

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: CORELITE

Report Number: P1436039

Luminaire Tested: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1436039
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

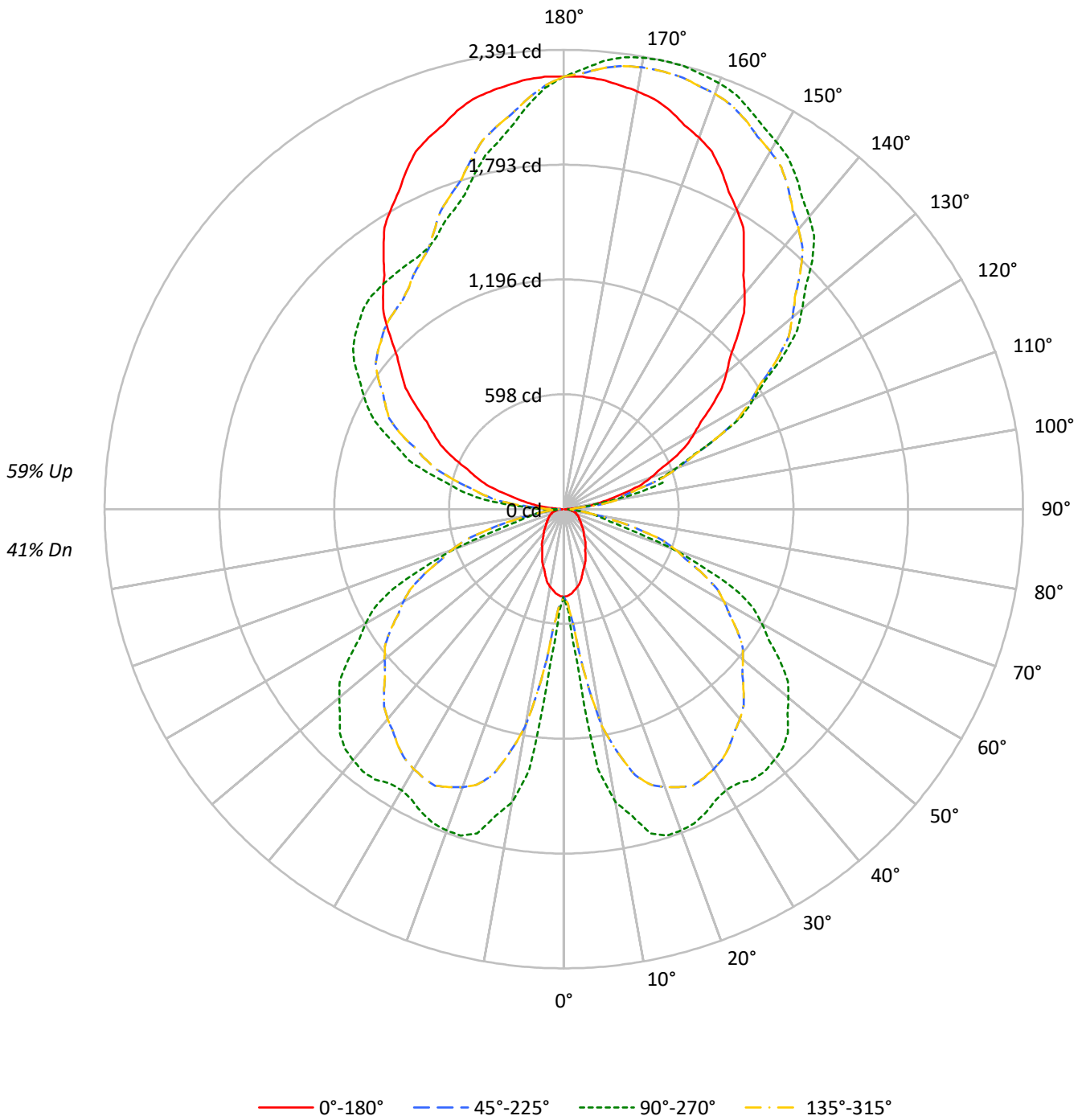
Lumens per Lamp: N/A
Luminaire Lumens: 11088.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	35	33	28
3	79	69	62	56	71	63	57	52	52	47	43	42	38	35	32	30	28	23
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	23	19
5	66	54	46	40	59	49	42	37	41	35	31	33	29	26	25	22	20	17
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	23	20	17	14
7	56	43	35	30	50	40	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13	11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7364	7364	7364	7364
5°	7180	13044	7180	13044
10°	6723	25382	6723	25382
15°	6084	29215	6084	29215
20°	5388	30596	5388	30596
25°	4765	31097	4765	31097
30°	4212	31481	4212	31481
35°	3761	33844	3761	33844
40°	3421	35959	3421	35959
45°	3156	37654	3156	37654
50°	2974	38338	2974	38338
55°	2902	38643	2902	38643
60°	2974	38452	2974	38452
65°	3098	37367	3098	37367
70°	3210	28262	3210	28262
75°	3556	15595	3556	15595
80°	3673	14477	3673	14477
85°	3649	6095	3649	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 38993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.7
10°-20°	348.7	3.1
20°-30°	613.6	5.5
30°-40°	794.3	7.2
40°-50°	876.0	7.9
50°-60°	817.6	7.4
60°-70°	631.6	5.7
70°-80°	291.2	2.6
80°-90°	65.0	0.6
90°-100°	179.2	1.6
100°-110°	522.6	4.7
110°-120°	852.8	7.7
120°-130°	1082.1	9.8
130°-140°	1157.9	10.4
140°-150°	1081.2	9.8
150°-160°	889.7	8.0
160°-170°	596.7	5.4
170°-180°	211.9	1.9
0°-30°	1038.7	9.4
0°-40°	1833.0	16.5
0°-60°	3526.6	31.8
0°-90°	4514.4	40.7
90°-120°	1554.5	14.0
90°-150°	4875.8	44.0
90°-180°	6574.0	59.3
0°-180°	11088.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	443	805	443	805	443	41
15°	364	1748	364	1748	364	101
25°	268	1746	268	1746	268	123
35°	191	1717	191	1717	191	120
45°	138	1649	138	1649	138	107
55°	103	1373	103	1373	103	93
65°	81	978	81	978	81	80
75°	57	250	57	250	57	59
85°	20	33	20	33	20	21
90°	7	50	7	98	7	6
95°	70	52	70	307	70	85
105°	332	532	332	732	332	353
115°	637	882	637	1087	637	628
125°	942	1399	942	1333	942	842
135°	1280	1831	1280	1476	1280	989
145°	1635	2110	1635	1508	1635	1023
155°	1942	2292	1942	1565	1942	893
165°	2147	2390	2147	1801	2147	604
175°	2245	2340	2245	2113	2245	213
180°	2252	2252	2252	2252	2252	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	452.6	461.2	469.8	478.9	488.3	498.4	509.4	518.7	523.4	528.1	523.4
5°	443.0	472.2	501.5	543.9	590.6	643.8	703.2	754.1	779.5	804.8	779.5
7.5°	425.9	485.3	544.8	670.8	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1
10°	410.1	492.9	575.8	789.5	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9
12.5°	392.5	505.0	617.5	881.3	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1
15°	364.0	524.8	685.7	983.9	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6
17.5°	334.6	548.7	762.7	1066.9	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5
20°	313.6	565.1	816.5	1121.3	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0
22.5°	294.3	575.4	856.5	1161.7	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4
25°	267.5	584.3	901.1	1205.4	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8
27.5°	241.7	576.4	911.1	1211.5	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0
30°	225.9	566.0	906.2	1203.9	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9
32.5°	211.8	553.6	895.3	1189.3	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9
35°	190.8	527.0	863.3	1154.2	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2
37.5°	172.8	493.1	813.3	1101.3	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8
40°	162.3	469.3	776.3	1062.1	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0
42.5°	151.8	442.4	733.0	1016.5	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5
45°	138.2	399.4	660.6	941.5	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0
47.5°	125.4	352.3	579.2	861.4	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5
50°	118.4	321.1	523.9	807.0	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8
52.5°	111.4	290.7	470.1	753.8	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2
55°	103.1	249.3	395.5	676.2	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2
57.5°	95.6	213.5	331.5	603.4	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8
60°	92.1	194.4	296.8	557.7	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1
62.5°	86.8	175.9	265.0	512.1	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9
65°	81.1	153.3	225.4	448.1	721.0	880.3	926.2	962.5	970.3	978.1	970.3
67.5°	73.2	134.5	195.7	389.5	627.5	760.7	789.2	806.9	792.2	777.6	792.2
70°	68.0	124.5	181.0	353.8	565.3	675.9	685.7	682.5	640.6	598.7	640.6
72.5°	64.5	114.8	165.1	314.6	497.3	577.9	556.4	520.5	441.2	361.8	441.2
75°	57.0	98.0	138.9	251.5	387.9	409.4	315.8	246.1	248.0	250.0	248.0
77.5°	46.5	77.1	107.7	176.9	259.0	275.2	225.7	189.0	190.8	192.5	190.8
80°	39.5	63.8	88.2	115.5	143.8	156.9	155.0	153.8	154.7	155.7	154.7
82.5°	32.5	50.6	68.7	85.1	100.9	109.7	111.7	112.8	111.5	110.1	111.5
85°	19.7	30.5	41.2	47.5	52.4	50.9	43.1	36.8	34.8	32.9	34.8
87.5°	8.4	14.1	20.3	20.7	19.0	17.9	17.9	18.3	18.8	18.8	18.8
90°	6.8	15.9	27.3	36.4	43.2	45.5	45.5	47.8	50.0	50.0	50.0
92.5°	25.0	39.6	40.0	40.0	48.7	52.8	56.4	56.9	59.1	59.1	59.1
95°	70.5	77.3	116.0	113.7	77.3	61.4	52.3	52.3	52.3	52.3	52.3
97.5°	134.6	144.6	151.0	202.4	213.8	206.5	168.3	141.5	126.4	119.6	126.4
100°	191.0	195.6	209.2	211.5	268.4	322.9	295.7	261.5	250.2	243.3	250.2
102.5°	247.4	250.2	271.1	280.6	293.8	324.8	419.4	408.9	401.2	399.8	401.2
105°	332.0	334.3	373.0	391.2	400.3	400.3	398.0	443.5	516.3	532.2	516.3
107.5°	422.6	433.0	478.5	527.2	537.6	540.4	528.5	521.7	519.0	520.8	519.0
110°	484.4	500.3	554.9	616.3	632.2	636.8	632.2	625.4	620.9	620.9	620.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	544.5	567.7	629.5	700.0	726.9	740.5	730.5	725.5	720.9	724.6	720.9
115°	636.8	670.9	752.8	825.6	880.1	887.0	884.7	884.7	882.4	882.4	882.4
117.5°	722.3	776.9	868.8	953.4	1016.6	1034.8	1043.9	1041.2	1038.4	1043.0	1038.4
120°	782.3	846.0	950.6	1046.2	1107.6	1134.9	1144.0	1139.4	1144.0	1139.4	1144.0
122.5°	846.0	924.3	1027.1	1126.2	1198.5	1229.5	1240.4	1241.3	1242.2	1239.5	1242.2
125°	941.5	1037.1	1157.6	1259.9	1335.0	1371.4	1380.5	1382.8	1387.3	1398.7	1387.3
127.5°	1038.0	1146.2	1278.6	1377.3	1454.2	1498.3	1512.4	1517.4	1526.9	1531.9	1526.9
130°	1105.3	1228.1	1362.3	1455.5	1530.6	1578.3	1603.4	1610.2	1621.6	1619.3	1621.6
132.5°	1176.3	1304.5	1440.5	1537.4	1607.0	1658.4	1679.8	1699.3	1703.4	1706.6	1703.4
135°	1280.4	1419.1	1555.6	1651.1	1717.1	1767.1	1794.4	1812.6	1824.0	1830.8	1824.0
137.5°	1390.0	1536.5	1667.5	1752.6	1819.0	1862.2	1893.1	1912.2	1924.0	1929.5	1924.0
140°	1464.6	1605.6	1733.0	1821.7	1880.8	1924.0	1951.3	1974.1	1987.7	1987.7	1987.7
142.5°	1535.6	1674.8	1798.5	1887.2	1939.0	1978.6	2007.7	2025.0	2040.5	2040.5	2040.5
145°	1635.2	1773.9	1887.6	1976.3	2019.6	2055.9	2087.8	2101.4	2110.5	2110.5	2110.5
147.5°	1739.4	1862.2	1965.9	2050.9	2087.3	2130.1	2155.1	2166.0	2177.4	2172.4	2177.4
150°	1801.2	1914.9	2015.0	2094.6	2131.0	2171.9	2196.9	2206.0	2217.4	2210.6	2217.4
152.5°	1861.3	1969.5	2060.5	2134.6	2165.6	2206.5	2235.2	2244.2	2252.0	2247.0	2252.0
155°	1942.2	2037.7	2121.9	2190.1	2217.4	2256.1	2283.4	2294.7	2303.8	2292.5	2303.8
157.5°	2014.5	2096.9	2170.1	2232.9	2262.0	2295.2	2320.7	2334.8	2343.9	2338.9	2343.9
160°	2058.2	2133.3	2199.2	2258.3	2285.6	2315.2	2342.5	2358.4	2367.5	2360.7	2367.5
162.5°	2094.6	2162.4	2224.7	2278.4	2302.0	2327.9	2360.7	2374.8	2383.9	2375.2	2383.9
165°	2146.9	2201.5	2256.1	2301.6	2322.0	2342.5	2376.6	2392.5	2399.4	2390.3	2399.4
167.5°	2186.5	2228.3	2272.5	2311.6	2326.6	2346.6	2380.7	2393.9	2402.5	2391.2	2402.5
170°	2208.3	2244.7	2283.4	2315.2	2326.6	2344.8	2378.9	2390.3	2397.1	2385.7	2397.1
172.5°	2226.5	2253.8	2285.2	2313.4	2319.3	2333.9	2366.2	2377.5	2382.5	2373.0	2382.5
175°	2244.7	2260.6	2283.4	2301.6	2299.3	2308.4	2335.7	2344.8	2353.9	2340.2	2353.9
177.5°	2253.3	2260.6	2267.9	2278.8	2271.5	2271.5	2291.6	2297.0	2298.8	2291.6	2298.8
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	518.7	509.4	498.4	488.3	478.9	469.8	461.2	452.6	461.2	469.8	478.9
5°	754.1	703.2	643.8	590.6	543.9	501.5	472.2	443.0	472.2	501.5	543.9
7.5°	1264.4	1132.1	972.7	818.9	670.8	544.8	485.3	425.9	485.3	544.8	670.8
10°	1493.6	1383.0	1244.6	1046.8	789.5	575.8	492.9	410.1	492.9	575.8	789.5
12.5°	1578.1	1498.2	1401.2	1195.5	881.3	617.5	505.0	392.5	505.0	617.5	881.3
15°	1685.4	1618.4	1539.5	1328.0	983.9	685.7	524.8	364.0	524.8	685.7	983.9
17.5°	1748.5	1685.7	1607.5	1401.2	1066.9	762.7	548.7	334.6	548.7	762.7	1066.9
20°	1759.2	1706.1	1638.9	1443.9	1121.3	816.5	565.1	313.6	565.1	816.5	1121.3
22.5°	1748.9	1707.9	1657.0	1474.9	1161.7	856.5	575.4	294.3	575.4	856.5	1161.7
25°	1730.0	1703.9	1671.8	1505.6	1205.4	901.1	584.3	267.5	584.3	901.1	1205.4
27.5°	1694.4	1676.7	1655.7	1500.6	1211.5	911.1	576.4	241.7	576.4	911.1	1211.5
30°	1667.1	1652.8	1637.2	1487.6	1203.9	906.2	566.0	225.9	566.0	906.2	1203.9
32.5°	1645.7	1628.8	1614.0	1467.5	1189.3	895.3	553.6	211.8	553.6	895.3	1189.3
35°	1631.3	1603.0	1579.7	1430.1	1154.2	863.3	527.0	190.8	527.0	863.3	1154.2
37.5°	1637.5	1590.5	1541.5	1378.5	1101.3	813.3	493.1	172.8	493.1	813.3	1101.3
40°	1635.9	1578.2	1512.9	1340.9	1062.1	776.3	469.3	162.3	469.3	776.3	1062.1
42.5°	1618.4	1552.5	1476.2	1297.6	1016.5	733.0	442.4	151.8	442.4	733.0	1016.5
45°	1582.8	1507.3	1417.6	1229.0	941.5	660.6	399.4	138.2	399.4	660.6	941.5
47.5°	1532.3	1455.0	1359.8	1162.0	861.4	579.2	352.3	125.4	352.3	579.2	861.4
50°	1487.3	1412.3	1318.7	1116.9	807.0	523.9	321.1	118.4	321.1	523.9	807.0
52.5°	1434.3	1363.7	1275.6	1072.3	753.8	470.1	290.7	111.4	290.7	470.1	753.8
55°	1341.6	1280.0	1203.0	1001.7	676.2	395.5	249.3	103.1	249.3	395.5	676.2
57.5°	1239.1	1186.7	1121.0	926.5	603.4	331.5	213.5	95.6	213.5	331.5	603.4
60°	1165.4	1117.7	1058.2	871.6	557.7	296.8	194.4	92.1	194.4	296.8	557.7
62.5°	1088.0	1044.0	989.2	811.9	512.1	265.0	175.9	86.8	175.9	265.0	512.1
65°	962.5	926.2	880.3	721.0	448.1	225.4	153.3	81.1	153.3	225.4	448.1
67.5°	806.9	789.2	760.7	627.5	389.5	195.7	134.5	73.2	134.5	195.7	389.5
70°	682.5	685.7	675.9	565.3	353.8	181.0	124.5	68.0	124.5	181.0	353.8
72.5°	520.5	556.4	577.9	497.3	314.6	165.1	114.8	64.5	114.8	165.1	314.6
75°	246.1	315.8	409.4	387.9	251.5	138.9	98.0	57.0	98.0	138.9	251.5
77.5°	189.0	225.7	275.2	259.0	176.9	107.7	77.1	46.5	77.1	107.7	176.9
80°	153.8	155.0	156.9	143.8	115.5	88.2	63.8	39.5	63.8	88.2	115.5
82.5°	112.8	111.7	109.7	100.9	85.1	68.7	50.6	32.5	50.6	68.7	85.1
85°	36.8	43.1	50.9	52.4	47.5	41.2	30.5	19.7	30.5	41.2	47.5
87.5°	18.3	17.9	17.9	19.0	20.7	20.3	14.1	8.4	14.1	19.8	21.6
90°	47.8	45.5	45.5	43.2	36.4	27.3	15.9	6.8	15.9	25.0	40.9
92.5°	56.9	56.4	52.8	48.7	40.0	40.0	39.6	25.0	43.2	61.4	88.2
95°	52.3	52.3	61.4	77.3	113.7	116.0	77.3	70.5	100.1	141.0	177.4
97.5°	141.5	168.3	206.5	213.8	202.4	151.0	144.6	134.6	183.3	223.8	282.5
100°	261.5	295.7	322.9	268.4	211.5	209.2	195.6	191.0	243.3	282.0	338.9
102.5°	408.9	419.4	324.8	293.8	280.6	271.1	250.2	247.4	299.7	353.0	400.7
105°	443.5	398.0	400.3	400.3	391.2	373.0	334.3	332.0	391.2	452.6	511.7
107.5°	521.7	528.5	540.4	537.6	527.2	478.5	433.0	422.6	475.8	549.5	614.5
110°	625.4	632.2	636.8	632.2	616.3	554.9	500.3	484.4	532.2	609.5	680.0



TEST NUMBER: P1436039

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	725.5	730.5	740.5	726.9	700.0	629.5	567.7	544.5	592.2	671.4	743.7
115°	884.7	884.7	887.0	880.1	825.6	752.8	670.9	636.8	677.7	750.5	830.1
117.5°	1041.2	1043.9	1034.8	1016.6	953.4	868.8	776.9	722.3	754.6	831.5	913.3
120°	1139.4	1144.0	1134.9	1107.6	1046.2	950.6	846.0	782.3	807.4	882.4	964.3
122.5°	1241.3	1240.4	1229.5	1198.5	1126.2	1027.1	924.3	846.0	856.5	926.1	1006.1
125°	1382.8	1380.5	1371.4	1335.0	1259.9	1157.6	1037.1	941.5	927.9	987.0	1068.9
127.5°	1517.4	1512.4	1498.3	1454.2	1377.3	1278.6	1146.2	1038.0	1007.5	1044.8	1119.9
130°	1610.2	1603.4	1578.3	1530.6	1455.5	1362.3	1228.1	1105.3	1062.1	1084.8	1150.8
132.5°	1699.3	1679.8	1658.4	1607.0	1537.4	1440.5	1304.5	1176.3	1116.7	1126.7	1178.1
135°	1812.6	1794.4	1767.1	1717.1	1651.1	1555.6	1419.1	1280.4	1198.5	1189.4	1219.0
137.5°	1912.2	1893.1	1862.2	1819.0	1752.6	1667.5	1536.5	1390.0	1286.8	1256.3	1267.7
140°	1974.1	1951.3	1924.0	1880.8	1821.7	1733.0	1605.6	1464.6	1348.6	1305.4	1298.6
142.5°	2025.0	2007.7	1978.6	1939.0	1887.2	1798.5	1674.8	1535.6	1412.3	1356.4	1340.5
145°	2101.4	2087.8	2055.9	2019.6	1976.3	1887.6	1773.9	1635.2	1512.4	1439.6	1405.5
147.5°	2166.0	2155.1	2130.1	2087.3	2050.9	1965.9	1862.2	1739.4	1613.4	1523.3	1479.2
150°	2206.0	2196.9	2171.9	2131.0	2094.6	2015.0	1914.9	1801.2	1680.7	1585.2	1528.3
152.5°	2244.2	2235.2	2206.5	2165.6	2134.6	2060.5	1969.5	1861.3	1738.9	1643.4	1584.7
155°	2294.7	2283.4	2256.1	2217.4	2190.1	2121.9	2037.7	1942.2	1837.6	1737.5	1671.6
157.5°	2334.8	2320.7	2295.2	2262.0	2232.9	2170.1	2096.9	2014.5	1923.1	1827.6	1760.3
160°	2358.4	2342.5	2315.2	2285.6	2258.3	2199.2	2133.3	2058.2	1974.1	1887.6	1814.9
162.5°	2374.8	2360.7	2327.9	2302.0	2278.4	2224.7	2162.4	2094.6	2019.6	1944.0	1876.7
165°	2392.5	2376.6	2342.5	2322.0	2301.6	2256.1	2201.5	2146.9	2083.2	2021.8	1967.2
167.5°	2393.9	2380.7	2346.6	2326.6	2311.6	2272.5	2228.3	2186.5	2136.9	2088.7	2043.2
170°	2390.3	2378.9	2344.8	2326.6	2315.2	2283.4	2244.7	2208.3	2169.7	2128.7	2092.3
172.5°	2377.5	2366.2	2333.9	2319.3	2313.4	2285.2	2253.8	2226.5	2193.3	2163.3	2134.2
175°	2344.8	2335.7	2308.4	2299.3	2301.6	2283.4	2260.6	2244.7	2224.2	2206.0	2190.1
177.5°	2297.0	2291.6	2271.5	2271.5	2278.8	2267.9	2260.6	2253.3	2244.2	2238.8	2233.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	488.3	498.4	509.4	518.7	523.4	528.1	523.4	518.7	509.4	498.4	488.3
5°	590.6	643.8	703.2	754.1	779.5	804.8	779.5	754.1	703.2	643.8	590.6
7.5°	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1	1264.4	1132.1	972.7	818.9
10°	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9	1493.6	1383.0	1244.6	1046.8
12.5°	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1	1578.1	1498.2	1401.2	1195.5
15°	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6	1685.4	1618.4	1539.5	1328.0
17.5°	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5	1748.5	1685.7	1607.5	1401.2
20°	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0	1759.2	1706.1	1638.9	1443.9
22.5°	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4	1748.9	1707.9	1657.0	1474.9
25°	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8	1730.0	1703.9	1671.8	1505.6
27.5°	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0	1694.4	1676.7	1655.7	1500.6
30°	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9	1667.1	1652.8	1637.2	1487.6
32.5°	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9	1645.7	1628.8	1614.0	1467.5
35°	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2	1631.3	1603.0	1579.7	1430.1
37.5°	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8	1637.5	1590.5	1541.5	1378.5
40°	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0	1635.9	1578.2	1512.9	1340.9
42.5°	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5	1618.4	1552.5	1476.2	1297.6
45°	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0	1582.8	1507.3	1417.6	1229.0
47.5°	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5	1532.3	1455.0	1359.8	1162.0
50°	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8	1487.3	1412.3	1318.7	1116.9
52.5°	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2	1434.3	1363.7	1275.6	1072.3
55°	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2	1341.6	1280.0	1203.0	1001.7
57.5°	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8	1239.1	1186.7	1121.0	926.5
60°	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1	1165.4	1117.7	1058.2	871.6
62.5°	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9	1088.0	1044.0	989.2	811.9
65°	721.0	880.3	926.2	962.5	970.3	978.1	970.3	962.5	926.2	880.3	721.0
67.5°	627.5	760.7	789.2	806.9	792.2	777.6	792.2	806.9	789.2	760.7	627.5
70°	565.3	675.9	685.7	682.5	640.6	598.7	640.6	682.5	685.7	675.9	565.3
72.5°	497.3	577.9	556.4	520.5	441.2	361.8	441.2	520.5	556.4	577.9	497.3
75°	387.9	409.4	315.8	246.1	248.0	250.0	248.0	246.1	315.8	409.4	387.9
77.5°	259.0	275.2	225.7	189.0	190.8	192.5	190.8	189.0	225.7	275.2	259.0
80°	143.8	156.9	155.0	153.8	154.7	155.7	154.7	153.8	155.0	156.9	143.8
82.5°	100.9	109.7	111.7	112.8	111.5	110.1	111.5	112.8	111.7	109.7	100.9
85°	52.4	50.9	43.1	36.8	34.8	32.9	34.8	36.8	43.1	50.9	52.4
87.5°	20.8	22.4	25.6	27.4	29.2	28.3	29.2	27.4	25.6	22.4	20.8
90°	52.3	68.2	84.1	93.2	102.3	97.8	102.3	93.2	84.1	68.2	52.3
92.5°	105.1	131.9	151.5	167.8	175.1	174.2	175.1	167.8	151.5	131.9	105.1
95°	211.5	243.3	275.2	297.9	311.6	307.0	311.6	297.9	275.2	243.3	211.5
97.5°	326.1	368.9	404.4	425.7	439.4	448.5	439.4	425.7	404.4	368.9	326.1
100°	402.5	443.5	484.4	509.4	532.2	541.3	532.2	509.4	484.4	443.5	402.5
102.5°	464.4	518.1	562.7	589.5	608.6	617.7	608.6	589.5	562.7	518.1	464.4
105°	566.3	623.1	670.9	705.0	725.5	732.3	725.5	705.0	670.9	623.1	566.3
107.5°	668.2	726.9	771.0	808.7	833.7	848.3	833.7	808.7	771.0	726.9	668.2
110°	748.2	796.0	843.8	877.9	902.9	912.0	902.9	877.9	843.8	796.0	748.2



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CATALOG NUMBER: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	815.6	868.8	916.5	950.6	979.3	992.0	979.3	950.6	916.5	868.8	815.6
115°	909.7	980.2	1023.4	1055.3	1075.7	1087.1	1075.7	1055.3	1023.4	980.2	909.7
117.5°	987.9	1061.6	1108.9	1133.5	1143.0	1151.2	1143.0	1133.5	1108.9	1061.6	987.9
120°	1037.1	1105.3	1159.9	1191.7	1203.1	1207.6	1203.1	1191.7	1159.9	1105.3	1037.1
122.5°	1082.6	1147.1	1199.9	1239.0	1257.7	1262.2	1257.7	1239.0	1199.9	1147.1	1082.6
125°	1146.2	1207.6	1262.2	1300.9	1321.4	1332.7	1321.4	1300.9	1262.2	1207.6	1146.2
127.5°	1201.7	1268.1	1318.2	1353.2	1373.2	1382.3	1373.2	1353.2	1318.2	1268.1	1201.7
130°	1232.7	1300.9	1350.9	1389.6	1407.8	1416.9	1407.8	1389.6	1350.9	1300.9	1232.7
132.5°	1256.3	1328.2	1380.0	1415.1	1435.1	1444.2	1435.1	1415.1	1380.0	1328.2	1256.3
135°	1285.0	1360.0	1414.6	1448.7	1466.9	1476.0	1466.9	1448.7	1414.6	1360.0	1285.0
137.5°	1310.0	1378.2	1435.1	1471.0	1487.4	1493.3	1487.4	1471.0	1435.1	1378.2	1310.0
140°	1328.2	1387.3	1444.2	1478.3	1496.5	1498.7	1496.5	1478.3	1444.2	1387.3	1328.2
142.5°	1351.8	1398.2	1447.8	1481.9	1500.1	1504.2	1500.1	1481.9	1447.8	1398.2	1351.8
145°	1394.1	1421.4	1455.5	1487.4	1503.3	1507.8	1503.3	1487.4	1455.5	1421.4	1394.1
147.5°	1447.3	1456.0	1473.7	1494.6	1510.1	1513.3	1510.1	1494.6	1473.7	1456.0	1447.3
150°	1487.4	1485.1	1491.9	1505.6	1519.2	1516.9	1519.2	1505.6	1491.9	1485.1	1487.4
152.5°	1532.9	1519.7	1519.2	1525.6	1531.9	1531.5	1531.9	1525.6	1519.2	1519.7	1532.9
155°	1610.2	1585.2	1571.5	1567.0	1567.0	1564.7	1567.0	1567.0	1571.5	1585.2	1610.2
157.5°	1695.2	1660.2	1639.7	1628.8	1625.6	1620.6	1625.6	1628.8	1639.7	1660.2	1695.2
160°	1753.5	1714.8	1694.3	1676.1	1669.3	1662.5	1669.3	1676.1	1694.3	1714.8	1753.5
162.5°	1808.0	1771.2	1748.9	1732.5	1725.7	1715.3	1725.7	1732.5	1748.9	1771.2	1808.0
165°	1896.7	1858.1	1833.1	1819.4	1810.3	1801.2	1810.3	1819.4	1833.1	1858.1	1896.7
167.5°	1985.4	1943.1	1926.8	1911.3	1902.7	1886.3	1902.7	1911.3	1926.8	1943.1	1985.4
170°	2040.0	2001.4	1992.3	1978.6	1962.7	1944.5	1962.7	1978.6	1992.3	2001.4	2040.0
172.5°	2087.3	2061.4	2052.3	2038.7	2033.7	2019.1	2033.7	2038.7	2052.3	2061.4	2087.3
175°	2156.0	2135.5	2135.5	2133.3	2126.4	2112.8	2126.4	2133.3	2135.5	2135.5	2156.0
177.5°	2213.3	2202.4	2209.7	2209.7	2207.9	2195.1	2207.9	2209.7	2209.7	2202.4	2213.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1436039

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	456.1	456.1	456.1	456.1
2.5°	478.9	469.8	461.2	452.6
5°	543.9	501.5	472.2	443.0
7.5°	670.8	544.8	485.3	425.9
10°	789.5	575.8	492.9	410.1
12.5°	881.3	617.5	505.0	392.5
15°	983.9	685.7	524.8	364.0
17.5°	1066.9	762.7	548.7	334.6
20°	1121.3	816.5	565.1	313.6
22.5°	1161.7	856.5	575.4	294.3
25°	1205.4	901.1	584.3	267.5
27.5°	1211.5	911.1	576.4	241.7
30°	1203.9	906.2	566.0	225.9
32.5°	1189.3	895.3	553.6	211.8
35°	1154.2	863.3	527.0	190.8
37.5°	1101.3	813.3	493.1	172.8
40°	1062.1	776.3	469.3	162.3
42.5°	1016.5	733.0	442.4	151.8
45°	941.5	660.6	399.4	138.2
47.5°	861.4	579.2	352.3	125.4
50°	807.0	523.9	321.1	118.4
52.5°	753.8	470.1	290.7	111.4
55°	676.2	395.5	249.3	103.1
57.5°	603.4	331.5	213.5	95.6
60°	557.7	296.8	194.4	92.1
62.5°	512.1	265.0	175.9	86.8
65°	448.1	225.4	153.3	81.1
67.5°	389.5	195.7	134.5	73.2
70°	353.8	181.0	124.5	68.0
72.5°	314.6	165.1	114.8	64.5
75°	251.5	138.9	98.0	57.0
77.5°	176.9	107.7	77.1	46.5
80°	115.5	88.2	63.8	39.5
82.5°	85.1	68.7	50.6	32.5
85°	47.5	41.2	30.5	19.7
87.5°	21.6	19.8	14.1	8.4
90°	40.9	25.0	15.9	6.8
92.5°	88.2	61.4	43.2	25.0
95°	177.4	141.0	100.1	70.5
97.5°	282.5	223.8	183.3	134.6
100°	338.9	282.0	243.3	191.0
102.5°	400.7	353.0	299.7	247.4
105°	511.7	452.6	391.2	332.0
107.5°	614.5	549.5	475.8	422.6
110°	680.0	609.5	532.2	484.4



TEST NUMBER: P1436039

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	743.7	671.4	592.2	544.5
115°	830.1	750.5	677.7	636.8
117.5°	913.3	831.5	754.6	722.3
120°	964.3	882.4	807.4	782.3
122.5°	1006.1	926.1	856.5	846.0
125°	1068.9	987.0	927.9	941.5
127.5°	1119.9	1044.8	1007.5	1038.0
130°	1150.8	1084.8	1062.1	1105.3
132.5°	1178.1	1126.7	1116.7	1176.3
135°	1219.0	1189.4	1198.5	1280.4
137.5°	1267.7	1256.3	1286.8	1390.0
140°	1298.6	1305.4	1348.6	1464.6
142.5°	1340.5	1356.4	1412.3	1535.6
145°	1405.5	1439.6	1512.4	1635.2
147.5°	1479.2	1523.3	1613.4	1739.4
150°	1528.3	1585.2	1680.7	1801.2
152.5°	1584.7	1643.4	1738.9	1861.3
155°	1671.6	1737.5	1837.6	1942.2
157.5°	1760.3	1827.6	1923.1	2014.5
160°	1814.9	1887.6	1974.1	2058.2
162.5°	1876.7	1944.0	2019.6	2094.6
165°	1967.2	2021.8	2083.2	2146.9
167.5°	2043.2	2088.7	2136.9	2186.5
170°	2092.3	2128.7	2169.7	2208.3
172.5°	2134.2	2163.3	2193.3	2226.5
175°	2190.1	2206.0	2224.2	2244.7
177.5°	2233.3	2238.8	2244.2	2253.3
180°	2251.5	2251.5	2251.5	2251.5



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.19	13.00	13.22	14.04	15.43	21.79	22.59	22.82	23.63	25.03
	3H	13.13	13.85	14.17	14.90	16.31	23.39	24.11	24.43	25.16	26.58
	4H	13.52	14.21	14.57	15.26	16.68	23.56	24.25	24.61	25.30	26.72
	6H	13.77	14.40	14.83	15.46	16.89	23.64	24.27	24.70	25.32	26.76
	8H	13.86	14.46	14.93	15.53	16.96	23.65	24.25	24.72	25.32	26.75
	12H	13.91	14.48	14.98	15.55	17.00	23.63	24.20	24.70	25.26	26.72
4H	2H	16.91	17.59	17.96	18.64	20.06	22.15	22.83	23.20	23.88	25.30
	3H	18.03	18.60	19.09	19.68	21.11	24.03	24.60	25.09	25.68	27.11
	4H	18.31	18.83	19.38	19.90	21.36	24.25	24.77	25.32	25.84	27.30
	6H	18.44	18.89	19.52	19.98	21.43	24.38	24.82	25.46	25.92	27.37
	8H	18.48	18.90	19.56	19.98	21.45	24.42	24.84	25.50	25.92	27.39
	12H	18.48	18.85	19.58	19.95	21.43	24.40	24.78	25.50	25.88	27.35
8H	4H	19.50	19.91	20.58	21.00	22.47	24.33	24.75	25.42	25.84	27.30
	6H	19.75	20.10	20.86	21.22	22.69	24.53	24.87	25.63	26.00	27.47
	8H	19.85	20.15	20.96	21.26	22.74	24.62	24.92	25.73	26.03	27.51
	12H	19.89	20.15	21.00	21.26	22.78	24.62	24.89	25.74	25.99	27.51
12H	4H	19.52	19.90	20.62	20.99	22.47	24.28	24.66	25.38	25.76	27.23
	6H	19.86	20.16	20.97	21.27	22.75	24.51	24.81	25.62	25.92	27.41
	8H	19.99	20.26	21.11	21.36	22.88	24.61	24.87	25.72	25.98	27.50