

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: P1428436

Luminaire Tested: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428436  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

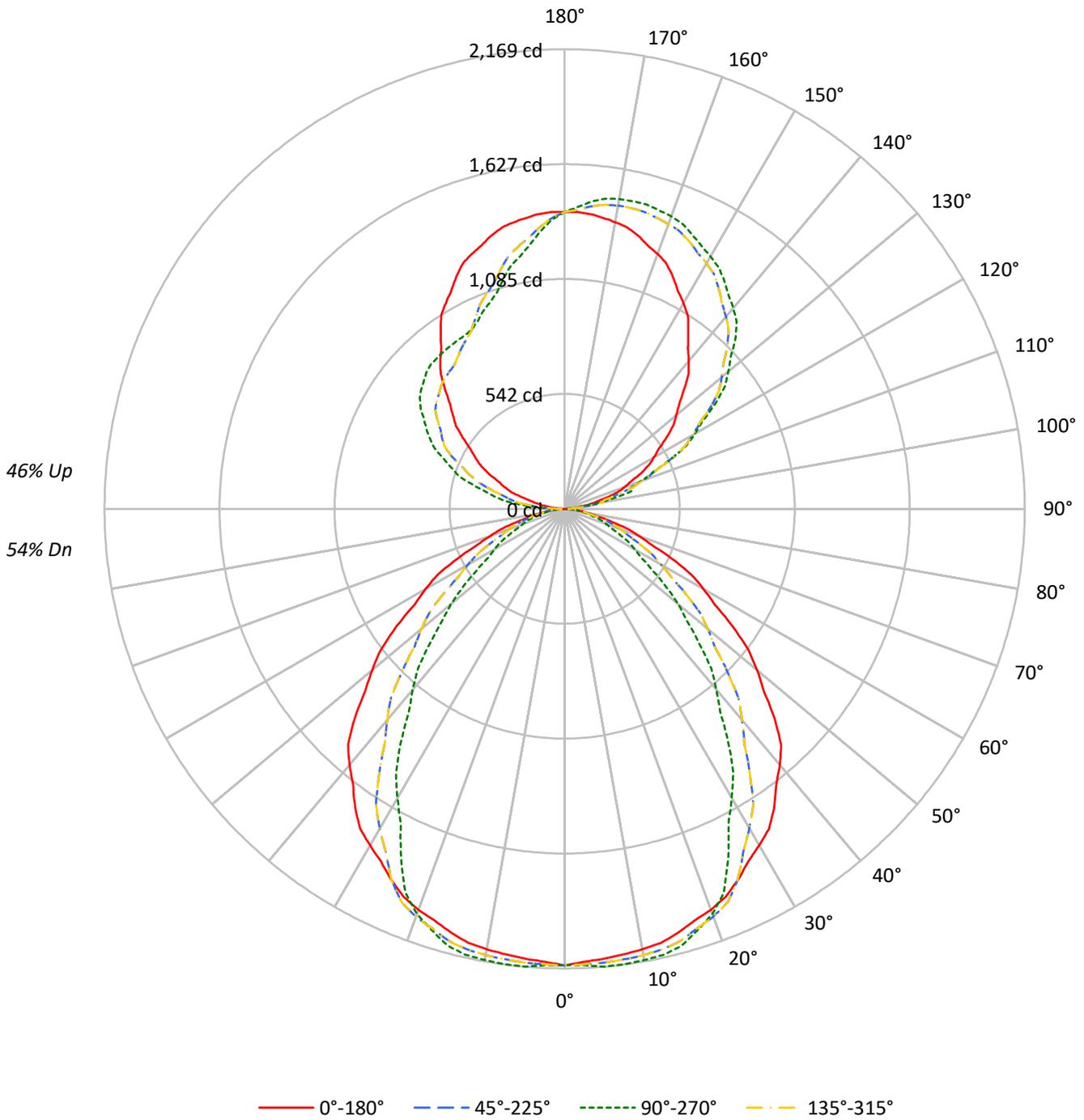
Lumens per Lamp: N/A  
Luminaire Lumens: 8875.5 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

### 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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54	54	54	54	
1	99	95	91	88	92	88	85	82	76	74	72	64	63	61	54	53	52	47	47	47	47	
2	91	84	78	73	84	78	73	69	67	63	60	57	55	52	48	46	44	40	40	40	40	
3	83	74	67	62	77	69	63	58	60	55	51	51	48	45	43	41	39	35	35	35	35	
4	77	66	58	53	71	62	55	50	54	48	44	46	42	39	39	36	34	30	30	30	30	
5	70	59	51	45	65	55	48	43	48	43	39	42	37	34	35	32	30	27	27	27	27	
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	24	24	24	24	
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24	21	21	21	21	
8	56	44	36	31	52	41	35	30	36	31	27	32	27	24	27	24	21	19	19	19	19	
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19	17	17	17	17	
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	23	20	18	16	16	16	16	

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

	0°	90°	180°	270°
0°	34781	34781	34781	34781
5°	34547	35147	34547	35147
10°	34611	35452	34611	35452
15°	34602	35665	34602	35665
20°	34616	34968	34616	34968
25°	34429	32492	34429	32492
30°	34194	29374	34194	29374
35°	33927	26528	33927	26528
40°	33252	23437	33252	23437
45°	31948	20472	31948	20472
50°	29735	17520	29735	17520
55°	27200	14207	27200	14207
60°	24380	12254	24380	12254
65°	21318	10896	21318	10896
70°	17433	9880	17433	9880
75°	13568	9089	13568	9089
80°	10107	8015	10107	8015
85°	6836	4557	6836	4557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31948 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.1	2.3
10°-20°	594.4	6.7
20°-30°	874.7	9.9
30°-40°	956.3	10.8
40°-50°	857.9	9.7
50°-60°	639.9	7.2
60°-70°	404.5	4.6
70°-80°	200.4	2.3
80°-90°	52.7	0.6
90°-100°	111.5	1.3
100°-110°	325.1	3.7
110°-120°	530.5	6.0
120°-130°	673.2	7.6
130°-140°	720.3	8.1
140°-150°	672.6	7.6
150°-160°	553.5	6.2
160°-170°	371.2	4.2
170°-180°	131.8	1.5
0°-30°	1674.1	18.9
0°-40°	2630.5	29.6
0°-60°	4128.3	46.5
0°-90°	4785.9	53.9
90°-120°	967.1	10.9
90°-150°	3033.2	34.2
90°-180°	4090.0	46.1
0°-180°	8875.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2154	2154	2154	2154	2154	
5°	2132	2169	2132	2169	2132	203
15°	2070	2134	2070	2134	2070	584
25°	1933	1824	1933	1824	1933	890
35°	1721	1346	1721	1346	1721	1074
45°	1399	897	1399	897	1399	1073
55°	966	505	966	505	966	863
65°	558	285	558	285	558	553
75°	218	146	218	146	218	240
85°	37	25	37	25	37	47
90°	4	31	4	61	4	5
95°	44	32	44	191	44	53
105°	207	331	207	456	207	220
115°	396	549	396	676	396	390
125°	586	870	586	829	586	524
135°	796	1139	796	918	796	616
145°	1017	1313	1017	938	1017	636
155°	1208	1426	1208	973	1208	555
165°	1336	1487	1336	1120	1336	376
175°	1396	1456	1396	1314	1396	132
180°	1401	1401	1401	1401	1401	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2
2.5°	2139.4	2151.8	2164.2	2161.3	2153.3	2149.6	2150.4	2151.5	2153.6	2155.8	2153.6
5°	2131.6	2147.1	2162.6	2160.3	2152.1	2148.5	2149.4	2152.1	2160.3	2168.6	2160.3
7.5°	2121.0	2136.6	2152.3	2151.6	2145.4	2143.8	2146.9	2151.3	2159.3	2167.3	2159.3
10°	2111.1	2127.5	2143.9	2143.9	2138.5	2138.0	2142.6	2147.8	2155.1	2162.4	2155.1
12.5°	2098.0	2115.1	2132.3	2133.5	2129.5	2130.2	2135.5	2141.2	2148.5	2155.8	2148.5
15°	2070.1	2088.3	2106.6	2110.4	2109.5	2112.3	2118.6	2124.6	2129.1	2133.7	2129.1
17.5°	2037.7	2055.9	2074.1	2077.7	2076.5	2076.6	2078.3	2080.1	2082.3	2084.4	2082.3
20°	2014.7	2032.9	2051.2	2053.7	2050.9	2046.4	2040.0	2035.2	2035.2	2035.2	2035.2
22.5°	1981.9	2001.6	2021.3	2021.4	2015.0	2003.2	1985.8	1971.4	1965.5	1959.7	1965.5
25°	1932.6	1951.8	1970.9	1962.0	1943.8	1916.9	1881.3	1851.2	1837.6	1823.9	1837.6
27.5°	1875.2	1890.7	1906.2	1883.0	1846.9	1803.6	1753.0	1710.4	1691.4	1672.5	1691.4
30°	1834.1	1846.0	1857.9	1821.1	1768.3	1714.0	1658.4	1612.1	1593.9	1575.6	1593.9
32.5°	1791.5	1796.0	1800.6	1752.2	1686.2	1624.3	1566.5	1518.2	1498.5	1478.8	1498.5
35°	1721.3	1713.1	1704.9	1640.6	1557.6	1487.0	1428.6	1380.5	1363.2	1345.9	1363.2
37.5°	1638.4	1614.0	1589.5	1517.1	1428.7	1353.9	1292.8	1242.2	1223.0	1203.9	1223.0
40°	1577.7	1543.0	1508.4	1430.7	1338.6	1262.0	1200.9	1150.3	1131.1	1112.0	1131.1
42.5°	1510.4	1467.0	1423.6	1343.7	1251.6	1175.0	1113.9	1063.1	1043.2	1023.3	1043.2
45°	1399.2	1348.1	1297.1	1213.9	1120.0	1043.4	984.1	934.9	915.7	896.6	915.7
47.5°	1274.1	1223.4	1172.7	1089.7	995.9	920.4	862.9	815.7	799.3	782.9	799.3
50°	1183.8	1134.5	1085.3	1006.0	916.6	843.2	785.8	737.7	717.6	697.5	717.6
52.5°	1091.9	1047.7	1003.6	927.2	840.0	767.0	708.1	657.1	629.7	602.4	629.7
55°	966.3	924.4	882.4	810.4	728.3	654.5	588.8	535.7	520.2	504.7	520.2
57.5°	837.1	800.8	764.5	699.7	625.5	558.6	499.0	451.0	438.3	425.5	438.3
60°	755.0	723.1	691.2	629.2	557.1	496.0	445.9	405.1	392.3	379.5	392.3
62.5°	676.2	647.9	619.7	560.2	490.4	435.5	395.6	363.0	352.4	341.8	352.4
65°	558.0	537.1	516.1	467.1	408.7	363.1	330.3	303.4	294.3	285.2	294.3
67.5°	443.1	431.5	419.8	383.1	338.1	301.1	272.3	249.2	243.2	237.2	243.2
70°	369.3	365.6	362.0	331.7	292.5	261.0	237.3	218.4	213.8	209.3	213.8
72.5°	305.3	306.7	308.2	283.0	248.9	222.5	203.9	189.2	186.1	183.0	186.1
75°	217.5	224.8	232.1	215.4	190.8	172.1	159.3	149.3	147.5	145.7	147.5
77.5°	148.1	159.1	170.0	159.2	141.2	127.4	117.9	110.4	109.0	107.5	109.0
80°	108.7	119.7	130.6	123.1	109.4	98.9	91.6	86.2	86.2	86.2	86.2
82.5°	75.9	84.7	93.4	88.1	78.1	71.2	67.6	64.8	64.8	64.8	64.8
85°	36.9	41.5	46.0	44.5	40.8	36.2	30.8	26.4	25.5	24.6	25.5
87.5°	10.7	14.0	17.6	16.6	13.8	11.9	11.1	10.9	11.1	11.1	11.1
90°	4.2	9.9	17.0	22.6	26.9	28.3	28.3	29.7	31.1	31.1	31.1
92.5°	15.6	24.6	24.9	24.9	30.3	32.8	35.1	35.4	36.8	36.8	36.8
95°	43.9	48.1	72.2	70.7	48.1	38.2	32.5	32.5	32.5	32.5	32.5
97.5°	83.8	90.0	93.9	125.9	133.0	128.5	104.7	88.0	78.7	74.4	78.7
100°	118.8	121.7	130.2	131.6	166.9	200.9	183.9	162.7	155.6	151.4	155.6
102.5°	153.9	155.6	168.6	174.6	182.8	202.0	260.9	254.4	249.6	248.7	249.6
105°	206.6	208.0	232.0	243.3	249.0	249.0	247.6	275.9	321.2	331.1	321.2
107.5°	262.9	269.4	297.7	328.0	334.5	336.2	328.8	324.6	322.9	324.0	322.9
110°	301.4	311.3	345.2	383.4	393.3	396.1	393.3	389.1	386.2	386.2	386.2

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	338.7	353.1	391.6	435.5	452.2	460.7	454.4	451.3	448.5	450.8	448.5
115°	396.1	417.4	468.3	513.6	547.5	551.8	550.4	550.4	548.9	548.9	548.9
117.5°	449.3	483.3	540.5	593.1	632.4	643.7	649.4	647.7	646.0	648.8	646.0
120°	486.7	526.3	591.4	650.8	689.0	706.0	711.6	708.8	711.6	708.8	711.6
122.5°	526.3	575.0	638.9	700.6	745.6	764.8	771.6	772.2	772.8	771.1	772.8
125°	585.7	645.2	720.1	783.8	830.5	853.1	858.8	860.2	863.0	870.1	863.0
127.5°	645.7	713.1	795.4	856.8	904.6	932.1	940.8	944.0	949.9	953.0	949.9
130°	687.6	764.0	847.5	905.5	952.2	981.9	997.4	1001.7	1008.8	1007.3	1008.8
132.5°	731.7	811.5	896.1	956.4	999.7	1031.7	1045.0	1057.1	1059.7	1061.7	1059.7
135°	796.5	882.8	967.7	1027.2	1068.2	1099.3	1116.3	1127.6	1134.7	1138.9	1134.7
137.5°	864.7	955.8	1037.3	1090.3	1131.6	1158.4	1177.7	1189.6	1196.9	1200.3	1196.9
140°	911.1	998.9	1078.1	1133.3	1170.0	1196.9	1213.9	1228.1	1236.5	1236.5	1236.5
142.5°	955.3	1041.9	1118.8	1174.0	1206.3	1230.9	1249.0	1259.7	1269.4	1269.4	1269.4
145°	1017.2	1103.6	1174.3	1229.5	1256.4	1279.0	1298.8	1307.3	1312.9	1312.9	1312.9
147.5°	1082.0	1158.4	1223.0	1275.9	1298.5	1325.1	1340.7	1347.5	1354.5	1351.4	1354.5
150°	1120.5	1191.3	1253.5	1303.0	1325.7	1351.1	1366.7	1372.4	1379.4	1375.2	1379.4
152.5°	1157.9	1225.2	1281.8	1327.9	1347.2	1372.6	1390.5	1396.1	1400.9	1397.8	1400.9
155°	1208.2	1267.7	1320.0	1362.5	1379.4	1403.5	1420.5	1427.5	1433.2	1426.1	1433.2
157.5°	1253.2	1304.5	1350.0	1389.1	1407.2	1427.8	1443.7	1452.4	1458.1	1455.0	1458.1
160°	1280.4	1327.1	1368.1	1404.9	1421.9	1440.3	1457.3	1467.2	1472.8	1468.6	1472.8
162.5°	1303.0	1345.2	1384.0	1417.4	1432.1	1448.2	1468.6	1477.3	1483.0	1477.6	1483.0
165°	1335.6	1369.5	1403.5	1431.8	1444.5	1457.3	1478.5	1488.4	1492.6	1487.0	1492.6
167.5°	1360.2	1386.2	1413.7	1438.0	1447.4	1459.8	1481.0	1489.2	1494.6	1487.5	1494.6
170°	1373.8	1396.4	1420.5	1440.3	1447.4	1458.7	1479.9	1487.0	1491.2	1484.1	1491.2
172.5°	1385.1	1402.1	1421.6	1439.1	1442.8	1451.9	1472.0	1479.0	1482.2	1476.2	1482.2
175°	1396.4	1406.3	1420.5	1431.8	1430.4	1436.0	1453.0	1458.7	1464.3	1455.8	1464.3
177.5°	1401.8	1406.3	1410.8	1417.6	1413.1	1413.1	1425.6	1429.0	1430.1	1425.6	1430.1
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2
2.5°	2151.5	2150.4	2149.6	2153.3	2161.3	2164.2	2151.8	2139.4	2151.8	2164.2	2161.3
5°	2152.1	2149.4	2148.5	2152.1	2160.3	2162.6	2147.1	2131.6	2147.1	2162.6	2160.3
7.5°	2151.3	2146.9	2143.8	2145.4	2151.6	2152.3	2136.6	2121.0	2136.6	2152.3	2151.6
10°	2147.8	2142.6	2138.0	2138.5	2143.9	2143.9	2127.5	2111.1	2127.5	2143.9	2143.9
12.5°	2141.2	2135.5	2130.2	2129.5	2133.5	2132.3	2115.1	2098.0	2115.1	2132.3	2133.5
15°	2124.6	2118.6	2112.3	2109.5	2110.4	2106.6	2088.3	2070.1	2088.3	2106.6	2110.4
17.5°	2080.1	2078.3	2076.6	2076.5	2077.7	2074.1	2055.9	2037.7	2055.9	2074.1	2077.7
20°	2035.2	2040.0	2046.4	2050.9	2053.7	2051.2	2032.9	2014.7	2032.9	2051.2	2053.7
22.5°	1971.4	1985.8	2003.2	2015.0	2021.4	2021.3	2001.6	1981.9	2001.6	2021.3	2021.4
25°	1851.2	1881.3	1916.9	1943.8	1962.0	1970.9	1951.8	1932.6	1951.8	1970.9	1962.0
27.5°	1710.4	1753.0	1803.6	1846.9	1883.0	1906.2	1890.7	1875.2	1890.7	1906.2	1883.0
30°	1612.1	1658.4	1714.0	1768.3	1821.1	1857.9	1846.0	1834.1	1846.0	1857.9	1821.1
32.5°	1518.2	1566.5	1624.3	1686.2	1752.2	1800.6	1796.0	1791.5	1796.0	1800.6	1752.2
35°	1380.5	1428.6	1487.0	1557.6	1640.6	1704.9	1713.1	1721.3	1713.1	1704.9	1640.6
37.5°	1242.2	1292.8	1353.9	1428.7	1517.1	1589.5	1614.0	1638.4	1614.0	1589.5	1517.1
40°	1150.3	1200.9	1262.0	1338.6	1430.7	1508.4	1543.0	1577.7	1543.0	1508.4	1430.7
42.5°	1063.1	1113.9	1175.0	1251.6	1343.7	1423.6	1467.0	1510.4	1467.0	1423.6	1343.7
45°	934.9	984.1	1043.4	1120.0	1213.9	1297.1	1348.1	1399.2	1348.1	1297.1	1213.9
47.5°	815.7	862.9	920.4	995.9	1089.7	1172.7	1223.4	1274.1	1223.4	1172.7	1089.7
50°	737.7	785.8	843.2	916.6	1006.0	1085.3	1134.5	1183.8	1134.5	1085.3	1006.0
52.5°	657.1	708.1	767.0	840.0	927.2	1003.6	1047.7	1091.9	1047.7	1003.6	927.2
55°	535.7	588.8	654.5	728.3	810.4	882.4	924.4	966.3	924.4	882.4	810.4
57.5°	451.0	499.0	558.6	625.5	699.7	764.5	800.8	837.1	800.8	764.5	699.7
60°	405.1	445.9	496.0	557.1	629.2	691.2	723.1	755.0	723.1	691.2	629.2
62.5°	363.0	395.6	435.5	490.4	560.2	619.7	647.9	676.2	647.9	619.7	560.2
65°	303.4	330.3	363.1	408.7	467.1	516.1	537.1	558.0	537.1	516.1	467.1
67.5°	249.2	272.3	301.1	338.1	383.1	419.8	431.5	443.1	431.5	419.8	383.1
70°	218.4	237.3	261.0	292.5	331.7	362.0	365.6	369.3	365.6	362.0	331.7
72.5°	189.2	203.9	222.5	248.9	283.0	308.2	306.7	305.3	306.7	308.2	283.0
75°	149.3	159.3	172.1	190.8	215.4	232.1	224.8	217.5	224.8	232.1	215.4
77.5°	110.4	117.9	127.4	141.2	159.2	170.0	159.1	148.1	159.1	170.0	159.2
80°	86.2	91.6	98.9	109.4	123.1	130.6	119.7	108.7	119.7	130.6	123.1
82.5°	64.8	67.6	71.2	78.1	88.1	93.4	84.7	75.9	84.7	93.4	88.1
85°	26.4	30.8	36.2	40.8	44.5	46.0	41.5	36.9	41.5	46.0	44.5
87.5°	10.9	11.1	11.9	13.8	16.6	17.6	14.0	10.7	14.0	17.3	17.1
90°	29.7	28.3	28.3	26.9	22.6	17.0	9.9	4.2	9.9	15.6	25.5
92.5°	35.4	35.1	32.8	30.3	24.9	24.9	24.6	15.6	26.9	38.2	54.9
95°	32.5	32.5	38.2	48.1	70.7	72.2	48.1	43.9	62.3	87.7	110.4
97.5°	88.0	104.7	128.5	133.0	125.9	93.9	90.0	83.8	114.0	139.2	175.7
100°	162.7	183.9	200.9	166.9	131.6	130.2	121.7	118.8	151.4	175.4	210.8
102.5°	254.4	260.9	202.0	182.8	174.6	168.6	155.6	153.9	186.5	219.6	249.3
105°	275.9	247.6	249.0	249.0	243.3	232.0	208.0	206.6	243.3	281.5	318.3
107.5°	324.6	328.8	336.2	334.5	328.0	297.7	269.4	262.9	296.0	341.8	382.3
110°	389.1	393.3	396.1	393.3	383.4	345.2	311.3	301.4	331.1	379.2	423.0



TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	451.3	454.4	460.7	452.2	435.5	391.6	353.1	338.7	368.4	417.7	462.6
115°	550.4	550.4	551.8	547.5	513.6	468.3	417.4	396.1	421.6	466.9	516.4
117.5°	647.7	649.4	643.7	632.4	593.1	540.5	483.3	449.3	469.4	517.3	568.2
120°	708.8	711.6	706.0	689.0	650.8	591.4	526.3	486.7	502.3	548.9	599.9
122.5°	772.2	771.6	764.8	745.6	700.6	638.9	575.0	526.3	532.8	576.1	625.9
125°	860.2	858.8	853.1	830.5	783.8	720.1	645.2	585.7	577.2	614.0	665.0
127.5°	944.0	940.8	932.1	904.6	856.8	795.4	713.1	645.7	626.8	650.0	696.7
130°	1001.7	997.4	981.9	952.2	905.5	847.5	764.0	687.6	660.7	674.9	715.9
132.5°	1057.1	1045.0	1031.7	999.7	956.4	896.1	811.5	731.7	694.7	700.9	732.9
135°	1127.6	1116.3	1099.3	1068.2	1027.2	967.7	882.8	796.5	745.6	739.9	758.3
137.5°	1189.6	1177.7	1158.4	1131.6	1090.3	1037.3	955.8	864.7	800.5	781.5	788.6
140°	1228.1	1213.9	1196.9	1170.0	1133.3	1078.1	998.9	911.1	839.0	812.1	807.9
142.5°	1259.7	1249.0	1230.9	1206.3	1174.0	1118.8	1041.9	955.3	878.6	843.8	833.9
145°	1307.3	1298.8	1279.0	1256.4	1229.5	1174.3	1103.6	1017.2	940.8	895.6	874.4
147.5°	1347.5	1340.7	1325.1	1298.5	1275.9	1223.0	1158.4	1082.0	1003.7	947.6	920.2
150°	1372.4	1366.7	1351.1	1325.7	1303.0	1253.5	1191.3	1120.5	1045.5	986.1	950.8
152.5°	1396.1	1390.5	1372.6	1347.2	1327.9	1281.8	1225.2	1157.9	1081.8	1022.3	985.8
155°	1427.5	1420.5	1403.5	1379.4	1362.5	1320.0	1267.7	1208.2	1143.2	1080.9	1039.9
157.5°	1452.4	1443.7	1427.8	1407.2	1389.1	1350.0	1304.5	1253.2	1196.4	1136.9	1095.1
160°	1467.2	1457.3	1440.3	1421.9	1404.9	1368.1	1327.1	1280.4	1228.1	1174.3	1129.0
162.5°	1477.3	1468.6	1448.2	1432.1	1417.4	1384.0	1345.2	1303.0	1256.4	1209.4	1167.5
165°	1488.4	1478.5	1457.3	1444.5	1431.8	1403.5	1369.5	1335.6	1296.0	1257.8	1223.8
167.5°	1489.2	1481.0	1459.8	1447.4	1438.0	1413.7	1386.2	1360.2	1329.4	1299.4	1271.1
170°	1487.0	1479.9	1458.7	1447.4	1440.3	1420.5	1396.4	1373.8	1349.7	1324.3	1301.6
172.5°	1479.0	1472.0	1451.9	1442.8	1439.1	1421.6	1402.1	1385.1	1364.4	1345.8	1327.7
175°	1458.7	1453.0	1436.0	1430.4	1431.8	1420.5	1406.3	1396.4	1383.7	1372.4	1362.5
177.5°	1429.0	1425.6	1413.1	1413.1	1417.6	1410.8	1406.3	1401.8	1396.1	1392.7	1389.3
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2
2.5°	2153.3	2149.6	2150.4	2151.5	2153.6	2155.8	2153.6	2151.5	2150.4	2149.6	2153.3
5°	2152.1	2148.5	2149.4	2152.1	2160.3	2168.6	2160.3	2152.1	2149.4	2148.5	2152.1
7.5°	2145.4	2143.8	2146.9	2151.3	2159.3	2167.3	2159.3	2151.3	2146.9	2143.8	2145.4
10°	2138.5	2138.0	2142.6	2147.8	2155.1	2162.4	2155.1	2147.8	2142.6	2138.0	2138.5
12.5°	2129.5	2130.2	2135.5	2141.2	2148.5	2155.8	2148.5	2141.2	2135.5	2130.2	2129.5
15°	2109.5	2112.3	2118.6	2124.6	2129.1	2133.7	2129.1	2124.6	2118.6	2112.3	2109.5
17.5°	2076.5	2076.6	2078.3	2080.1	2082.3	2084.4	2082.3	2080.1	2078.3	2076.6	2076.5
20°	2050.9	2046.4	2040.0	2035.2	2035.2	2035.2	2035.2	2035.2	2040.0	2046.4	2050.9
22.5°	2015.0	2003.2	1985.8	1971.4	1965.5	1959.7	1965.5	1971.4	1985.8	2003.2	2015.0
25°	1943.8	1916.9	1881.3	1851.2	1837.6	1823.9	1837.6	1851.2	1881.3	1916.9	1943.8
27.5°	1846.9	1803.6	1753.0	1710.4	1691.4	1672.5	1691.4	1710.4	1753.0	1803.6	1846.9
30°	1768.3	1714.0	1658.4	1612.1	1593.9	1575.6	1593.9	1612.1	1658.4	1714.0	1768.3
32.5°	1686.2	1624.3	1566.5	1518.2	1498.5	1478.8	1498.5	1518.2	1566.5	1624.3	1686.2
35°	1557.6	1487.0	1428.6	1380.5	1363.2	1345.9	1363.2	1380.5	1428.6	1487.0	1557.6
37.5°	1428.7	1353.9	1292.8	1242.2	1223.0	1203.9	1223.0	1242.2	1292.8	1353.9	1428.7
40°	1338.6	1262.0	1200.9	1150.3	1131.1	1112.0	1131.1	1150.3	1200.9	1262.0	1338.6
42.5°	1251.6	1175.0	1113.9	1063.1	1043.2	1023.3	1043.2	1063.1	1113.9	1175.0	1251.6
45°	1120.0	1043.4	984.1	934.9	915.7	896.6	915.7	934.9	984.1	1043.4	1120.0
47.5°	995.9	920.4	862.9	815.7	799.3	782.9	799.3	815.7	862.9	920.4	995.9
50°	916.6	843.2	785.8	737.7	717.6	697.5	717.6	737.7	785.8	843.2	916.6
52.5°	840.0	767.0	708.1	657.1	629.7	602.4	629.7	657.1	708.1	767.0	840.0
55°	728.3	654.5	588.8	535.7	520.2	504.7	520.2	535.7	588.8	654.5	728.3
57.5°	625.5	558.6	499.0	451.0	438.3	425.5	438.3	451.0	499.0	558.6	625.5
60°	557.1	496.0	445.9	405.1	392.3	379.5	392.3	405.1	445.9	496.0	557.1
62.5°	490.4	435.5	395.6	363.0	352.4	341.8	352.4	363.0	395.6	435.5	490.4
65°	408.7	363.1	330.3	303.4	294.3	285.2	294.3	303.4	330.3	363.1	408.7
67.5°	338.1	301.1	272.3	249.2	243.2	237.2	243.2	249.2	272.3	301.1	338.1
70°	292.5	261.0	237.3	218.4	213.8	209.3	213.8	218.4	237.3	261.0	292.5
72.5°	248.9	222.5	203.9	189.2	186.1	183.0	186.1	189.2	203.9	222.5	248.9
75°	190.8	172.1	159.3	149.3	147.5	145.7	147.5	149.3	159.3	172.1	190.8
77.5°	141.2	127.4	117.9	110.4	109.0	107.5	109.0	110.4	117.9	127.4	141.2
80°	109.4	98.9	91.6	86.2	86.2	86.2	86.2	86.2	91.6	98.9	109.4
82.5°	78.1	71.2	67.6	64.8	64.8	64.8	64.8	64.8	67.6	71.2	78.1
85°	40.8	36.2	30.8	26.4	25.5	24.6	25.5	26.4	30.8	36.2	40.8
87.5°	14.9	14.7	15.9	16.5	17.7	17.1	17.7	16.5	15.9	14.7	14.9
90°	32.5	42.4	52.3	58.0	63.7	60.8	63.7	58.0	52.3	42.4	32.5
92.5°	65.4	82.1	94.2	104.4	108.9	108.4	108.9	104.4	94.2	82.1	65.4
95°	131.6	151.4	171.2	185.3	193.8	191.0	193.8	185.3	171.2	151.4	131.6
97.5°	202.9	229.5	251.6	264.9	273.3	279.0	273.3	264.9	251.6	229.5	202.9
100°	250.4	275.9	301.4	316.9	331.1	336.7	331.1	316.9	301.4	275.9	250.4
102.5°	288.9	322.3	350.0	366.7	378.6	384.3	378.6	366.7	350.0	322.3	288.9
105°	352.3	387.7	417.4	438.6	451.3	455.6	451.3	438.6	417.4	387.7	352.3
107.5°	415.7	452.2	479.6	503.1	518.7	527.7	518.7	503.1	479.6	452.2	415.7
110°	465.5	495.2	524.9	546.1	561.7	567.3	561.7	546.1	524.9	495.2	465.5



TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	507.4	540.5	570.2	591.4	609.2	617.1	609.2	591.4	570.2	540.5	507.4
115°	565.9	609.8	636.7	656.5	669.2	676.3	669.2	656.5	636.7	609.8	565.9
117.5°	614.6	660.4	689.9	705.1	711.1	716.2	711.1	705.1	689.9	660.4	614.6
120°	645.2	687.6	721.6	741.4	748.4	751.3	748.4	741.4	721.6	687.6	645.2
122.5°	673.4	713.6	746.5	770.8	782.4	785.2	782.4	770.8	746.5	713.6	673.4
125°	713.1	751.3	785.2	809.3	822.0	829.1	822.0	809.3	785.2	751.3	713.1
127.5°	747.6	788.9	820.0	841.8	854.3	859.9	854.3	841.8	820.0	788.9	747.6
130°	766.8	809.3	840.4	864.4	875.8	881.4	875.8	864.4	840.4	809.3	766.8
132.5°	781.5	826.2	858.5	880.3	892.7	898.4	892.7	880.3	858.5	826.2	781.5
135°	799.4	846.1	880.0	901.2	912.6	918.2	912.6	901.2	880.0	846.1	799.4
137.5°	814.9	857.4	892.7	915.1	925.3	929.0	925.3	915.1	892.7	857.4	814.9
140°	826.2	863.0	898.4	919.6	930.9	932.4	930.9	919.6	898.4	863.0	826.2
142.5°	841.0	869.8	900.7	921.9	933.2	935.8	933.2	921.9	900.7	869.8	841.0
145°	867.3	884.3	905.5	925.3	935.2	938.0	935.2	925.3	905.5	884.3	867.3
147.5°	900.4	905.8	916.8	929.8	939.4	941.4	939.4	929.8	916.8	905.8	900.4
150°	925.3	923.9	928.1	936.6	945.1	943.7	945.1	936.6	928.1	923.9	925.3
152.5°	953.6	945.4	945.1	949.1	953.0	952.7	953.0	949.1	945.1	945.4	953.6
155°	1001.7	986.1	977.6	974.8	974.8	973.4	974.8	974.8	977.6	986.1	1001.7
157.5°	1054.6	1032.8	1020.1	1013.3	1011.3	1008.2	1011.3	1013.3	1020.1	1032.8	1054.6
160°	1090.8	1066.8	1054.0	1042.7	1038.5	1034.2	1038.5	1042.7	1054.0	1066.8	1090.8
162.5°	1124.8	1101.9	1088.0	1077.8	1073.6	1067.1	1073.6	1077.8	1088.0	1101.9	1124.8
165°	1180.0	1155.9	1140.3	1131.8	1126.2	1120.5	1126.2	1131.8	1140.3	1155.9	1180.0
167.5°	1235.1	1208.8	1198.6	1189.0	1183.6	1173.4	1183.6	1189.0	1198.6	1208.8	1235.1
170°	1269.1	1245.0	1239.4	1230.9	1221.0	1209.7	1221.0	1230.9	1239.4	1245.0	1269.1
172.5°	1298.5	1282.4	1276.7	1268.2	1265.1	1256.1	1265.1	1268.2	1276.7	1282.4	1298.5
175°	1341.2	1328.5	1328.5	1327.1	1322.8	1314.4	1322.8	1327.1	1328.5	1328.5	1341.2
177.5°	1376.9	1370.1	1374.6	1374.6	1373.5	1365.6	1373.5	1374.6	1374.6	1370.1	1376.9
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2154.2	2154.2	2154.2	2154.2
2.5°	2161.3	2164.2	2151.8	2139.4
5°	2160.3	2162.6	2147.1	2131.6
7.5°	2151.6	2152.3	2136.6	2121.0
10°	2143.9	2143.9	2127.5	2111.1
12.5°	2133.5	2132.3	2115.1	2098.0
15°	2110.4	2106.6	2088.3	2070.1
17.5°	2077.7	2074.1	2055.9	2037.7
20°	2053.7	2051.2	2032.9	2014.7
22.5°	2021.4	2021.3	2001.6	1981.9
25°	1962.0	1970.9	1951.8	1932.6
27.5°	1883.0	1906.2	1890.7	1875.2
30°	1821.1	1857.9	1846.0	1834.1
32.5°	1752.2	1800.6	1796.0	1791.5
35°	1640.6	1704.9	1713.1	1721.3
37.5°	1517.1	1589.5	1614.0	1638.4
40°	1430.7	1508.4	1543.0	1577.7
42.5°	1343.7	1423.6	1467.0	1510.4
45°	1213.9	1297.1	1348.1	1399.2
47.5°	1089.7	1172.7	1223.4	1274.1
50°	1006.0	1085.3	1134.5	1183.8
52.5°	927.2	1003.6	1047.7	1091.9
55°	810.4	882.4	924.4	966.3
57.5°	699.7	764.5	800.8	837.1
60°	629.2	691.2	723.1	755.0
62.5°	560.2	619.7	647.9	676.2
65°	467.1	516.1	537.1	558.0
67.5°	383.1	419.8	431.5	443.1
70°	331.7	362.0	365.6	369.3
72.5°	283.0	308.2	306.7	305.3
75°	215.4	232.1	224.8	217.5
77.5°	159.2	170.0	159.1	148.1
80°	123.1	130.6	119.7	108.7
82.5°	88.1	93.4	84.7	75.9
85°	44.5	46.0	41.5	36.9
87.5°	17.1	17.3	14.0	10.7
90°	25.5	15.6	9.9	4.2
92.5°	54.9	38.2	26.9	15.6
95°	110.4	87.7	62.3	43.9
97.5°	175.7	139.2	114.0	83.8
100°	210.8	175.4	151.4	118.8
102.5°	249.3	219.6	186.5	153.9
105°	318.3	281.5	243.3	206.6
107.5°	382.3	341.8	296.0	262.9
110°	423.0	379.2	331.1	301.4



TEST NUMBER: P1428436

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	462.6	417.7	368.4	338.7
115°	516.4	466.9	421.6	396.1
117.5°	568.2	517.3	469.4	449.3
120°	599.9	548.9	502.3	486.7
122.5°	625.9	576.1	532.8	526.3
125°	665.0	614.0	577.2	585.7
127.5°	696.7	650.0	626.8	645.7
130°	715.9	674.9	660.7	687.6
132.5°	732.9	700.9	694.7	731.7
135°	758.3	739.9	745.6	796.5
137.5°	788.6	781.5	800.5	864.7
140°	807.9	812.1	839.0	911.1
142.5°	833.9	843.8	878.6	955.3
145°	874.4	895.6	940.8	1017.2
147.5°	920.2	947.6	1003.7	1082.0
150°	950.8	986.1	1045.5	1120.5
152.5°	985.8	1022.3	1081.8	1157.9
155°	1039.9	1080.9	1143.2	1208.2
157.5°	1095.1	1136.9	1196.4	1253.2
160°	1129.0	1174.3	1228.1	1280.4
162.5°	1167.5	1209.4	1256.4	1303.0
165°	1223.8	1257.8	1296.0	1335.6
167.5°	1271.1	1299.4	1329.4	1360.2
170°	1301.6	1324.3	1349.7	1373.8
172.5°	1327.7	1345.8	1364.4	1385.1
175°	1362.5	1372.4	1383.7	1396.4
177.5°	1389.3	1392.7	1396.1	1401.8
180°	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428436  
 CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L940-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	19.60	20.46	20.54	21.40	22.62	15.85	16.71	16.78	17.65	18.87
	3H	20.91	21.67	21.85	22.62	23.86	17.12	17.89	18.07	18.84	20.08
	4H	21.31	22.04	22.27	22.99	24.24	17.63	18.35	18.59	19.31	20.56
	6H	21.49	22.16	22.46	23.12	24.38	17.94	18.60	18.90	19.56	20.83
	8H	21.54	22.17	22.51	23.15	24.41	18.05	18.68	19.03	19.66	20.92
	12H	21.54	22.14	22.52	23.11	24.40	18.08	18.68	19.06	19.65	20.94
4H	2H	19.74	20.46	20.70	21.42	22.67	16.66	17.38	17.63	18.34	19.59
	3H	21.27	21.87	22.25	22.86	24.13	18.11	18.71	19.08	19.69	20.96
	4H	21.82	22.37	22.80	23.35	24.64	18.69	19.23	19.67	20.21	21.50
	6H	22.13	22.60	23.13	23.61	24.89	19.07	19.54	20.06	20.54	21.83
	8H	22.22	22.66	23.22	23.66	24.96	19.22	19.66	20.22	20.66	21.96
	12H	22.24	22.64	23.26	23.65	24.96	19.26	19.66	20.28	20.67	21.98
8H	4H	21.86	22.30	22.85	23.30	24.60	19.03	19.47	20.02	20.47	21.77
	6H	22.28	22.64	23.30	23.68	24.98	19.52	19.88	20.54	20.92	22.22
	8H	22.45	22.77	23.48	23.80	25.11	19.74	20.06	20.77	21.09	22.40
	12H	22.53	22.81	23.56	23.83	25.19	19.82	20.10	20.85	21.12	22.49
12H	4H	21.82	22.21	22.83	23.23	24.53	19.05	19.44	20.06	20.46	21.76
	6H	22.27	22.59	23.30	23.62	24.94	19.60	19.92	20.62	20.94	22.26
	8H	22.46	22.75	23.49	23.76	25.13	19.84	20.12	20.87	21.14	22.50