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: P632039

Luminaire Tested: GWS-SA2B-830-U-SL3-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:	P632039
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4591.1 lumens
Efficiency:	N/A
Efficacy:	98.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

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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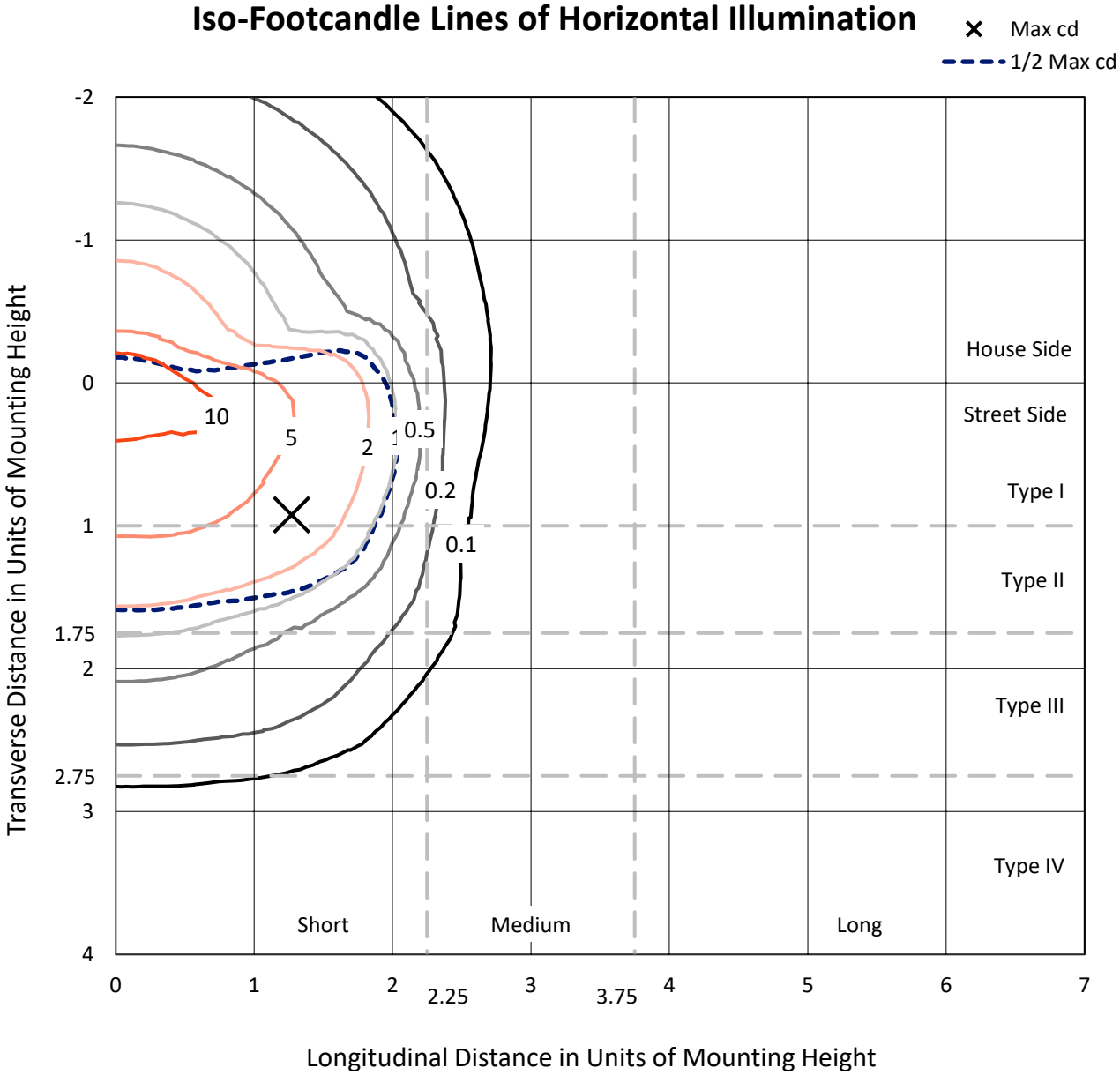
Scaled Data Report

REPORT NUMBER: P632039
CATALOG NUMBER: GWS-SA2B-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
Type II - Short - N/A

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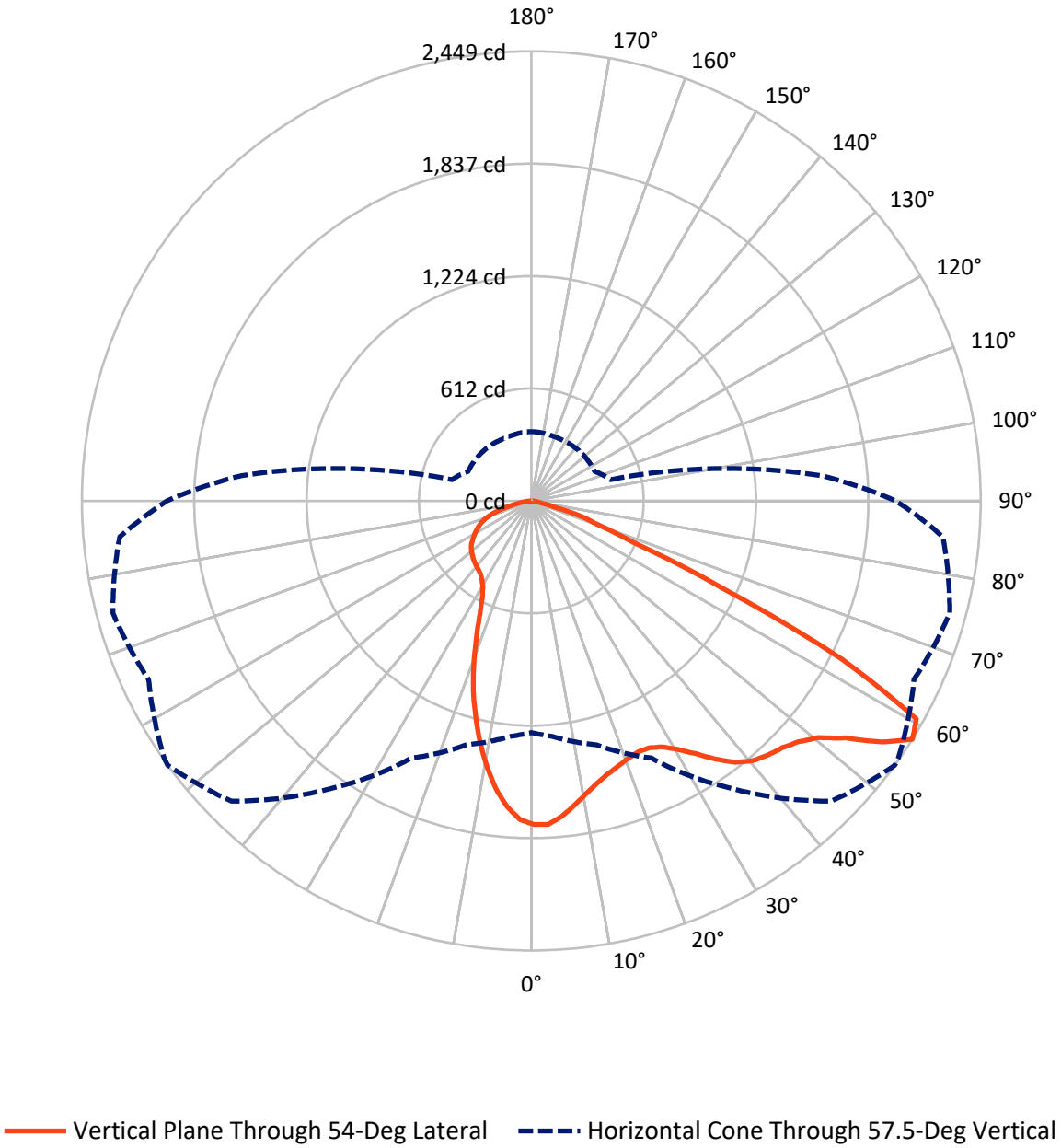
Luminous Intensity Polar Plot



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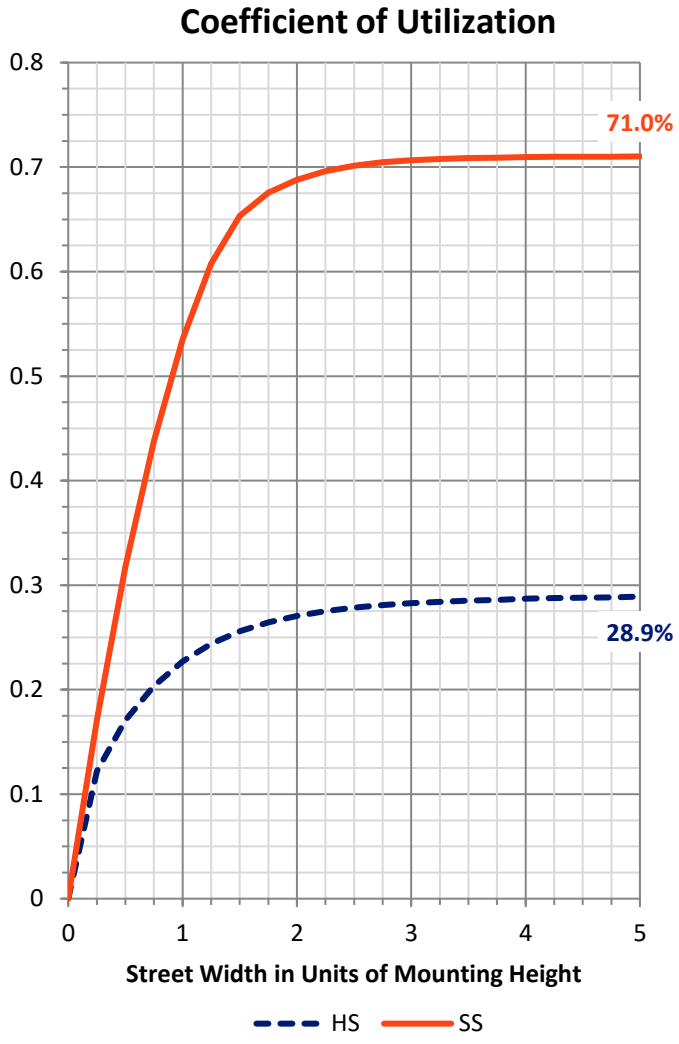
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.7	0.0	1334.7
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	3256.4	0.0	3256.4
	% Fixture	70.9	0.0	70.9
Total	Lumens	4591.1	0.0	4591.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.4
10°-20°	369.7	8.1
20°-30°	511.6	11.1
30°-40°	710.9	15.5
40°-50°	938.8	20.4
50°-60°	1115.7	24.3
60°-70°	618.1	13.5
70°-80°	153.9	3.4
80°-90°	17.5	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°	4591.1	100.0
0°-180°	4591.1	100.0



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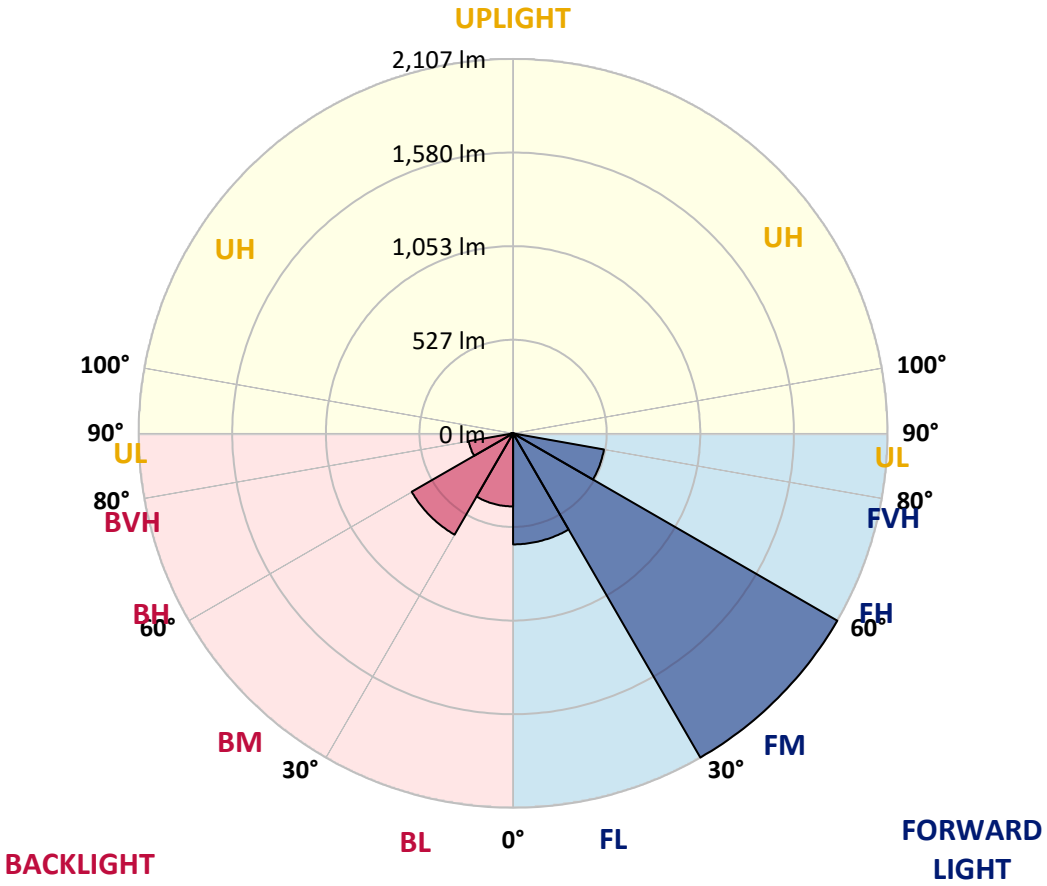
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	624.9	13.6			
FM	(30°-60°)	2106.9	45.9			
FH	(60°-80°)	519.1	11.3			G0/660
FVH	(80°-90°)	5.5	0.1			G0/10
BL	(0°-30°)	411.3	9.0	B1/500		
BM	(30°-60°)	658.4	14.3	B1/1000		
BH	(60°-80°)	252.9	5.5	B1/500		G1/500
BVH	(80°-90°)	12.0	0.3			G1/100
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: P632039
CATALOG NUMBER: GWS-SA2B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	*1762.6*	1762.6	1762.6	1762.6	1762.6
2.5°	1729.6	1733.2	1735.5	1743.8	1750.8	1757.1	*1763.8*	1763.8	1763.4	1762.2	1759.9
5°	1661.2	1665.2	1670.7	1682.1	1697.4	1708.4	*1726.5*	1728.0	1735.9	1739.0	1737.5
7.5°	1581.8	1583.0	1590.1	1605.0	1629.4	1649.0	*1675.0*	1678.1	1697.0	1708.0	1706.0
10°	1495.0	1491.1	1503.6	1525.6	1557.5	1590.5	*1623.9*	1626.6	1656.9	1677.7	1676.2
12.5°	1415.6	1416.0	1428.6	1455.3	1495.0	1535.9	*1580.7*	1587.0	1624.3	1651.0	1648.3
15°	1349.2	1350.8	1366.1	1396.3	1441.5	1490.3	*1546.1*	1552.0	1599.1	1634.5	1626.6
17.5°	1296.1	1297.7	1311.1	1345.6	1394.0	1452.9	*1520.9*	1526.8	1585.4	1627.4	1611.3
20°	1259.6	1258.8	1271.8	1304.8	1354.7	1418.7	*1498.9*	1507.6	1581.1	1630.2	1601.1
22.5°	1244.6	1244.3	1253.7	1280.8	1327.6	1392.4	*1485.6*	1497.3	1585.8	1642.4	1594.8
25°	1252.1	1250.5	1258.8	1278.8	1316.2	1382.2	*1489.5*	1502.1	1605.8	1667.5	1596.0
27.5°	1275.3	1273.3	1280.4	1298.5	1326.8	1392.8	*1517.0*	1531.5	1648.3	1713.5	1611.7
30°	1310.7	1309.5	1316.6	1333.9	1358.6	1428.2	*1569.7*	1586.2	1713.9	1785.0	1645.9
32.5°	1351.9	1350.0	1362.5	1382.6	1411.3	1492.6	*1640.4*	1662.0	1791.7	1877.0	1703.3
35°	1398.3	1396.7	1414.0	1443.1	1484.4	1582.2	*1726.1*	1749.7	1871.1	1981.1	1779.5
37.5°	1443.5	1443.5	1476.9	1520.1	1572.0	1679.7	*1806.6*	1821.6	1926.1	2073.5	1861.3
40°	1483.6	1486.0	1536.3	1601.1	1667.1	1767.7	*1859.7*	1872.3	1950.5	2137.2	1932.4
42.5°	1528.0	1530.0	1588.5	1673.4	1752.0	1838.9	*1891.9*	1898.2	1955.2	2169.0	1982.7
45°	1563.4	1566.1	1638.8	1729.6	1825.9	1892.3	*1917.5*	1923.0	1961.9	2186.3	2019.3
47.5°	1581.8	1585.8	1669.1	1774.8	1875.8	1940.3	*1959.5*	1961.9	1989.4	2216.5	2063.3
50°	1578.7	1586.6	1680.5	1797.2	1912.8	1988.6	*2027.1*	2031.0	2045.6	2261.0	2114.8
52.5°	1606.6	1610.1	1704.9	1823.9	1965.4	2077.8	*2144.6*	2150.1	2143.4	2294.4	2145.4
55°	1560.2	1577.1	1674.6	1820.0	2045.6	2215.8	*2318.7*	2316.0	2232.3	2331.7	2196.5
57.5°	*1261.9*	*1286.7*	*1375.9*	*1544.9*	*1913.5*	*2312.4*	*2448.8*	*2442.1*	*2301.0*	*2360.4*	*2251.9*
60°	873.7	877.6	958.1	1078.0	1476.9	2042.8	*2410.7*	2425.2	2313.6	2324.2	2149.3
62.5°	698.8	697.6	705.1	708.2	939.3	1436.0	*1902.9*	1956.0	1922.2	1811.0	1523.3
65°	596.6	600.9	622.9	611.5	613.1	808.8	*1137.0*	1144.4	1120.9	1080.8	805.7
67.5°	466.9	474.4	513.3	557.7	543.5	520.7	*589.9*	586.4	462.2	357.6	295.5
70°	292.4	297.1	338.8	437.8	473.2	427.6	*379.2*	377.7	247.6	203.6	223.2
72.5°	170.6	171.4	183.1	244.1	314.0	292.4	*279.0*	268.8	159.2	162.3	178.0
75°	93.9	93.9	93.5	105.3	123.8	109.6	*106.1*	103.4	106.5	120.7	132.4
77.5°	19.7	20.0	21.2	27.9	36.2	44.0	*55.4*	55.8	69.6	80.6	90.0
80°	9.0	9.4	11.8	14.9	19.3	25.5	*33.8*	34.2	42.1	50.7	57.0
82.5°	4.7	5.1	6.3	7.9	10.2	13.4	*18.9*	18.9	25.2	29.9	33.8
85°	1.6	1.6	2.4	3.1	4.3	5.5	*7.5*	7.5	11.0	14.5	16.9
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	*1.6*	1.6	2.0	2.4	3.9
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: P632039
CATALOG NUMBER: GWS-SA2B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6
2.5°	1754.8	1742.6	1743.0	1745.3	1737.9	1726.5	1719.0	1709.6	1703.7	1702.5	1706.8
5°	1729.6	1715.5	1705.6	1695.4	1674.2	1649.0	1629.4	1613.3	1602.7	1598.7	1594.0
7.5°	1695.0	1676.6	1651.8	1623.1	1584.6	1539.8	1508.4	1478.9	1458.4	1452.5	1449.8
10°	1660.4	1633.7	1589.7	1536.3	1472.2	1411.7	1354.7	1311.1	1276.5	1256.8	1263.1
12.5°	1624.7	1591.7	1522.9	1440.8	1351.5	1260.4	1185.7	1113.4	1057.6	1029.7	1021.4
15°	1593.2	1548.4	1452.5	1341.3	1222.6	1107.9	999.8	891.3	820.6	782.1	771.5
17.5°	1566.5	1508.4	1378.3	1239.9	1098.1	934.6	801.7	701.1	652.8	631.6	630.0
20°	1540.2	1469.1	1304.8	1130.7	954.2	771.1	652.4	605.2	587.9	580.5	580.1
22.5°	1516.6	1427.8	1227.4	1021.4	811.2	648.1	582.8	562.4	557.7	557.7	556.9
25°	1496.6	1386.5	1148.0	905.5	681.9	576.9	546.7	538.0	540.0	543.5	543.9
27.5°	1488.3	1354.3	1071.3	786.4	592.7	535.7	521.9	520.7	526.2	531.7	532.5
30°	1497.0	1332.3	992.7	672.4	539.2	510.5	504.2	506.6	513.3	518.8	518.8
32.5°	1523.7	1321.3	912.6	589.1	508.2	492.8	490.9	493.2	498.3	501.5	501.9
35°	1568.9	1325.6	829.6	532.9	488.1	479.9	479.5	481.0	483.0	485.0	485.4
37.5°	1625.9	1344.9	740.8	500.3	475.1	470.4	469.6	469.2	469.6	469.6	470.0
40°	1681.7	1373.9	661.4	481.0	466.1	462.2	460.2	457.5	457.1	456.3	455.9
42.5°	1722.9	1396.3	598.2	467.3	457.9	453.1	450.8	446.5	446.1	445.7	445.3
45°	1754.0	1415.2	545.5	453.9	449.2	444.9	439.8	435.8	436.6	437.4	437.4
47.5°	1789.0	1431.7	507.0	441.3	438.6	434.3	428.0	425.2	428.0	430.7	430.7
50°	1831.4	1454.9	475.5	428.8	427.6	422.5	417.0	415.8	418.9	422.9	422.9
52.5°	1862.5	1474.9	453.1	416.2	416.2	409.5	404.8	404.4	407.9	411.9	412.3
55°	1920.6	1521.7	445.3	401.7	400.1	395.0	391.4	388.7	393.0	396.5	396.5
57.5°	*1986.2*	*1583.8*	*447.2*	*380.8*	*378.9*	*377.3*	*374.5*	*371.4*	*372.6*	*376.5*	*376.9*
60°	1847.1	1463.6	425.6	360.0	358.8	358.0	354.5	349.0	350.6	353.7	354.1
62.5°	1290.2	972.7	344.3	334.1	338.0	337.6	332.9	326.6	327.0	331.3	331.3
65°	669.7	526.2	302.2	310.5	316.4	314.0	306.2	300.6	299.9	305.4	304.2
67.5°	288.9	287.3	275.1	285.7	292.0	286.9	278.6	269.6	270.4	272.4	270.8
70°	232.7	239.7	244.8	256.2	261.3	251.9	242.9	237.8	233.4	233.1	230.3
72.5°	185.9	195.7	207.1	218.9	220.5	211.0	199.6	194.9	188.2	187.9	185.1
75°	139.9	148.2	157.2	166.6	166.6	157.6	150.1	147.8	139.9	137.6	135.2
77.5°	95.5	100.6	107.7	110.0	112.4	108.9	101.4	97.5	88.4	86.1	82.9
80°	60.1	63.7	68.0	69.6	71.9	67.6	61.7	57.4	51.1	49.1	47.6
82.5°	36.2	38.5	41.3	42.1	44.0	40.9	35.4	32.2	28.7	27.1	25.9
85°	18.5	19.7	21.2	21.6	21.2	18.1	16.1	14.5	12.2	11.8	11.0
87.5°	4.7	5.5	5.9	5.5	5.1	3.9	2.8	2.0	0.8	0.8	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

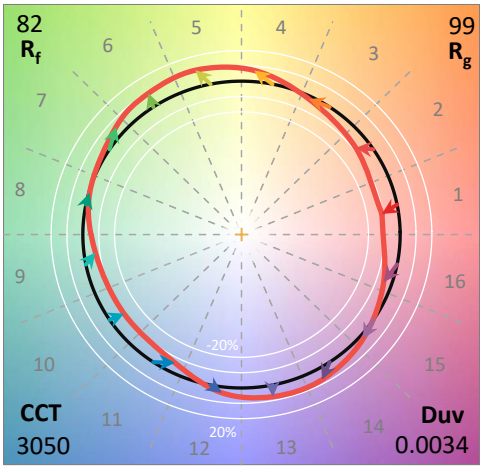
Test Information

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

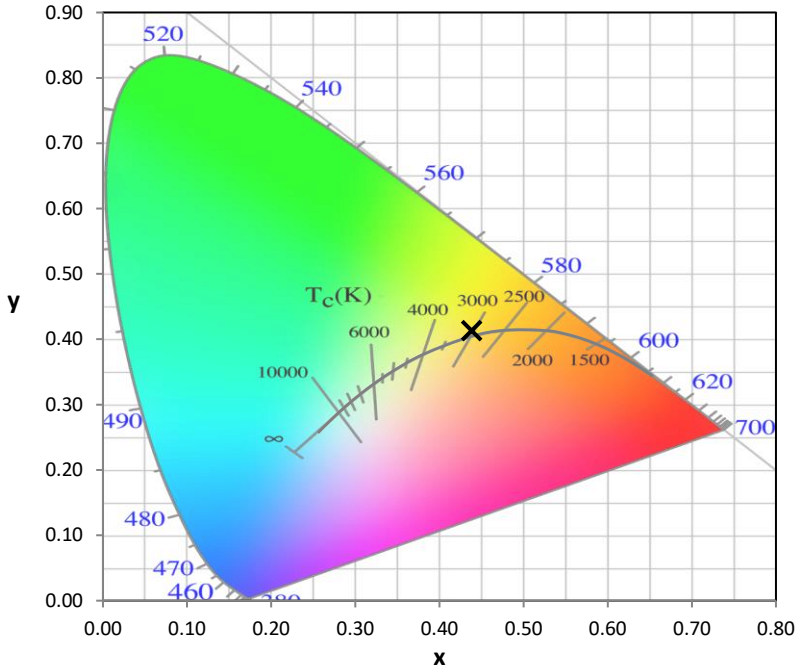
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

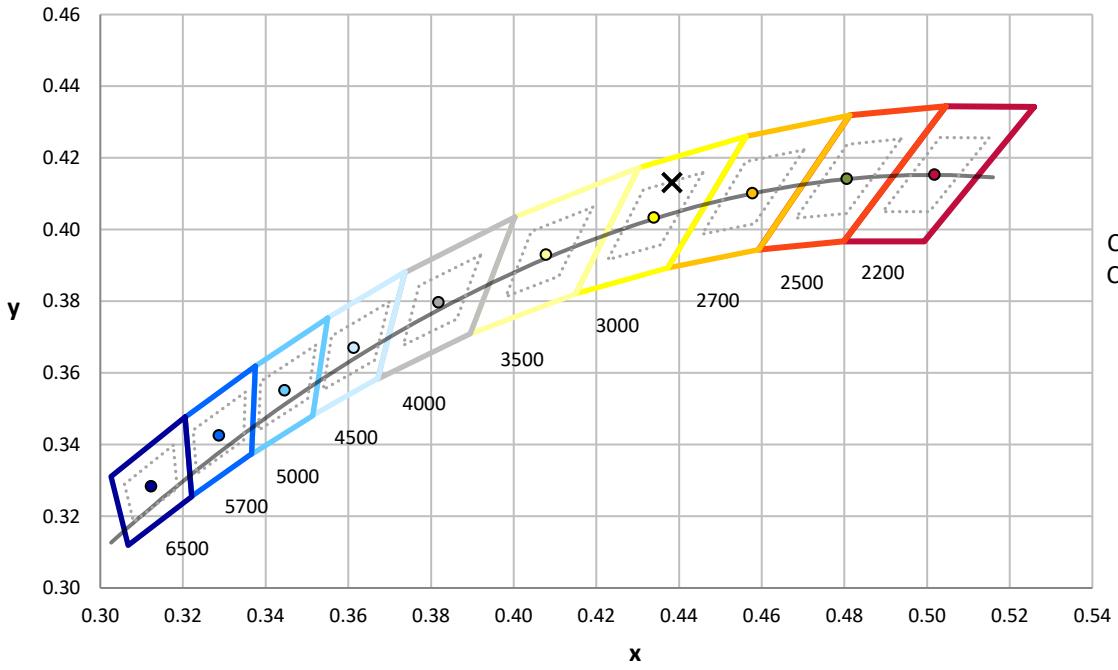
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

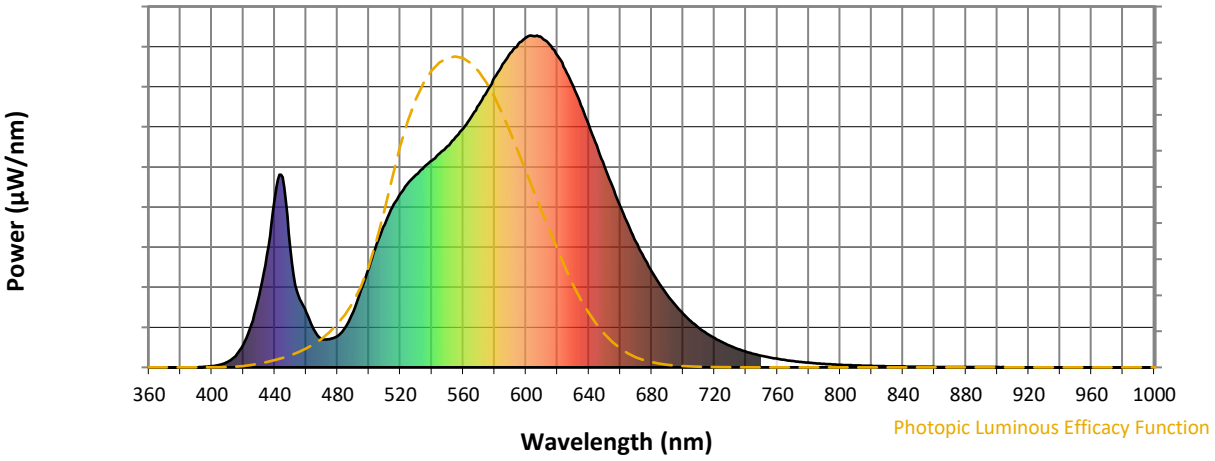


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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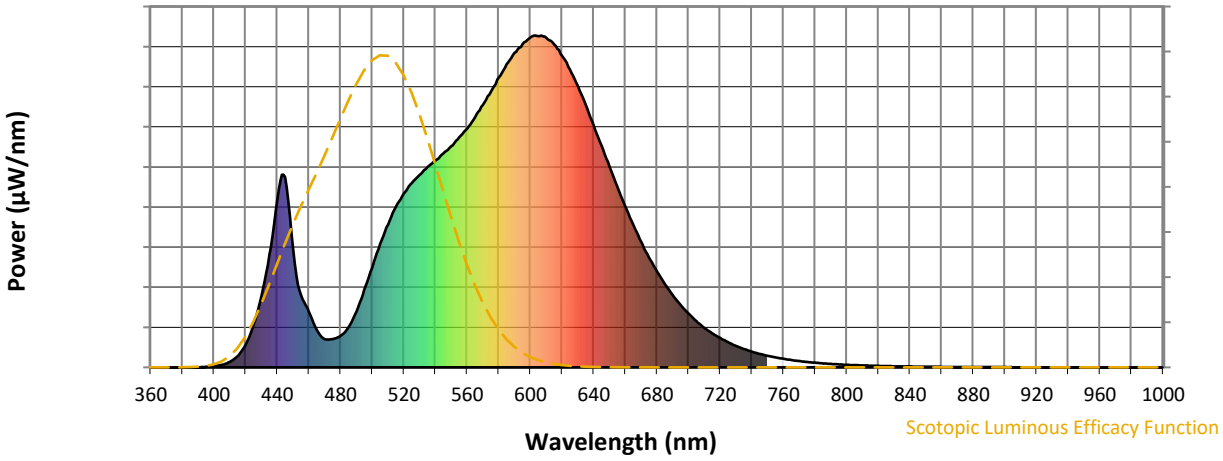
Scotopic Flux vs. Wavelength



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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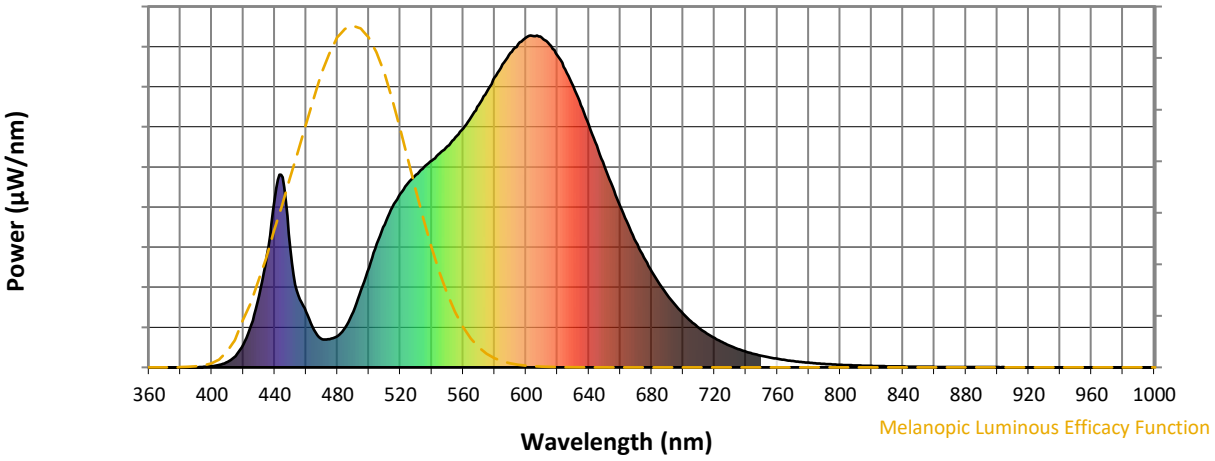
Melanopic Flux vs. Wavelength



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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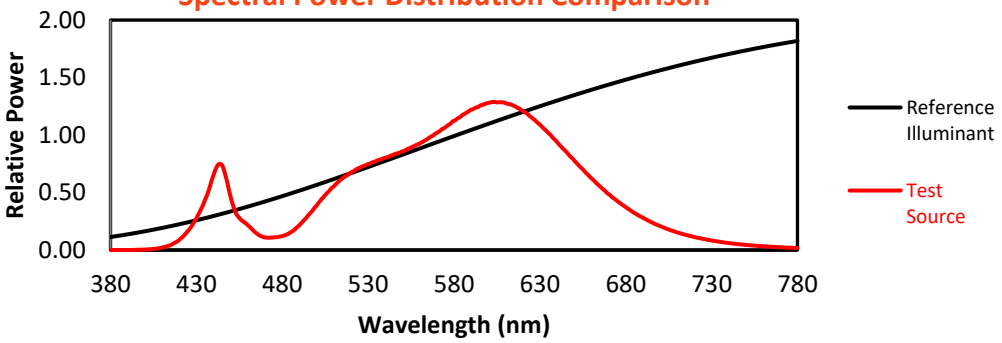
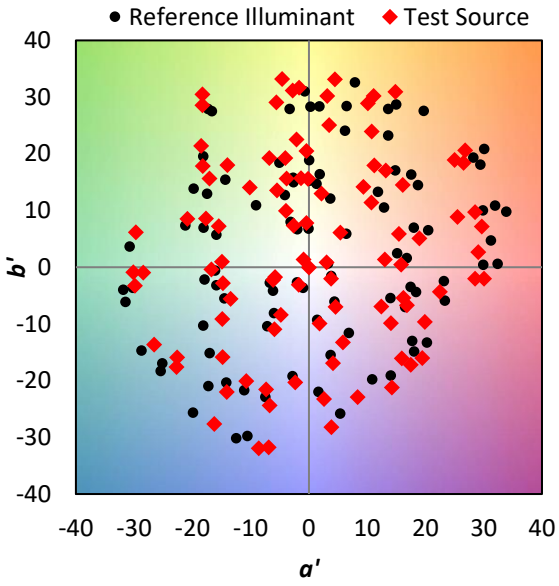
Summary

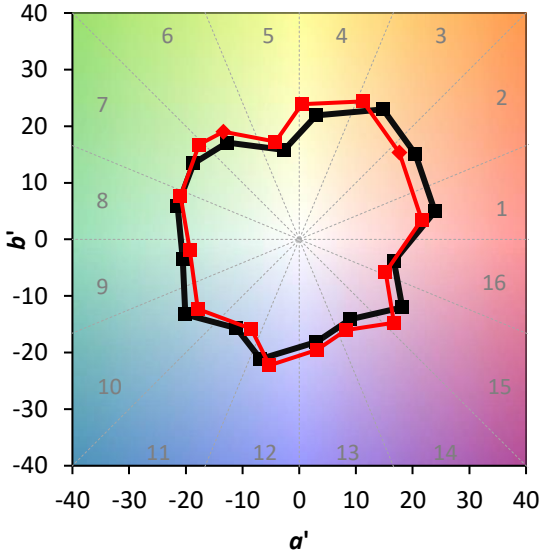
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

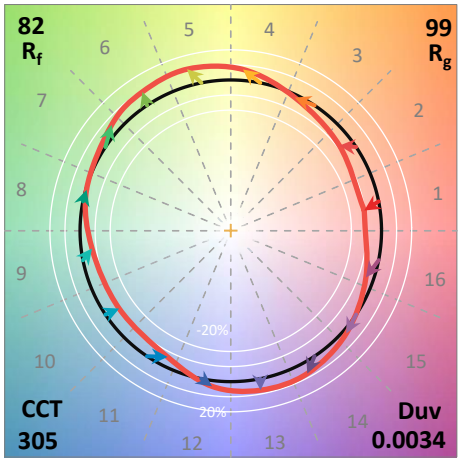
Spectral Power Distribution Comparison

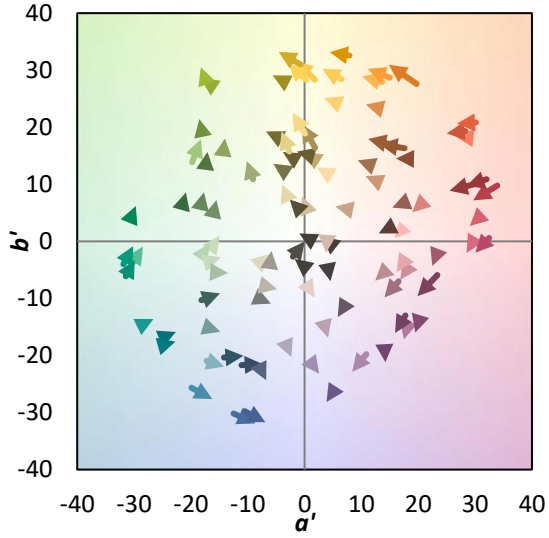


Color Vector Graphics









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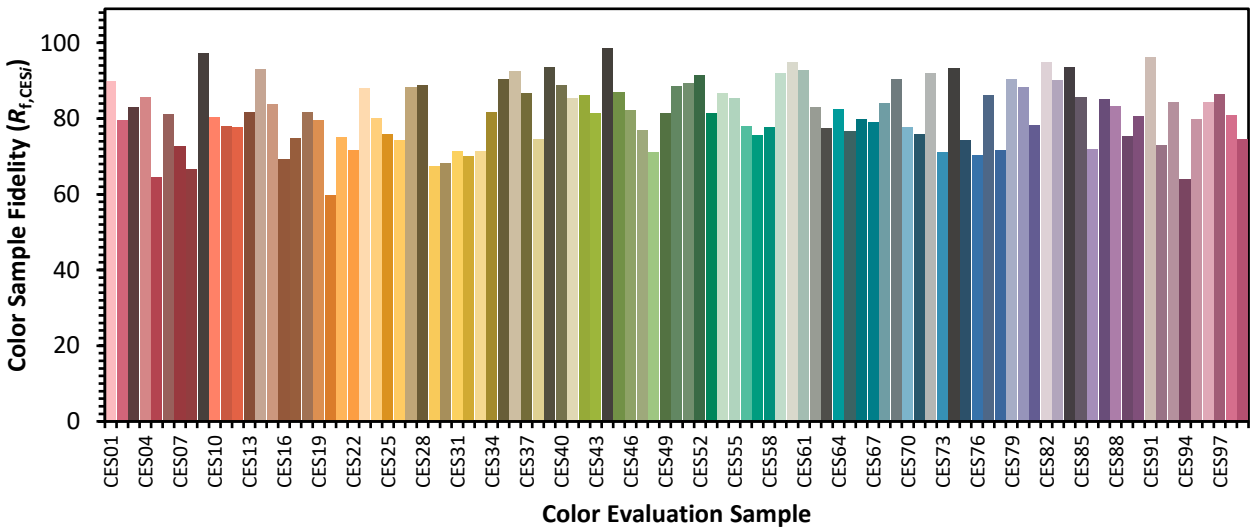
Individual Sample Fidelity Index ($R_{f,i}$)

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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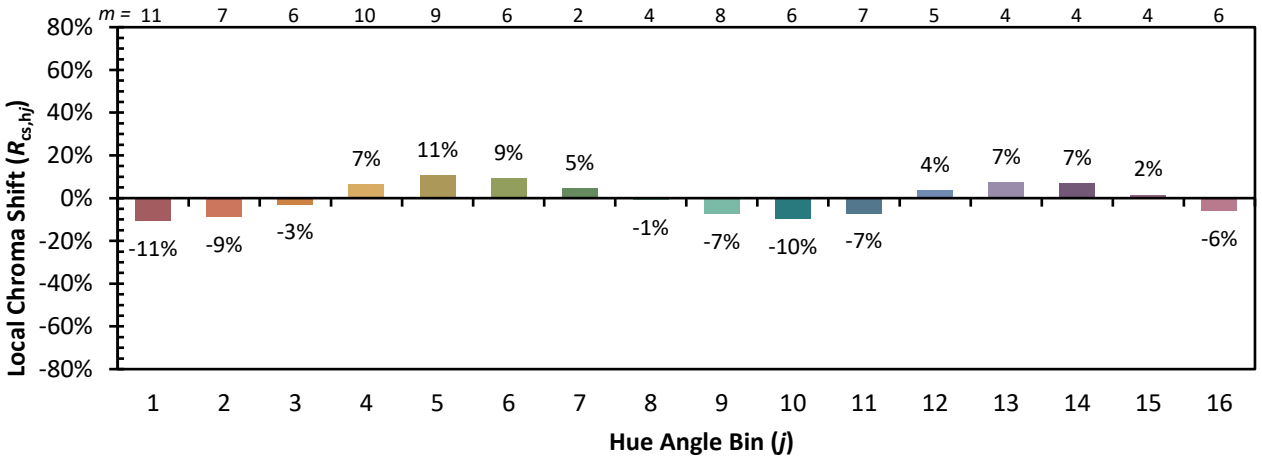
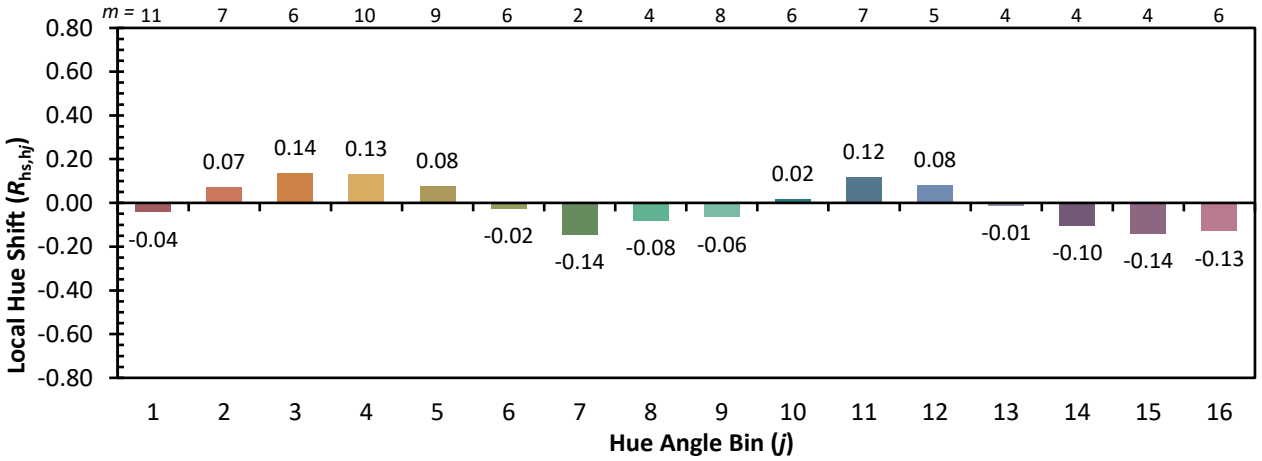
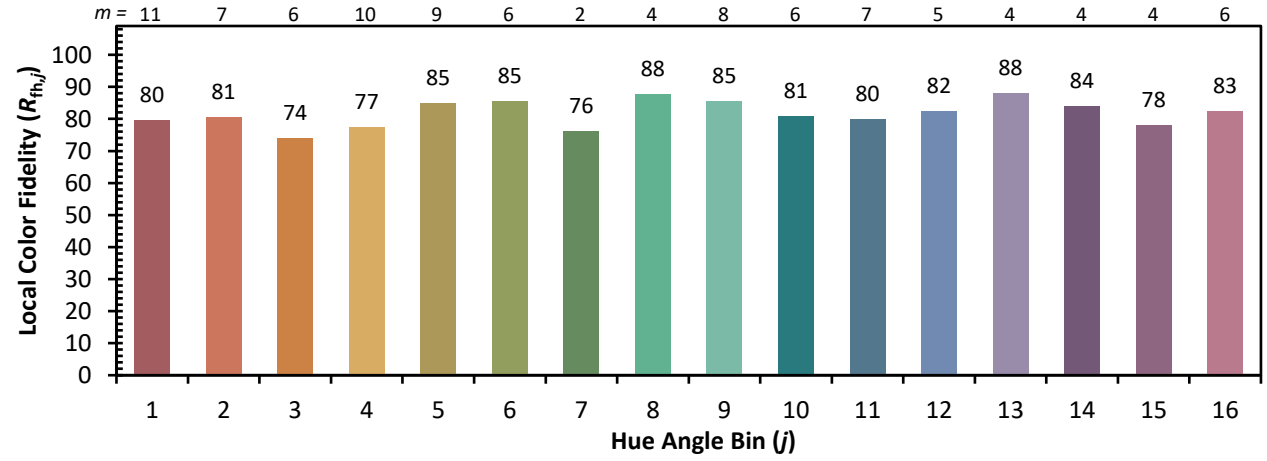
Color Rendition by Hue-Angle Bin







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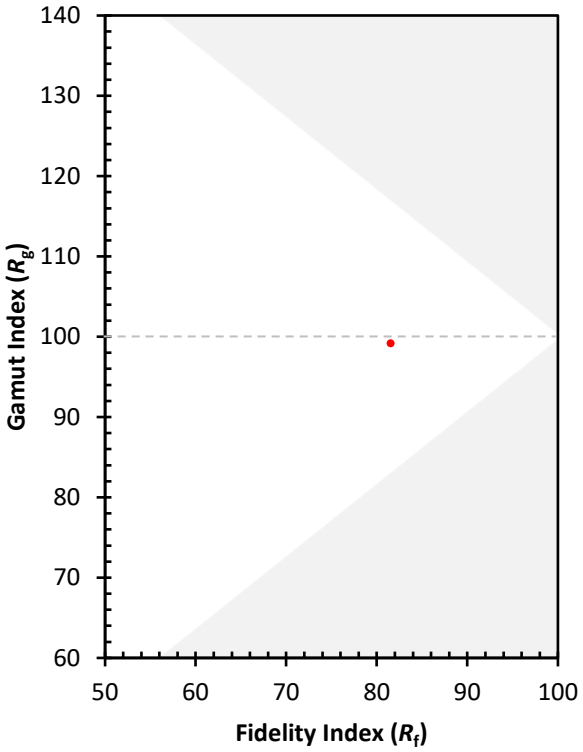
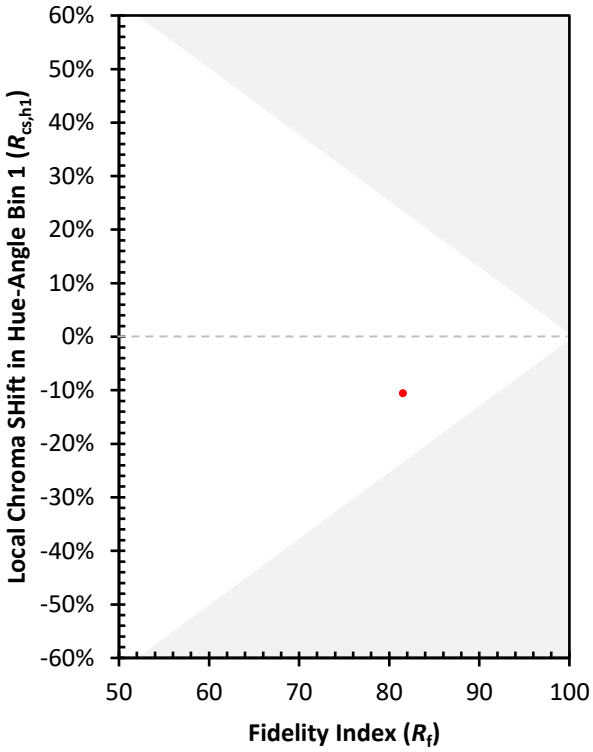
Measure Comparisons





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