

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: P1428095

Luminaire Tested: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428095  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE PRISM LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

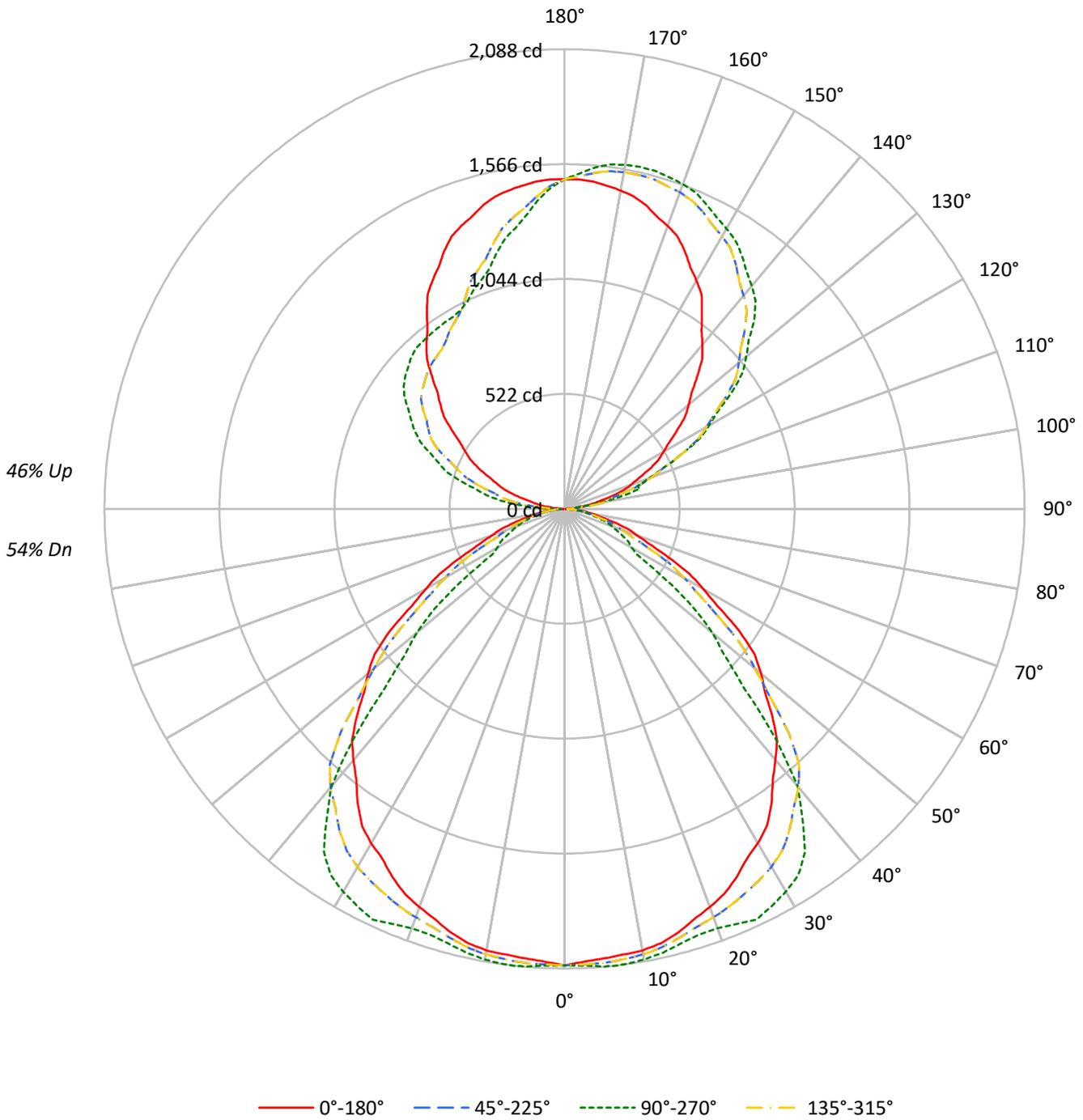
Lumens per Lamp: N/A  
Luminaire Lumens: 9602.3 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.7  
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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CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54		
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52	47		
2	91	84	78	73	84	78	73	69	67	64	60	57	55	52	48	46	45	40		
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	39	35		
4	76	66	58	52	71	62	55	49	53	48	44	46	42	39	39	36	34	30		
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26		
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	29	26	23		
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21		
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	19		
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17		
10	48	36	29	25	45	34	28	23	30	25	21	27	22	19	23	20	17	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	33494	33494	33494	33494
5°	33231	33836	33231	33836
10°	33401	34083	33401	34083
15°	33320	34162	33320	34162
20°	33082	34853	33082	34853
25°	32895	36684	32895	36684
30°	32708	37449	32708	37449
35°	32244	37518	32244	37518
40°	31383	34665	31383	34665
45°	30444	26388	30444	26388
50°	29250	21978	29250	21978
55°	27223	15803	27223	15803
60°	23440	11331	23440	11331
65°	19770	11144	19770	11144
70°	16461	10664	16461	10664
75°	13955	9987	13955	9987
80°	11827	8972	11827	8972
85°	9337	4872	9337	4872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33305 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	2.1
10°-20°	571.7	6.0
20°-30°	895.7	9.3
30°-40°	1104.9	11.5
40°-50°	1040.2	10.8
50°-60°	736.5	7.7
60°-70°	419.7	4.4
70°-80°	207.7	2.2
80°-90°	57.0	0.6
90°-100°	119.2	1.2
100°-110°	347.5	3.6
110°-120°	567.1	5.9
120°-130°	719.6	7.5
130°-140°	770.0	8.0
140°-150°	719.0	7.5
150°-160°	591.6	6.2
160°-170°	396.8	4.1
170°-180°	140.9	1.5
0°-30°	1664.9	17.3
0°-40°	2769.8	28.8
0°-60°	4546.5	47.3
0°-90°	5230.9	54.5
90°-120°	1033.7	10.8
90°-150°	3242.2	33.8
90°-180°	4371.0	45.5
0°-180°	9602.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2074	2074	2074	2074	2074	
5°	2050	2088	2050	2088	2050	195
15°	1993	2044	1993	2044	1993	562
25°	1846	2059	1846	2059	1846	850
35°	1636	1904	1636	1904	1636	1020
45°	1333	1156	1333	1156	1333	1026
55°	967	561	967	561	967	853
65°	518	292	518	292	518	520
75°	224	160	224	160	224	242
85°	50	26	50	26	50	59
90°	4	33	4	65	4	6
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2058.7	2072.0	2085.3	2082.1	2073.6	2070.1	2071.6	2073.2	2074.7	2076.3	2074.7
5°	2050.4	2067.0	2083.6	2081.1	2072.3	2068.9	2070.9	2074.0	2080.9	2087.7	2080.9
7.5°	2042.5	2059.5	2076.4	2074.2	2065.7	2063.0	2066.3	2070.9	2079.3	2087.7	2079.3
10°	2037.3	2051.9	2066.5	2064.3	2056.5	2055.0	2059.9	2065.3	2072.1	2078.9	2072.1
12.5°	2021.5	2035.3	2049.1	2047.3	2040.3	2040.0	2046.5	2052.8	2058.8	2064.9	2058.8
15°	1993.4	2006.1	2018.7	2019.0	2015.1	2017.5	2026.3	2034.1	2039.0	2043.8	2039.0
17.5°	1955.2	1970.6	1986.0	1989.6	1989.2	1995.2	2007.7	2018.3	2023.4	2028.5	2023.4
20°	1925.4	1943.9	1962.5	1968.5	1970.5	1979.3	1994.9	2009.0	2018.7	2028.5	2018.7
22.5°	1893.8	1915.5	1937.1	1945.2	1948.7	1962.1	1985.5	2007.2	2024.0	2040.8	2024.0
25°	1846.5	1867.9	1889.4	1904.9	1918.6	1942.5	1976.6	2008.5	2033.8	2059.2	2033.8
27.5°	1791.2	1812.5	1833.7	1860.5	1889.2	1922.7	1961.1	1994.9	2015.0	2035.1	2015.0
30°	1754.4	1774.8	1795.3	1826.0	1860.1	1897.1	1937.1	1971.7	1990.2	2008.7	1990.2
32.5°	1708.8	1730.0	1751.2	1783.9	1820.3	1860.1	1903.2	1939.7	1956.7	1973.7	1956.7
35°	1635.9	1656.4	1676.9	1714.9	1758.7	1803.1	1847.9	1884.0	1893.7	1903.5	1893.7
37.5°	1552.2	1575.4	1598.6	1641.2	1690.3	1727.5	1752.6	1771.6	1772.2	1772.8	1772.2
40°	1489.0	1519.2	1549.4	1592.1	1638.9	1664.7	1669.6	1670.1	1657.4	1644.7	1657.4
42.5°	1427.6	1466.4	1505.2	1539.5	1572.2	1578.9	1559.6	1531.1	1474.7	1418.4	1474.7
45°	1333.3	1379.1	1424.9	1445.9	1458.6	1415.7	1317.2	1233.7	1194.7	1155.7	1194.7
47.5°	1232.9	1278.1	1323.3	1317.5	1294.7	1229.8	1122.8	1035.8	1008.9	982.0	1008.9
50°	1164.5	1207.3	1250.2	1219.3	1163.7	1090.6	1000.0	925.7	900.3	875.0	900.3
52.5°	1087.3	1125.5	1163.7	1116.9	1041.9	964.9	886.0	817.1	778.5	739.9	778.5
55°	967.1	993.4	1019.7	968.6	891.6	806.8	714.2	635.5	598.4	561.4	598.4
57.5°	822.4	840.9	859.4	819.1	759.3	675.0	566.2	474.3	432.7	391.2	432.7
60°	725.9	740.5	755.1	718.6	665.0	584.5	477.3	391.8	371.3	350.9	371.3
62.5°	638.1	651.2	664.3	626.2	571.0	499.2	410.7	342.5	335.3	328.1	335.3
65°	517.5	530.2	542.9	502.9	445.4	389.4	334.8	293.6	292.6	291.7	292.6
67.5°	411.8	425.7	439.5	401.9	347.1	305.7	277.6	256.3	255.1	253.9	255.1
70°	348.7	363.3	377.9	342.8	291.2	257.6	242.0	229.8	227.8	225.9	227.8
72.5°	296.0	309.9	323.7	293.1	247.7	219.9	209.8	201.9	200.7	199.6	200.7
75°	223.7	234.4	245.1	223.0	189.8	170.8	165.9	162.0	161.1	160.1	161.1
77.5°	162.3	169.1	175.9	161.4	139.8	127.7	125.1	123.0	122.0	121.1	122.0
80°	127.2	130.1	133.0	122.8	108.2	100.4	99.4	98.4	97.5	96.5	97.5
82.5°	95.6	94.6	93.7	87.7	80.1	75.8	74.9	73.7	71.9	70.2	71.9
85°	50.4	48.5	46.5	44.6	42.6	39.7	35.8	32.2	29.2	26.3	29.2
87.5°	16.7	17.9	19.4	17.7	14.7	12.7	11.9	11.6	11.9	11.9	11.9
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2073.2	2071.6	2070.1	2073.6	2082.1	2085.3	2072.0	2058.7	2072.0	2085.3	2082.1
5°	2074.0	2070.9	2068.9	2072.3	2081.1	2083.6	2067.0	2050.4	2067.0	2083.6	2081.1
7.5°	2070.9	2066.3	2063.0	2065.7	2074.2	2076.4	2059.5	2042.5	2059.5	2076.4	2074.2
10°	2065.3	2059.9	2055.0	2056.5	2064.3	2066.5	2051.9	2037.3	2051.9	2066.5	2064.3
12.5°	2052.8	2046.5	2040.0	2040.3	2047.3	2049.1	2035.3	2021.5	2035.3	2049.1	2047.3
15°	2034.1	2026.3	2017.5	2015.1	2019.0	2018.7	2006.1	1993.4	2006.1	2018.7	2019.0
17.5°	2018.3	2007.7	1995.2	1989.2	1989.6	1986.0	1970.6	1955.2	1970.6	1986.0	1989.6
20°	2009.0	1994.9	1979.3	1970.5	1968.5	1962.5	1943.9	1925.4	1943.9	1962.5	1968.5
22.5°	2007.2	1985.5	1962.1	1948.7	1945.2	1937.1	1915.5	1893.8	1915.5	1937.1	1945.2
25°	2008.5	1976.6	1942.5	1918.6	1904.9	1889.4	1867.9	1846.5	1867.9	1889.4	1904.9
27.5°	1994.9	1961.1	1922.7	1889.2	1860.5	1833.7	1812.5	1791.2	1812.5	1833.7	1860.5
30°	1971.7	1937.1	1897.1	1860.1	1826.0	1795.3	1774.8	1754.4	1774.8	1795.3	1826.0
32.5°	1939.7	1903.2	1860.1	1820.3	1783.9	1751.2	1730.0	1708.8	1730.0	1751.2	1783.9
35°	1884.0	1847.9	1803.1	1758.7	1714.9	1676.9	1656.4	1635.9	1656.4	1676.9	1714.9
37.5°	1771.6	1752.6	1727.5	1690.3	1641.2	1598.6	1575.4	1552.2	1575.4	1598.6	1641.2
40°	1670.1	1669.6	1664.7	1638.9	1592.1	1549.4	1519.2	1489.0	1519.2	1549.4	1592.1
42.5°	1531.1	1559.6	1578.9	1572.2	1539.5	1505.2	1466.4	1427.6	1466.4	1505.2	1539.5
45°	1233.7	1317.2	1415.7	1458.6	1445.9	1424.9	1379.1	1333.3	1379.1	1424.9	1445.9
47.5°	1035.8	1122.8	1229.8	1294.7	1317.5	1323.3	1278.1	1232.9	1278.1	1323.3	1317.5
50°	925.7	1000.0	1090.6	1163.7	1219.3	1250.2	1207.3	1164.5	1207.3	1250.2	1219.3
52.5°	817.1	886.0	964.9	1041.9	1116.9	1163.7	1125.5	1087.3	1125.5	1163.7	1116.9
55°	635.5	714.2	806.8	891.6	968.6	1019.7	993.4	967.1	993.4	1019.7	968.6
57.5°	474.3	566.2	675.0	759.3	819.1	859.4	840.9	822.4	840.9	859.4	819.1
60°	391.8	477.3	584.5	665.0	718.6	755.1	740.5	725.9	740.5	755.1	718.6
62.5°	342.5	410.7	499.2	571.0	626.2	664.3	651.2	638.1	651.2	664.3	626.2
65°	293.6	334.8	389.4	445.4	502.9	542.9	530.2	517.5	530.2	542.9	502.9
67.5°	256.3	277.6	305.7	347.1	401.9	439.5	425.7	411.8	425.7	439.5	401.9
70°	229.8	242.0	257.6	291.2	342.8	377.9	363.3	348.7	363.3	377.9	342.8
72.5°	201.9	209.8	219.9	247.7	293.1	323.7	309.9	296.0	309.9	323.7	293.1
75°	162.0	165.9	170.8	189.8	223.0	245.1	234.4	223.7	234.4	245.1	223.0
77.5°	123.0	125.1	127.7	139.8	161.4	175.9	169.1	162.3	169.1	175.9	161.4
80°	98.4	99.4	100.4	108.2	122.8	133.0	130.1	127.2	130.1	133.0	122.8
82.5°	73.7	74.9	75.8	80.1	87.7	93.7	94.6	95.6	94.6	93.7	87.7
85°	32.2	35.8	39.7	42.6	44.6	46.5	48.5	50.4	48.5	46.5	44.6
87.5°	11.6	11.9	12.7	14.7	17.7	19.4	17.9	16.7	17.9	19.1	18.3
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1428095

CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428095

CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2073.6	2070.1	2071.6	2073.2	2074.7	2076.3	2074.7	2073.2	2071.6	2070.1	2073.6
5°	2072.3	2068.9	2070.9	2074.0	2080.9	2087.7	2080.9	2074.0	2070.9	2068.9	2072.3
7.5°	2065.7	2063.0	2066.3	2070.9	2079.3	2087.7	2079.3	2070.9	2066.3	2063.0	2065.7
10°	2056.5	2055.0	2059.9	2065.3	2072.1	2078.9	2072.1	2065.3	2059.9	2055.0	2056.5
12.5°	2040.3	2040.0	2046.5	2052.8	2058.8	2064.9	2058.8	2052.8	2046.5	2040.0	2040.3
15°	2015.1	2017.5	2026.3	2034.1	2039.0	2043.8	2039.0	2034.1	2026.3	2017.5	2015.1
17.5°	1989.2	1995.2	2007.7	2018.3	2023.4	2028.5	2023.4	2018.3	2007.7	1995.2	1989.2
20°	1970.5	1979.3	1994.9	2009.0	2018.7	2028.5	2018.7	2009.0	1994.9	1979.3	1970.5
22.5°	1948.7	1962.1	1985.5	2007.2	2024.0	2040.8	2024.0	2007.2	1985.5	1962.1	1948.7
25°	1918.6	1942.5	1976.6	2008.5	2033.8	2059.2	2033.8	2008.5	1976.6	1942.5	1918.6
27.5°	1889.2	1922.7	1961.1	1994.9	2015.0	2035.1	2015.0	1994.9	1961.1	1922.7	1889.2
30°	1860.1	1897.1	1937.1	1971.7	1990.2	2008.7	1990.2	1971.7	1937.1	1897.1	1860.1
32.5°	1820.3	1860.1	1903.2	1939.7	1956.7	1973.7	1956.7	1939.7	1903.2	1860.1	1820.3
35°	1758.7	1803.1	1847.9	1884.0	1893.7	1903.5	1893.7	1884.0	1847.9	1803.1	1758.7
37.5°	1690.3	1727.5	1752.6	1771.6	1772.2	1772.8	1772.2	1771.6	1752.6	1727.5	1690.3
40°	1638.9	1664.7	1669.6	1670.1	1657.4	1644.7	1657.4	1670.1	1669.6	1664.7	1638.9
42.5°	1572.2	1578.9	1559.6	1531.1	1474.7	1418.4	1474.7	1531.1	1559.6	1578.9	1572.2
45°	1458.6	1415.7	1317.2	1233.7	1194.7	1155.7	1194.7	1233.7	1317.2	1415.7	1458.6
47.5°	1294.7	1229.8	1122.8	1035.8	1008.9	982.0	1008.9	1035.8	1122.8	1229.8	1294.7
50°	1163.7	1090.6	1000.0	925.7	900.3	875.0	900.3	925.7	1000.0	1090.6	1163.7
52.5°	1041.9	964.9	886.0	817.1	778.5	739.9	778.5	817.1	886.0	964.9	1041.9
55°	891.6	806.8	714.2	635.5	598.4	561.4	598.4	635.5	714.2	806.8	891.6
57.5°	759.3	675.0	566.2	474.3	432.7	391.2	432.7	474.3	566.2	675.0	759.3
60°	665.0	584.5	477.3	391.8	371.3	350.9	371.3	391.8	477.3	584.5	665.0
62.5°	571.0	499.2	410.7	342.5	335.3	328.1	335.3	342.5	410.7	499.2	571.0
65°	445.4	389.4	334.8	293.6	292.6	291.7	292.6	293.6	334.8	389.4	445.4
67.5°	347.1	305.7	277.6	256.3	255.1	253.9	255.1	256.3	277.6	305.7	347.1
70°	291.2	257.6	242.0	229.8	227.8	225.9	227.8	229.8	242.0	257.6	291.2
72.5°	247.7	219.9	209.8	201.9	200.7	199.6	200.7	201.9	209.8	219.9	247.7
75°	189.8	170.8	165.9	162.0	161.1	160.1	161.1	162.0	165.9	170.8	189.8
77.5°	139.8	127.7	125.1	123.0	122.0	121.1	122.0	123.0	125.1	127.7	139.8
80°	108.2	100.4	99.4	98.4	97.5	96.5	97.5	98.4	99.4	100.4	108.2
82.5°	80.1	75.8	74.9	73.7	71.9	70.2	71.9	73.7	74.9	75.8	80.1
85°	42.6	39.7	35.8	32.2	29.2	26.3	29.2	32.2	35.8	39.7	42.6
87.5°	15.9	15.7	17.0	17.7	18.9	18.3	18.9	17.7	17.0	15.7	15.9
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1428095

CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428095

CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2074.5	2074.5	2074.5	2074.5
2.5°	2082.1	2085.3	2072.0	2058.7
5°	2081.1	2083.6	2067.0	2050.4
7.5°	2074.2	2076.4	2059.5	2042.5
10°	2064.3	2066.5	2051.9	2037.3
12.5°	2047.3	2049.1	2035.3	2021.5
15°	2019.0	2018.7	2006.1	1993.4
17.5°	1989.6	1986.0	1970.6	1955.2
20°	1968.5	1962.5	1943.9	1925.4
22.5°	1945.2	1937.1	1915.5	1893.8
25°	1904.9	1889.4	1867.9	1846.5
27.5°	1860.5	1833.7	1812.5	1791.2
30°	1826.0	1795.3	1774.8	1754.4
32.5°	1783.9	1751.2	1730.0	1708.8
35°	1714.9	1676.9	1656.4	1635.9
37.5°	1641.2	1598.6	1575.4	1552.2
40°	1592.1	1549.4	1519.2	1489.0
42.5°	1539.5	1505.2	1466.4	1427.6
45°	1445.9	1424.9	1379.1	1333.3
47.5°	1317.5	1323.3	1278.1	1232.9
50°	1219.3	1250.2	1207.3	1164.5
52.5°	1116.9	1163.7	1125.5	1087.3
55°	968.6	1019.7	993.4	967.1
57.5°	819.1	859.4	840.9	822.4
60°	718.6	755.1	740.5	725.9
62.5°	626.2	664.3	651.2	638.1
65°	502.9	542.9	530.2	517.5
67.5°	401.9	439.5	425.7	411.8
70°	342.8	377.9	363.3	348.7
72.5°	293.1	323.7	309.9	296.0
75°	223.0	245.1	234.4	223.7
77.5°	161.4	175.9	169.1	162.3
80°	122.8	133.0	130.1	127.2
82.5°	87.7	93.7	94.6	95.6
85°	44.6	46.5	48.5	50.4
87.5°	18.3	19.1	17.9	16.7
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1428095

CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428095  
 CATALOG NUMBER: SQ2W-PP3-K-100U-100D-L830-UNV-STD-W-WM-4

**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	20.06	20.93	20.99	21.87	23.08	15.83	16.70	16.76	17.64	18.85
	3H	21.12	21.90	22.06	22.85	24.08	17.14	17.92	18.08	18.87	20.10
	4H	21.49	22.22	22.44	23.18	24.42	17.70	18.43	18.65	19.38	20.63
	6H	21.69	22.36	22.65	23.32	24.57	18.06	18.74	19.03	19.70	20.95
	8H	21.75	22.39	22.72	23.36	24.62	18.19	18.83	19.16	19.81	21.06
	12H	21.77	22.38	22.74	23.35	24.62	18.23	18.84	19.20	19.81	21.08
4H	2H	20.18	20.91	21.14	21.87	23.11	16.74	17.48	17.70	18.43	19.67
	3H	21.48	22.08	22.44	23.06	24.32	18.17	18.77	19.13	19.76	21.01
	4H	21.98	22.54	22.96	23.51	24.79	18.79	19.34	19.76	20.32	21.60
	6H	22.30	22.78	23.29	23.77	25.05	19.24	19.71	20.22	20.71	21.99
	8H	22.41	22.85	23.40	23.85	25.14	19.40	19.85	20.39	20.84	22.13
	12H	22.45	22.85	23.46	23.86	25.16	19.45	19.85	20.46	20.86	22.16
8H	4H	22.00	22.45	22.99	23.44	24.73	19.10	19.54	20.09	20.53	21.83
	6H	22.42	22.78	23.43	23.82	25.11	19.66	20.02	20.67	21.06	22.35
	8H	22.60	22.92	23.62	23.94	25.25	19.91	20.23	20.93	21.25	22.56
	12H	22.69	22.98	23.72	24.00	25.35	20.01	20.29	21.03	21.31	22.66
12H	4H	21.96	22.36	22.97	23.37	24.67	19.11	19.51	20.12	20.52	21.82
	6H	22.41	22.73	23.43	23.76	25.07	19.72	20.05	20.75	21.07	22.38
	8H	22.61	22.89	23.63	23.91	25.26	20.00	20.28	21.02	21.30	22.66