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: P632529

Luminaire Tested: GWS-SA2C-830-U-SL2-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:	P632529
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4317.2 lumens
Efficiency:	N/A
Efficacy:	68.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	63.2
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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REPORT NUMBER: P632529
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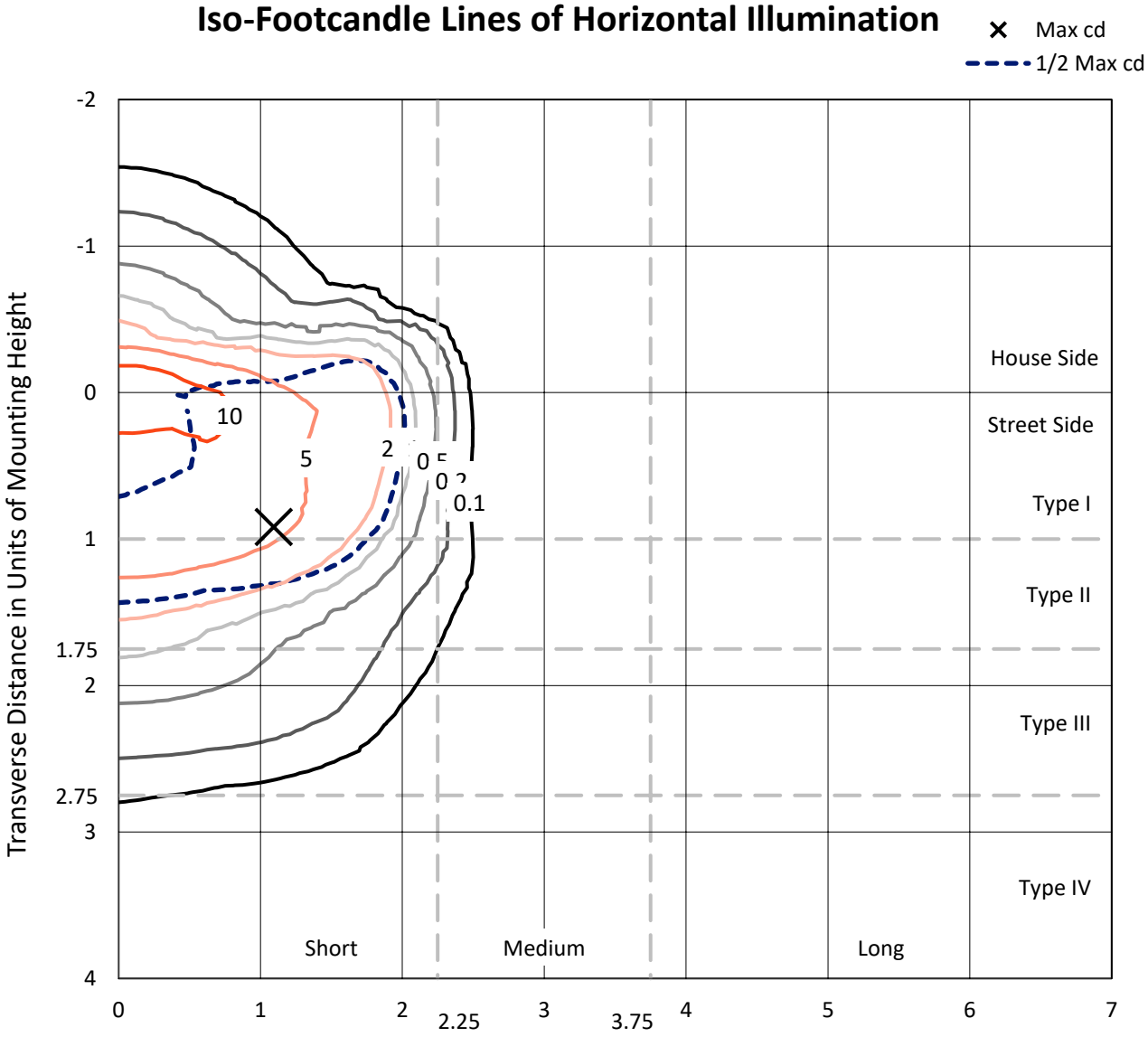
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
Type II - Short - N/A

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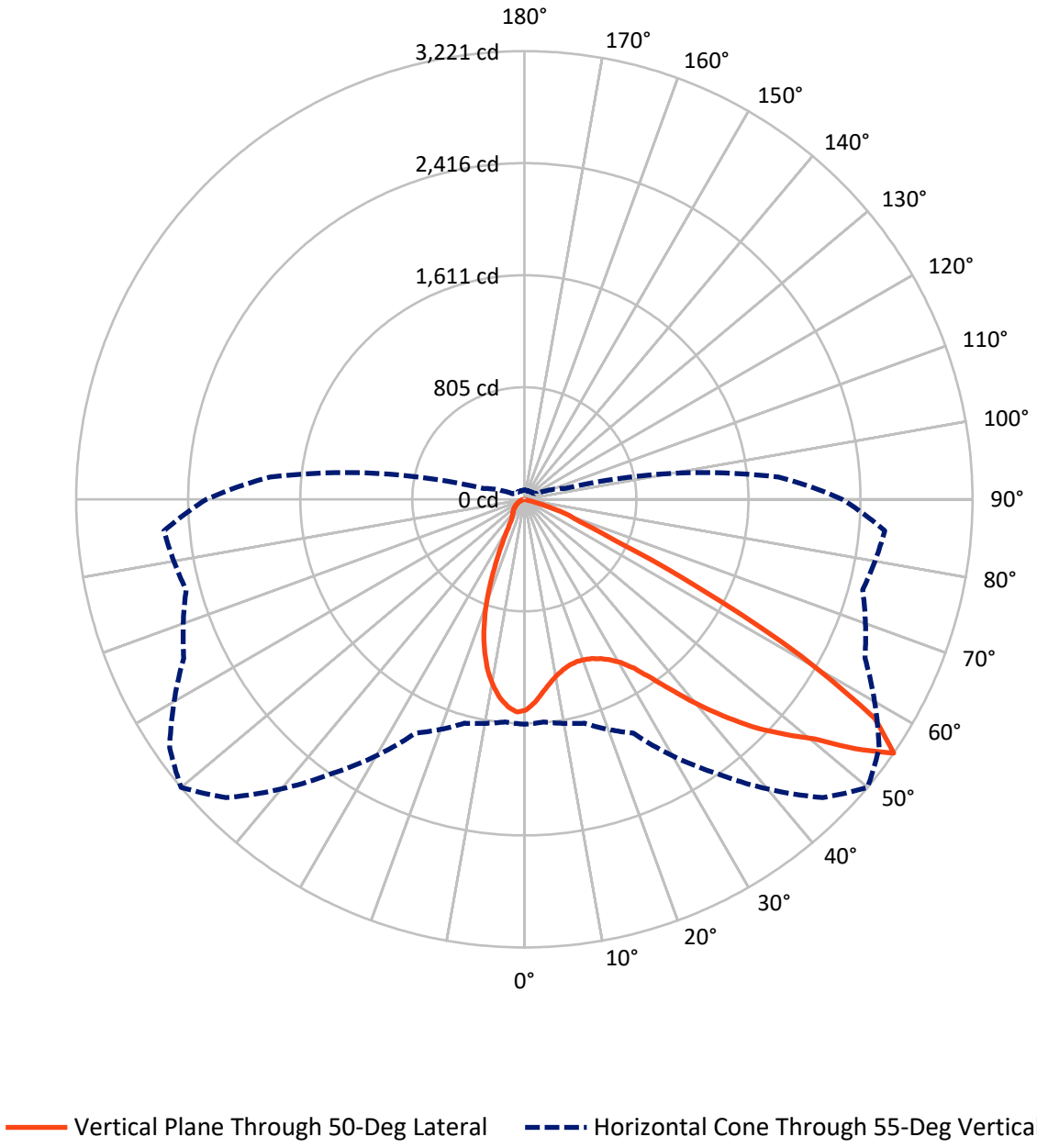
Luminous Intensity Polar Plot



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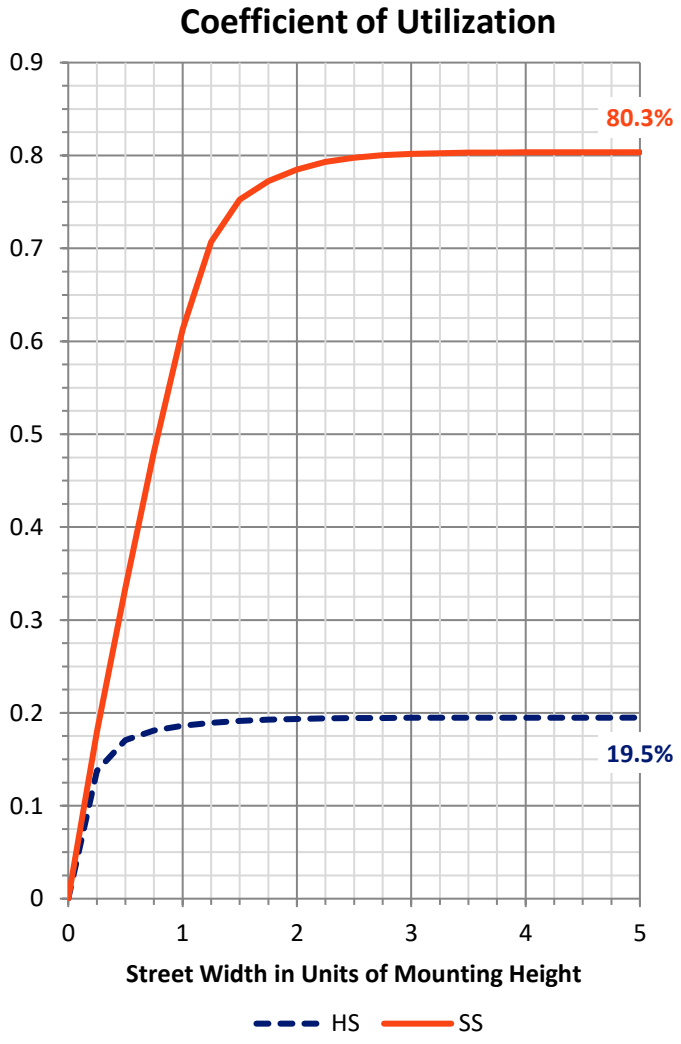
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.7	0.0	850.7
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3466.5	0.0	3466.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	4317.2	0.0	4317.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.1
10°-20°	327.3	7.6
20°-30°	461.7	10.7
30°-40°	683.3	15.8
40°-50°	985.8	22.8
50°-60°	1162.8	26.9
60°-70°	518.7	12.0
70°-80°	44.6	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°	4317.2	100.0
0°-180°	4317.2	100.0



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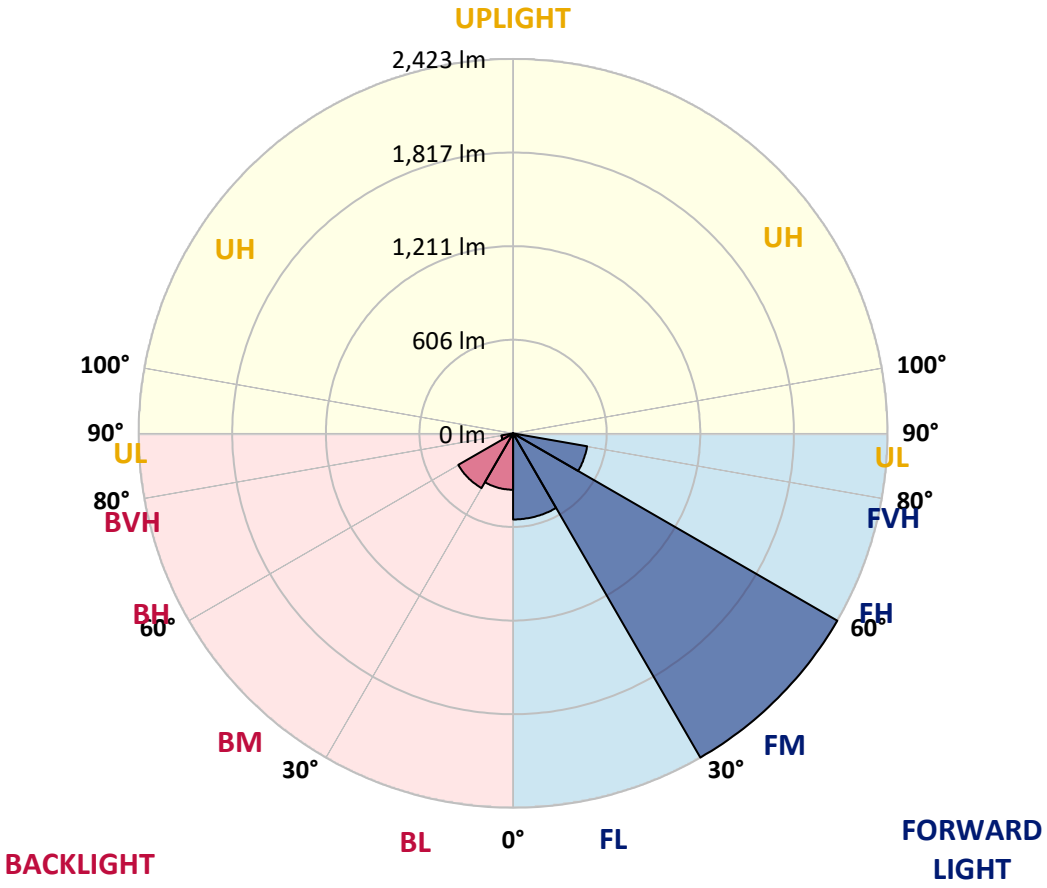
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	557.4	12.9			
FM	(30°-60°)	2422.7	56.1			
FH	(60°-80°)	486.5	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	364.7	8.4	B1/500		
BM	(30°-60°)	409.1	9.5	B1/1000		
BH	(60°-80°)	76.8	1.8	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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Scaled Data Report

REPORT NUMBER: P632529
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	*1514.7*	1514.7	1514.7	1514.7	1514.7
2.5°	1407.2	1408.3	1408.8	1423.0	1428.3	1449.4	*1460.4*	1466.2	1481.5	1499.4	1514.2
5°	1312.9	1311.3	1313.9	1331.8	1343.4	1374.5	*1391.4*	1403.0	1436.7	1478.9	1514.2
7.5°	1230.6	1233.8	1237.0	1256.5	1273.9	1307.6	*1331.8*	1349.2	1396.1	1458.8	1518.4
10°	1172.7	1172.7	1177.4	1199.5	1220.1	1261.7	*1286.0*	1308.1	1364.0	1440.9	1523.1
12.5°	1130.0	1130.5	1136.3	1161.6	1185.3	1228.5	*1253.8*	1275.4	1337.1	1423.0	1524.2
15°	1109.9	1108.4	1113.1	1140.0	1166.3	1206.9	*1233.3*	1254.4	1318.1	1413.0	1529.5
17.5°	1104.7	1103.6	1107.3	1133.7	1160.5	1200.1	*1225.9*	1247.0	1315.5	1416.2	1545.3
20°	1120.0	1117.9	1116.3	1138.9	1164.2	1203.2	*1230.1*	1253.8	1328.1	1433.5	1569.5
22.5°	1156.3	1156.3	1152.6	1163.7	1180.6	1215.9	*1243.8*	1274.9	1361.3	1468.3	1605.4
25°	1223.3	1218.0	1211.1	1215.9	1213.8	1235.9	*1269.1*	1312.3	1424.1	1525.8	1649.1
27.5°	1299.7	1304.4	1292.8	1293.4	1274.9	1267.0	*1305.5*	1370.8	1517.3	1606.9	1713.9
30°	1403.5	1399.8	1400.3	1398.8	1356.1	1318.7	*1360.3*	1447.3	1634.9	1730.8	1798.3
32.5°	1484.7	1489.9	1507.3	1517.3	1461.5	1401.4	*1445.7*	1551.1	1768.7	1872.0	1901.6
35°	1570.6	1580.1	1615.4	1648.1	1601.1	1532.1	*1579.5*	1688.6	1894.7	2011.7	2020.1
37.5°	1661.2	1680.2	1722.4	1779.8	1772.4	1711.3	*1754.5*	1850.4	1993.8	2096.0	2118.2
40°	1765.1	1783.5	1852.5	1935.3	1952.7	1939.0	*1953.2*	2009.1	2059.1	2099.7	2160.3
42.5°	1878.9	1904.2	1991.7	2102.4	2167.7	2179.8	*2146.6*	2140.8	2087.6	2057.6	2151.4
45°	2013.3	2042.8	2141.9	2285.2	2389.1	2405.4	*2348.0*	2273.7	2105.5	2026.5	2124.5
47.5°	2164.0	2192.0	2290.5	2462.9	2617.3	2623.6	*2523.5*	2403.8	2158.8	2062.3	2145.1
50°	2214.6	2232.0	2317.4	2519.8	2804.4	2852.9	*2707.9*	2550.3	2265.7	2167.7	2245.2
52.5°	2040.7	2047.6	2121.9	2326.4	2766.4	3077.9	*2977.3*	2769.1	2456.0	2328.5	2399.6
55°	*1617.0*	*1605.9*	*1666.0*	*1853.6*	*2404.4*	*3032.1*	*3221.3*	*3112.7*	*2701.1*	*2517.1*	*2600.4*
57.5°	1131.0	1117.9	1104.1	1231.2	1794.0	2570.4	*2968.3*	3160.7	2934.6	2704.2	2817.0
60°	929.7	917.1	850.6	792.1	1084.6	1845.7	*2280.0*	2642.1	2915.6	2694.8	2810.2
62.5°	803.2	795.8	769.0	689.4	638.2	1053.6	*1427.8*	1774.5	2237.3	2116.1	2122.4
65°	630.9	628.8	647.2	655.6	564.5	582.9	*728.4*	922.3	1209.6	1140.5	1081.5
67.5°	431.1	426.4	461.2	567.1	542.9	460.1	*426.4*	430.1	523.4	319.9	254.0
70°	274.1	263.0	263.5	351.5	441.7	363.1	*328.9*	289.3	260.4	47.4	53.8
72.5°	175.5	168.7	144.9	158.6	204.5	177.1	*178.7*	153.9	102.8	25.3	29.5
75°	73.8	68.0	52.2	41.6	41.1	25.8	*22.7*	21.1	14.2	14.2	15.3
77.5°	0.5	0.0	0.0	0.5	1.1	0.5	*0.5*	1.1	2.1	3.2	3.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.5
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-SA2C-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1523.1	1510.5	1524.7	1530.0	1529.5	1530.0	1514.7	1504.2	1503.6	1490.5	1484.1
5°	1528.9	1518.9	1529.5	1522.6	1506.3	1485.7	1458.3	1434.6	1424.1	1408.8	1401.4
7.5°	1540.0	1529.5	1527.9	1500.5	1459.9	1416.7	1368.2	1325.0	1301.8	1273.9	1275.4
10°	1547.9	1535.8	1515.2	1459.4	1391.9	1322.9	1250.7	1186.4	1145.8	1108.4	1102.0
12.5°	1551.1	1533.2	1485.2	1400.9	1306.0	1215.9	1109.9	1018.2	955.0	906.0	899.1
15°	1556.9	1527.9	1446.7	1330.2	1200.1	1072.5	937.6	812.2	728.4	672.0	676.7
17.5°	1565.8	1522.1	1403.5	1251.2	1086.2	906.0	723.6	579.7	502.8	470.1	470.6
20°	1578.5	1515.2	1356.1	1164.2	949.7	717.8	506.0	397.4	375.8	374.7	373.1
22.5°	1595.4	1508.4	1305.5	1068.8	787.9	502.8	336.8	303.0	312.0	329.4	332.6
25°	1615.4	1500.0	1249.1	961.3	611.4	329.9	252.5	247.2	268.8	292.0	297.3
27.5°	1646.5	1495.7	1184.8	839.0	429.0	236.6	206.6	209.8	229.3	248.8	253.5
30°	1699.2	1503.6	1114.7	702.0	275.6	188.7	179.2	183.9	194.5	204.5	208.7
32.5°	1770.9	1526.8	1046.7	552.3	196.6	163.9	161.8	164.4	168.7	174.5	176.0
35°	1854.7	1566.9	976.6	395.3	162.3	149.7	147.6	147.6	149.7	150.7	151.3
37.5°	1923.7	1609.1	910.7	263.0	145.5	138.6	135.4	133.9	133.3	134.4	134.9
40°	1953.7	1626.4	839.0	191.3	133.3	128.6	123.9	119.1	119.1	122.8	123.3
42.5°	1932.7	1606.9	756.3	158.1	124.9	118.1	110.7	106.5	108.6	112.3	113.3
45°	1887.9	1559.0	665.1	139.7	116.5	107.5	99.1	96.4	98.6	103.3	104.4
47.5°	1880.5	1527.4	556.0	127.5	107.5	98.6	89.6	87.0	89.6	93.3	94.3
50°	1953.7	1554.8	434.8	117.0	99.1	89.1	81.7	79.1	80.6	82.7	83.8
52.5°	2087.6	1656.5	351.0	107.0	89.1	79.6	74.8	71.7	71.7	73.8	74.3
55°	*2285.2*	*1834.1*	*303.0*	*95.4*	*77.5*	*72.2*	*68.0*	*64.8*	*64.8*	*65.9*	*66.4*
57.5°	2512.9	2049.1	314.1	80.1	68.0	65.4	61.7	59.0	60.1	60.1	60.1
60°	2481.3	2033.3	336.3	67.5	60.1	59.0	55.9	54.8	57.4	55.3	54.3
62.5°	1827.8	1404.6	176.0	55.3	51.6	50.6	48.5	50.6	54.3	48.5	46.4
65°	887.5	679.9	70.6	45.3	43.7	42.7	41.6	44.8	46.9	37.9	35.8
67.5°	208.7	169.7	45.9	38.5	36.4	34.3	35.3	35.8	34.3	25.8	24.8
70°	54.3	53.2	35.8	32.1	29.0	26.9	26.9	26.4	22.7	16.3	15.3
72.5°	29.5	29.0	25.8	24.2	20.0	17.9	18.4	16.3	12.6	9.5	9.0
75°	14.8	15.8	14.8	13.7	11.1	10.0	10.0	9.0	6.3	3.7	3.7
77.5°	3.2	3.7	3.7	3.2	2.6	2.1	2.1	2.6	1.1	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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

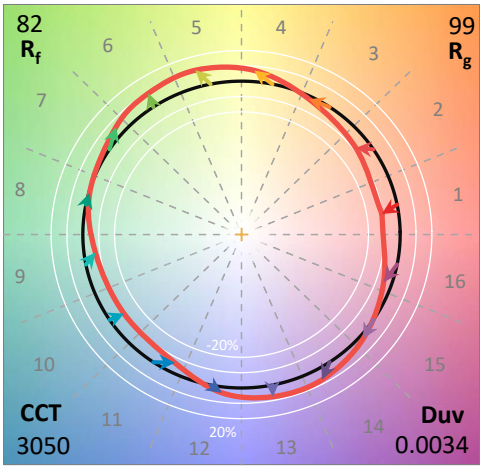
Test Information

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

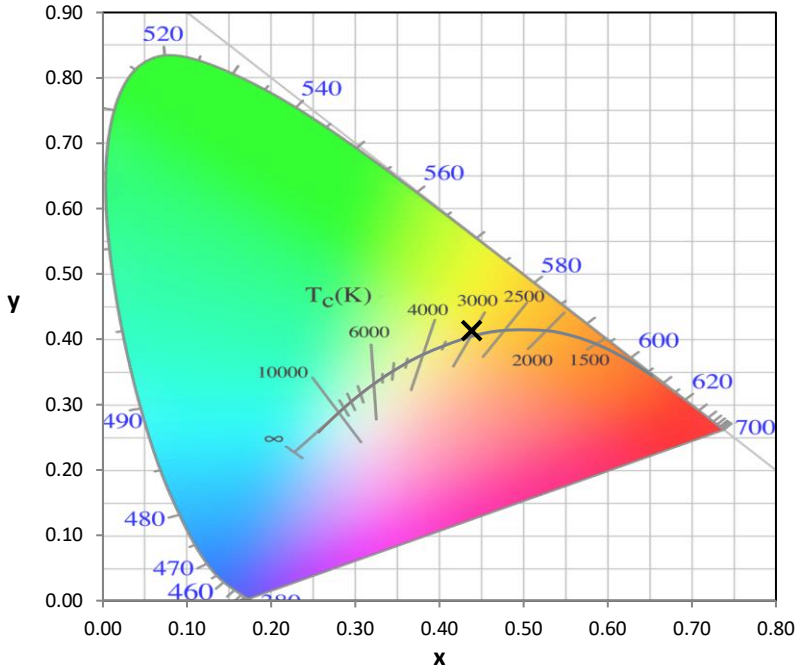
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

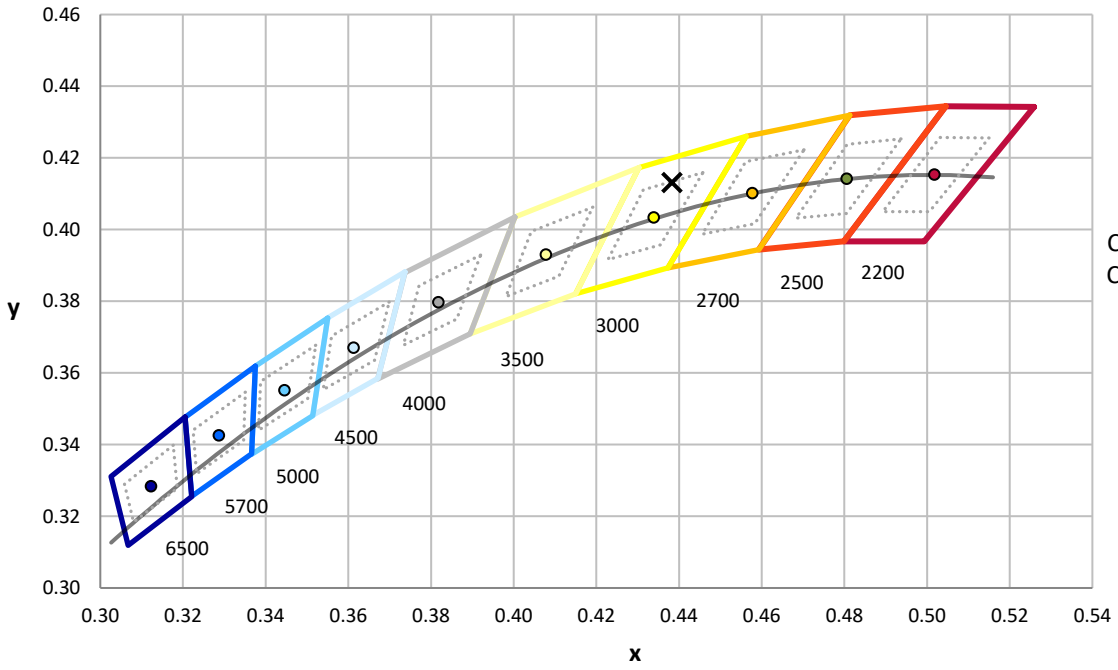
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

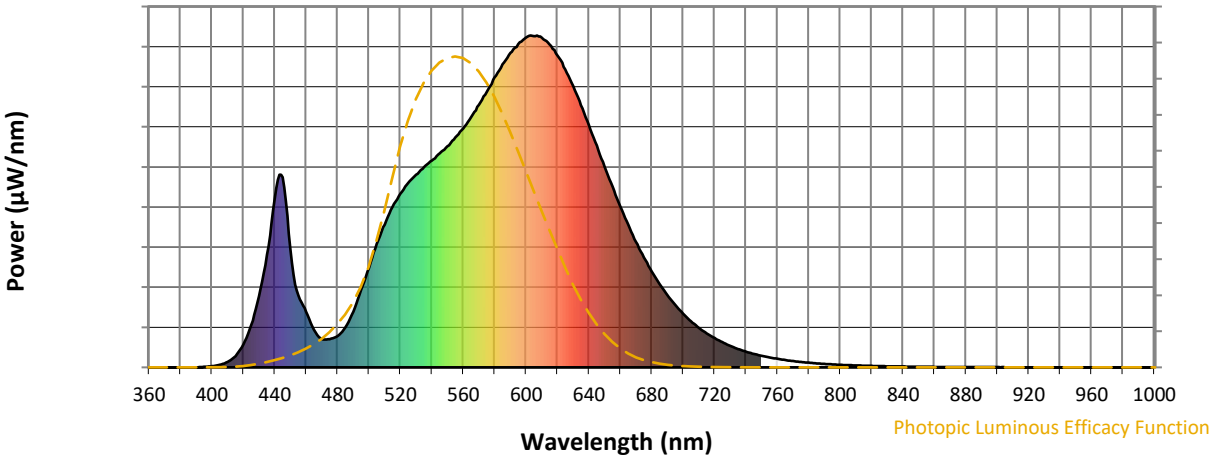


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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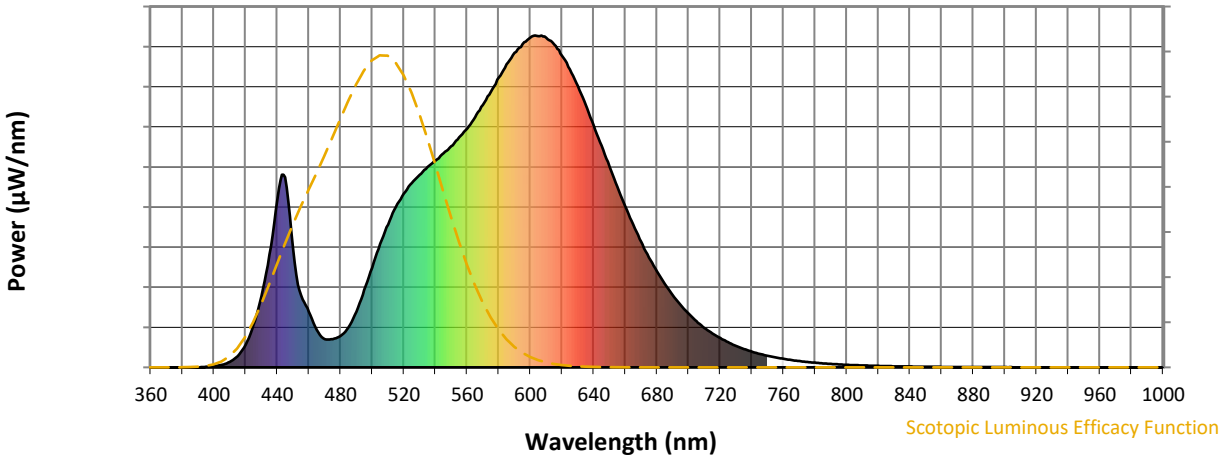
Scotopic Flux vs. Wavelength



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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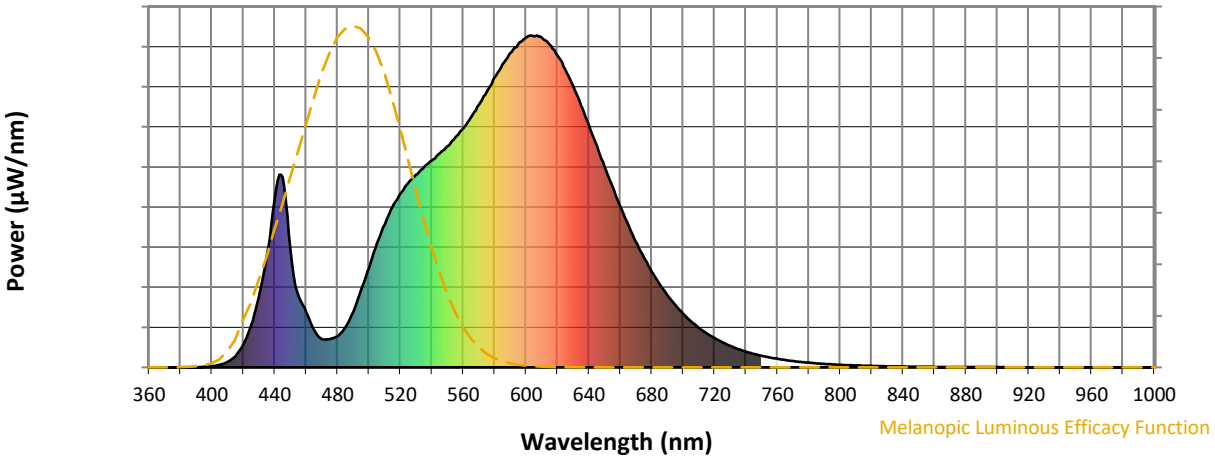
Melanopic Flux vs. Wavelength



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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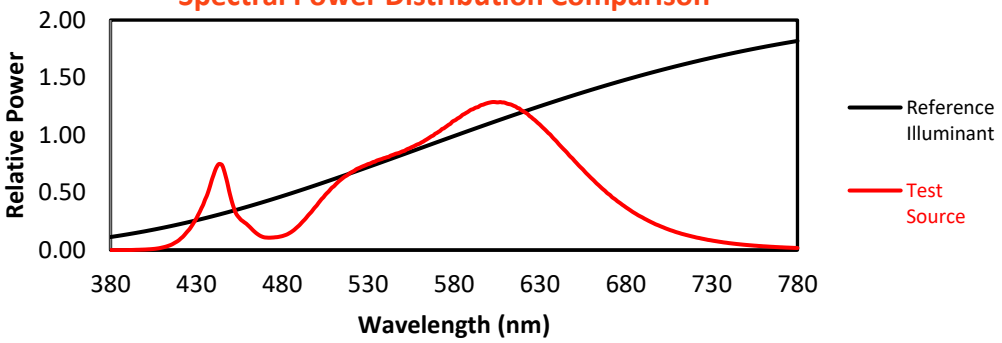
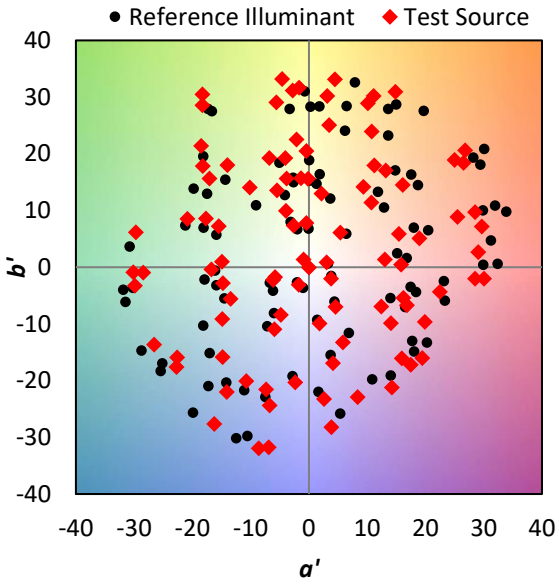
Summary

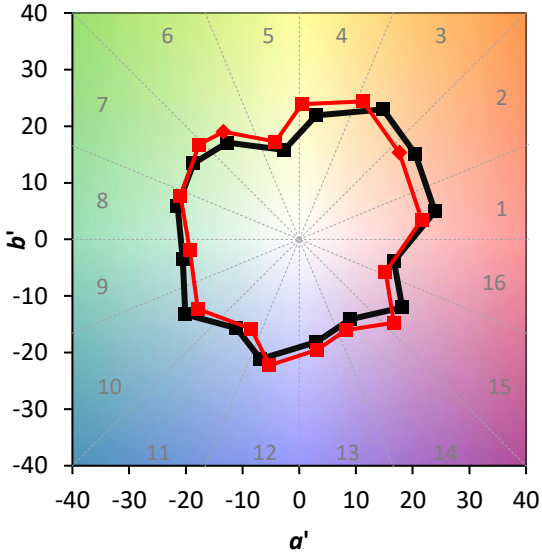
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

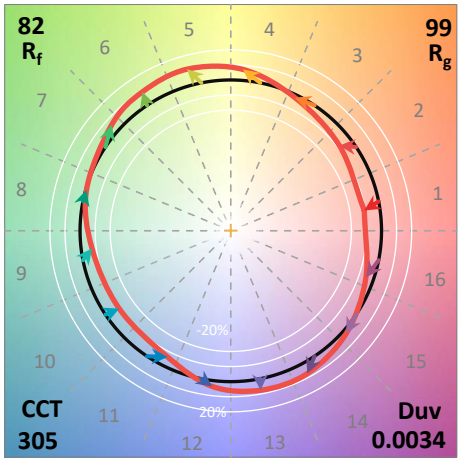
Spectral Power Distribution Comparison

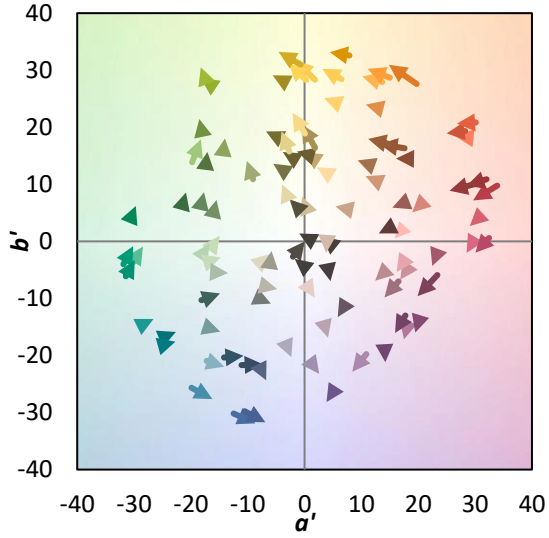


Color Vector Graphics









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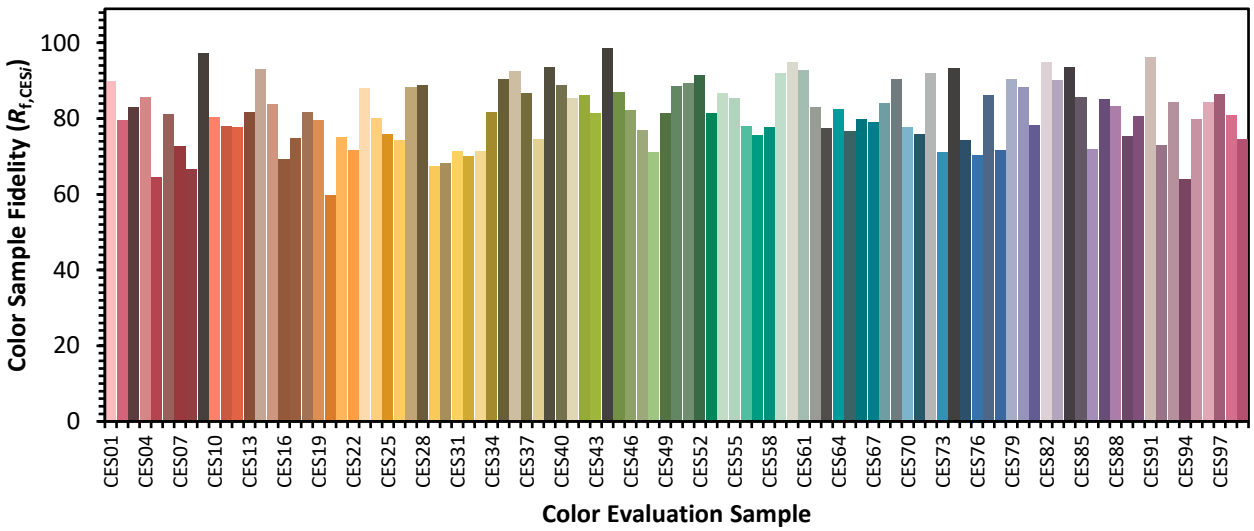
Individual Sample Fidelity Index ($R_{f,i}$)

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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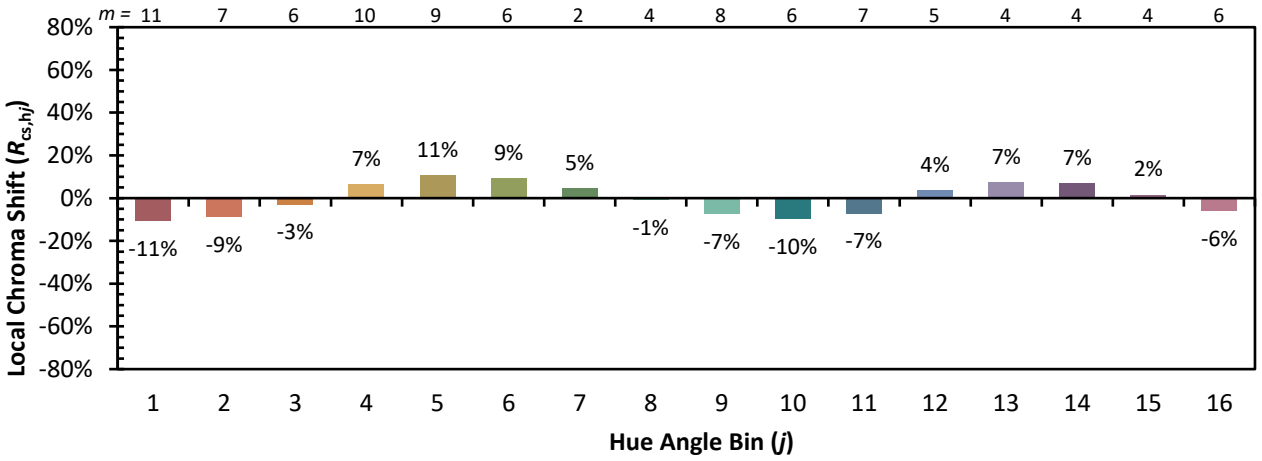
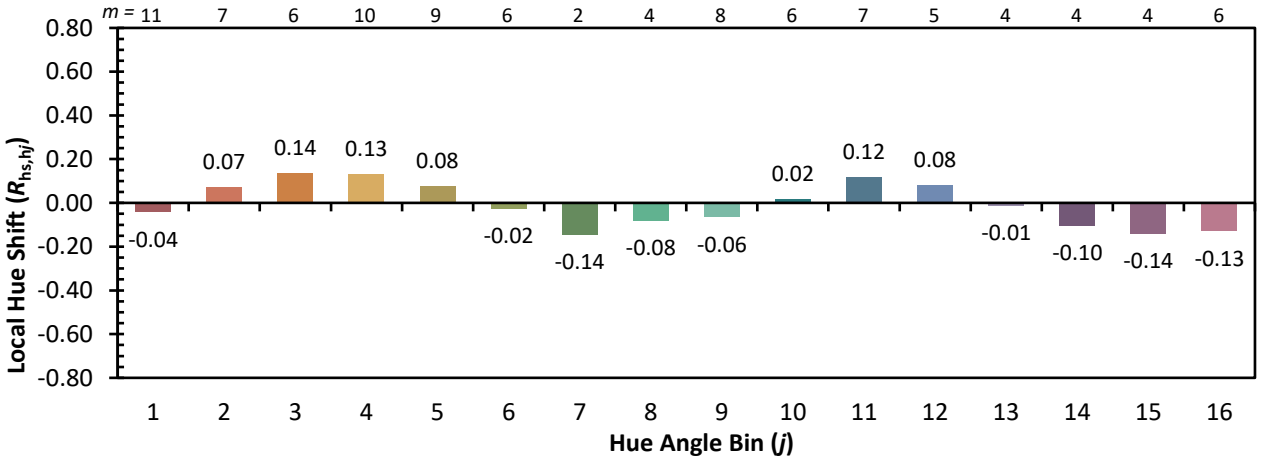
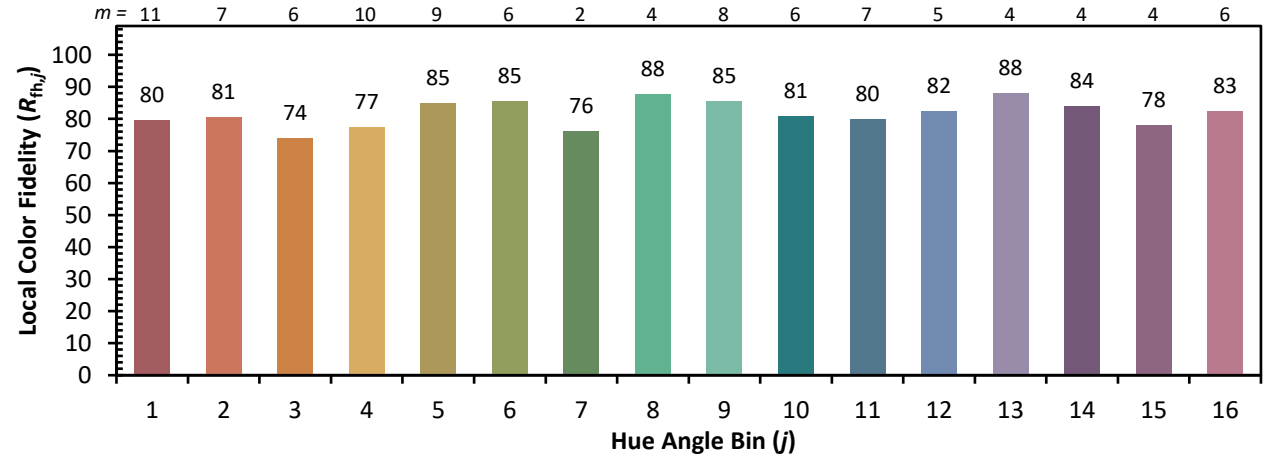
Color Rendition by Hue-Angle Bin







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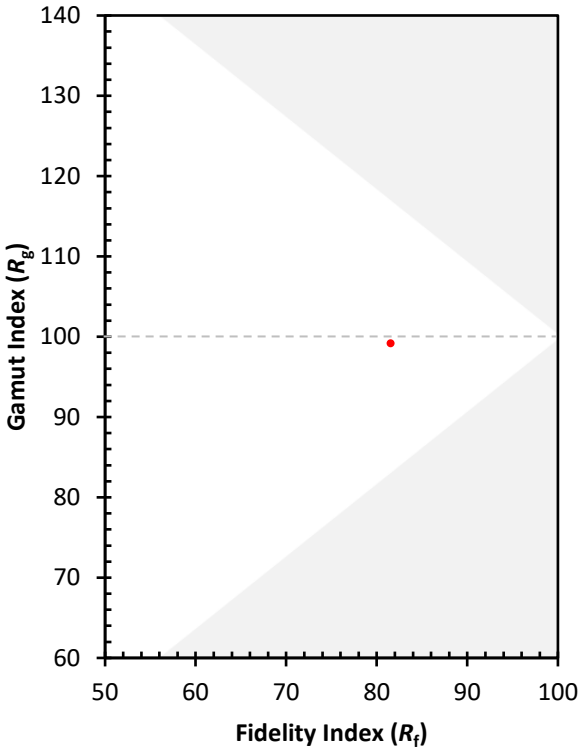
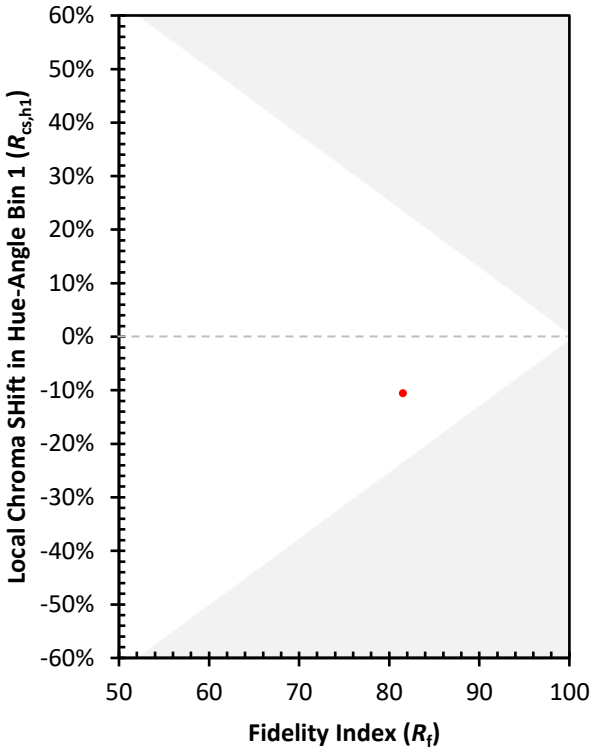
Measure Comparisons





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