

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: P1428256

Luminaire Tested: SQ2W-PR1-K-100U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428256  
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-L940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

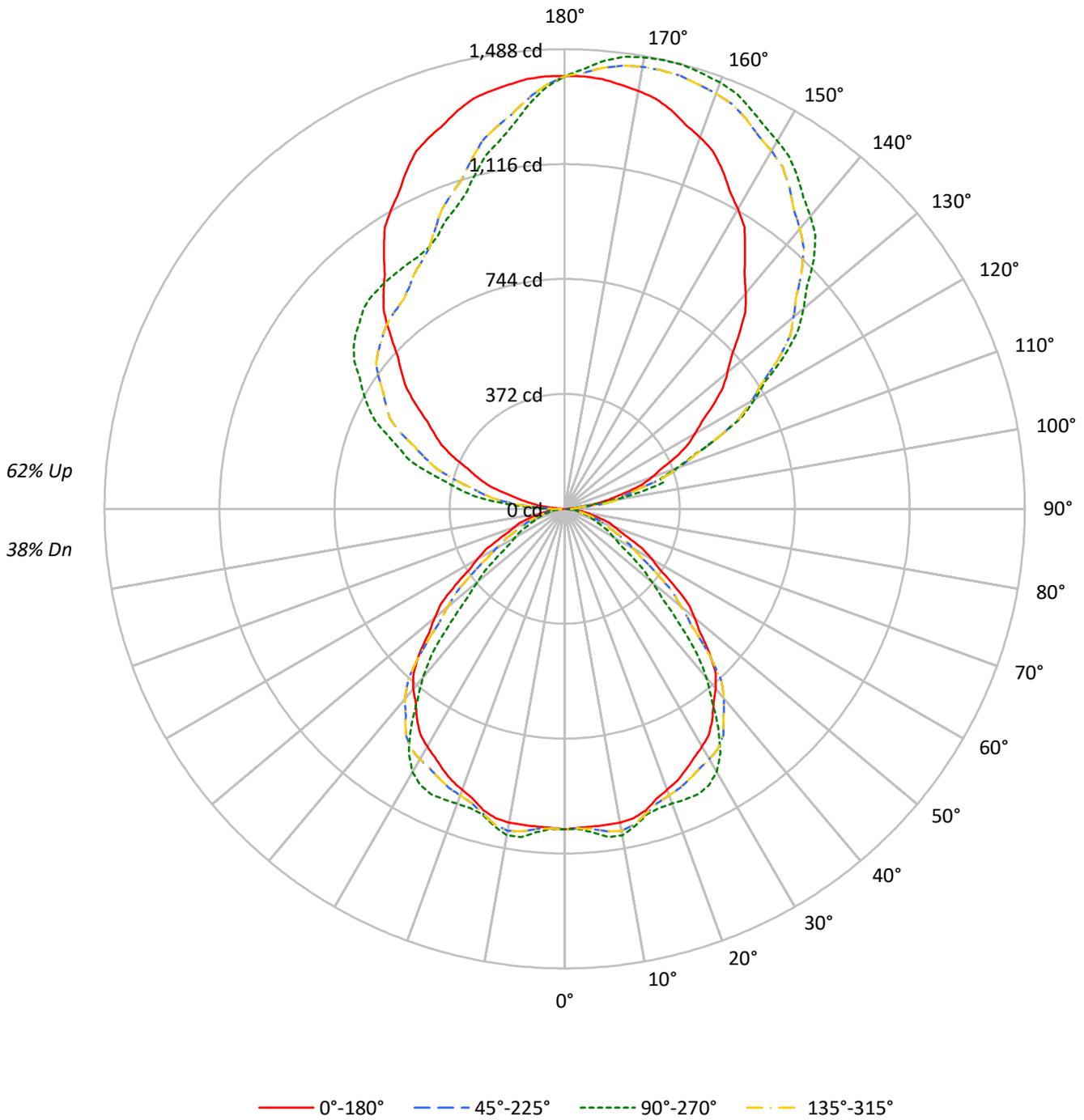
Lumens per Lamp: N/A  
Luminaire Lumens: 6591.9 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.9  
Input Voltage (V): 120  
Input Current (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-PR1-K-100U-050D-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	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°	16754	16754	16754	16754
5°	16732	17040	16732	17040
10°	16908	17601	16908	17601
15°	16902	17133	16902	17133
20°	16630	17448	16630	17448
25°	16582	18166	16582	18166
30°	16565	18339	16565	18339
35°	16409	17075	16409	17075
40°	16029	15025	16029	15025
45°	15168	11882	15168	11882
50°	13790	9218	13790	9218
55°	12118	7175	12118	7175
60°	10485	5909	10485	5909
65°	9050	5173	9050	5173
70°	8138	4593	8138	4593
75°	7455	4223	7455	4223
80°	6490	4128	6490	4128
85°	4705	1964	4705	1964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 16285 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.5
10°-20°	290.1	4.4
20°-30°	448.4	6.8
30°-40°	539.3	8.2
40°-50°	484.3	7.3
50°-60°	324.5	4.9
60°-70°	188.8	2.9
70°-80°	97.0	1.5
80°-90°	29.7	0.5
90°-100°	111.5	1.7
100°-110°	325.1	4.9
110°-120°	530.5	8.0
120°-130°	673.2	10.2
130°-140°	720.3	10.9
140°-150°	672.6	10.2
150°-160°	553.5	8.4
160°-170°	371.2	5.6
170°-180°	131.8	2.0
0°-30°	838.7	12.7
0°-40°	1378.0	20.9
0°-60°	2186.8	33.2
0°-90°	2502.2	38.0
90°-120°	967.1	14.7
90°-150°	3033.2	46.0
90°-180°	4090.0	62.0
0°-180°	6591.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1038	1038	1038	1038	1038	
5°	1032	1051	1032	1051	1032	99
15°	1011	1025	1011	1025	1011	284
25°	931	1020	931	1020	931	429
35°	832	866	832	866	832	519
45°	664	520	664	520	664	508
55°	430	255	430	255	430	387
65°	237	135	237	135	237	240
75°	120	68	120	68	120	127
85°	25	11	25	11	25	32
90°	4	31	4	61	4	4
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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1033.4	1039.1	1044.7	1042.2	1036.9	1034.5	1034.9	1035.4	1036.5	1037.7	1036.5
5°	1032.4	1040.4	1048.4	1046.5	1041.3	1039.2	1040.1	1042.0	1046.7	1051.4	1046.7
7.5°	1032.2	1043.6	1054.9	1055.8	1053.2	1053.2	1055.9	1059.5	1065.7	1071.9	1065.7
10°	1031.3	1045.0	1058.6	1060.6	1058.7	1058.0	1058.5	1060.5	1067.1	1073.6	1067.1
12.5°	1026.3	1042.1	1058.0	1056.4	1048.8	1044.8	1044.1	1044.5	1048.1	1051.6	1048.1
15°	1011.2	1030.0	1048.8	1041.2	1024.7	1017.2	1018.6	1020.3	1022.6	1025.0	1022.6
17.5°	984.8	1004.4	1024.1	1017.2	1001.5	996.2	1001.3	1006.3	1010.9	1015.5	1010.9
20°	967.9	987.1	1006.4	1001.7	989.0	986.0	992.5	999.5	1007.5	1015.5	1007.5
22.5°	952.6	971.9	991.2	988.2	977.7	977.1	986.3	996.0	1007.0	1018.0	1007.0
25°	930.8	947.8	964.7	965.0	959.9	965.0	980.6	995.2	1007.5	1019.7	1007.5
27.5°	908.0	918.0	927.9	934.5	940.0	953.2	974.1	992.0	1000.6	1009.1	1000.6
30°	888.5	895.1	901.7	913.9	928.0	944.2	962.6	977.1	980.4	983.7	980.4
32.5°	867.4	871.3	875.3	892.5	914.1	929.8	939.4	945.7	941.4	937.2	941.4
35°	832.5	835.8	839.1	861.0	889.2	899.6	892.1	884.2	875.3	866.3	875.3
37.5°	791.0	797.8	804.5	822.5	844.1	843.9	821.9	802.8	792.6	782.3	792.6
40°	760.5	771.8	783.1	795.1	807.3	797.0	764.1	736.4	724.7	712.9	724.7
42.5°	723.3	741.4	759.4	762.1	759.6	737.5	695.5	660.5	646.1	631.7	646.1
45°	664.3	688.7	713.2	699.2	672.4	636.2	590.6	552.4	536.4	520.4	536.4
47.5°	594.7	619.8	644.9	618.5	575.0	532.9	492.1	457.9	442.9	428.0	442.9
50°	549.0	569.2	589.4	559.6	513.0	470.7	432.6	400.0	383.5	367.0	383.5
52.5°	502.4	517.0	531.6	502.0	457.7	416.6	378.5	346.2	331.2	316.3	331.2
55°	430.5	438.0	445.6	418.2	379.2	341.5	305.3	275.6	265.3	254.9	265.3
57.5°	364.5	369.3	374.1	348.1	311.9	278.5	247.7	222.8	215.2	207.5	215.2
60°	324.7	328.0	331.3	305.0	268.8	238.7	214.7	195.2	189.1	183.0	189.1
62.5°	288.3	290.9	293.4	268.0	233.3	206.5	187.4	171.9	167.3	162.7	167.3
65°	236.9	239.3	241.6	220.0	190.4	168.3	153.7	142.0	138.7	135.4	138.7
67.5°	196.1	197.3	198.6	180.7	156.6	138.8	127.3	117.9	114.8	111.7	114.8
70°	172.4	172.9	173.4	157.6	136.5	120.7	110.4	102.0	99.7	97.3	99.7
72.5°	151.3	150.6	149.9	135.9	117.4	103.9	95.4	88.7	87.1	85.5	87.1
75°	119.5	118.1	116.7	105.1	90.0	79.7	74.0	69.6	68.6	67.7	68.6
77.5°	89.3	87.8	86.3	76.6	64.2	57.0	55.1	53.7	53.7	53.7	53.7
80°	69.8	67.9	66.1	58.5	49.1	44.4	44.4	44.4	44.4	44.4	44.4
82.5°	52.0	49.4	46.8	42.2	36.9	34.3	34.3	34.2	33.8	33.4	33.8
85°	25.4	23.0	20.7	20.1	20.1	18.7	15.9	13.4	12.0	10.6	12.0
87.5°	7.6	8.8	10.2	9.9	8.9	8.2	8.2	8.5	8.8	8.8	8.8
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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1035.4	1034.9	1034.5	1036.9	1042.2	1044.7	1039.1	1033.4	1039.1	1044.7	1042.2
5°	1042.0	1040.1	1039.2	1041.3	1046.5	1048.4	1040.4	1032.4	1040.4	1048.4	1046.5
7.5°	1059.5	1055.9	1053.2	1053.2	1055.8	1054.9	1043.6	1032.2	1043.6	1054.9	1055.8
10°	1060.5	1058.5	1058.0	1058.7	1060.6	1058.6	1045.0	1031.3	1045.0	1058.6	1060.6
12.5°	1044.5	1044.1	1044.8	1048.8	1056.4	1058.0	1042.1	1026.3	1042.1	1058.0	1056.4
15°	1020.3	1018.6	1017.2	1024.7	1041.2	1048.8	1030.0	1011.2	1030.0	1048.8	1041.2
17.5°	1006.3	1001.3	996.2	1001.5	1017.2	1024.1	1004.4	984.8	1004.4	1024.1	1017.2
20°	999.5	992.5	986.0	989.0	1001.7	1006.4	987.1	967.9	987.1	1006.4	1001.7
22.5°	996.0	986.3	977.1	977.7	988.2	991.2	971.9	952.6	971.9	991.2	988.2
25°	995.2	980.6	965.0	959.9	965.0	964.7	947.8	930.8	947.8	964.7	965.0
27.5°	992.0	974.1	953.2	940.0	934.5	927.9	918.0	908.0	918.0	927.9	934.5
30°	977.1	962.6	944.2	928.0	913.9	901.7	895.1	888.5	895.1	901.7	913.9
32.5°	945.7	939.4	929.8	914.1	892.5	875.3	871.3	867.4	871.3	875.3	892.5
35°	884.2	892.1	899.6	889.2	861.0	839.1	835.8	832.5	835.8	839.1	861.0
37.5°	802.8	821.9	843.9	844.1	822.5	804.5	797.8	791.0	797.8	804.5	822.5
40°	736.4	764.1	797.0	807.3	795.1	783.1	771.8	760.5	771.8	783.1	795.1
42.5°	660.5	695.5	737.5	759.6	762.1	759.4	741.4	723.3	741.4	759.4	762.1
45°	552.4	590.6	636.2	672.4	699.2	713.2	688.7	664.3	688.7	713.2	699.2
47.5°	457.9	492.1	532.9	575.0	618.5	644.9	619.8	594.7	619.8	644.9	618.5
50°	400.0	432.6	470.7	513.0	559.6	589.4	569.2	549.0	569.2	589.4	559.6
52.5°	346.2	378.5	416.6	457.7	502.0	531.6	517.0	502.4	517.0	531.6	502.0
55°	275.6	305.3	341.5	379.2	418.2	445.6	438.0	430.5	438.0	445.6	418.2
57.5°	222.8	247.7	278.5	311.9	348.1	374.1	369.3	364.5	369.3	374.1	348.1
60°	195.2	214.7	238.7	268.8	305.0	331.3	328.0	324.7	328.0	331.3	305.0
62.5°	171.9	187.4	206.5	233.3	268.0	293.4	290.9	288.3	290.9	293.4	268.0
65°	142.0	153.7	168.3	190.4	220.0	241.6	239.3	236.9	239.3	241.6	220.0
67.5°	117.9	127.3	138.8	156.6	180.7	198.6	197.3	196.1	197.3	198.6	180.7
70°	102.0	110.4	120.7	136.5	157.6	173.4	172.9	172.4	172.9	173.4	157.6
72.5°	88.7	95.4	103.9	117.4	135.9	149.9	150.6	151.3	150.6	149.9	135.9
75°	69.6	74.0	79.7	90.0	105.1	116.7	118.1	119.5	118.1	116.7	105.1
77.5°	53.7	55.1	57.0	64.2	76.6	86.3	87.8	89.3	87.8	86.3	76.6
80°	44.4	44.4	44.4	49.1	58.5	66.1	67.9	69.8	67.9	66.1	58.5
82.5°	34.2	34.3	34.3	36.9	42.2	46.8	49.4	52.0	49.4	46.8	42.2
85°	13.4	15.9	18.7	20.1	20.1	20.7	23.0	25.4	23.0	20.7	20.1
87.5°	8.5	8.2	8.2	8.9	9.9	10.2	8.8	7.6	8.8	9.9	10.5
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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1036.9	1034.5	1034.9	1035.4	1036.5	1037.7	1036.5	1035.4	1034.9	1034.5	1036.9
5°	1041.3	1039.2	1040.1	1042.0	1046.7	1051.4	1046.7	1042.0	1040.1	1039.2	1041.3
7.5°	1053.2	1053.2	1055.9	1059.5	1065.7	1071.9	1065.7	1059.5	1055.9	1053.2	1053.2
10°	1058.7	1058.0	1058.5	1060.5	1067.1	1073.6	1067.1	1060.5	1058.5	1058.0	1058.7
12.5°	1048.8	1044.8	1044.1	1044.5	1048.1	1051.6	1048.1	1044.5	1044.1	1044.8	1048.8
15°	1024.7	1017.2	1018.6	1020.3	1022.6	1025.0	1022.6	1020.3	1018.6	1017.2	1024.7
17.5°	1001.5	996.2	1001.3	1006.3	1010.9	1015.5	1010.9	1006.3	1001.3	996.2	1001.5
20°	989.0	986.0	992.5	999.5	1007.5	1015.5	1007.5	999.5	992.5	986.0	989.0
22.5°	977.7	977.1	986.3	996.0	1007.0	1018.0	1007.0	996.0	986.3	977.1	977.7
25°	959.9	965.0	980.6	995.2	1007.5	1019.7	1007.5	995.2	980.6	965.0	959.9
27.5°	940.0	953.2	974.1	992.0	1000.6	1009.1	1000.6	992.0	974.1	953.2	940.0
30°	928.0	944.2	962.6	977.1	980.4	983.7	980.4	977.1	962.6	944.2	928.0
32.5°	914.1	929.8	939.4	945.7	941.4	937.2	941.4	945.7	939.4	929.8	914.1
35°	889.2	899.6	892.1	884.2	875.3	866.3	875.3	884.2	892.1	899.6	889.2
37.5°	844.1	843.9	821.9	802.8	792.6	782.3	792.6	802.8	821.9	843.9	844.1
40°	807.3	797.0	764.1	736.4	724.7	712.9	724.7	736.4	764.1	797.0	807.3
42.5°	759.6	737.5	695.5	660.5	646.1	631.7	646.1	660.5	695.5	737.5	759.6
45°	672.4	636.2	590.6	552.4	536.4	520.4	536.4	552.4	590.6	636.2	672.4
47.5°	575.0	532.9	492.1	457.9	442.9	428.0	442.9	457.9	492.1	532.9	575.0
50°	513.0	470.7	432.6	400.0	383.5	367.0	383.5	400.0	432.6	470.7	513.0
52.5°	457.7	416.6	378.5	346.2	331.2	316.3	331.2	346.2	378.5	416.6	457.7
55°	379.2	341.5	305.3	275.6	265.3	254.9	265.3	275.6	305.3	341.5	379.2
57.5°	311.9	278.5	247.7	222.8	215.2	207.5	215.2	222.8	247.7	278.5	311.9
60°	268.8	238.7	214.7	195.2	189.1	183.0	189.1	195.2	214.7	238.7	268.8
62.5°	233.3	206.5	187.4	171.9	167.3	162.7	167.3	171.9	187.4	206.5	233.3
65°	190.4	168.3	153.7	142.0	138.7	135.4	138.7	142.0	153.7	168.3	190.4
67.5°	156.6	138.8	127.3	117.9	114.8	111.7	114.8	117.9	127.3	138.8	156.6
70°	136.5	120.7	110.4	102.0	99.7	97.3	99.7	102.0	110.4	120.7	136.5
72.5°	117.4	103.9	95.4	88.7	87.1	85.5	87.1	88.7	95.4	103.9	117.4
75°	90.0	79.7	74.0	69.6	68.6	67.7	68.6	69.6	74.0	79.7	90.0
77.5°	64.2	57.0	55.1	53.7	53.7	53.7	53.7	53.7	55.1	57.0	64.2
80°	49.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	49.1
82.5°	36.9	34.3	34.3	34.2	33.8	33.4	33.8	34.2	34.3	34.3	36.9
85°	20.1	18.7	15.9	13.4	12.0	10.6	12.0	13.4	15.9	18.7	20.1
87.5°	10.0	11.0	13.0	14.1	15.3	14.7	15.3	14.1	13.0	11.0	10.0
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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1037.7	1037.7	1037.7	1037.7
2.5°	1042.2	1044.7	1039.1	1033.4
5°	1046.5	1048.4	1040.4	1032.4
7.5°	1055.8	1054.9	1043.6	1032.2
10°	1060.6	1058.6	1045.0	1031.3
12.5°	1056.4	1058.0	1042.1	1026.3
15°	1041.2	1048.8	1030.0	1011.2
17.5°	1017.2	1024.1	1004.4	984.8
20°	1001.7	1006.4	987.1	967.9
22.5°	988.2	991.2	971.9	952.6
25°	965.0	964.7	947.8	930.8
27.5°	934.5	927.9	918.0	908.0
30°	913.9	901.7	895.1	888.5
32.5°	892.5	875.3	871.3	867.4
35°	861.0	839.1	835.8	832.5
37.5°	822.5	804.5	797.8	791.0
40°	795.1	783.1	771.8	760.5
42.5°	762.1	759.4	741.4	723.3
45°	699.2	713.2	688.7	664.3
47.5°	618.5	644.9	619.8	594.7
50°	559.6	589.4	569.2	549.0
52.5°	502.0	531.6	517.0	502.4
55°	418.2	445.6	438.0	430.5
57.5°	348.1	374.1	369.3	364.5
60°	305.0	331.3	328.0	324.7
62.5°	268.0	293.4	290.9	288.3
65°	220.0	241.6	239.3	236.9
67.5°	180.7	198.6	197.3	196.1
70°	157.6	173.4	172.9	172.4
72.5°	135.9	149.9	150.6	151.3
75°	105.1	116.7	118.1	119.5
77.5°	76.6	86.3	87.8	89.3
80°	58.5	66.1	67.9	69.8
82.5°	42.2	46.8	49.4	52.0
85°	20.1	20.7	23.0	25.4
87.5°	10.5	9.9	8.8	7.6
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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-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: P1428256

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-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	15.22	15.95	16.28	17.01	18.45	11.59	12.32	12.65	13.38	14.82
	3H	16.42	17.07	17.49	18.14	19.60	12.74	13.40	13.81	14.47	15.92
	4H	16.90	17.52	17.98	18.59	20.05	13.20	13.82	14.28	14.89	16.35
	6H	17.19	17.76	18.28	18.83	20.30	13.53	14.10	14.62	15.18	16.65
	8H	17.29	17.83	18.38	18.92	20.39	13.67	14.21	14.76	15.30	16.77
	12H	17.32	17.84	18.42	18.92	20.41	13.69	14.21	14.79	15.29	16.78
4H	2H	15.31	15.93	16.40	17.00	18.46	12.28	12.91	13.37	13.98	15.44
	3H	16.76	17.27	17.85	18.37	19.84	13.63	14.14	14.72	15.24	16.71
	4H	17.38	17.85	18.48	18.94	20.43	14.17	14.64	15.27	15.73	17.22
	6H	17.80	18.21	18.91	19.32	20.81	14.59	15.00	15.70	16.11	17.60
	8H	17.96	18.34	19.07	19.44	20.94	14.78	15.15	15.88	16.26	17.76
	12H	18.02	18.36	19.15	19.48	20.99	14.82	15.16	15.94	16.27	17.78
8H	4H	17.40	17.77	18.50	18.88	20.38	14.49	14.86	15.59	15.97	17.47
	6H	17.92	18.24	19.05	19.38	20.88	15.02	15.33	16.15	16.48	17.98
	8H	18.16	18.43	19.29	19.56	21.08	15.28	15.56	16.42	16.68	18.20
	12H	18.27	18.51	19.41	19.63	21.19	15.37	15.61	16.51	16.74	18.29
12H	4H	17.35	17.69	18.47	18.81	20.31	14.50	14.84	15.62	15.96	17.47
	6H	17.91	18.19	19.05	19.31	20.83	15.09	15.37	16.23	16.49	18.01
	8H	18.16	18.40	19.30	19.52	21.08	15.38	15.62	16.52	16.74	18.30