

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: P1428419

Luminaire Tested: SQ2W-PW1-K-100U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428419  
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-050D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

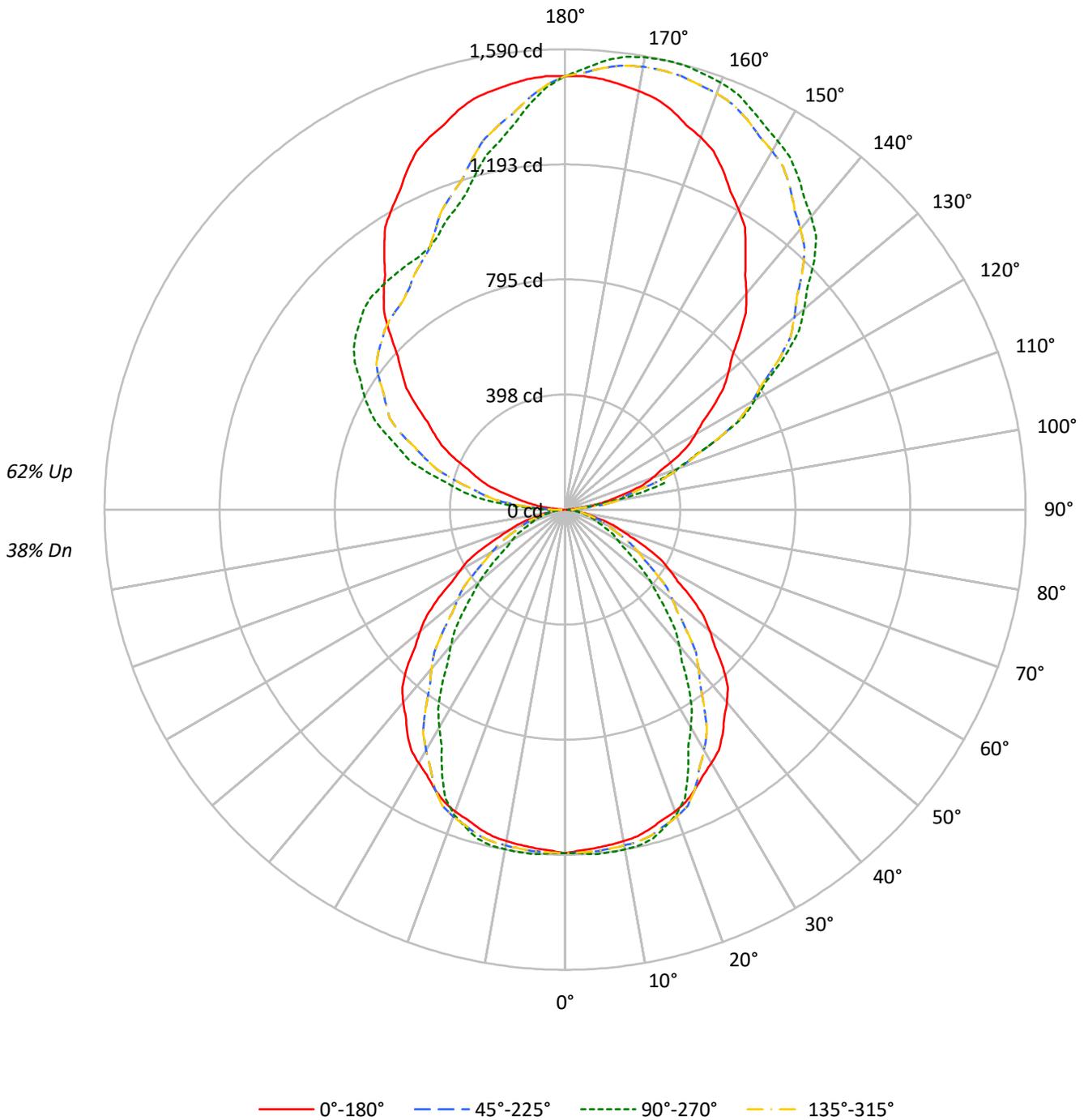
Lumens per Lamp: N/A  
Luminaire Lumens: 7011.9 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.9  
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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-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				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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	88	84	86	83	80	77	68	65	64	53	52	51	40	39	39	33
2	87	80	74	70	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	50	66	58	51	46	47	43	39	38	35	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	34	34	31	28	26	24	22	19
6	62	50	43	37	56	46	39	35	38	33	29	31	27	24	24	22	20	16
7	57	46	38	33	52	42	35	30	35	30	26	28	24	22	22	19	18	15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16	13
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13	11

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

	0°	90°	180°	270°
0°	19168	19168	19168	19168
5°	19040	19369	19040	19369
10°	19074	19537	19074	19537
15°	19069	19655	19069	19655
20°	19077	19271	19077	19271
25°	18974	17907	18974	17907
30°	18845	16188	18845	16188
35°	18697	14619	18697	14619
40°	18326	12916	18326	12916
45°	17607	11282	17607	11282
50°	16387	9655	16387	9655
55°	14989	7828	14989	7828
60°	13436	6755	13436	6755
65°	11748	6006	11748	6006
70°	9607	5443	9607	5443
75°	7473	5009	7473	5009
80°	5569	4416	5569	4416
85°	3779	2519	3779	2519

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17607 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	1.6
10°-20°	327.6	4.7
20°-30°	482.0	6.9
30°-40°	527.0	7.5
40°-50°	472.8	6.7
50°-60°	352.7	5.0
60°-70°	222.9	3.2
70°-80°	110.4	1.6
80°-90°	32.1	0.5
90°-100°	119.2	1.7
100°-110°	347.5	5.0
110°-120°	567.1	8.1
120°-130°	719.6	10.3
130°-140°	770.0	11.0
140°-150°	719.0	10.3
150°-160°	591.6	8.4
160°-170°	396.8	5.7
170°-180°	140.9	2.0
0°-30°	922.6	13.2
0°-40°	1449.7	20.7
0°-60°	2275.1	32.4
0°-90°	2640.5	37.7
90°-120°	1033.7	14.7
90°-150°	3242.2	46.2
90°-180°	4371.0	62.3
0°-180°	7011.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1187	1187	1187	1187	1187	
5°	1175	1195	1175	1195	1175	112
15°	1141	1176	1141	1176	1141	322
25°	1065	1005	1065	1005	1065	490
35°	949	742	949	742	949	592
45°	771	494	771	494	771	591
55°	532	278	532	278	532	476
65°	308	157	308	157	308	305
75°	120	80	120	80	120	132
85°	20	14	20	14	20	26
90°	4	33	4	65	4	4
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°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1179.0	1185.9	1192.7	1191.1	1186.7	1184.7	1185.1	1185.7	1186.9	1188.1	1186.9
5°	1174.8	1183.3	1191.8	1190.6	1186.1	1184.0	1184.6	1186.1	1190.6	1195.1	1190.6
7.5°	1168.9	1177.5	1186.2	1185.8	1182.3	1181.5	1183.2	1185.6	1190.0	1194.4	1190.0
10°	1163.4	1172.5	1181.5	1181.5	1178.5	1178.3	1180.8	1183.7	1187.7	1191.7	1187.7
12.5°	1156.2	1165.7	1175.1	1175.8	1173.6	1173.9	1176.9	1180.1	1184.1	1188.1	1184.1
15°	1140.8	1150.9	1160.9	1163.1	1162.6	1164.1	1167.6	1170.9	1173.4	1175.9	1173.4
17.5°	1123.0	1133.0	1143.1	1145.1	1144.3	1144.4	1145.4	1146.3	1147.5	1148.7	1147.5
20°	1110.3	1120.4	1130.4	1131.8	1130.3	1127.8	1124.2	1121.6	1121.6	1121.6	1121.6
22.5°	1092.2	1103.1	1113.9	1114.0	1110.5	1103.9	1094.4	1086.4	1083.2	1080.0	1083.2
25°	1065.1	1075.6	1086.2	1081.3	1071.2	1056.4	1036.8	1020.2	1012.7	1005.2	1012.7
27.5°	1033.4	1042.0	1050.5	1037.7	1017.8	993.9	966.1	942.6	932.2	921.7	932.2
30°	1010.8	1017.3	1023.9	1003.6	974.5	944.6	913.9	888.4	878.4	868.3	878.4
32.5°	987.3	989.8	992.3	965.7	929.3	895.2	863.3	836.7	825.8	815.0	825.8
35°	948.6	944.1	939.6	904.1	858.4	819.5	787.3	760.8	751.3	741.7	751.3
37.5°	902.9	889.5	876.0	836.1	787.3	746.1	712.5	684.6	674.0	663.5	674.0
40°	869.5	850.4	831.3	788.4	737.7	695.5	661.8	633.9	623.4	612.8	623.4
42.5°	832.4	808.5	784.5	740.5	689.8	647.5	613.9	585.9	574.9	564.0	574.9
45°	771.1	743.0	714.8	669.0	617.2	575.0	542.3	515.2	504.6	494.1	504.6
47.5°	702.1	674.2	646.3	600.5	548.9	507.2	475.6	449.5	440.5	431.5	440.5
50°	652.4	625.3	598.1	554.4	505.2	464.7	433.0	406.5	395.5	384.4	395.5
52.5°	601.7	577.4	553.1	511.0	462.9	422.7	390.2	362.1	347.0	332.0	347.0
55°	532.5	509.4	486.3	446.6	401.4	360.7	324.5	295.2	286.7	278.1	286.7
57.5°	461.3	441.3	421.3	385.6	344.7	307.8	275.0	248.6	241.5	234.5	241.5
60°	416.1	398.5	380.9	346.7	307.0	273.4	245.7	223.2	216.2	209.2	216.2
62.5°	372.7	357.1	341.5	308.7	270.3	240.0	218.0	200.0	194.2	188.4	194.2
65°	307.5	296.0	284.4	257.4	225.3	200.1	182.0	167.2	162.2	157.2	162.2
67.5°	244.2	237.8	231.4	211.1	186.3	166.0	150.1	137.3	134.0	130.7	134.0
70°	203.5	201.5	199.5	182.8	161.2	143.8	130.8	120.4	117.8	115.3	117.8
72.5°	168.2	169.0	169.8	156.0	137.2	122.6	112.4	104.3	102.6	100.9	102.6
75°	119.8	123.9	127.9	118.7	105.2	94.8	87.8	82.3	81.3	80.3	81.3
77.5°	81.6	87.7	93.7	87.7	77.8	70.2	65.0	60.9	60.1	59.2	60.1
80°	59.9	66.0	72.0	67.8	60.3	54.5	50.5	47.5	47.5	47.5	47.5
82.5°	41.8	46.7	51.5	48.5	43.0	39.2	37.2	35.7	35.7	35.7	35.7
85°	20.4	22.9	25.4	24.5	22.5	20.0	17.0	14.6	14.1	13.6	14.1
87.5°	6.3	8.8	11.5	11.5	10.4	9.5	9.1	9.1	9.4	9.4	9.4
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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CATALOG NUMBER: SQ2W-PW1-K-100U-050D-L830-UNV-STD-W-WM-4

**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°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1185.7	1185.1	1184.7	1186.7	1191.1	1192.7	1185.9	1179.0	1185.9	1192.7	1191.1
5°	1186.1	1184.6	1184.0	1186.1	1190.6	1191.8	1183.3	1174.8	1183.3	1191.8	1190.6
7.5°	1185.6	1183.2	1181.5	1182.3	1185.8	1186.2	1177.5	1168.9	1177.5	1186.2	1185.8
10°	1183.7	1180.8	1178.3	1178.5	1181.5	1181.5	1172.5	1163.4	1172.5	1181.5	1181.5
12.5°	1180.1	1176.9	1173.9	1173.6	1175.8	1175.1	1165.7	1156.2	1165.7	1175.1	1175.8
15°	1170.9	1167.6	1164.1	1162.6	1163.1	1160.9	1150.9	1140.8	1150.9	1160.9	1163.1
17.5°	1146.3	1145.4	1144.4	1144.3	1145.1	1143.1	1133.0	1123.0	1133.0	1143.1	1145.1
20°	1121.6	1124.2	1127.8	1130.3	1131.8	1130.4	1120.4	1110.3	1120.4	1130.4	1131.8
22.5°	1086.4	1094.4	1103.9	1110.5	1114.0	1113.9	1103.1	1092.2	1103.1	1113.9	1114.0
25°	1020.2	1036.8	1056.4	1071.2	1081.3	1086.2	1075.6	1065.1	1075.6	1086.2	1081.3
27.5°	942.6	966.1	993.9	1017.8	1037.7	1050.5	1042.0	1033.4	1042.0	1050.5	1037.7
30°	888.4	913.9	944.6	974.5	1003.6	1023.9	1017.3	1010.8	1017.3	1023.9	1003.6
32.5°	836.7	863.3	895.2	929.3	965.7	992.3	989.8	987.3	989.8	992.3	965.7
35°	760.8	787.3	819.5	858.4	904.1	939.6	944.1	948.6	944.1	939.6	904.1
37.5°	684.6	712.5	746.1	787.3	836.1	876.0	889.5	902.9	889.5	876.0	836.1
40°	633.9	661.8	695.5	737.7	788.4	831.3	850.4	869.5	850.4	831.3	788.4
42.5°	585.9	613.9	647.5	689.8	740.5	784.5	808.5	832.4	808.5	784.5	740.5
45°	515.2	542.3	575.0	617.2	669.0	714.8	743.0	771.1	743.0	714.8	669.0
47.5°	449.5	475.6	507.2	548.9	600.5	646.3	674.2	702.1	674.2	646.3	600.5
50°	406.5	433.0	464.7	505.2	554.4	598.1	625.3	652.4	625.3	598.1	554.4
52.5°	362.1	390.2	422.7	462.9	511.0	553.1	577.4	601.7	577.4	553.1	511.0
55°	295.2	324.5	360.7	401.4	446.6	486.3	509.4	532.5	509.4	486.3	446.6
57.5°	248.6	275.0	307.8	344.7	385.6	421.3	441.3	461.3	441.3	421.3	385.6
60°	223.2	245.7	273.4	307.0	346.7	380.9	398.5	416.1	398.5	380.9	346.7
62.5°	200.0	218.0	240.0	270.3	308.7	341.5	357.1	372.7	357.1	341.5	308.7
65°	167.2	182.0	200.1	225.3	257.4	284.4	296.0	307.5	296.0	284.4	257.4
67.5°	137.3	150.1	166.0	186.3	211.1	231.4	237.8	244.2	237.8	231.4	211.1
70°	120.4	130.8	143.8	161.2	182.8	199.5	201.5	203.5	201.5	199.5	182.8
72.5°	104.3	112.4	122.6	137.2	156.0	169.8	169.0	168.2	169.0	169.8	156.0
75°	82.3	87.8	94.8	105.2	118.7	127.9	123.9	119.8	123.9	127.9	118.7
77.5°	60.9	65.0	70.2	77.8	87.7	93.7	87.7	81.6	87.7	93.7	87.7
80°	47.5	50.5	54.5	60.3	67.8	72.0	66.0	59.9	66.0	72.0	67.8
82.5°	35.7	37.2	39.2	43.0	48.5	51.5	46.7	41.8	46.7	51.5	48.5
85°	14.6	17.0	20.0	22.5	24.5	25.4	22.9	20.4	22.9	25.4	24.5
87.5°	9.1	9.1	9.5	10.4	11.5	11.5	8.8	6.3	8.8	11.2	12.1
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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1186.7	1184.7	1185.1	1185.7	1186.9	1188.1	1186.9	1185.7	1185.1	1184.7	1186.7
5°	1186.1	1184.0	1184.6	1186.1	1190.6	1195.1	1190.6	1186.1	1184.6	1184.0	1186.1
7.5°	1182.3	1181.5	1183.2	1185.6	1190.0	1194.4	1190.0	1185.6	1183.2	1181.5	1182.3
10°	1178.5	1178.3	1180.8	1183.7	1187.7	1191.7	1187.7	1183.7	1180.8	1178.3	1178.5
12.5°	1173.6	1173.9	1176.9	1180.1	1184.1	1188.1	1184.1	1180.1	1176.9	1173.9	1173.6
15°	1162.6	1164.1	1167.6	1170.9	1173.4	1175.9	1173.4	1170.9	1167.6	1164.1	1162.6
17.5°	1144.3	1144.4	1145.4	1146.3	1147.5	1148.7	1147.5	1146.3	1145.4	1144.4	1144.3
20°	1130.3	1127.8	1124.2	1121.6	1121.6	1121.6	1121.6	1121.6	1124.2	1127.8	1130.3
22.5°	1110.5	1103.9	1094.4	1086.4	1083.2	1080.0	1083.2	1086.4	1094.4	1103.9	1110.5
25°	1071.2	1056.4	1036.8	1020.2	1012.7	1005.2	1012.7	1020.2	1036.8	1056.4	1071.2
27.5°	1017.8	993.9	966.1	942.6	932.2	921.7	932.2	942.6	966.1	993.9	1017.8
30°	974.5	944.6	913.9	888.4	878.4	868.3	878.4	888.4	913.9	944.6	974.5
32.5°	929.3	895.2	863.3	836.7	825.8	815.0	825.8	836.7	863.3	895.2	929.3
35°	858.4	819.5	787.3	760.8	751.3	741.7	751.3	760.8	787.3	819.5	858.4
37.5°	787.3	746.1	712.5	684.6	674.0	663.5	674.0	684.6	712.5	746.1	787.3
40°	737.7	695.5	661.8	633.9	623.4	612.8	623.4	633.9	661.8	695.5	737.7
42.5°	689.8	647.5	613.9	585.9	574.9	564.0	574.9	585.9	613.9	647.5	689.8
45°	617.2	575.0	542.3	515.2	504.6	494.1	504.6	515.2	542.3	575.0	617.2
47.5°	548.9	507.2	475.6	449.5	440.5	431.5	440.5	449.5	475.6	507.2	548.9
50°	505.2	464.7	433.0	406.5	395.5	384.4	395.5	406.5	433.0	464.7	505.2
52.5°	462.9	422.7	390.2	362.1	347.0	332.0	347.0	362.1	390.2	422.7	462.9
55°	401.4	360.7	324.5	295.2	286.7	278.1	286.7	295.2	324.5	360.7	401.4
57.5°	344.7	307.8	275.0	248.6	241.5	234.5	241.5	248.6	275.0	307.8	344.7
60°	307.0	273.4	245.7	223.2	216.2	209.2	216.2	223.2	245.7	273.4	307.0
62.5°	270.3	240.0	218.0	200.0	194.2	188.4	194.2	200.0	218.0	240.0	270.3
65°	225.3	200.1	182.0	167.2	162.2	157.2	162.2	167.2	182.0	200.1	225.3
67.5°	186.3	166.0	150.1	137.3	134.0	130.7	134.0	137.3	150.1	166.0	186.3
70°	161.2	143.8	130.8	120.4	117.8	115.3	117.8	120.4	130.8	143.8	161.2
72.5°	137.2	122.6	112.4	104.3	102.6	100.9	102.6	104.3	112.4	122.6	137.2
75°	105.2	94.8	87.8	82.3	81.3	80.3	81.3	82.3	87.8	94.8	105.2
77.5°	77.8	70.2	65.0	60.9	60.1	59.2	60.1	60.9	65.0	70.2	77.8
80°	60.3	54.5	50.5	47.5	47.5	47.5	47.5	47.5	50.5	54.5	60.3
82.5°	43.0	39.2	37.2	35.7	35.7	35.7	35.7	35.7	37.2	39.2	43.0
85°	22.5	20.0	17.0	14.6	14.1	13.6	14.1	14.6	17.0	20.0	22.5
87.5°	11.6	12.5	14.2	15.1	16.3	15.7	16.3	15.1	14.2	12.5	11.6
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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1187.2	1187.2	1187.2	1187.2
2.5°	1191.1	1192.7	1185.9	1179.0
5°	1190.6	1191.8	1183.3	1174.8
7.5°	1185.8	1186.2	1177.5	1168.9
10°	1181.5	1181.5	1172.5	1163.4
12.5°	1175.8	1175.1	1165.7	1156.2
15°	1163.1	1160.9	1150.9	1140.8
17.5°	1145.1	1143.1	1133.0	1123.0
20°	1131.8	1130.4	1120.4	1110.3
22.5°	1114.0	1113.9	1103.1	1092.2
25°	1081.3	1086.2	1075.6	1065.1
27.5°	1037.7	1050.5	1042.0	1033.4
30°	1003.6	1023.9	1017.3	1010.8
32.5°	965.7	992.3	989.8	987.3
35°	904.1	939.6	944.1	948.6
37.5°	836.1	876.0	889.5	902.9
40°	788.4	831.3	850.4	869.5
42.5°	740.5	784.5	808.5	832.4
45°	669.0	714.8	743.0	771.1
47.5°	600.5	646.3	674.2	702.1
50°	554.4	598.1	625.3	652.4
52.5°	511.0	553.1	577.4	601.7
55°	446.6	486.3	509.4	532.5
57.5°	385.6	421.3	441.3	461.3
60°	346.7	380.9	398.5	416.1
62.5°	308.7	341.5	357.1	372.7
65°	257.4	284.4	296.0	307.5
67.5°	211.1	231.4	237.8	244.2
70°	182.8	199.5	201.5	203.5
72.5°	156.0	169.8	169.0	168.2
75°	118.7	127.9	123.9	119.8
77.5°	87.7	93.7	87.7	81.6
80°	67.8	72.0	66.0	59.9
82.5°	48.5	51.5	46.7	41.8
85°	24.5	25.4	22.9	20.4
87.5°	12.1	11.2	8.8	6.3
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: P1428419

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-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: P1428419  
 CATALOG NUMBER: SQ2W-PW1-K-100U-050D-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	15.90	16.63	16.96	17.69	19.13	12.14	12.88	13.21	13.94	15.38
	3H	17.19	17.84	18.26	18.91	20.37	13.40	14.06	14.48	15.13	16.59
	4H	17.59	18.21	18.67	19.28	20.75	13.90	14.53	14.99	15.60	17.06
	6H	17.76	18.34	18.86	19.41	20.89	14.21	14.78	15.30	15.85	17.33
	8H	17.80	18.35	18.90	19.44	20.91	14.32	14.86	15.41	15.95	17.42
	12H	17.80	18.32	18.90	19.40	20.89	14.34	14.86	15.44	15.94	17.44
4H	2H	16.01	16.63	17.10	17.71	19.17	12.94	13.56	14.03	14.63	16.10
	3H	17.54	18.06	18.64	19.16	20.63	14.37	14.89	15.47	15.99	17.47
	4H	18.08	18.55	19.18	19.64	21.14	14.95	15.42	16.05	16.51	18.01
	6H	18.39	18.79	19.50	19.90	21.40	15.32	15.73	16.43	16.84	18.33
	8H	18.47	18.85	19.58	19.96	21.46	15.47	15.85	16.58	16.96	18.46
	12H	18.49	18.83	19.62	19.95	21.46	15.51	15.85	16.64	16.97	18.48
8H	4H	18.11	18.49	19.22	19.59	21.10	15.28	15.66	16.39	16.76	18.27
	6H	18.53	18.84	19.66	19.99	21.49	15.77	16.08	16.90	17.23	18.73
	8H	18.70	18.97	19.84	20.10	21.62	15.99	16.26	17.13	17.39	18.91
	12H	18.77	19.01	19.91	20.13	21.70	16.07	16.31	17.21	17.43	18.99
12H	4H	18.06	18.41	19.19	19.52	21.04	15.29	15.64	16.42	16.75	18.27
	6H	18.52	18.79	19.66	19.92	21.45	15.84	16.12	16.98	17.25	18.77
	8H	18.71	18.95	19.85	20.07	21.63	16.08	16.32	17.22	17.45	19.01