

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: P1435822

Luminaire Tested: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435822  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

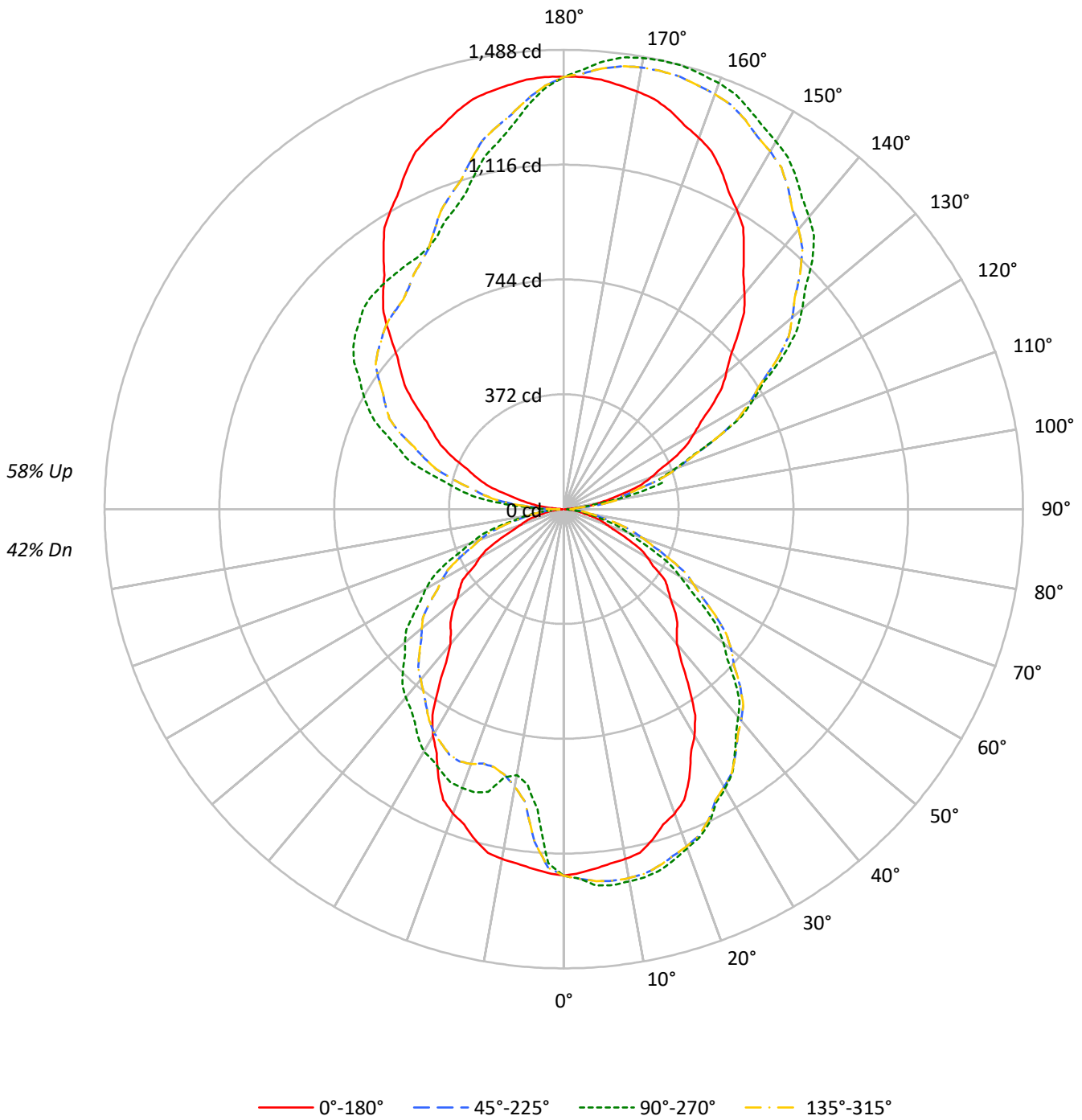
Lumens per Lamp: N/A  
Luminaire Lumens: 7045.3 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.8  
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

TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	58	73	65	58	53	54	49	45	43	40	37	34	32	30	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	28	26	22
5	67	55	47	42	61	51	44	39	42	37	33	35	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	16
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	22	20	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	21	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11

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

	0°	90°	180°	270°
0°	19178	19178	19178	19178
5°	18953	19847	18953	15818
10°	18870	20077	18870	14340
15°	18545	20239	18545	15853
20°	18036	20092	18036	16532
25°	17141	19929	17141	16732
30°	15793	19484	15793	16909
35°	13974	19056	13974	16606
40°	12033	18533	12033	16787
45°	11878	17872	11878	16819
50°	11333	17000	11333	16884
55°	11274	15682	11274	16718
60°	10110	13976	10110	16649
65°	8619	12313	8619	16183
70°	6954	10433	6954	14997
75°	6032	8615	6032	13786
80°	5132	6425	5132	11130
85°	3409	3409	3409	6817

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 18431 cd/sqm



TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	1.5
10°-20°	298.6	4.2
20°-30°	453.5	6.4
30°-40°	532.4	7.6
40°-50°	540.3	7.7
50°-60°	473.3	6.7
60°-70°	335.7	4.8
70°-80°	172.8	2.5
80°-90°	42.0	0.6
90°-100°	111.5	1.6
100°-110°	325.1	4.6
110°-120°	530.5	7.5
120°-130°	673.2	9.6
130°-140°	720.3	10.2
140°-150°	672.6	9.5
150°-160°	553.5	7.9
160°-170°	371.2	5.3
170°-180°	131.8	1.9
0°-30°	859.0	12.2
0°-40°	1391.4	19.8
0°-60°	2405.0	34.1
0°-90°	2955.6	42.0
90°-120°	967.1	13.7
90°-150°	3033.2	43.1
90°-180°	4090.0	58.1
0°-180°	7045.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1169	1225	1169	976	1169	111
15°	1110	1211	1110	948	1110	312
25°	962	1119	962	939	962	439
35°	709	967	709	842	709	442
45°	520	783	520	737	520	398
55°	400	557	400	594	400	346
65°	226	322	226	424	226	225
75°	97	138	97	221	97	105
85°	18	18	18	37	18	23
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	



TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1180.4	1188.6	1196.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8
5°	1169.4	1183.7	1198.0	1204.7	1208.8	1211.8	1213.9	1216.4	1220.5	1224.6	1220.5
7.5°	1158.3	1177.6	1196.8	1206.2	1212.3	1217.3	1220.9	1224.2	1226.3	1228.3	1226.3
10°	1151.0	1173.5	1196.0	1206.2	1212.3	1216.4	1218.5	1220.5	1222.6	1224.6	1222.6
12.5°	1139.9	1164.1	1188.2	1200.1	1207.8	1212.8	1214.8	1216.8	1218.9	1220.9	1218.9
15°	1109.5	1142.3	1175.0	1187.8	1193.9	1199.0	1203.1	1206.7	1208.8	1210.8	1208.8
17.5°	1071.8	1111.5	1151.2	1167.2	1175.4	1181.3	1185.0	1188.2	1189.8	1191.5	1189.8
20°	1049.7	1092.6	1135.6	1152.5	1160.7	1165.8	1167.8	1169.4	1169.4	1169.4	1169.4
22.5°	1020.2	1068.1	1116.0	1134.1	1142.3	1146.6	1147.0	1147.7	1149.3	1151.0	1149.3
25°	962.2	1017.4	1072.7	1095.7	1108.0	1113.1	1111.1	1110.5	1114.6	1118.7	1114.6
27.5°	891.3	960.9	1030.4	1054.0	1062.2	1067.3	1069.3	1070.9	1070.9	1070.9	1070.9
30°	847.1	924.9	1002.6	1028.2	1036.4	1041.5	1043.5	1045.1	1045.1	1045.1	1045.1
32.5°	791.9	884.3	976.8	1004.9	1011.4	1014.9	1015.3	1015.6	1015.6	1015.6	1015.6
35°	709.0	821.5	934.1	965.3	969.4	971.4	971.4	970.9	968.9	966.8	968.9
37.5°	626.1	753.8	881.5	918.0	924.1	925.8	922.9	920.3	918.2	916.2	918.2
40°	570.9	710.0	849.2	888.5	894.7	894.7	888.5	883.4	881.4	879.3	881.4
42.5°	541.4	678.9	816.4	855.4	861.5	860.7	852.9	846.6	844.5	842.5	844.5
45°	520.2	643.0	765.8	801.1	807.2	806.2	798.0	790.8	786.7	782.7	786.7
47.5°	488.0	596.0	704.1	738.8	749.0	748.0	735.7	725.5	721.4	717.3	721.4
50°	451.2	557.6	664.0	698.2	708.5	707.5	695.2	684.9	680.9	676.8	680.9
52.5°	425.4	525.2	625.1	656.5	665.1	662.4	648.5	637.1	633.0	628.9	633.0
55°	400.5	484.4	568.3	593.9	600.0	595.9	581.6	569.3	563.2	557.1	563.2
57.5°	342.5	422.3	502.1	527.0	533.5	528.6	512.3	498.2	491.3	484.3	491.3
60°	313.1	384.7	456.3	480.3	488.5	484.4	468.1	453.2	443.0	432.8	443.0
62.5°	279.9	343.3	406.8	431.2	442.7	440.2	423.9	409.0	398.8	388.6	398.8
65°	225.6	280.8	336.1	360.6	375.0	373.9	357.6	342.7	332.5	322.3	332.5
67.5°	176.8	224.3	271.7	295.9	312.2	311.4	293.4	277.9	269.7	261.5	269.7
70°	147.3	188.2	229.2	251.7	268.0	268.0	251.7	237.4	229.2	221.0	229.2
72.5°	128.9	160.0	191.1	212.4	230.4	230.4	212.4	197.2	190.7	184.2	190.7
75°	96.7	115.1	133.5	153.5	173.9	176.0	159.6	146.3	142.2	138.1	142.2
77.5°	70.0	78.6	87.2	102.8	120.8	122.9	109.0	98.1	96.5	94.8	96.5
80°	55.2	57.3	59.3	72.1	88.5	90.5	78.3	69.1	69.1	69.1	69.1
82.5°	36.8	38.9	40.9	50.0	61.5	62.7	53.7	46.5	44.9	43.3	44.9
85°	18.4	18.4	18.4	21.5	25.6	25.6	21.5	18.4	18.4	18.4	18.4
87.5°	4.5	5.7	7.1	9.4	11.9	12.2	10.6	9.6	9.9	9.9	9.9
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



TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**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



TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1198.8	1198.8	1198.8	1198.8	1198.8	1196.8	1188.6	1180.4	1180.4	1180.4	1174.3
5°	1216.4	1213.9	1211.8	1208.8	1204.7	1198.0	1183.7	1169.4	1163.2	1157.1	1131.0
7.5°	1224.2	1220.9	1217.3	1212.3	1206.2	1196.8	1177.6	1158.3	1130.9	1103.5	1045.4
10°	1220.5	1218.5	1216.4	1212.3	1206.2	1196.0	1173.5	1151.0	1095.7	1040.5	985.2
12.5°	1216.8	1214.8	1212.8	1207.8	1200.1	1188.2	1164.1	1139.9	1061.7	983.6	933.7
15°	1206.7	1203.1	1199.0	1193.9	1187.8	1175.0	1142.3	1109.5	1021.5	933.6	891.6
17.5°	1188.2	1185.0	1181.3	1175.4	1167.2	1151.2	1111.5	1071.8	979.7	887.6	860.6
20°	1169.4	1167.8	1165.8	1160.7	1152.5	1135.6	1092.6	1049.7	957.6	865.5	853.2
22.5°	1147.7	1147.0	1146.6	1142.3	1134.1	1116.0	1068.1	1020.2	929.8	839.3	839.7
25°	1110.5	1111.1	1113.1	1108.0	1095.7	1072.7	1017.4	962.2	882.4	802.6	816.4
27.5°	1070.9	1069.3	1067.3	1062.2	1054.0	1030.4	960.9	891.3	828.3	765.3	788.2
30°	1045.1	1043.5	1041.5	1036.4	1028.2	1002.6	924.9	847.1	793.9	740.7	767.3
32.5°	1015.6	1015.3	1014.9	1011.4	1004.9	976.8	884.3	791.9	753.4	714.9	742.8
35°	970.9	971.4	971.4	969.4	965.3	934.1	821.5	709.0	692.6	676.3	709.0
37.5°	920.3	922.9	925.8	924.1	918.0	881.5	753.8	626.1	631.4	636.8	676.5
40°	883.4	888.5	894.7	894.7	888.5	849.2	710.0	570.9	589.3	607.7	650.7
42.5°	846.6	852.9	860.7	861.5	855.4	816.4	678.9	541.4	561.5	581.5	626.1
45°	790.8	798.0	806.2	807.2	801.1	765.8	643.0	520.2	532.5	544.8	587.8
47.5°	725.5	735.7	748.0	749.0	738.8	704.1	596.0	488.0	497.0	506.0	550.0
50°	684.9	695.2	707.5	708.5	698.2	664.0	557.6	451.2	463.5	475.7	521.8
52.5°	637.1	648.5	662.4	665.1	656.5	625.1	525.2	425.4	432.8	440.1	489.8
55°	569.3	581.6	595.9	600.0	593.9	568.3	484.4	400.5	394.4	388.3	438.9
57.5°	498.2	512.3	528.6	533.5	527.0	502.1	422.3	342.5	337.2	331.9	386.7
60°	453.2	468.1	484.4	488.5	480.3	456.3	384.7	313.1	302.8	292.6	349.9
62.5°	409.0	423.9	440.2	442.7	431.2	406.8	343.3	279.9	273.0	266.0	321.7
65°	342.7	357.6	373.9	375.0	360.6	336.1	280.8	225.6	229.7	233.8	283.9
67.5°	277.9	293.4	311.4	312.2	295.9	271.7	224.3	176.8	190.3	203.8	248.9
70°	237.4	251.7	268.0	268.0	251.7	229.2	188.2	147.3	165.7	184.2	225.6
72.5°	197.2	212.4	230.4	230.4	212.4	191.1	160.0	128.9	147.3	165.7	199.8
75°	146.3	159.6	176.0	173.9	153.5	133.5	115.1	96.7	115.1	133.5	159.6
77.5°	98.1	109.0	122.9	120.8	102.8	87.2	78.6	70.0	85.1	100.3	118.5
80°	69.1	78.3	90.5	88.5	72.1	59.3	57.3	55.2	65.5	75.7	89.0
82.5°	46.5	53.7	62.7	61.5	50.0	40.9	38.9	36.8	45.4	54.0	63.2
85°	18.4	21.5	25.6	25.6	21.5	18.4	18.4	18.4	22.5	26.6	30.7
87.5°	9.6	10.6	12.2	11.9	9.4	7.1	5.7	4.5	7.3	10.1	12.5
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: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-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: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1166.1	1159.6	1154.6	1150.5	1148.9	1147.3	1148.9	1150.5	1154.6	1159.6	1166.1
5°	1098.3	1063.5	1026.7	996.5	986.2	976.0	986.2	996.5	1026.7	1063.5	1098.3
7.5°	977.0	935.1	919.5	907.1	903.8	900.5	903.8	907.1	919.5	935.1	977.0
10°	930.0	896.2	883.9	874.7	874.7	874.7	874.7	874.7	883.9	896.2	930.0
12.5°	893.1	872.5	871.7	873.1	881.3	889.5	881.3	873.1	871.7	872.5	893.1
15°	865.0	868.1	900.8	927.9	938.2	948.4	938.2	927.9	900.8	868.1	865.0
17.5°	855.3	872.9	913.4	945.8	954.0	962.2	954.0	945.8	913.4	872.9	855.3
20°	867.6	890.1	920.8	945.8	954.0	962.2	954.0	945.8	920.8	890.1	867.6
22.5°	870.4	897.8	922.0	942.1	950.3	958.5	950.3	942.1	922.0	897.8	870.4
25°	861.4	894.2	914.6	931.0	935.1	939.2	935.1	931.0	914.6	894.2	861.4
27.5°	839.7	875.8	896.2	912.3	915.1	918.0	915.1	912.3	896.2	875.8	839.7
30°	820.5	857.3	877.8	894.7	900.8	907.0	900.8	894.7	877.8	857.3	820.5
32.5°	792.7	830.3	855.7	875.0	876.3	877.5	876.3	875.0	855.7	830.3	792.7
35°	758.1	797.0	825.6	846.6	844.5	842.5	844.5	846.6	825.6	797.0	758.1
37.5°	727.6	765.7	790.6	810.0	812.4	814.9	812.4	810.0	790.6	765.7	727.6
40°	701.8	740.7	767.3	788.3	792.4	796.5	792.4	788.3	767.3	740.7	701.8
42.5°	678.9	718.6	745.2	766.2	770.3	774.4	770.3	766.2	745.2	718.6	678.9
45°	641.0	681.9	710.5	732.5	734.6	736.6	734.6	732.5	710.5	681.9	641.0
47.5°	605.7	646.8	673.4	693.8	695.9	697.9	695.9	693.8	673.4	646.8	605.7
50°	579.1	621.0	647.6	668.1	670.1	672.2	670.1	668.1	647.6	621.0	579.1
52.5°	553.7	597.3	620.6	638.6	640.6	642.7	640.6	638.6	620.6	597.3	553.7
55°	508.5	554.5	577.0	593.9	593.9	593.9	593.9	577.0	554.5	508.5	508.5
57.5°	461.6	508.9	528.5	543.9	546.3	548.8	546.3	543.9	528.5	508.9	461.6
60°	429.7	477.8	494.1	507.4	511.5	515.6	511.5	507.4	494.1	477.8	429.7
62.5°	398.2	444.6	461.0	473.9	476.3	478.8	476.3	473.9	461.0	444.6	398.2
65°	349.4	390.3	406.7	419.5	421.5	423.6	421.5	419.5	406.7	390.3	349.4
67.5°	304.6	338.1	349.6	358.6	360.2	361.9	360.2	358.6	349.6	338.1	304.6
70°	274.7	303.3	311.5	317.7	317.7	317.7	317.7	311.5	303.3	274.7	274.7
72.5°	239.1	262.8	271.0	277.6	279.2	280.8	279.2	277.6	271.0	262.8	239.1
75°	188.2	205.6	211.8	216.9	218.9	221.0	218.9	216.9	211.8	205.6	188.2
77.5°	137.7	149.2	152.8	156.1	158.2	160.2	158.2	156.1	152.8	149.2	137.7
80°	103.3	111.5	113.6	115.6	117.7	119.7	117.7	115.6	113.6	111.5	103.3
82.5°	72.6	78.4	80.4	82.1	82.5	82.9	82.5	82.1	80.4	78.4	72.6
85°	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	34.8
87.5°	13.9	15.9	17.8	19.0	20.1	19.5	20.1	19.0	17.8	15.9	13.9
90°	32.5	42.4	52.3	58.0	63.7	60.8	63.7	58.0	52.3	42.4	32.5
92.5°	65.4	82.1	94.2	104.4	108.9	108.4	108.9	104.4	94.2	82.1	65.4
95°	131.6	151.4	171.2	185.3	193.8	191.0	193.8	185.3	171.2	151.4	131.6
97.5°	202.9	229.5	251.6	264.9	273.3	279.0	273.3	264.9	251.6	229.5	202.9
100°	250.4	275.9	301.4	316.9	331.1	336.7	331.1	316.9	301.4	275.9	250.4
102.5°	288.9	322.3	350.0	366.7	378.6	384.3	378.6	366.7	350.0	322.3	288.9
105°	352.3	387.7	417.4	438.6	451.3	455.6	451.3	438.6	417.4	387.7	352.3
107.5°	415.7	452.2	479.6	503.1	518.7	527.7	518.7	503.1	479.6	452.2	415.7
110°	465.5	495.2	524.9	546.1	561.7	567.3	561.7	546.1	524.9	495.2	465.5



TEST NUMBER: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-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: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1187.8	1187.8	1187.8	1187.8
2.5°	1174.3	1180.4	1180.4	1180.4
5°	1131.0	1157.1	1163.2	1169.4
7.5°	1045.4	1103.5	1130.9	1158.3
10°	985.2	1040.5	1095.7	1151.0
12.5°	933.7	983.6	1061.7	1139.9
15°	891.6	933.6	1021.5	1109.5
17.5°	860.6	887.6	979.7	1071.8
20°	853.2	865.5	957.6	1049.7
22.5°	839.7	839.3	929.8	1020.2
25°	816.4	802.6	882.4	962.2
27.5°	788.2	765.3	828.3	891.3
30°	767.3	740.7	793.9	847.1
32.5°	742.8	714.9	753.4	791.9
35°	709.0	676.3	692.6	709.0
37.5°	676.5	636.8	631.4	626.1
40°	650.7	607.7	589.3	570.9
42.5°	626.1	581.5	561.5	541.4
45°	587.8	544.8	532.5	520.2
47.5°	550.0	506.0	497.0	488.0
50°	521.8	475.7	463.5	451.2
52.5°	489.8	440.1	432.8	425.4
55°	438.9	388.3	394.4	400.5
57.5°	386.7	331.9	337.2	342.5
60°	349.9	292.6	302.8	313.1
62.5°	321.7	266.0	273.0	279.9
65°	283.9	233.8	229.7	225.6
67.5°	248.9	203.8	190.3	176.8
70°	225.6	184.2	165.7	147.3
72.5°	199.8	165.7	147.3	128.9
75°	159.6	133.5	115.1	96.7
77.5°	118.5	100.3	85.1	70.0
80°	89.0	75.7	65.5	55.2
82.5°	63.2	54.0	45.4	36.8
85°	30.7	26.6	22.5	18.4
87.5°	12.5	10.1	7.3	4.5
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: P1435822

CATALOG NUMBER: SQ2W-FA-K-100U-075D-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: P1435822  
 CATALOG NUMBER: SQ2W-FA-K-100U-075D-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	15.84	16.64	16.87	17.67	19.05	17.04	17.84	18.07	18.87	20.25
	3H	16.93	17.64	17.96	18.68	20.08	18.28	18.99	19.32	20.03	21.43
	4H	17.28	17.95	18.32	18.99	20.40	18.67	19.34	19.71	20.38	21.79
	6H	17.44	18.05	18.49	19.10	20.52	18.83	19.44	19.88	20.49	21.91
	8H	17.47	18.06	18.53	19.12	20.54	18.85	19.44	19.91	20.50	21.92
	12H	17.46	18.02	18.53	19.08	20.52	18.83	19.39	19.90	20.45	21.89
4H	2H	16.70	17.38	17.76	18.42	19.83	17.62	18.29	18.67	19.33	20.74
	3H	18.09	18.65	19.15	19.72	21.14	19.08	19.64	20.14	20.71	22.13
	4H	18.54	19.05	19.61	20.11	21.56	19.55	20.06	20.62	21.12	22.57
	6H	18.76	19.20	19.84	20.29	21.73	19.77	20.21	20.84	21.29	22.73
	8H	18.82	19.23	19.90	20.31	21.76	19.81	20.22	20.89	21.30	22.76
	12H	18.82	19.19	19.91	20.28	21.74	19.80	20.17	20.89	21.26	22.72
8H	4H	18.92	19.33	19.99	20.40	21.86	19.74	20.15	20.82	21.23	22.68
	6H	19.26	19.60	20.36	20.72	22.17	20.05	20.39	21.15	21.51	22.96
	8H	19.38	19.68	20.49	20.78	22.25	20.15	20.44	21.25	21.54	23.02
	12H	19.41	19.68	20.52	20.77	22.28	20.16	20.42	21.27	21.52	23.03
12H	4H	18.92	19.29	20.01	20.38	21.84	19.70	20.08	20.80	21.17	22.63
	6H	19.33	19.63	20.44	20.73	22.20	20.07	20.37	21.17	21.47	22.94
	8H	19.48	19.74	20.59	20.83	22.34	20.18	20.44	21.29	21.54	23.05