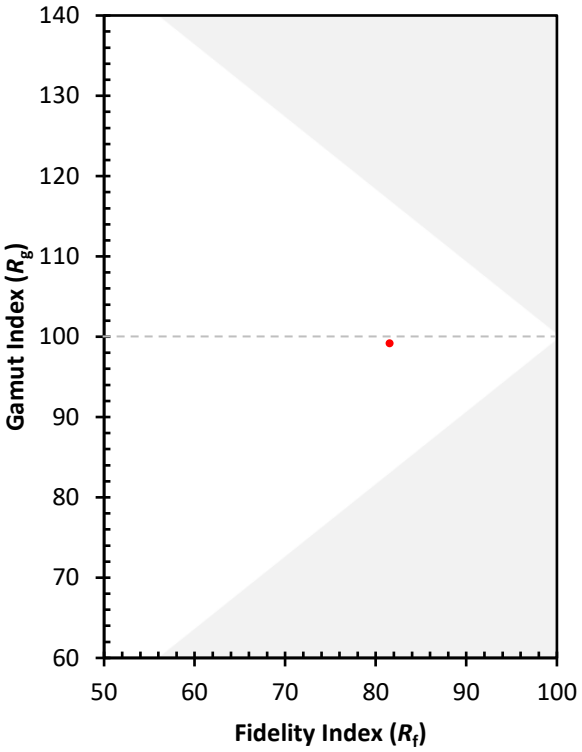
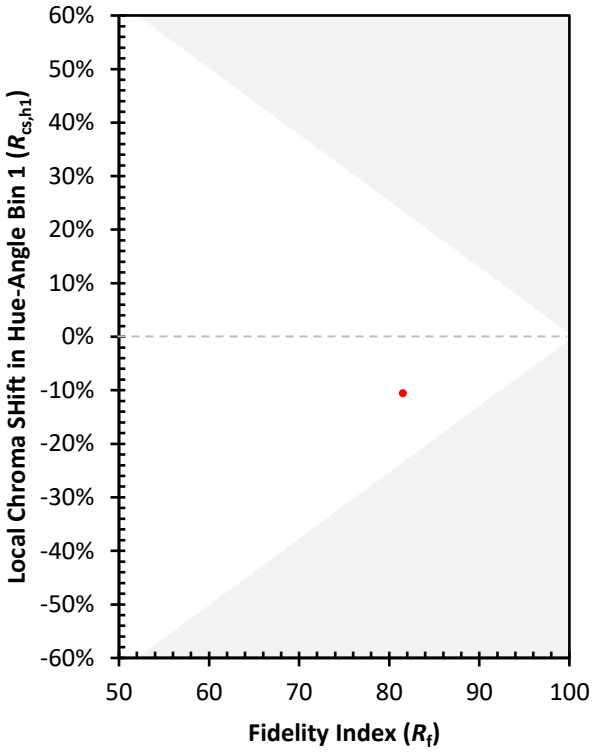
Measure Comparisons





(END OF REPORT)