

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: P1428252

Luminaire Tested: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428252  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

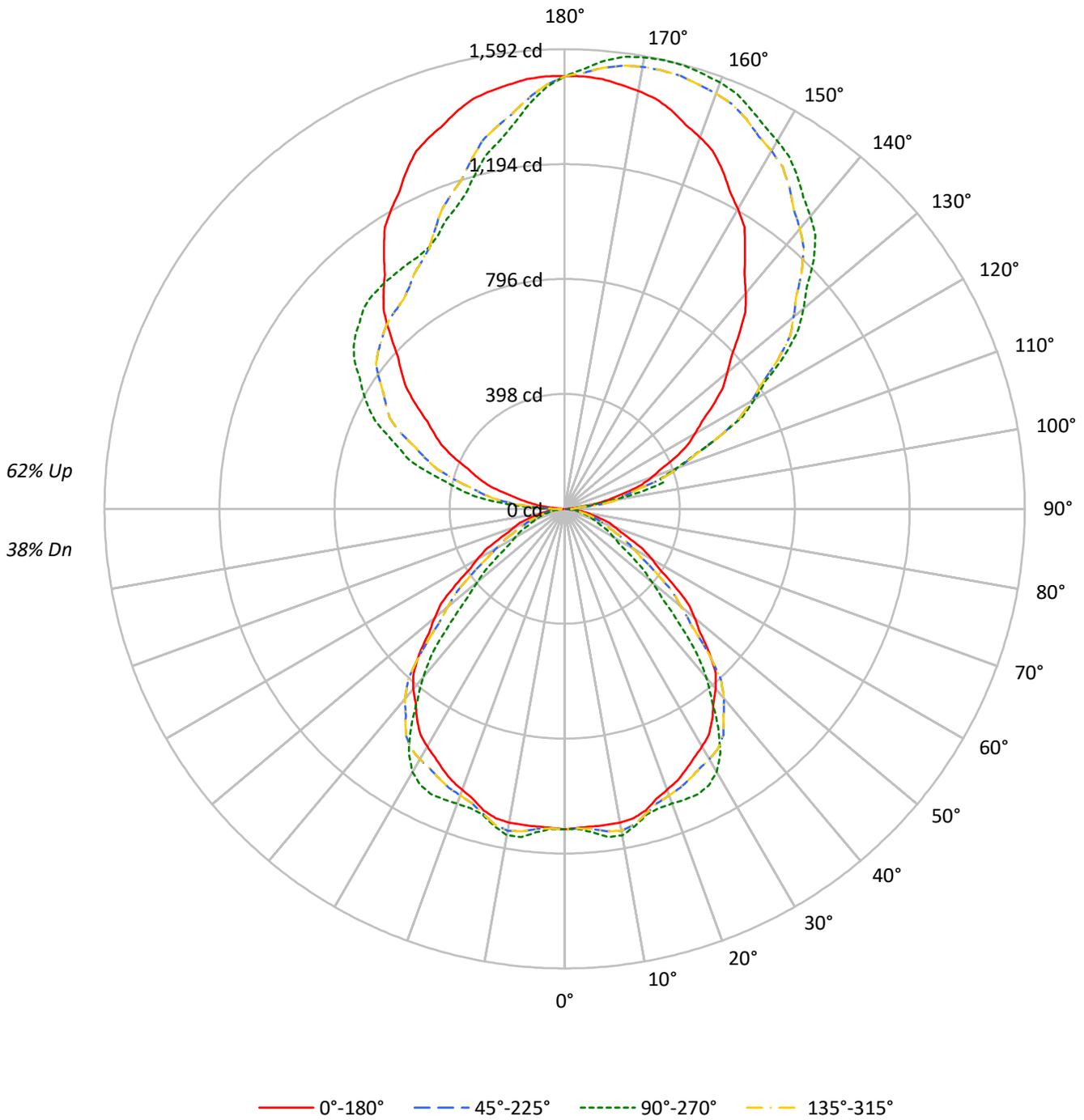
Lumens per Lamp: N/A  
Luminaire Lumens: 7052.4 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-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	77	77	77	60	60	60	45	45	45	38
1	96	91	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	71	64	59	72	65	59	54	53	49	45	42	40	37	32	31	29	24
4	73	63	56	50	66	58	51	46	47	43	39	38	35	32	29	27	25	21
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	26	24	22	19
6	62	50	43	37	56	46	40	35	38	33	30	31	27	25	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16	13
9	49	38	31	26	45	35	28	24	29	24	21	24	20	17	19	16	14	12
10	46	35	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

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

	0°	90°	180°	270°
0°	17925	17925	17925	17925
5°	17901	18232	17901	18232
10°	18090	18831	18090	18831
15°	18084	18330	18084	18330
20°	17792	18666	17792	18666
25°	17742	19434	17742	19434
30°	17722	19622	17722	19622
35°	17554	18267	17554	18267
40°	17150	16075	17150	16075
45°	16228	12714	16228	12714
50°	14752	9864	14752	9864
55°	12965	7676	12965	7676
60°	11218	6323	11218	6323
65°	9685	5536	9685	5536
70°	8710	4914	8710	4914
75°	7979	4516	7979	4516
80°	6945	4416	6945	4416
85°	5039	2093	5039	2093

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 17422 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.5
10°-20°	310.4	4.4
20°-30°	479.8	6.8
30°-40°	577.0	8.2
40°-50°	518.1	7.3
50°-60°	347.2	4.9
60°-70°	202.0	2.9
70°-80°	103.7	1.5
80°-90°	31.8	0.5
90°-100°	119.3	1.7
100°-110°	347.8	4.9
110°-120°	567.6	8.0
120°-130°	720.2	10.2
130°-140°	770.6	10.9
140°-150°	719.6	10.2
150°-160°	592.1	8.4
160°-170°	397.1	5.6
170°-180°	141.0	2.0
0°-30°	897.3	12.7
0°-40°	1474.3	20.9
0°-60°	2339.6	33.2
0°-90°	2677.1	38.0
90°-120°	1034.6	14.7
90°-150°	3245.1	46.0
90°-180°	4375.0	62.0
0°-180°	7052.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1110	1110	1110	1110	1110	
5°	1104	1125	1104	1125	1104	105
15°	1082	1097	1082	1097	1082	304
25°	996	1091	996	1091	996	459
35°	891	927	891	927	891	555
45°	711	557	711	557	711	544
55°	461	273	461	273	461	414
65°	254	145	254	145	254	256
75°	128	72	128	72	128	136
85°	27	11	27	11	27	34
90°	4	33	4	65	4	5
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	424	587	424	724	424	418
125°	627	931	627	887	627	561
135°	852	1218	852	982	852	659
145°	1088	1405	1088	1004	1088	681
155°	1293	1526	1293	1041	1293	594
165°	1429	1591	1429	1199	1429	402
175°	1494	1558	1494	1406	1494	142
180°	1498	1498	1498	1498	1498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1105.6	1111.7	1117.7	1115.0	1109.4	1106.8	1107.2	1107.8	1109.0	1110.2	1109.0
5°	1104.5	1113.1	1121.6	1119.6	1114.1	1111.8	1112.8	1114.8	1119.9	1124.9	1119.9
7.5°	1104.3	1116.5	1128.6	1129.6	1126.7	1126.8	1129.7	1133.6	1140.2	1146.8	1140.2
10°	1103.4	1118.0	1132.6	1134.7	1132.7	1131.9	1132.4	1134.6	1141.6	1148.6	1141.6
12.5°	1097.9	1114.9	1132.0	1130.2	1122.1	1117.7	1117.0	1117.5	1121.3	1125.1	1121.3
15°	1081.9	1102.0	1122.1	1113.9	1096.3	1088.3	1089.8	1091.6	1094.1	1096.6	1094.1
17.5°	1053.6	1074.6	1095.6	1088.3	1071.5	1065.8	1071.2	1076.5	1081.5	1086.4	1081.5
20°	1035.5	1056.1	1076.7	1071.7	1058.1	1054.8	1061.9	1069.3	1077.9	1086.4	1077.9
22.5°	1019.2	1039.8	1060.4	1057.2	1046.0	1045.4	1055.2	1065.6	1077.4	1089.1	1077.4
25°	995.9	1014.0	1032.1	1032.5	1026.9	1032.5	1049.1	1064.8	1077.9	1090.9	1077.9
27.5°	971.4	982.1	992.8	999.8	1005.6	1019.8	1042.2	1061.3	1070.5	1079.6	1070.5
30°	950.6	957.6	964.7	977.8	992.9	1010.2	1029.8	1045.4	1048.9	1052.5	1048.9
32.5°	928.0	932.2	936.4	954.8	978.0	994.7	1005.1	1011.7	1007.2	1002.7	1007.2
35°	890.6	894.1	897.7	921.2	951.4	962.4	954.4	946.0	936.4	926.8	936.4
37.5°	846.3	853.5	860.8	879.9	903.1	902.8	879.3	858.9	848.0	837.0	848.0
40°	813.7	825.7	837.8	850.6	863.7	852.7	817.4	787.9	775.3	762.7	775.3
42.5°	773.8	793.2	812.5	815.3	812.7	789.0	744.1	706.6	691.2	675.8	691.2
45°	710.7	736.8	763.0	748.0	719.4	680.6	631.9	591.0	573.9	556.8	573.9
47.5°	636.2	663.1	689.9	661.7	615.2	570.1	526.5	489.9	473.9	457.9	473.9
50°	587.3	609.0	630.6	598.7	548.9	503.6	462.9	427.9	410.3	392.7	410.3
52.5°	537.5	553.1	568.7	537.1	489.7	445.7	404.9	370.4	354.4	338.4	354.4
55°	460.6	468.6	476.7	447.4	405.6	365.4	326.7	294.9	283.8	272.7	283.8
57.5°	390.0	395.1	400.2	372.5	333.7	297.9	265.0	238.3	230.2	222.0	230.2
60°	347.4	350.9	354.5	326.3	287.6	255.4	229.7	208.9	202.3	195.8	202.3
62.5°	308.5	311.2	313.9	286.8	249.6	220.9	200.5	183.9	179.0	174.1	179.0
65°	253.5	256.0	258.5	235.4	203.7	180.1	164.5	151.9	148.4	144.9	148.4
67.5°	209.8	211.1	212.4	193.4	167.5	148.5	136.2	126.1	122.8	119.5	122.8
70°	184.5	185.0	185.5	168.6	146.0	129.1	118.1	109.1	106.6	104.1	106.6
72.5°	161.8	161.1	160.4	145.4	125.6	111.1	102.1	94.9	93.1	91.4	93.1
75°	127.9	126.4	124.9	112.4	96.3	85.3	79.2	74.4	73.4	72.4	73.4
77.5°	95.5	93.9	92.3	81.9	68.7	61.0	59.0	57.5	57.5	57.5	57.5
80°	74.7	72.7	70.7	62.6	52.6	47.5	47.5	47.5	47.5	47.5	47.5
82.5°	55.7	52.9	50.0	45.1	39.5	36.7	36.7	36.6	36.2	35.8	36.2
85°	27.2	24.6	22.1	21.5	21.5	20.0	17.0	14.3	12.8	11.3	12.8
87.5°	8.2	9.4	10.9	10.6	9.5	8.8	8.8	9.1	9.4	9.4	9.4
90°	4.5	10.6	18.2	24.2	28.8	30.3	30.3	31.8	33.3	33.3	33.3
92.5°	16.7	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.4	39.4	39.4
95°	46.9	51.5	77.2	75.7	51.5	40.9	34.8	34.8	34.8	34.8	34.8
97.5°	89.6	96.3	100.5	134.7	142.3	137.4	112.0	94.1	84.2	79.6	84.2
100°	127.1	130.2	139.3	140.8	178.6	214.9	196.8	174.1	166.5	162.0	166.5
102.5°	164.7	166.5	180.4	186.8	195.6	216.1	279.1	272.2	267.0	266.1	267.0
105°	221.0	222.5	248.2	260.3	266.4	266.4	264.9	295.2	343.6	354.2	343.6
107.5°	281.2	288.2	318.5	350.9	357.8	359.6	351.8	347.2	345.4	346.6	345.4
110°	322.4	333.0	369.3	410.2	420.8	423.8	420.8	416.3	413.2	413.2	413.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.4	377.8	419.0	465.9	483.8	492.8	486.2	482.9	479.8	482.2	479.8
115°	423.8	446.5	501.0	549.5	585.8	590.3	588.8	588.8	587.3	587.3	587.3
117.5°	480.7	517.1	578.2	634.5	676.6	688.7	694.8	692.9	691.1	694.2	691.1
120°	520.7	563.1	632.7	696.3	737.1	755.3	761.4	758.3	761.4	758.3	761.4
122.5°	563.1	615.1	683.6	749.6	797.7	818.3	825.5	826.2	826.8	824.9	826.8
125°	626.7	690.2	770.4	838.6	888.5	912.7	918.8	920.3	923.3	930.9	923.3
127.5°	690.8	762.9	851.0	916.7	967.8	997.2	1006.6	1009.9	1016.3	1019.6	1016.3
130°	735.6	817.4	906.7	968.7	1018.7	1050.5	1067.1	1071.7	1079.2	1077.7	1079.2
132.5°	782.9	868.2	958.7	1023.2	1069.5	1103.8	1118.0	1131.0	1133.7	1135.8	1133.7
135°	852.2	944.5	1035.3	1098.9	1142.8	1176.1	1194.3	1206.4	1213.9	1218.5	1213.9
137.5°	925.1	1022.6	1109.8	1166.4	1210.6	1239.4	1260.0	1272.7	1280.5	1284.2	1280.5
140°	974.8	1068.6	1153.4	1212.4	1251.8	1280.5	1298.7	1313.8	1322.9	1322.9	1322.9
142.5°	1022.0	1114.7	1197.0	1256.0	1290.5	1316.9	1336.3	1347.8	1358.0	1358.0	1358.0
145°	1088.3	1180.6	1256.3	1315.4	1344.1	1368.3	1389.5	1398.6	1404.7	1404.7	1404.7
147.5°	1157.6	1239.4	1308.4	1365.0	1389.2	1417.7	1434.3	1441.6	1449.2	1445.8	1449.2
150°	1198.8	1274.5	1341.1	1394.1	1418.3	1445.5	1462.2	1468.2	1475.8	1471.3	1475.8
152.5°	1238.8	1310.8	1371.4	1420.7	1441.3	1468.5	1487.6	1493.7	1498.8	1495.5	1498.8
155°	1292.7	1356.2	1412.2	1457.6	1475.8	1501.5	1519.7	1527.3	1533.3	1525.8	1533.3
157.5°	1340.8	1395.6	1444.3	1486.1	1505.5	1527.6	1544.5	1553.9	1560.0	1556.6	1560.0
160°	1369.9	1419.8	1463.7	1503.1	1521.2	1540.9	1559.1	1569.7	1575.7	1571.2	1575.7
162.5°	1394.1	1439.2	1480.7	1516.4	1532.1	1549.4	1571.2	1580.6	1586.6	1580.9	1586.6
165°	1428.9	1465.2	1501.5	1531.8	1545.4	1559.1	1581.8	1592.4	1596.9	1590.8	1596.9
167.5°	1455.2	1483.1	1512.4	1538.5	1548.5	1561.8	1584.5	1593.3	1599.0	1591.5	1599.0
170°	1469.8	1494.0	1519.7	1540.9	1548.5	1560.6	1583.3	1590.8	1595.4	1587.8	1595.4
172.5°	1481.9	1500.0	1520.9	1539.7	1543.6	1553.3	1574.8	1582.4	1585.7	1579.3	1585.7
175°	1494.0	1504.6	1519.7	1531.8	1530.3	1536.4	1554.5	1560.6	1566.6	1557.5	1566.6
177.5°	1499.7	1504.6	1509.4	1516.7	1511.8	1511.8	1525.2	1528.8	1530.0	1525.2	1530.0
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1107.8	1107.2	1106.8	1109.4	1115.0	1117.7	1111.7	1105.6	1111.7	1117.7	1115.0
5°	1114.8	1112.8	1111.8	1114.1	1119.6	1121.6	1113.1	1104.5	1113.1	1121.6	1119.6
7.5°	1133.6	1129.7	1126.8	1126.7	1129.6	1128.6	1116.5	1104.3	1116.5	1128.6	1129.6
10°	1134.6	1132.4	1131.9	1132.7	1134.7	1132.6	1118.0	1103.4	1118.0	1132.6	1134.7
12.5°	1117.5	1117.0	1117.7	1122.1	1130.2	1132.0	1114.9	1097.9	1114.9	1132.0	1130.2
15°	1091.6	1089.8	1088.3	1096.3	1113.9	1122.1	1102.0	1081.9	1102.0	1122.1	1113.9
17.5°	1076.5	1071.2	1065.8	1071.5	1088.3	1095.6	1074.6	1053.6	1074.6	1095.6	1088.3
20°	1069.3	1061.9	1054.8	1058.1	1071.7	1076.7	1056.1	1035.5	1056.1	1076.7	1071.7
22.5°	1065.6	1055.2	1045.4	1046.0	1057.2	1060.4	1039.8	1019.2	1039.8	1060.4	1057.2
25°	1064.8	1049.1	1032.5	1026.9	1032.5	1032.1	1014.0	995.9	1014.0	1032.1	1032.5
27.5°	1061.3	1042.2	1019.8	1005.6	999.8	992.8	982.1	971.4	982.1	992.8	999.8
30°	1045.4	1029.8	1010.2	992.9	977.8	964.7	957.6	950.6	957.6	964.7	977.8
32.5°	1011.7	1005.1	994.7	978.0	954.8	936.4	932.2	928.0	932.2	936.4	954.8
35°	946.0	954.4	962.4	951.4	921.2	897.7	894.1	890.6	894.1	897.7	921.2
37.5°	858.9	879.3	902.8	903.1	879.9	860.8	853.5	846.3	853.5	860.8	879.9
40°	787.9	817.4	852.7	863.7	850.6	837.8	825.7	813.7	825.7	837.8	850.6
42.5°	706.6	744.1	789.0	812.7	815.3	812.5	793.2	773.8	793.2	812.5	815.3
45°	591.0	631.9	680.6	719.4	748.0	763.0	736.8	710.7	736.8	763.0	748.0
47.5°	489.9	526.5	570.1	615.2	661.7	689.9	663.1	636.2	663.1	689.9	661.7
50°	427.9	462.9	503.6	548.9	598.7	630.6	609.0	587.3	609.0	630.6	598.7
52.5°	370.4	404.9	445.7	489.7	537.1	568.7	553.1	537.5	553.1	568.7	537.1
55°	294.9	326.7	365.4	405.6	447.4	476.7	468.6	460.6	468.6	476.7	447.4
57.5°	238.3	265.0	297.9	333.7	372.5	400.2	395.1	390.0	395.1	400.2	372.5
60°	208.9	229.7	255.4	287.6	326.3	354.5	350.9	347.4	350.9	354.5	326.3
62.5°	183.9	200.5	220.9	249.6	286.8	313.9	311.2	308.5	311.2	313.9	286.8
65°	151.9	164.5	180.1	203.7	235.4	258.5	256.0	253.5	256.0	258.5	235.4
67.5°	126.1	136.2	148.5	167.5	193.4	212.4	211.1	209.8	211.1	212.4	193.4
70°	109.1	118.1	129.1	146.0	168.6	185.5	185.0	184.5	185.0	185.5	168.6
72.5°	94.9	102.1	111.1	125.6	145.4	160.4	161.1	161.8	161.1	160.4	145.4
75°	74.4	79.2	85.3	96.3	112.4	124.9	126.4	127.9	126.4	124.9	112.4
77.5°	57.5	59.0	61.0	68.7	81.9	92.3	93.9	95.5	93.9	92.3	81.9
80°	47.5	47.5	47.5	52.6	62.6	70.7	72.7	74.7	72.7	70.7	62.6
82.5°	36.6	36.7	36.7	39.5	45.1	50.0	52.9	55.7	52.9	50.0	45.1
85°	14.3	17.0	20.0	21.5	21.5	22.1	24.6	27.2	24.6	22.1	21.5
87.5°	9.1	8.8	8.8	9.5	10.6	10.9	9.4	8.2	9.4	10.6	11.2
90°	31.8	30.3	30.3	28.8	24.2	18.2	10.6	4.5	10.6	16.7	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.7	28.8	40.9	58.7
95°	34.8	34.8	40.9	51.5	75.7	77.2	51.5	46.9	66.6	93.8	118.1
97.5°	94.1	112.0	137.4	142.3	134.7	100.5	96.3	89.6	122.0	148.9	188.0
100°	174.1	196.8	214.9	178.6	140.8	139.3	130.2	127.1	162.0	187.7	225.5
102.5°	272.2	279.1	216.1	195.6	186.8	180.4	166.5	164.7	199.5	234.9	266.7
105°	295.2	264.9	266.4	266.4	260.3	248.2	222.5	221.0	260.3	301.2	340.6
107.5°	347.2	351.8	359.6	357.8	350.9	318.5	288.2	281.2	316.7	365.7	409.0
110°	416.3	420.8	423.8	420.8	410.2	369.3	333.0	322.4	354.2	405.7	452.6



TEST NUMBER: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.9	486.2	492.8	483.8	465.9	419.0	377.8	362.4	394.2	446.8	495.0
115°	588.8	588.8	590.3	585.8	549.5	501.0	446.5	423.8	451.1	499.5	552.5
117.5°	692.9	694.8	688.7	676.6	634.5	578.2	517.1	480.7	502.2	553.4	607.9
120°	758.3	761.4	755.3	737.1	696.3	632.7	563.1	520.7	537.3	587.3	641.8
122.5°	826.2	825.5	818.3	797.7	749.6	683.6	615.1	563.1	570.0	616.4	669.6
125°	920.3	918.8	912.7	888.5	838.6	770.4	690.2	626.7	617.6	656.9	711.4
127.5°	1009.9	1006.6	997.2	967.8	916.7	851.0	762.9	690.8	670.5	695.4	745.3
130°	1071.7	1067.1	1050.5	1018.7	968.7	906.7	817.4	735.6	706.9	722.0	765.9
132.5°	1131.0	1118.0	1103.8	1069.5	1023.2	958.7	868.2	782.9	743.2	749.9	784.1
135°	1206.4	1194.3	1176.1	1142.8	1098.9	1035.3	944.5	852.2	797.7	791.6	811.3
137.5°	1272.7	1260.0	1239.4	1210.6	1166.4	1109.8	1022.6	925.1	856.4	836.1	843.7
140°	1313.8	1298.7	1280.5	1251.8	1212.4	1153.4	1068.6	974.8	897.6	868.8	864.3
142.5°	1347.8	1336.3	1316.9	1290.5	1256.0	1197.0	1114.7	1022.0	940.0	902.7	892.1
145°	1398.6	1389.5	1368.3	1344.1	1315.4	1256.3	1180.6	1088.3	1006.6	958.1	935.4
147.5°	1441.6	1434.3	1417.7	1389.2	1365.0	1308.4	1239.4	1157.6	1073.8	1013.8	984.5
150°	1468.2	1462.2	1445.5	1418.3	1394.1	1341.1	1274.5	1198.8	1118.6	1055.0	1017.2
152.5°	1493.7	1487.6	1468.5	1441.3	1420.7	1371.4	1310.8	1238.8	1157.3	1093.8	1054.7
155°	1527.3	1519.7	1501.5	1475.8	1457.6	1412.2	1356.2	1292.7	1223.0	1156.4	1112.5
157.5°	1553.9	1544.5	1527.6	1505.5	1486.1	1444.3	1395.6	1340.8	1279.9	1216.4	1171.6
160°	1569.7	1559.1	1540.9	1521.2	1503.1	1463.7	1419.8	1369.9	1313.8	1256.3	1207.9
162.5°	1580.6	1571.2	1549.4	1532.1	1516.4	1480.7	1439.2	1394.1	1344.1	1293.9	1249.1
165°	1592.4	1581.8	1559.1	1545.4	1531.8	1501.5	1465.2	1428.9	1386.5	1345.6	1309.3
167.5°	1593.3	1584.5	1561.8	1548.5	1538.5	1512.4	1483.1	1455.2	1422.2	1390.1	1359.9
170°	1590.8	1583.3	1560.6	1548.5	1540.9	1519.7	1494.0	1469.8	1444.0	1416.8	1392.6
172.5°	1582.4	1574.8	1553.3	1543.6	1539.7	1520.9	1500.0	1481.9	1459.8	1439.8	1420.4
175°	1560.6	1554.5	1536.4	1530.3	1531.8	1519.7	1504.6	1494.0	1480.4	1468.2	1457.6
177.5°	1528.8	1525.2	1511.8	1511.8	1516.7	1509.4	1504.6	1499.7	1493.7	1490.0	1486.4
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1109.4	1106.8	1107.2	1107.8	1109.0	1110.2	1109.0	1107.8	1107.2	1106.8	1109.4
5°	1114.1	1111.8	1112.8	1114.8	1119.9	1124.9	1119.9	1114.8	1112.8	1111.8	1114.1
7.5°	1126.7	1126.8	1129.7	1133.6	1140.2	1146.8	1140.2	1133.6	1129.7	1126.8	1126.7
10°	1132.7	1131.9	1132.4	1134.6	1141.6	1148.6	1141.6	1134.6	1132.4	1131.9	1132.7
12.5°	1122.1	1117.7	1117.0	1117.5	1121.3	1125.1	1121.3	1117.5	1117.0	1117.7	1122.1
15°	1096.3	1088.3	1089.8	1091.6	1094.1	1096.6	1094.1	1091.6	1089.8	1088.3	1096.3
17.5°	1071.5	1065.8	1071.2	1076.5	1081.5	1086.4	1081.5	1076.5	1071.2	1065.8	1071.5
20°	1058.1	1054.8	1061.9	1069.3	1077.9	1086.4	1077.9	1069.3	1061.9	1054.8	1058.1
22.5°	1046.0	1045.4	1055.2	1065.6	1077.4	1089.1	1077.4	1065.6	1055.2	1045.4	1046.0
25°	1026.9	1032.5	1049.1	1064.8	1077.9	1090.9	1077.9	1064.8	1049.1	1032.5	1026.9
27.5°	1005.6	1019.8	1042.2	1061.3	1070.5	1079.6	1070.5	1061.3	1042.2	1019.8	1005.6
30°	992.9	1010.2	1029.8	1045.4	1048.9	1052.5	1048.9	1045.4	1029.8	1010.2	992.9
32.5°	978.0	994.7	1005.1	1011.7	1007.2	1002.7	1007.2	1011.7	1005.1	994.7	978.0
35°	951.4	962.4	954.4	946.0	936.4	926.8	936.4	946.0	954.4	962.4	951.4
37.5°	903.1	902.8	879.3	858.9	848.0	837.0	848.0	858.9	879.3	902.8	903.1
40°	863.7	852.7	817.4	787.9	775.3	762.7	775.3	787.9	817.4	852.7	863.7
42.5°	812.7	789.0	744.1	706.6	691.2	675.8	691.2	706.6	744.1	789.0	812.7
45°	719.4	680.6	631.9	591.0	573.9	556.8	573.9	591.0	631.9	680.6	719.4
47.5°	615.2	570.1	526.5	489.9	473.9	457.9	473.9	489.9	526.5	570.1	615.2
50°	548.9	503.6	462.9	427.9	410.3	392.7	410.3	427.9	462.9	503.6	548.9
52.5°	489.7	445.7	404.9	370.4	354.4	338.4	354.4	370.4	404.9	445.7	489.7
55°	405.6	365.4	326.7	294.9	283.8	272.7	283.8	294.9	326.7	365.4	405.6
57.5°	333.7	297.9	265.0	238.3	230.2	222.0	230.2	238.3	265.0	297.9	333.7
60°	287.6	255.4	229.7	208.9	202.3	195.8	202.3	208.9	229.7	255.4	287.6
62.5°	249.6	220.9	200.5	183.9	179.0	174.1	179.0	183.9	200.5	220.9	249.6
65°	203.7	180.1	164.5	151.9	148.4	144.9	148.4	151.9	164.5	180.1	203.7
67.5°	167.5	148.5	136.2	126.1	122.8	119.5	122.8	126.1	136.2	148.5	167.5
70°	146.0	129.1	118.1	109.1	106.6	104.1	106.6	109.1	118.1	129.1	146.0
72.5°	125.6	111.1	102.1	94.9	93.1	91.4	93.1	94.9	102.1	111.1	125.6
75°	96.3	85.3	79.2	74.4	73.4	72.4	73.4	74.4	79.2	85.3	96.3
77.5°	68.7	61.0	59.0	57.5	57.5	57.5	57.5	57.5	59.0	61.0	68.7
80°	52.6	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	52.6
82.5°	39.5	36.7	36.7	36.6	36.2	35.8	36.2	36.6	36.7	36.7	39.5
85°	21.5	20.0	17.0	14.3	12.8	11.3	12.8	14.3	17.0	20.0	21.5
87.5°	10.7	11.8	13.9	15.1	16.3	15.7	16.3	15.1	13.9	11.8	10.7
90°	34.8	45.4	56.0	62.1	68.1	65.1	68.1	62.1	56.0	45.4	34.8
92.5°	69.9	87.8	100.8	111.7	116.6	115.9	116.6	111.7	100.8	87.8	69.9
95°	140.8	162.0	183.2	198.3	207.4	204.3	207.4	198.3	183.2	162.0	140.8
97.5°	217.1	245.5	269.1	283.4	292.4	298.5	292.4	283.4	269.1	245.5	217.1
100°	267.9	295.2	322.4	339.1	354.2	360.2	354.2	339.1	322.4	295.2	267.9
102.5°	309.1	344.8	374.5	392.3	405.1	411.1	405.1	392.3	374.5	344.8	309.1
105°	376.9	414.7	446.5	469.2	482.9	487.4	482.9	469.2	446.5	414.7	376.9
107.5°	444.7	483.8	513.1	538.3	554.9	564.6	554.9	538.3	513.1	483.8	444.7
110°	498.0	529.8	561.6	584.3	600.9	607.0	600.9	584.3	561.6	529.8	498.0



TEST NUMBER: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.8	578.2	610.0	632.7	651.8	660.3	651.8	632.7	610.0	578.2	542.8
115°	605.5	652.4	681.1	702.3	716.0	723.5	716.0	702.3	681.1	652.4	605.5
117.5°	657.5	706.6	738.1	754.4	760.8	766.2	760.8	754.4	738.1	706.6	657.5
120°	690.2	735.6	772.0	793.2	800.7	803.7	800.7	793.2	772.0	735.6	690.2
122.5°	720.5	763.5	798.6	824.6	837.0	840.1	837.0	824.6	798.6	763.5	720.5
125°	762.9	803.7	840.1	865.8	879.4	887.0	879.4	865.8	840.1	803.7	762.9
127.5°	799.8	844.0	877.3	900.6	913.9	920.0	913.9	900.6	877.3	844.0	799.8
130°	820.4	865.8	899.1	924.8	937.0	943.0	937.0	924.8	899.1	865.8	820.4
132.5°	836.1	884.0	918.5	941.8	955.1	961.2	955.1	941.8	918.5	884.0	836.1
135°	855.2	905.2	941.5	964.2	976.3	982.4	976.3	964.2	941.5	905.2	855.2
137.5°	871.9	917.3	955.1	979.0	989.9	993.9	989.9	979.0	955.1	917.3	871.9
140°	884.0	923.3	961.2	983.9	996.0	997.5	996.0	983.9	961.2	923.3	884.0
142.5°	899.7	930.6	963.6	986.3	998.4	1001.1	998.4	986.3	963.6	930.6	899.7
145°	927.9	946.0	968.7	989.9	1000.5	1003.6	1000.5	989.9	968.7	946.0	927.9
147.5°	963.3	969.0	980.8	994.8	1005.1	1007.2	1005.1	994.8	980.8	969.0	963.3
150°	989.9	988.4	993.0	1002.0	1011.1	1009.6	1011.1	1002.0	993.0	988.4	989.9
152.5°	1020.2	1011.4	1011.1	1015.4	1019.6	1019.3	1019.6	1015.4	1011.1	1011.4	1020.2
155°	1071.7	1055.0	1045.9	1042.9	1042.9	1041.4	1042.9	1042.9	1045.9	1055.0	1071.7
157.5°	1128.3	1105.0	1091.3	1084.1	1082.0	1078.6	1082.0	1084.1	1091.3	1105.0	1128.3
160°	1167.0	1141.3	1127.7	1115.6	1111.0	1106.5	1111.0	1115.6	1127.7	1141.3	1167.0
162.5°	1203.4	1178.8	1164.0	1153.1	1148.6	1141.6	1148.6	1153.1	1164.0	1178.8	1203.4
165°	1262.4	1236.7	1220.0	1210.9	1204.9	1198.8	1204.9	1210.9	1220.0	1236.7	1262.4
167.5°	1321.4	1293.3	1282.4	1272.1	1266.3	1255.4	1266.3	1272.1	1282.4	1293.3	1321.4
170°	1357.7	1332.0	1326.0	1316.9	1306.3	1294.2	1306.3	1316.9	1326.0	1332.0	1357.7
172.5°	1389.2	1372.0	1365.9	1356.8	1353.5	1343.8	1353.5	1356.8	1365.9	1372.0	1389.2
175°	1434.9	1421.3	1421.3	1419.8	1415.3	1406.2	1415.3	1419.8	1421.3	1421.3	1434.9
177.5°	1473.1	1465.8	1470.7	1470.7	1469.5	1461.0	1469.5	1470.7	1470.7	1465.8	1473.1
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1110.2	1110.2	1110.2	1110.2
2.5°	1115.0	1117.7	1111.7	1105.6
5°	1119.6	1121.6	1113.1	1104.5
7.5°	1129.6	1128.6	1116.5	1104.3
10°	1134.7	1132.6	1118.0	1103.4
12.5°	1130.2	1132.0	1114.9	1097.9
15°	1113.9	1122.1	1102.0	1081.9
17.5°	1088.3	1095.6	1074.6	1053.6
20°	1071.7	1076.7	1056.1	1035.5
22.5°	1057.2	1060.4	1039.8	1019.2
25°	1032.5	1032.1	1014.0	995.9
27.5°	999.8	992.8	982.1	971.4
30°	977.8	964.7	957.6	950.6
32.5°	954.8	936.4	932.2	928.0
35°	921.2	897.7	894.1	890.6
37.5°	879.9	860.8	853.5	846.3
40°	850.6	837.8	825.7	813.7
42.5°	815.3	812.5	793.2	773.8
45°	748.0	763.0	736.8	710.7
47.5°	661.7	689.9	663.1	636.2
50°	598.7	630.6	609.0	587.3
52.5°	537.1	568.7	553.1	537.5
55°	447.4	476.7	468.6	460.6
57.5°	372.5	400.2	395.1	390.0
60°	326.3	354.5	350.9	347.4
62.5°	286.8	313.9	311.2	308.5
65°	235.4	258.5	256.0	253.5
67.5°	193.4	212.4	211.1	209.8
70°	168.6	185.5	185.0	184.5
72.5°	145.4	160.4	161.1	161.8
75°	112.4	124.9	126.4	127.9
77.5°	81.9	92.3	93.9	95.5
80°	62.6	70.7	72.7	74.7
82.5°	45.1	50.0	52.9	55.7
85°	21.5	22.1	24.6	27.2
87.5°	11.2	10.6	9.4	8.2
90°	27.2	16.7	10.6	4.5
92.5°	58.7	40.9	28.8	16.7
95°	118.1	93.8	66.6	46.9
97.5°	188.0	148.9	122.0	89.6
100°	225.5	187.7	162.0	127.1
102.5°	266.7	234.9	199.5	164.7
105°	340.6	301.2	260.3	221.0
107.5°	409.0	365.7	316.7	281.2
110°	452.6	405.7	354.2	322.4

TEST NUMBER: P1428252

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	495.0	446.8	394.2	362.4
115°	552.5	499.5	451.1	423.8
117.5°	607.9	553.4	502.2	480.7
120°	641.8	587.3	537.3	520.7
122.5°	669.6	616.4	570.0	563.1
125°	711.4	656.9	617.6	626.7
127.5°	745.3	695.4	670.5	690.8
130°	765.9	722.0	706.9	735.6
132.5°	784.1	749.9	743.2	782.9
135°	811.3	791.6	797.7	852.2
137.5°	843.7	836.1	856.4	925.1
140°	864.3	868.8	897.6	974.8
142.5°	892.1	902.7	940.0	1022.0
145°	935.4	958.1	1006.6	1088.3
147.5°	984.5	1013.8	1073.8	1157.6
150°	1017.2	1055.0	1118.6	1198.8
152.5°	1054.7	1093.8	1157.3	1238.8
155°	1112.5	1156.4	1223.0	1292.7
157.5°	1171.6	1216.4	1279.9	1340.8
160°	1207.9	1256.3	1313.8	1369.9
162.5°	1249.1	1293.9	1344.1	1394.1
165°	1309.3	1345.6	1386.5	1428.9
167.5°	1359.9	1390.1	1422.2	1455.2
170°	1392.6	1416.8	1444.0	1469.8
172.5°	1420.4	1439.8	1459.8	1481.9
175°	1457.6	1468.2	1480.4	1494.0
177.5°	1486.4	1490.0	1493.7	1499.7
180°	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1428252  
 CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L835-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	15.45	16.19	16.51	17.25	18.68	11.82	12.56	12.88	13.62	15.05
	3H	16.65	17.31	17.72	18.38	19.83	12.97	13.63	14.05	14.70	16.15
	4H	17.13	17.75	18.21	18.82	20.28	13.43	14.05	14.51	15.12	16.58
	6H	17.42	17.99	18.51	19.07	20.54	13.77	14.34	14.86	15.41	16.88
	8H	17.52	18.06	18.62	19.15	20.62	13.90	14.44	15.00	15.53	17.00
	12H	17.56	18.07	18.66	19.15	20.65	13.93	14.44	15.03	15.53	17.02
4H	2H	15.54	16.16	16.63	17.23	18.69	12.52	13.14	13.61	14.21	15.67
	3H	16.99	17.51	18.09	18.60	20.08	13.86	14.38	14.96	15.47	16.95
	4H	17.61	18.09	18.71	19.17	20.67	14.40	14.87	15.50	15.96	17.46
	6H	18.04	18.44	19.15	19.55	21.04	14.83	15.23	15.94	16.34	17.83
	8H	18.20	18.57	19.30	19.68	21.18	15.01	15.39	16.12	16.49	17.99
	12H	18.26	18.60	19.38	19.71	21.22	15.05	15.39	16.18	16.51	18.02
8H	4H	17.63	18.01	18.74	19.11	20.61	14.72	15.10	15.83	16.20	17.70
	6H	18.16	18.47	19.29	19.61	21.12	15.26	15.57	16.39	16.71	18.21
	8H	18.39	18.67	19.53	19.79	21.31	15.52	15.79	16.65	16.92	18.44
	12H	18.51	18.75	19.64	19.87	21.43	15.61	15.85	16.75	16.97	18.53
12H	4H	17.58	17.93	18.71	19.04	20.55	14.73	15.08	15.86	16.19	17.70
	6H	18.15	18.42	19.28	19.55	21.07	15.33	15.60	16.46	16.73	18.25
	8H	18.39	18.63	19.53	19.76	21.31	15.61	15.85	16.75	16.97	18.53