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: P631048

Luminaire Tested: GWS-SA1E-830-U-SL3-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:	P631048
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
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-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3520.8 lumens
Efficiency:	N/A
Efficacy:	60.3 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):	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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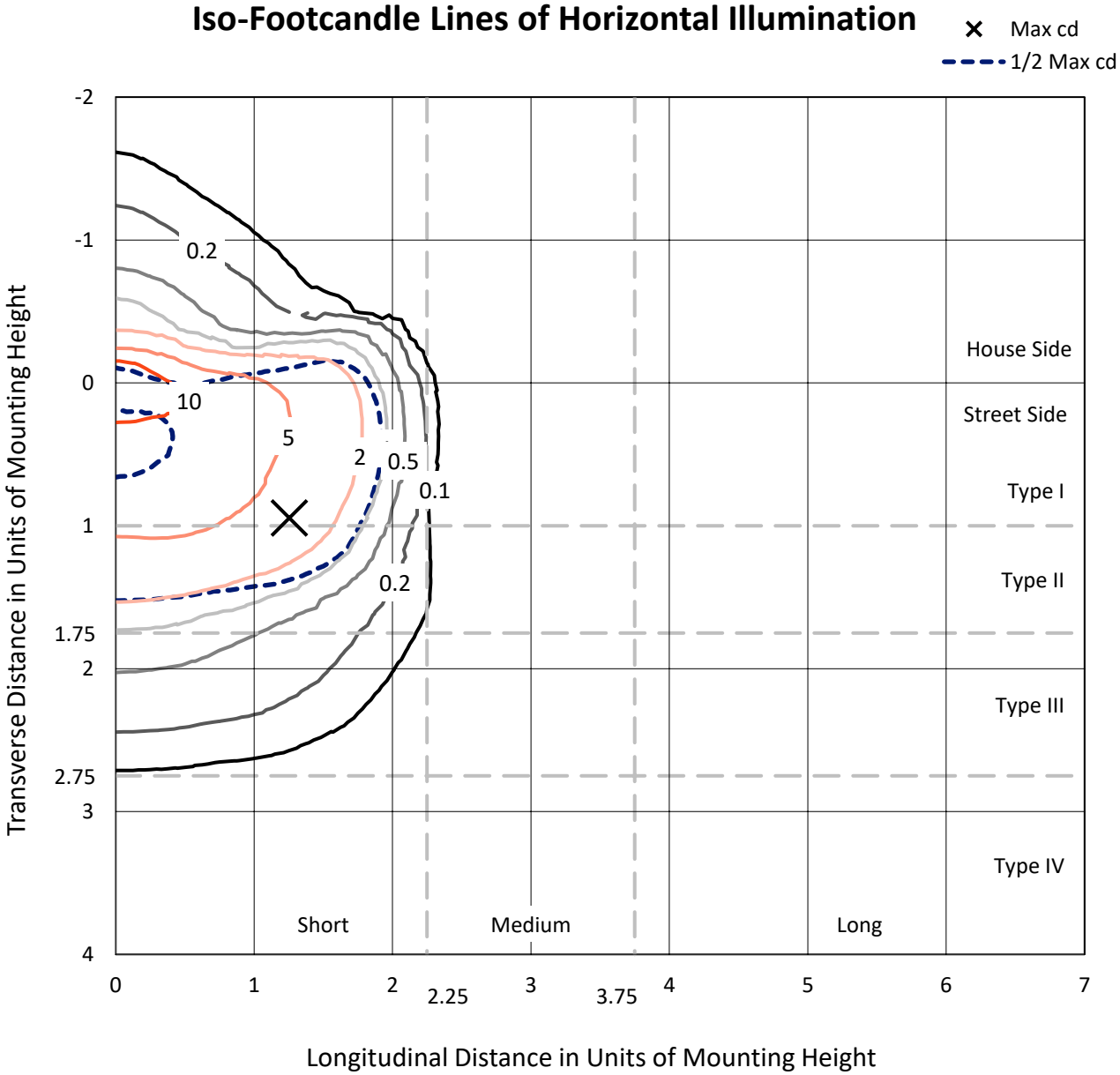
Scaled Data Report

REPORT NUMBER: P631048
CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
Type II - Short - N/A

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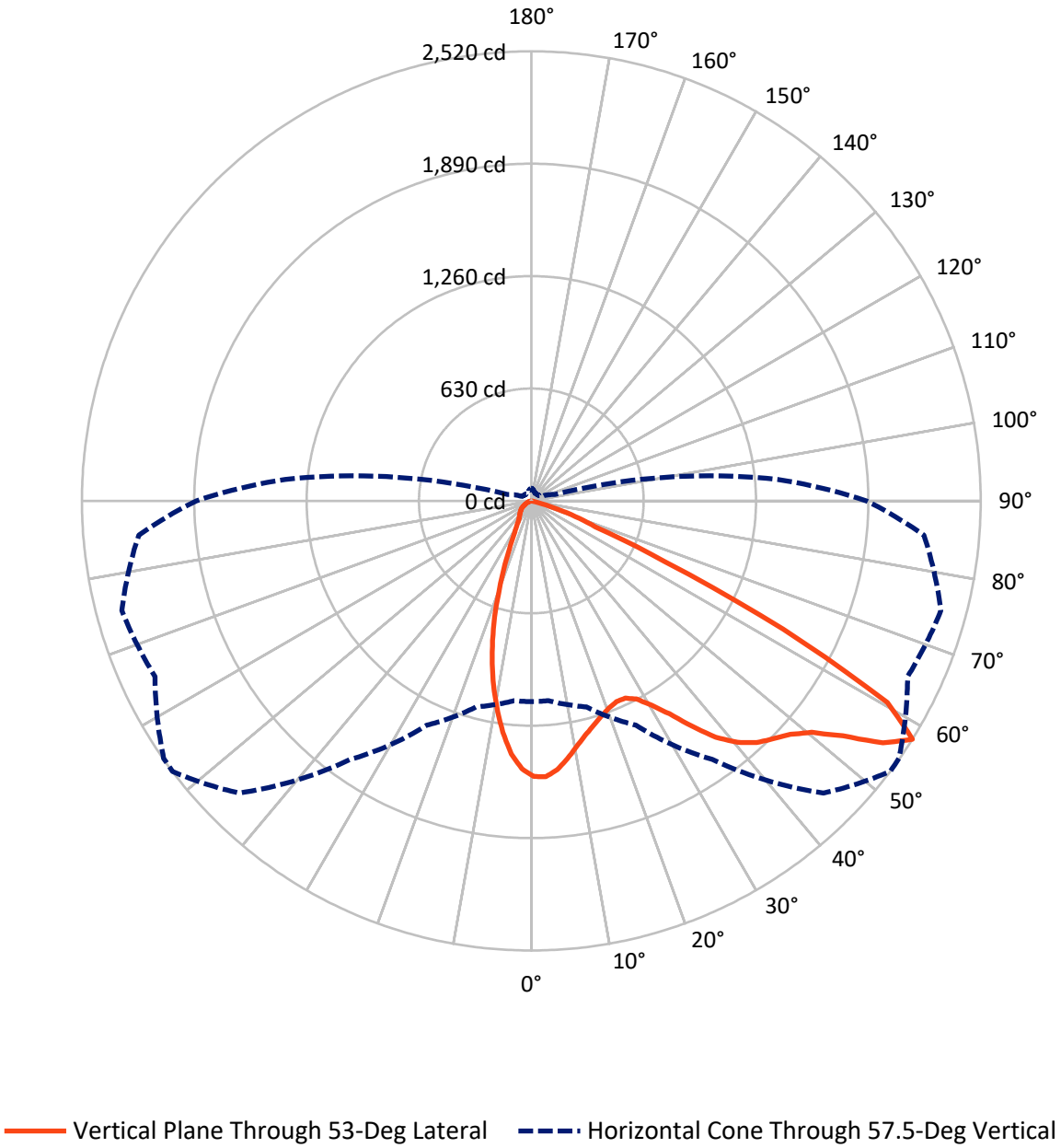
Luminous Intensity Polar Plot



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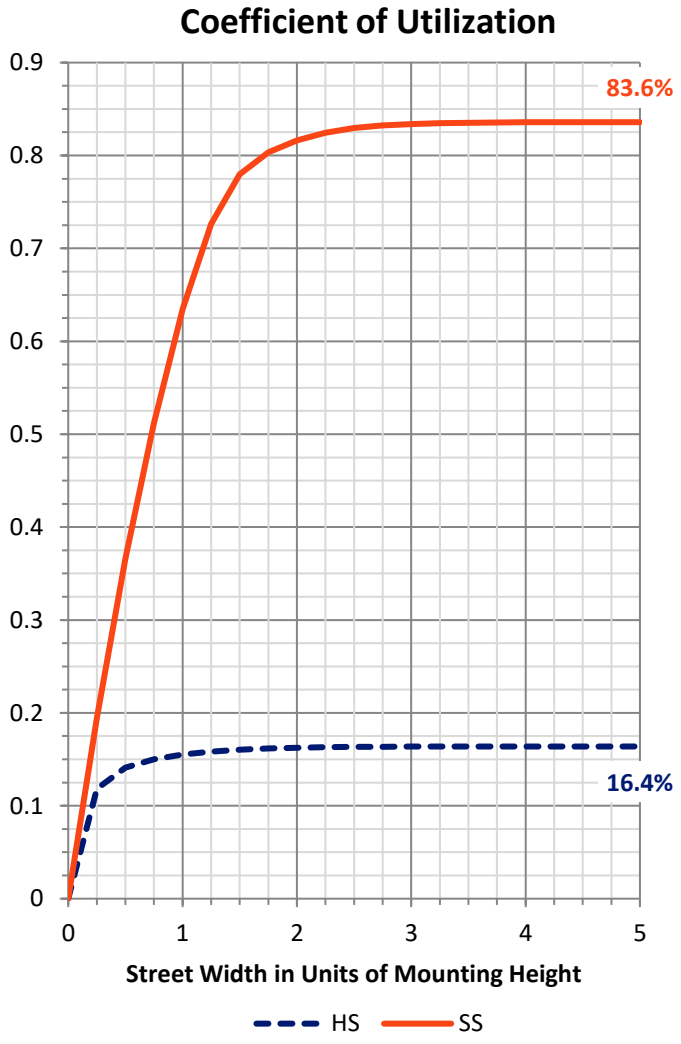
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.6	0.0	581.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2939.2	0.0	2939.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	3520.8	0.0	3520.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.8
10°-20°	290.1	8.2
20°-30°	377.9	10.7
30°-40°	548.2	15.6
40°-50°	791.0	22.5
50°-60°	956.6	27.2
60°-70°	389.9	11.1
70°-80°	35.0	1.0
80°-90°	0.0	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°	3520.8	100.0
0°-180°	3520.8	100.0



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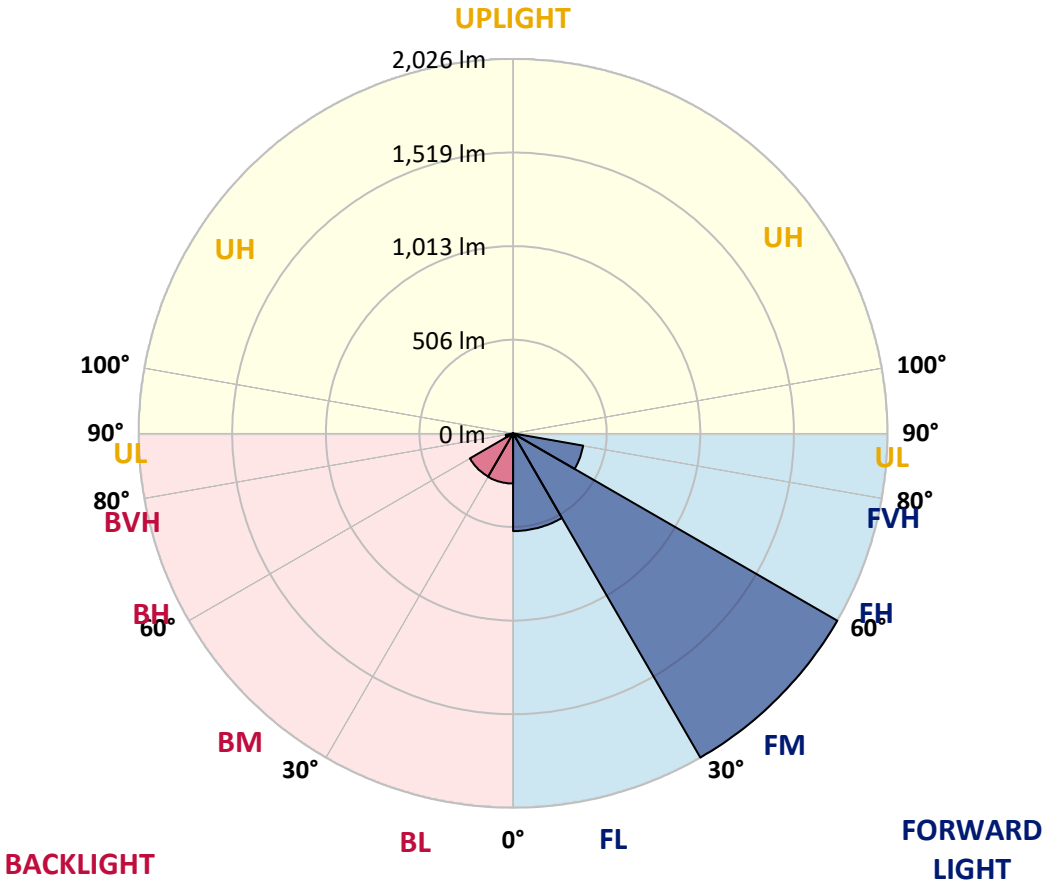
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	528.7	15.0			
FM	(30°-60°)	2025.8	57.5			
FH	(60°-80°)	384.7	10.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	271.4	7.7	B1/500		
BM	(30°-60°)	269.9	7.7	B1/1000		
BH	(60°-80°)	40.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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REPORT NUMBER: P631048
CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	*1544.4*	1544.4	1544.4	1544.4	1544.4
2.5°	1522.8	1526.3	1532.3	1540.1	1545.3	1547.9	*1547.9*	1555.2	1550.5	1546.6	1542.3
5°	1457.7	1461.1	1469.3	1481.9	1494.4	1503.4	*1513.8*	1521.6	1524.6	1524.6	1517.2
7.5°	1365.8	1370.5	1375.7	1393.0	1420.1	1440.4	*1458.1*	1469.3	1485.7	1490.9	1480.6
10°	1267.0	1271.7	1283.4	1307.1	1338.2	1368.4	*1398.6*	1412.8	1440.9	1455.5	1443.9
12.5°	1183.2	1185.4	1200.9	1229.4	1269.1	1310.5	*1347.2*	1361.9	1401.6	1423.6	1409.8
15°	1114.2	1115.5	1131.0	1162.5	1208.3	1259.2	*1305.4*	1320.5	1369.2	1402.5	1381.7
17.5°	1062.0	1062.4	1075.8	1109.9	1157.8	1214.3	*1269.1*	1287.7	1350.7	1390.8	1359.7
20°	1035.7	1034.4	1043.9	1073.6	1118.9	1175.5	*1240.2*	1263.1	1340.3	1389.1	1342.9
22.5°	1036.1	1033.1	1037.0	1058.1	1096.5	1149.6	*1222.1*	1248.0	1341.2	1396.4	1328.7
25°	1060.7	1056.4	1057.2	1068.5	1095.6	1144.0	*1224.7*	1252.3	1358.4	1421.0	1323.5
27.5°	1102.1	1097.4	1097.4	1103.0	1117.6	1161.7	*1257.0*	1288.5	1404.6	1468.9	1334.3
30°	1155.6	1150.9	1149.1	1154.8	1166.8	1207.4	*1329.1*	1361.9	1483.6	1547.4	1368.8
32.5°	1216.9	1211.3	1214.3	1222.1	1233.7	1289.8	*1421.9*	1465.5	1582.4	1653.2	1430.9
35°	1281.6	1276.9	1290.7	1307.5	1325.6	1404.2	*1550.0*	1588.0	1703.7	1784.8	1525.9
37.5°	1343.3	1341.2	1370.1	1405.5	1443.0	1541.4	*1680.4*	1709.7	1807.7	1928.0	1641.9
40°	1405.0	1404.6	1454.2	1516.4	1576.4	1678.2	*1779.2*	1803.3	1871.1	2039.4	1753.3
42.5°	1474.1	1474.1	1542.7	1625.6	1705.4	1793.8	*1851.7*	1862.5	1899.6	2103.7	1837.0
45°	1540.1	1544.0	1623.4	1719.6	1814.1	1884.0	*1901.7*	1902.6	1911.2	2141.7	1906.5
47.5°	1592.3	1595.8	1690.7	1801.6	1903.5	1952.6	*1955.2*	1951.4	1941.9	2177.9	1960.0
50°	1634.6	1639.8	1739.0	1856.4	1964.7	2018.7	*2038.5*	2034.6	2010.5	2216.7	1997.5
52.5°	1655.3	1662.7	1755.9	1883.6	2032.9	2131.7	*2187.0*	2196.0	2113.2	2238.3	2033.3
55°	1489.6	1500.4	1586.3	1761.0	2070.9	2306.5	*2393.2*	2391.5	2224.5	2302.6	2120.5
57.5°	*1125.0*	*1124.1*	*1195.3*	*1386.5*	*1768.8*	*2316.4*	*2520.1*	*2516.6*	*2328.5*	*2377.3*	*2209.8*
60°	766.0	760.8	779.8	872.1	1236.7	1887.1	*2293.5*	2340.2	2254.7	2196.0	1876.3
62.5°	630.5	625.7	619.7	594.2	710.3	1175.5	*1584.6*	1655.3	1644.1	1526.3	1176.8
65°	516.1	520.0	536.8	526.0	494.1	602.8	*822.5*	864.3	790.1	665.0	411.2
67.5°	380.6	382.3	404.3	461.3	444.0	401.3	*387.1*	394.0	230.9	106.2	68.6
70°	224.8	226.1	246.4	322.8	360.3	308.1	*261.5*	257.6	91.5	28.5	31.1
72.5°	127.3	124.7	128.6	153.6	196.3	163.5	*134.6*	122.6	27.6	16.0	16.0
75°	60.4	58.7	50.5	47.5	43.2	27.6	*17.3*	14.7	6.9	6.5	6.5
77.5°	0.4	1.3	0.9	1.3	1.3	0.9	*0.4*	0.4	1.3	1.3	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: GWS-SA1E-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1534.5	1521.6	1518.5	1517.7	1505.6	1492.6	1479.3	1474.1	1466.3	1461.6	1465.5
5°	1505.6	1487.0	1470.6	1455.5	1428.8	1399.4	1374.0	1357.6	1342.0	1331.7	1334.3
7.5°	1464.6	1440.4	1402.9	1364.5	1315.3	1271.3	1222.1	1191.9	1163.8	1148.3	1155.6
10°	1421.0	1389.1	1329.1	1263.9	1186.7	1117.6	1047.3	989.9	956.7	925.2	928.6
12.5°	1378.3	1336.0	1246.2	1147.4	1049.9	948.1	841.9	762.5	708.1	668.9	662.8
15°	1338.6	1284.2	1165.5	1035.2	902.3	766.8	631.3	517.8	454.8	416.0	413.4
17.5°	1303.2	1235.9	1081.8	917.9	751.3	577.8	422.0	337.0	300.8	283.9	282.2
20°	1269.1	1187.1	996.4	798.8	586.4	405.6	291.3	252.0	240.4	233.5	234.3
22.5°	1236.3	1134.0	906.6	666.7	439.7	284.8	225.7	210.6	209.3	210.2	210.6
25°	1208.7	1085.3	814.3	539.4	313.7	217.1	188.6	184.3	188.1	193.8	194.6
27.5°	1194.5	1045.6	724.1	411.2	227.0	176.5	163.5	165.3	172.2	178.2	179.1
30°	1198.3	1015.8	630.9	298.2	174.8	148.9	144.6	148.0	154.9	160.5	161.4
32.5°	1226.0	1000.7	535.5	217.1	143.7	129.9	128.2	130.8	136.8	141.1	141.5
35°	1280.8	1004.2	444.9	166.1	123.4	115.6	115.2	116.9	120.0	123.0	123.4
37.5°	1361.5	1032.2	355.6	138.1	111.8	106.2	104.4	104.4	106.6	107.9	108.7
40°	1448.2	1074.5	284.8	122.1	103.6	97.5	94.1	92.8	94.5	96.2	96.7
42.5°	1519.8	1116.8	231.3	110.9	97.1	88.9	84.6	83.7	85.9	88.9	89.8
45°	1574.6	1149.6	192.9	101.8	89.8	80.7	75.9	75.9	79.8	85.0	85.9
47.5°	1624.7	1175.9	164.4	93.6	82.9	73.4	68.6	69.5	75.9	82.9	84.1
50°	1658.8	1197.0	143.3	86.3	77.2	67.3	63.0	64.7	72.5	80.7	82.0
52.5°	1695.5	1222.9	129.5	79.8	72.1	62.6	58.7	60.0	68.6	77.7	79.4
55°	1796.9	1309.7	129.0	71.2	63.0	56.1	54.4	54.8	63.4	73.8	75.9
57.5°	*1879.7*	*1386.1*	*137.7*	*60.0*	*52.6*	*49.2*	*48.3*	*48.8*	*56.5*	*68.2*	*70.8*
60°	1555.2	1077.1	113.9	49.6	44.0	43.2	41.9	42.7	50.1	60.4	62.6
62.5°	920.4	615.8	54.4	38.0	37.5	36.7	35.4	37.1	44.0	53.1	54.4
65°	314.6	182.5	34.5	31.1	31.9	30.6	29.3	31.1	37.1	42.3	42.7
67.5°	60.4	48.3	27.6	25.9	26.3	23.7	23.3	25.0	28.5	29.3	28.9
70°	31.5	28.0	21.1	21.1	20.3	16.8	16.8	18.6	18.6	17.3	16.8
72.5°	16.4	15.5	13.8	15.5	12.9	10.4	10.4	11.2	10.4	8.6	8.6
75°	6.5	6.5	6.0	7.8	5.6	4.7	4.3	5.2	3.9	3.0	3.0
77.5°	1.7	1.7	1.7	2.2	1.3	1.3	0.9	0.9	0.4	0.0	0.0
80°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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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

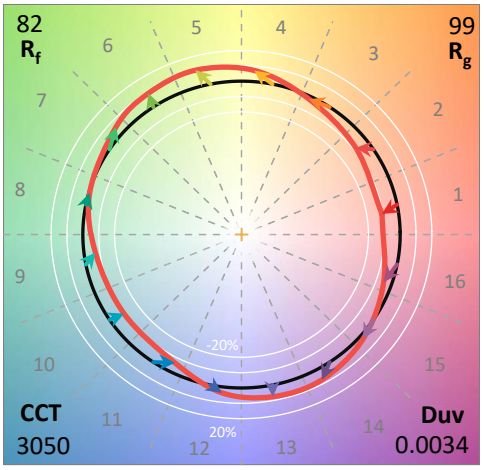
Test Information

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

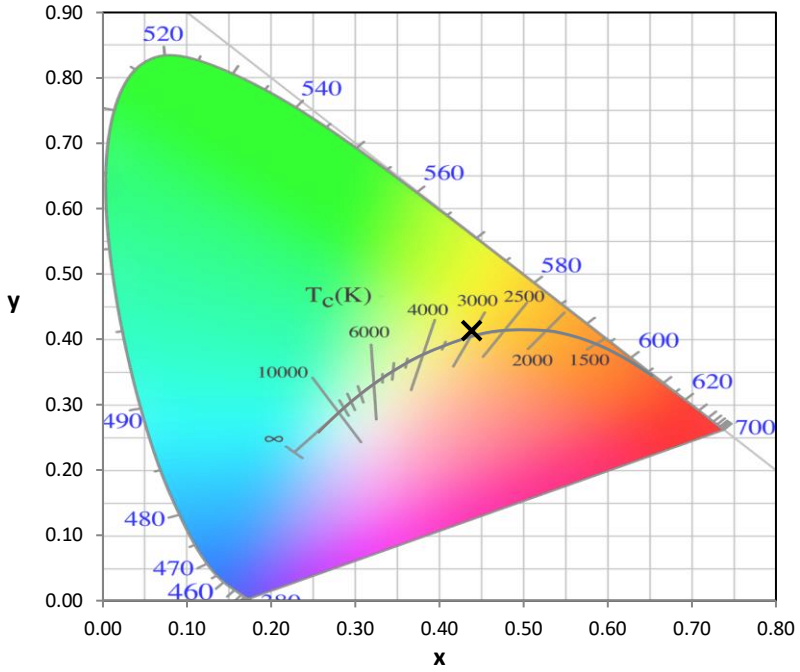
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

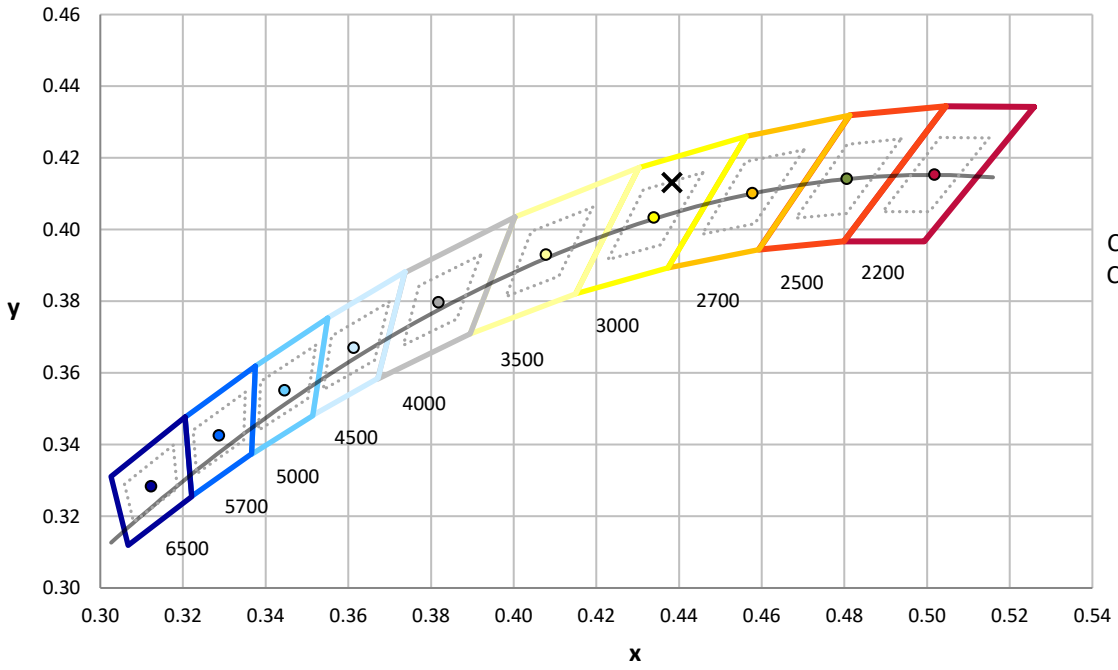
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

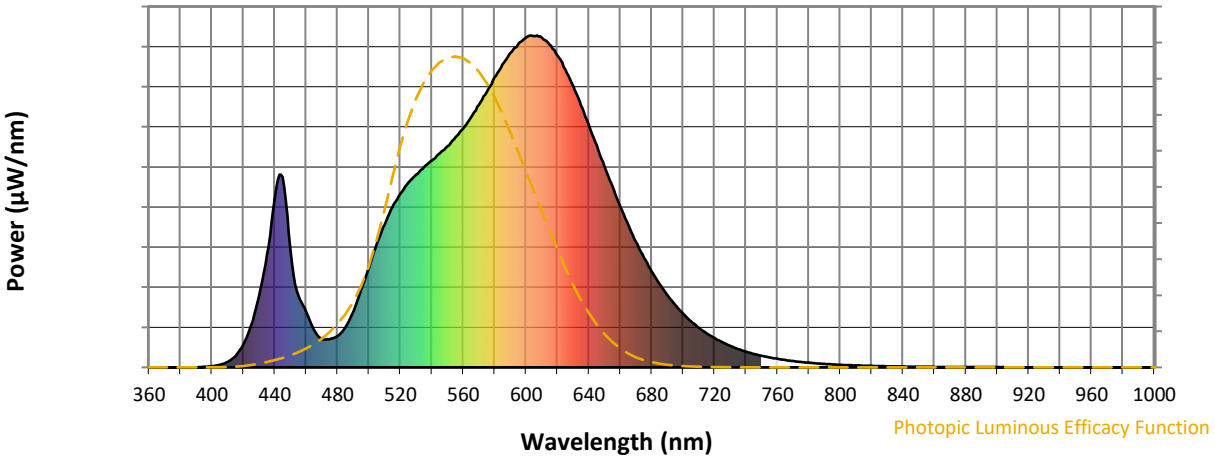


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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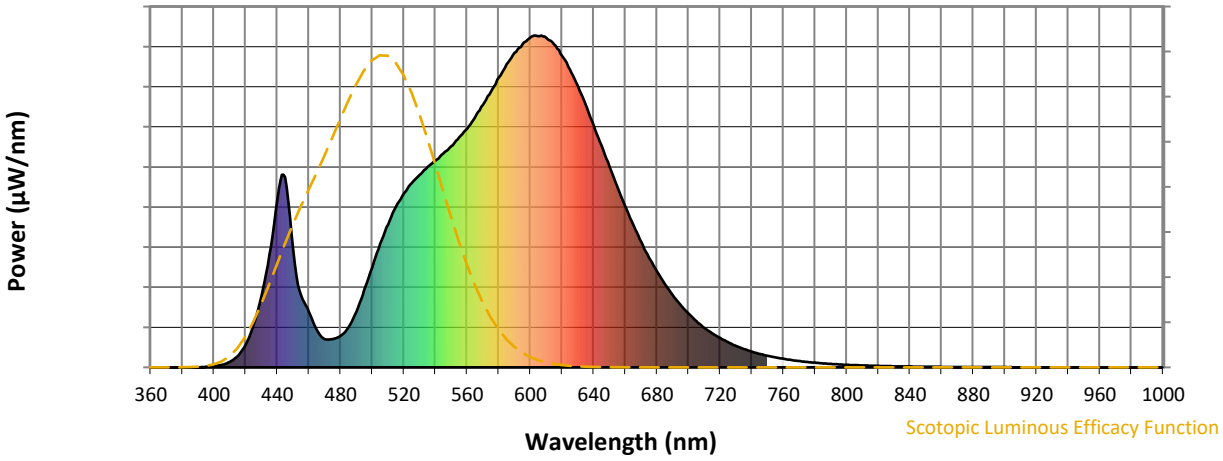
Scotopic Flux vs. Wavelength



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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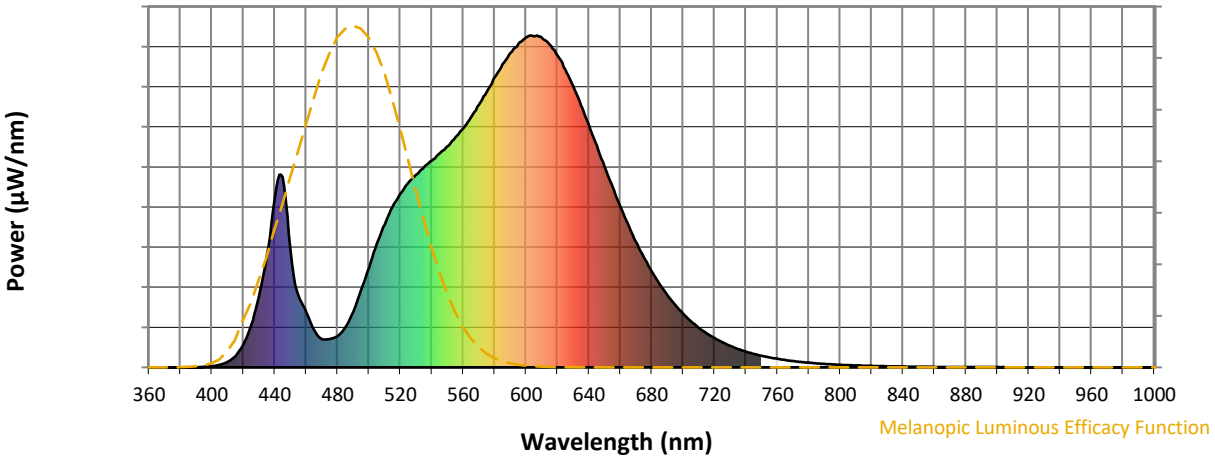
Melanopic Flux vs. Wavelength



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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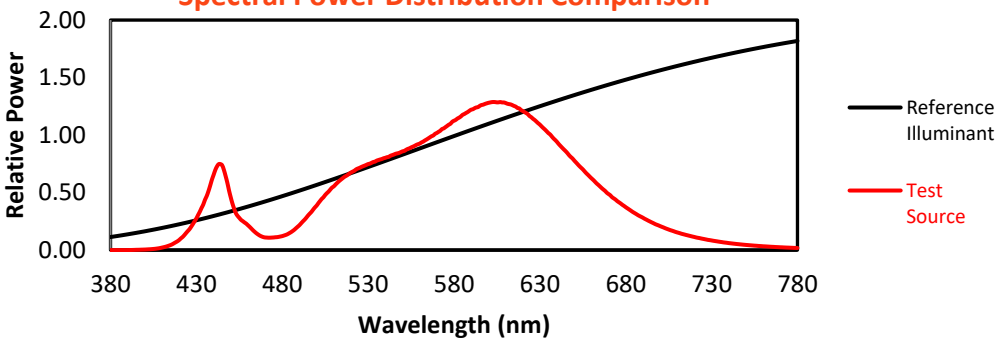
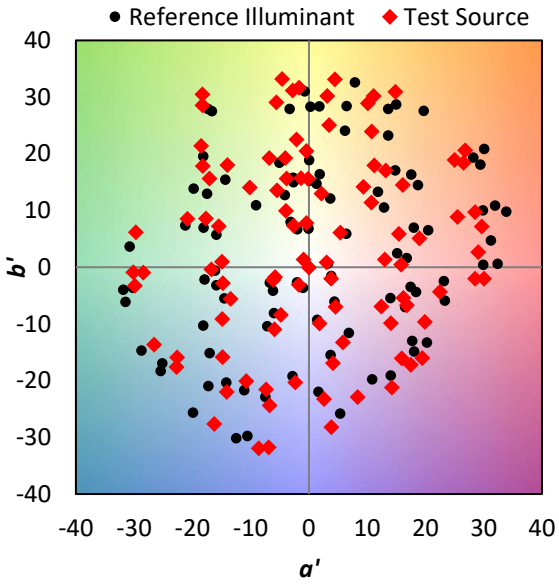
Summary

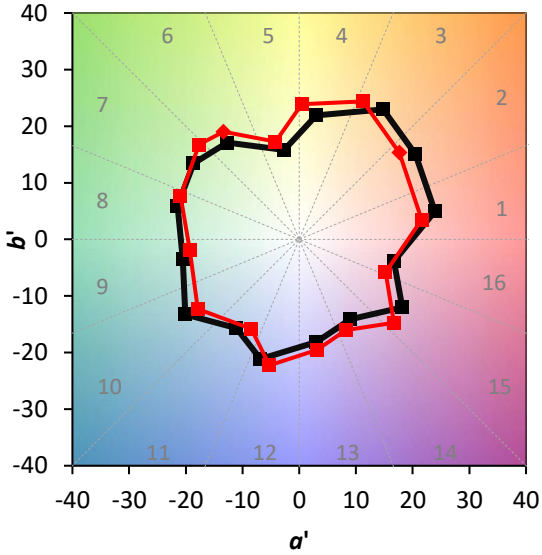
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

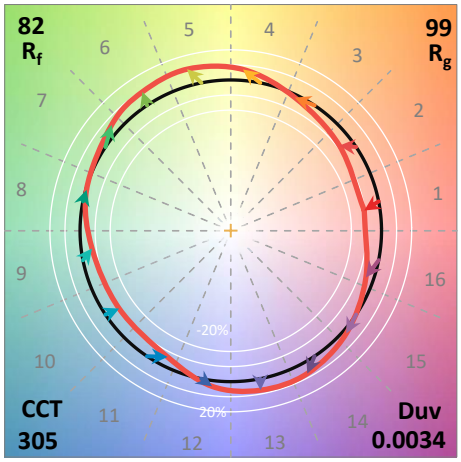
Spectral Power Distribution Comparison

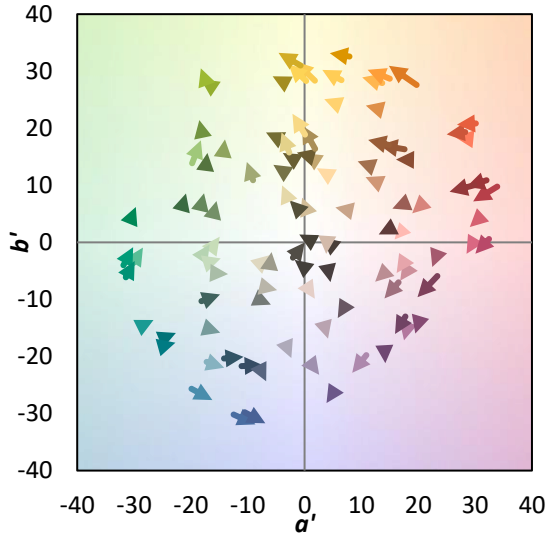


Color Vector Graphics









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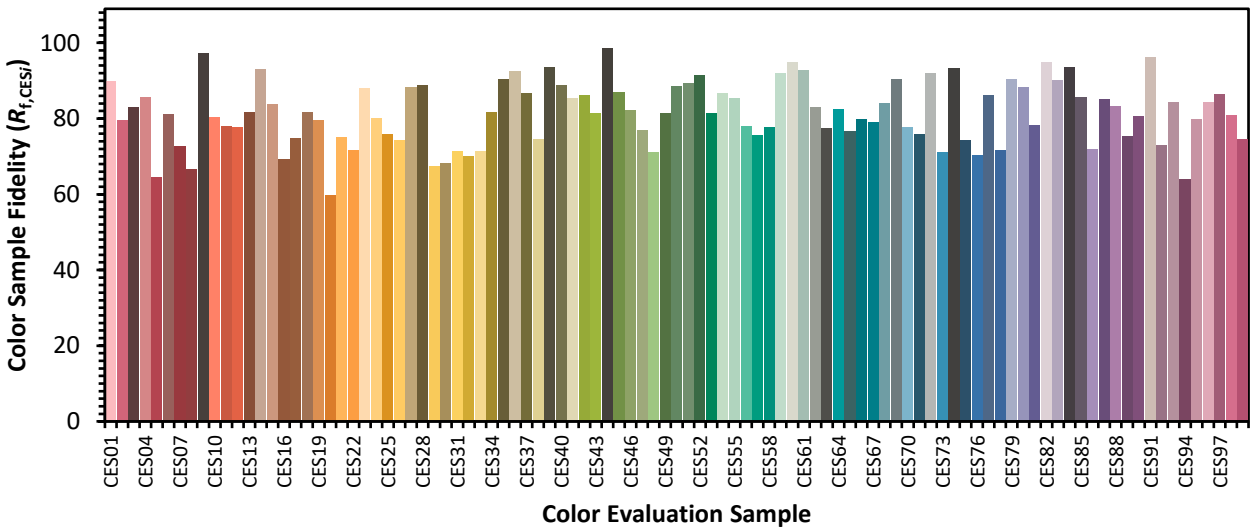
Individual Sample Fidelity Index ($R_{f,i}$)

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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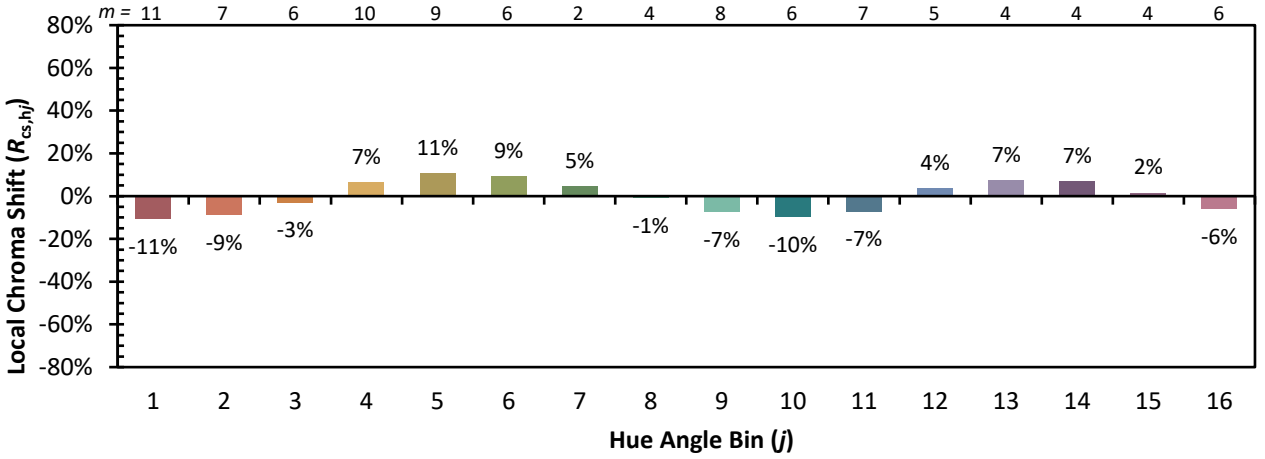
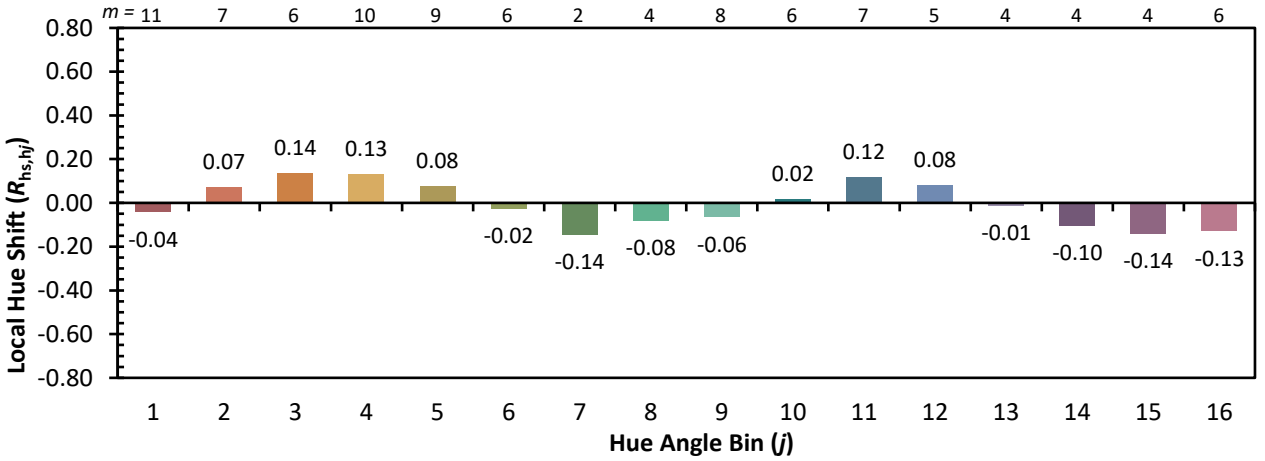
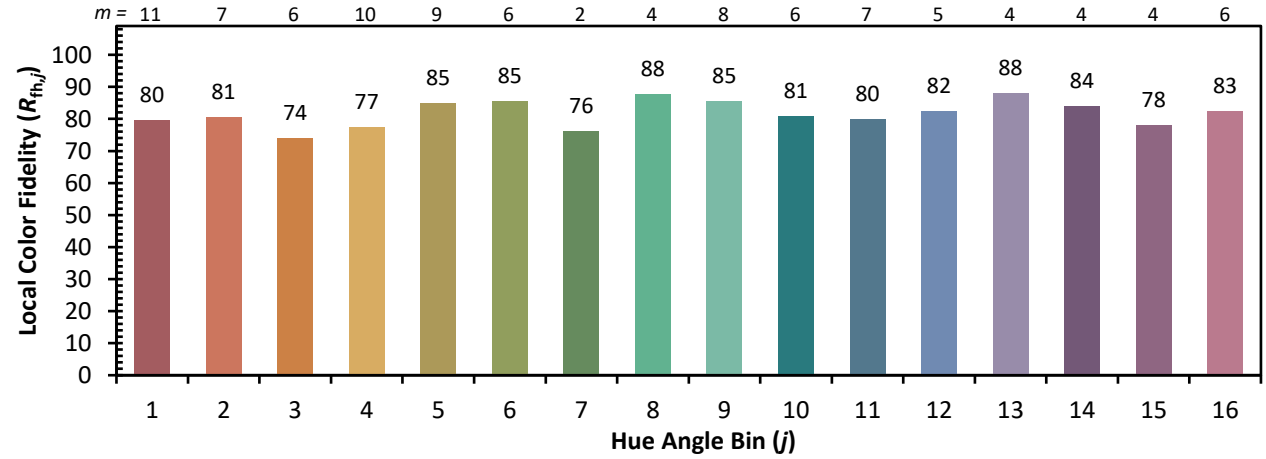
Color Rendition by Hue-Angle Bin







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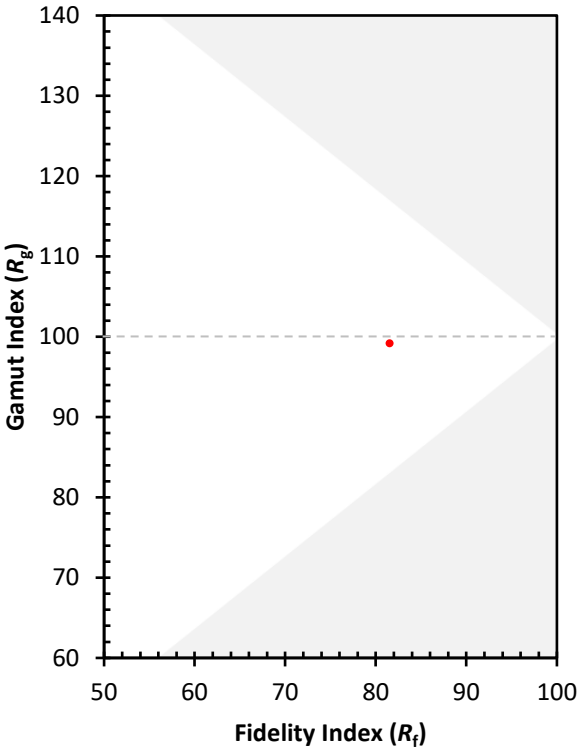
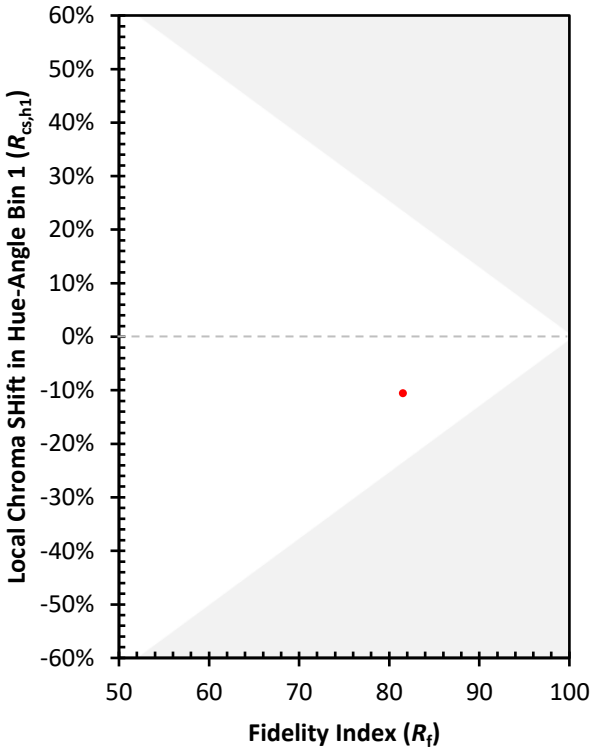
Measure Comparisons





(END OF REPORT)