

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: P1428420

Luminaire Tested: SQ2W-PW1-K-100U-050D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428420  
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-L835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

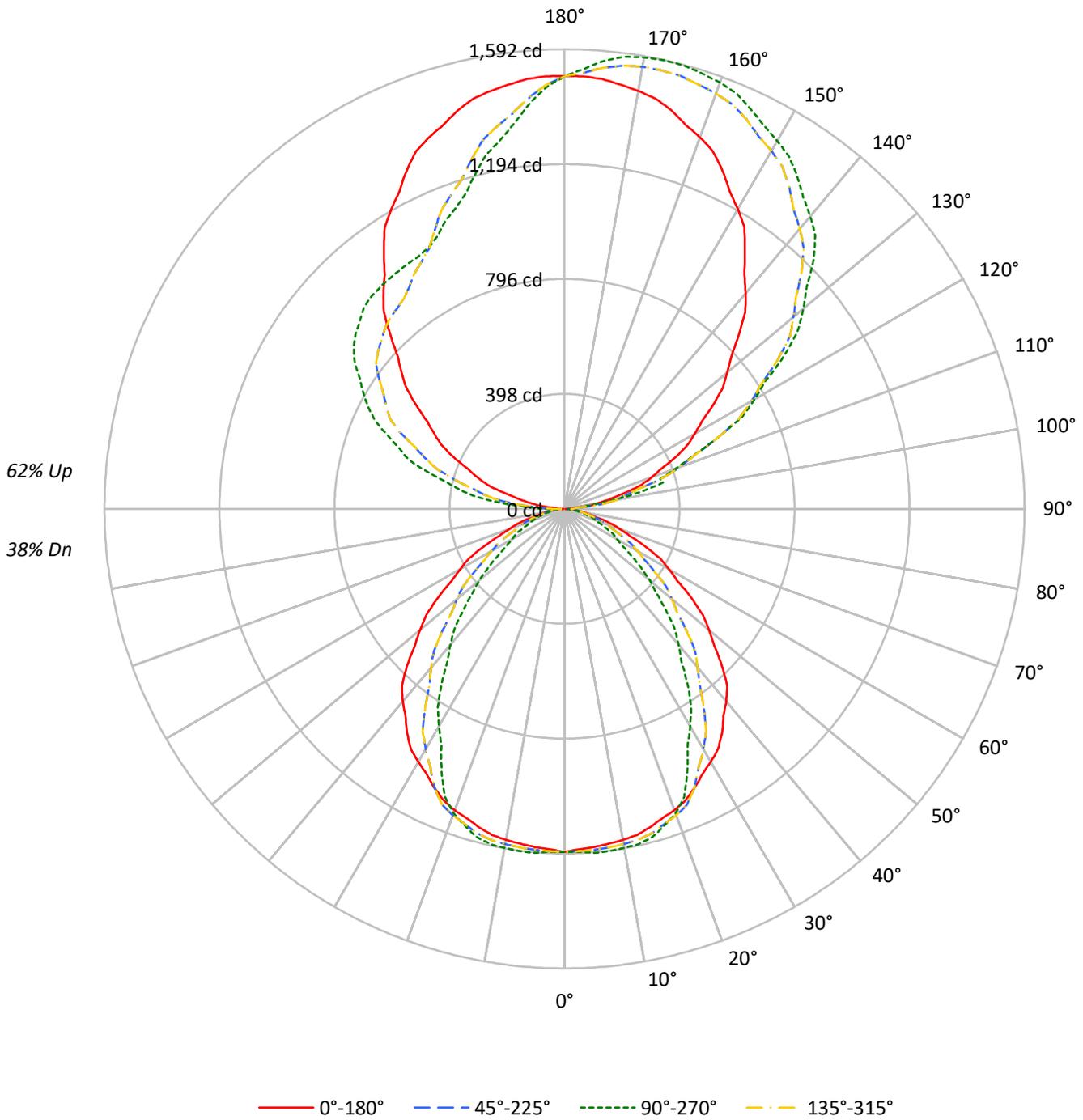
Lumens per Lamp: N/A  
Luminaire Lumens: 7018.3 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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-PW1-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	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°	19186	19186	19186	19186
5°	19056	19387	19056	19387
10°	19092	19556	19092	19556
15°	19087	19672	19087	19672
20°	19094	19288	19094	19288
25°	18990	17923	18990	17923
30°	18861	16203	18861	16203
35°	18715	14633	18715	14633
40°	18343	12928	18343	12928
45°	17623	11291	17623	11291
50°	16402	9665	16402	9665
55°	15003	7837	15003	7837
60°	13449	6762	13449	6762
65°	11759	6009	11759	6009
70°	9616	5448	9616	5448
75°	7486	5009	7486	5009
80°	5579	4416	5579	4416
85°	3779	2519	3779	2519

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	1.6
10°-20°	327.8	4.7
20°-30°	482.5	6.9
30°-40°	527.5	7.5
40°-50°	473.2	6.7
50°-60°	353.0	5.0
60°-70°	223.1	3.2
70°-80°	110.5	1.6
80°-90°	32.1	0.5
90°-100°	119.3	1.7
100°-110°	347.8	5.0
110°-120°	567.6	8.1
120°-130°	720.2	10.3
130°-140°	770.6	11.0
140°-150°	719.6	10.3
150°-160°	592.1	8.4
160°-170°	397.1	5.7
170°-180°	141.0	2.0
0°-30°	923.5	13.2
0°-40°	1451.0	20.7
0°-60°	2277.2	32.4
0°-90°	2642.9	37.7
90°-120°	1034.6	14.7
90°-150°	3245.1	46.2
90°-180°	4375.0	62.3
0°-180°	7018.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1176	1196	1176	1196	1176	112
15°	1142	1177	1142	1177	1142	322
25°	1066	1006	1066	1006	1066	491
35°	950	742	950	742	950	592
45°	772	494	772	494	772	592
55°	533	278	533	278	533	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°	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1180.1	1187.0	1193.8	1192.2	1187.8	1185.7	1186.1	1186.8	1188.0	1189.2	1188.0
5°	1175.8	1184.4	1192.9	1191.7	1187.1	1185.1	1185.6	1187.1	1191.7	1196.2	1191.7
7.5°	1169.9	1178.6	1187.2	1186.8	1183.4	1182.6	1184.3	1186.7	1191.1	1195.5	1191.1
10°	1164.5	1173.5	1182.6	1182.6	1179.6	1179.3	1181.8	1184.7	1188.8	1192.8	1188.8
12.5°	1157.3	1166.7	1176.2	1176.9	1174.7	1175.0	1177.9	1181.1	1185.1	1189.2	1185.1
15°	1141.9	1151.9	1162.0	1164.1	1163.6	1165.1	1168.6	1171.9	1174.4	1176.9	1174.4
17.5°	1124.0	1134.0	1144.1	1146.1	1145.4	1145.5	1146.4	1147.4	1148.6	1149.8	1148.6
20°	1111.3	1121.4	1131.4	1132.8	1131.3	1128.8	1125.3	1122.6	1122.6	1122.6	1122.6
22.5°	1093.2	1104.1	1114.9	1115.0	1111.5	1104.9	1095.4	1087.4	1084.2	1081.0	1084.2
25°	1066.0	1076.6	1087.2	1082.3	1072.2	1057.4	1037.7	1021.1	1013.6	1006.1	1013.6
27.5°	1034.4	1042.9	1051.5	1038.7	1018.7	994.8	967.0	943.5	933.0	922.5	933.0
30°	1011.7	1018.3	1024.8	1004.6	975.4	945.5	914.8	889.2	879.2	869.1	879.2
32.5°	988.2	990.7	993.2	966.5	930.1	896.0	864.1	837.4	826.6	815.7	826.6
35°	949.5	945.0	940.4	905.0	859.2	820.2	788.0	761.5	751.9	742.4	751.9
37.5°	903.8	890.3	876.8	836.8	788.0	746.8	713.1	685.2	674.6	664.1	674.6
40°	870.3	851.1	832.0	789.2	738.4	696.1	662.4	634.5	623.9	613.4	623.9
42.5°	833.1	809.2	785.3	741.2	690.4	648.1	614.4	586.4	575.4	564.5	575.4
45°	771.8	743.6	715.5	669.6	617.8	575.5	542.8	515.7	505.1	494.5	505.1
47.5°	702.8	674.8	646.8	601.1	549.4	507.7	476.0	450.0	440.9	431.8	440.9
50°	653.0	625.8	598.7	554.9	505.6	465.1	433.4	406.9	395.8	384.8	395.8
52.5°	602.3	577.9	553.6	511.4	463.4	423.1	390.6	362.4	347.3	332.3	347.3
55°	533.0	509.9	486.7	447.0	401.7	361.0	324.8	295.5	286.9	278.4	286.9
57.5°	461.7	441.7	421.7	386.0	345.0	308.1	275.2	248.8	241.8	234.7	241.8
60°	416.5	398.9	381.2	347.0	307.3	273.6	246.0	223.4	216.4	209.4	216.4
62.5°	373.0	357.4	341.8	309.0	270.5	240.2	218.2	200.2	194.4	188.5	194.4
65°	307.8	296.2	284.7	257.6	225.5	200.3	182.2	167.4	162.3	157.3	162.3
67.5°	244.4	238.0	231.6	211.3	186.5	166.1	150.2	137.5	134.1	130.8	134.1
70°	203.7	201.7	199.7	183.0	161.3	144.0	130.9	120.5	117.9	115.4	117.9
72.5°	168.4	169.2	170.0	156.1	137.3	122.7	112.5	104.4	102.7	100.9	102.7
75°	120.0	124.0	128.0	118.8	105.2	94.9	87.9	82.4	81.4	80.3	81.4
77.5°	81.7	87.7	93.8	87.8	77.9	70.3	65.0	60.9	60.1	59.3	60.1
80°	60.0	66.0	72.1	67.9	60.4	54.6	50.5	47.5	47.5	47.5	47.5
82.5°	41.9	46.7	51.5	48.6	43.1	39.3	37.3	35.8	35.8	35.8	35.8
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	18.2	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1186.8	1186.1	1185.7	1187.8	1192.2	1193.8	1187.0	1180.1	1187.0	1193.8	1192.2
5°	1187.1	1185.6	1185.1	1187.1	1191.7	1192.9	1184.4	1175.8	1184.4	1192.9	1191.7
7.5°	1186.7	1184.3	1182.6	1183.4	1186.8	1187.2	1178.6	1169.9	1178.6	1187.2	1186.8
10°	1184.7	1181.8	1179.3	1179.6	1182.6	1182.6	1173.5	1164.5	1173.5	1182.6	1182.6
12.5°	1181.1	1177.9	1175.0	1174.7	1176.9	1176.2	1166.7	1157.3	1166.7	1176.2	1176.9
15°	1171.9	1168.6	1165.1	1163.6	1164.1	1162.0	1151.9	1141.9	1151.9	1162.0	1164.1
17.5°	1147.4	1146.4	1145.5	1145.4	1146.1	1144.1	1134.0	1124.0	1134.0	1144.1	1146.1
20°	1122.6	1125.3	1128.8	1131.3	1132.8	1131.4	1121.4	1111.3	1121.4	1131.4	1132.8
22.5°	1087.4	1095.4	1104.9	1111.5	1115.0	1114.9	1104.1	1093.2	1104.1	1114.9	1115.0
25°	1021.1	1037.7	1057.4	1072.2	1082.3	1087.2	1076.6	1066.0	1076.6	1087.2	1082.3
27.5°	943.5	967.0	994.8	1018.7	1038.7	1051.5	1042.9	1034.4	1042.9	1051.5	1038.7
30°	889.2	914.8	945.5	975.4	1004.6	1024.8	1018.3	1011.7	1018.3	1024.8	1004.6
32.5°	837.4	864.1	896.0	930.1	966.5	993.2	990.7	988.2	990.7	993.2	966.5
35°	761.5	788.0	820.2	859.2	905.0	940.4	945.0	949.5	945.0	940.4	905.0
37.5°	685.2	713.1	746.8	788.0	836.8	876.8	890.3	903.8	890.3	876.8	836.8
40°	634.5	662.4	696.1	738.4	789.2	832.0	851.1	870.3	851.1	832.0	789.2
42.5°	586.4	614.4	648.1	690.4	741.2	785.3	809.2	833.1	809.2	785.3	741.2
45°	515.7	542.8	575.5	617.8	669.6	715.5	743.6	771.8	743.6	715.5	669.6
47.5°	450.0	476.0	507.7	549.4	601.1	646.8	674.8	702.8	674.8	646.8	601.1
50°	406.9	433.4	465.1	505.6	554.9	598.7	625.8	653.0	625.8	598.7	554.9
52.5°	362.4	390.6	423.1	463.4	511.4	553.6	577.9	602.3	577.9	553.6	511.4
55°	295.5	324.8	361.0	401.7	447.0	486.7	509.9	533.0	509.9	486.7	447.0
57.5°	248.8	275.2	308.1	345.0	386.0	421.7	441.7	461.7	441.7	421.7	386.0
60°	223.4	246.0	273.6	307.3	347.0	381.2	398.9	416.5	398.9	381.2	347.0
62.5°	200.2	218.2	240.2	270.5	309.0	341.8	357.4	373.0	357.4	341.8	309.0
65°	167.4	182.2	200.3	225.5	257.6	284.7	296.2	307.8	296.2	284.7	257.6
67.5°	137.5	150.2	166.1	186.5	211.3	231.6	238.0	244.4	238.0	231.6	211.3
70°	120.5	130.9	144.0	161.3	183.0	199.7	201.7	203.7	201.7	199.7	183.0
72.5°	104.4	112.5	122.7	137.3	156.1	170.0	169.2	168.4	169.2	170.0	156.1
75°	82.4	87.9	94.9	105.2	118.8	128.0	124.0	120.0	124.0	128.0	118.8
77.5°	60.9	65.0	70.3	77.9	87.8	93.8	87.7	81.7	87.7	93.8	87.8
80°	47.5	50.5	54.6	60.4	67.9	72.1	66.0	60.0	66.0	72.1	67.9
82.5°	35.8	37.3	39.3	43.1	48.6	51.5	46.7	41.9	46.7	51.5	48.6
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	30.3	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: P1428420

CATALOG NUMBER: SQ2W-PW1-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: P1428420

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1187.8	1185.7	1186.1	1186.8	1188.0	1189.2	1188.0	1186.8	1186.1	1185.7	1187.8
5°	1187.1	1185.1	1185.6	1187.1	1191.7	1196.2	1191.7	1187.1	1185.6	1185.1	1187.1
7.5°	1183.4	1182.6	1184.3	1186.7	1191.1	1195.5	1191.1	1186.7	1184.3	1182.6	1183.4
10°	1179.6	1179.3	1181.8	1184.7	1188.8	1192.8	1188.8	1184.7	1181.8	1179.3	1179.6
12.5°	1174.7	1175.0	1177.9	1181.1	1185.1	1189.2	1185.1	1181.1	1177.9	1175.0	1174.7
15°	1163.6	1165.1	1168.6	1171.9	1174.4	1176.9	1174.4	1171.9	1168.6	1165.1	1163.6
17.5°	1145.4	1145.5	1146.4	1147.4	1148.6	1149.8	1148.6	1147.4	1146.4	1145.5	1145.4
20°	1131.3	1128.8	1125.3	1122.6	1122.6	1122.6	1122.6	1122.6	1125.3	1128.8	1131.3
22.5°	1111.5	1104.9	1095.4	1087.4	1084.2	1081.0	1084.2	1087.4	1095.4	1104.9	1111.5
25°	1072.2	1057.4	1037.7	1021.1	1013.6	1006.1	1013.6	1021.1	1037.7	1057.4	1072.2
27.5°	1018.7	994.8	967.0	943.5	933.0	922.5	933.0	943.5	967.0	994.8	1018.7
30°	975.4	945.5	914.8	889.2	879.2	869.1	879.2	889.2	914.8	945.5	975.4
32.5°	930.1	896.0	864.1	837.4	826.6	815.7	826.6	837.4	864.1	896.0	930.1
35°	859.2	820.2	788.0	761.5	751.9	742.4	751.9	761.5	788.0	820.2	859.2
37.5°	788.0	746.8	713.1	685.2	674.6	664.1	674.6	685.2	713.1	746.8	788.0
40°	738.4	696.1	662.4	634.5	623.9	613.4	623.9	634.5	662.4	696.1	738.4
42.5°	690.4	648.1	614.4	586.4	575.4	564.5	575.4	586.4	614.4	648.1	690.4
45°	617.8	575.5	542.8	515.7	505.1	494.5	505.1	515.7	542.8	575.5	617.8
47.5°	549.4	507.7	476.0	450.0	440.9	431.8	440.9	450.0	476.0	507.7	549.4
50°	505.6	465.1	433.4	406.9	395.8	384.8	395.8	406.9	433.4	465.1	505.6
52.5°	463.4	423.1	390.6	362.4	347.3	332.3	347.3	362.4	390.6	423.1	463.4
55°	401.7	361.0	324.8	295.5	286.9	278.4	286.9	295.5	324.8	361.0	401.7
57.5°	345.0	308.1	275.2	248.8	241.8	234.7	241.8	248.8	275.2	308.1	345.0
60°	307.3	273.6	246.0	223.4	216.4	209.4	216.4	223.4	246.0	273.6	307.3
62.5°	270.5	240.2	218.2	200.2	194.4	188.5	194.4	200.2	218.2	240.2	270.5
65°	225.5	200.3	182.2	167.4	162.3	157.3	162.3	167.4	182.2	200.3	225.5
67.5°	186.5	166.1	150.2	137.5	134.1	130.8	134.1	137.5	150.2	166.1	186.5
70°	161.3	144.0	130.9	120.5	117.9	115.4	117.9	120.5	130.9	144.0	161.3
72.5°	137.3	122.7	112.5	104.4	102.7	100.9	102.7	104.4	112.5	122.7	137.3
75°	105.2	94.9	87.9	82.4	81.4	80.3	81.4	82.4	87.9	94.9	105.2
77.5°	77.9	70.3	65.0	60.9	60.1	59.3	60.1	60.9	65.0	70.3	77.9
80°	60.4	54.6	50.5	47.5	47.5	47.5	47.5	47.5	50.5	54.6	60.4
82.5°	43.1	39.3	37.3	35.8	35.8	35.8	35.8	35.8	37.3	39.3	43.1
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	62.1	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: P1428420

CATALOG NUMBER: SQ2W-PW1-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: P1428420

CATALOG NUMBER: SQ2W-PW1-K-100U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1188.3	1188.3	1188.3	1188.3
2.5°	1192.2	1193.8	1187.0	1180.1
5°	1191.7	1192.9	1184.4	1175.8
7.5°	1186.8	1187.2	1178.6	1169.9
10°	1182.6	1182.6	1173.5	1164.5
12.5°	1176.9	1176.2	1166.7	1157.3
15°	1164.1	1162.0	1151.9	1141.9
17.5°	1146.1	1144.1	1134.0	1124.0
20°	1132.8	1131.4	1121.4	1111.3
22.5°	1115.0	1114.9	1104.1	1093.2
25°	1082.3	1087.2	1076.6	1066.0
27.5°	1038.7	1051.5	1042.9	1034.4
30°	1004.6	1024.8	1018.3	1011.7
32.5°	966.5	993.2	990.7	988.2
35°	905.0	940.4	945.0	949.5
37.5°	836.8	876.8	890.3	903.8
40°	789.2	832.0	851.1	870.3
42.5°	741.2	785.3	809.2	833.1
45°	669.6	715.5	743.6	771.8
47.5°	601.1	646.8	674.8	702.8
50°	554.9	598.7	625.8	653.0
52.5°	511.4	553.6	577.9	602.3
55°	447.0	486.7	509.9	533.0
57.5°	386.0	421.7	441.7	461.7
60°	347.0	381.2	398.9	416.5
62.5°	309.0	341.8	357.4	373.0
65°	257.6	284.7	296.2	307.8
67.5°	211.3	231.6	238.0	244.4
70°	183.0	199.7	201.7	203.7
72.5°	156.1	170.0	169.2	168.4
75°	118.8	128.0	124.0	120.0
77.5°	87.8	93.8	87.7	81.7
80°	67.9	72.1	66.0	60.0
82.5°	48.6	51.5	46.7	41.9
85°	24.5	25.4	22.9	20.4
87.5°	12.1	11.2	8.8	6.3
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: P1428420

CATALOG NUMBER: SQ2W-PW1-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: P1428420  
 CATALOG NUMBER: SQ2W-PW1-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	15.90	16.63	16.96	17.70	19.14	12.15	12.88	13.21	13.94	15.38
	3H	17.19	17.85	18.26	18.92	20.38	13.41	14.06	14.48	15.13	16.59
	4H	17.59	18.22	18.68	19.29	20.75	13.91	14.53	14.99	15.60	17.07
	6H	17.77	18.34	18.86	19.41	20.89	14.21	14.78	15.30	15.86	17.33
	8H	17.81	18.35	18.90	19.44	20.91	14.32	14.86	15.42	15.95	17.43
	12H	17.80	18.32	18.90	19.40	20.90	14.35	14.86	15.45	15.95	17.44
4H	2H	16.02	16.64	17.11	17.71	19.17	12.94	13.56	14.03	14.64	16.10
	3H	17.54	18.06	18.64	19.16	20.64	14.38	14.89	15.47	15.99	17.47
	4H	18.08	18.56	19.19	19.65	21.15	14.95	15.42	16.05	16.51	18.01
	6H	18.39	18.79	19.50	19.91	21.40	15.33	15.73	16.44	16.85	18.34
	8H	18.48	18.86	19.59	19.96	21.47	15.48	15.85	16.59	16.96	18.47
	12H	18.49	18.84	19.62	19.95	21.47	15.51	15.86	16.64	16.97	18.48
8H	4H	18.11	18.49	19.22	19.60	21.10	15.28	15.66	16.39	16.77	18.27
	6H	18.53	18.84	19.66	19.99	21.49	15.77	16.08	16.90	17.23	18.74
	8H	18.70	18.97	19.84	20.10	21.63	15.99	16.26	17.13	17.39	18.92
	12H	18.77	19.01	19.91	20.14	21.70	16.07	16.31	17.21	17.43	18.99
12H	4H	18.07	18.41	19.19	19.53	21.04	15.30	15.64	16.42	16.76	18.27
	6H	18.52	18.80	19.66	19.93	21.45	15.85	16.12	16.98	17.25	18.77
	8H	18.71	18.95	19.85	20.07	21.63	16.09	16.33	17.23	17.45	19.01