

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: P1427924

Luminaire Tested: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427924  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

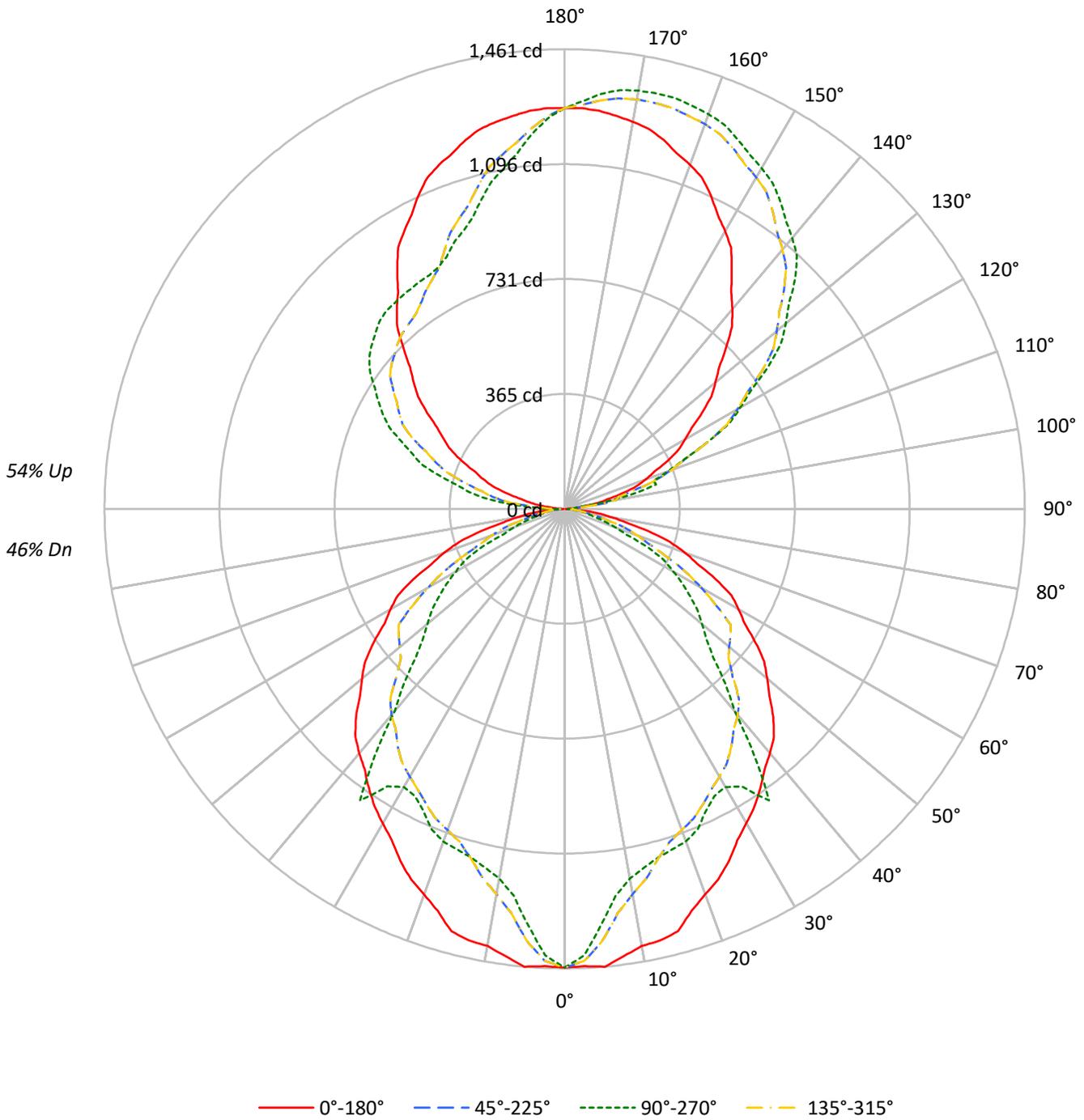
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6948.1 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
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 (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: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46				
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45	40				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	33				
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	28				
4	74	63	56	50	68	59	52	46	49	44	40	41	37	34	33	30	28	24				
5	68	56	48	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19				
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17				
8	54	41	34	29	49	39	32	27	33	27	24	28	23	20	23	20	17	15				
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	21	18	16	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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

	0°	90°	180°	270°
0°	23543	23543	23543	23543
5°	23679	21520	23679	21520
10°	23134	19562	23134	19562
15°	23237	19179	23237	19179
20°	22408	19333	22408	19333
25°	21998	18884	21998	18884
30°	21522	19039	21522	19039
35°	21358	22316	21358	22316
40°	21376	17692	21376	17692
45°	21383	15239	21383	15239
50°	21084	14290	21084	14290
55°	20816	13709	20816	13709
60°	20608	12858	20608	12858
65°	20248	11186	20248	11186
70°	19123	7992	19123	7992
75°	17049	6057	17049	6057
80°	13928	5672	13928	5672
85°	8744	3853	8744	3853

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21383 cd/sqm



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	1.8
10°-20°	337.5	4.9
20°-30°	494.8	7.1
30°-40°	599.2	8.6
40°-50°	589.2	8.5
50°-60°	512.5	7.4
60°-70°	356.4	5.1
70°-80°	169.0	2.4
80°-90°	42.5	0.6
90°-100°	101.4	1.5
100°-110°	295.6	4.3
110°-120°	482.4	6.9
120°-130°	612.1	8.8
130°-140°	655.0	9.4
140°-150°	611.6	8.8
150°-160°	503.3	7.2
160°-170°	337.5	4.9
170°-180°	119.8	1.7
0°-30°	960.6	13.8
0°-40°	1559.8	22.4
0°-60°	2661.5	38.3
0°-90°	3229.5	46.5
90°-120°	879.3	12.7
90°-150°	2758.0	39.7
90°-180°	3719.0	53.5
0°-180°	6948.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1458	1458	1458	1458	1458	
5°	1461	1328	1461	1328	1461	137
15°	1390	1147	1390	1147	1390	388
25°	1235	1060	1235	1060	1235	568
35°	1084	1132	1084	1132	1084	679
45°	936	667	936	667	936	720
55°	740	487	740	487	740	661
65°	530	293	530	293	530	521
75°	273	97	273	97	273	290
85°	47	21	47	21	47	63
90°	4	28	4	55	4	4
95°	40	30	40	174	40	48
105°	188	301	188	414	188	200
115°	360	499	360	615	360	355
125°	533	791	533	754	533	477
135°	724	1036	724	835	724	560
145°	925	1194	925	853	925	579
155°	1099	1297	1099	885	1099	505
165°	1214	1352	1214	1019	1214	342
175°	1270	1324	1270	1195	1270	120
180°	1274	1274	1274	1274	1274	



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1454.9	1461.8	1468.7	1459.0	1443.7	1433.1	1427.2	1422.5	1421.5	1420.5	1421.5
5°	1461.0	1460.4	1459.8	1430.9	1392.7	1364.0	1344.9	1330.3	1329.0	1327.8	1329.0
7.5°	1434.4	1415.2	1396.1	1357.4	1312.1	1279.0	1257.9	1241.8	1240.8	1239.8	1240.8
10°	1411.1	1382.1	1353.1	1309.3	1260.6	1226.7	1207.6	1193.2	1193.2	1193.2	1193.2
12.5°	1405.5	1359.8	1314.0	1266.0	1217.3	1185.9	1171.7	1161.8	1164.7	1167.7	1164.7
15°	1390.2	1321.2	1252.1	1203.4	1161.5	1138.7	1135.0	1133.9	1140.7	1147.4	1140.7
17.5°	1339.7	1265.4	1191.0	1148.2	1115.9	1103.7	1111.5	1119.4	1127.3	1135.2	1127.3
20°	1304.2	1230.8	1157.5	1117.8	1089.5	1082.7	1097.5	1110.4	1117.8	1125.2	1117.8
22.5°	1274.3	1199.9	1125.5	1090.5	1068.5	1065.7	1081.9	1095.1	1099.1	1103.0	1099.1
25°	1234.8	1151.0	1067.1	1041.5	1035.4	1039.4	1053.6	1063.7	1061.9	1060.0	1061.9
27.5°	1187.7	1100.1	1012.5	996.1	1003.4	1011.3	1020.0	1026.7	1027.8	1028.9	1027.8
30°	1154.4	1066.8	979.2	966.1	977.9	988.0	996.7	1005.1	1013.2	1021.2	1013.2
32.5°	1122.2	1031.7	941.1	931.7	949.4	968.4	988.9	1008.8	1027.2	1045.6	1027.2
35°	1083.6	989.3	894.9	887.5	909.1	936.9	970.8	1011.3	1071.7	1132.2	1071.7
37.5°	1043.1	942.0	840.8	837.5	866.7	895.9	925.2	951.9	971.1	990.4	971.1
40°	1014.2	908.2	802.1	802.0	837.1	873.5	911.1	928.2	883.8	839.4	883.8
42.5°	983.2	877.1	771.0	767.9	799.1	839.2	888.2	906.1	831.2	756.2	831.2
45°	936.5	826.2	715.8	711.8	743.2	765.4	778.4	774.7	721.0	667.4	721.0
47.5°	881.6	776.4	671.2	670.3	704.2	706.7	677.7	650.8	629.8	608.8	629.8
50°	839.4	740.1	640.9	645.2	684.0	680.3	634.1	596.0	582.4	568.9	582.4
52.5°	798.4	704.0	609.7	621.1	667.9	660.5	598.9	550.5	541.4	532.2	541.4
55°	739.5	648.9	558.2	584.1	648.9	639.0	554.5	490.7	488.9	487.0	488.9
57.5°	677.1	591.4	505.7	523.6	576.2	565.8	492.6	438.4	441.6	444.8	441.6
60°	638.2	555.0	471.7	474.1	504.9	495.0	444.5	405.6	401.9	398.2	401.9
62.5°	597.2	517.9	438.6	427.1	438.2	426.6	392.3	365.6	361.9	358.2	361.9
65°	530.0	457.9	385.7	364.0	359.0	342.4	314.0	292.8	292.8	292.8	292.8
67.5°	456.2	393.3	330.4	306.1	294.6	278.1	256.5	236.6	221.8	207.0	221.8
70°	405.1	349.6	294.1	268.7	253.3	233.6	209.5	189.0	179.1	169.3	179.1
72.5°	350.8	303.1	255.5	229.5	210.6	191.4	171.8	154.2	142.9	131.5	142.9
75°	273.3	235.1	196.9	171.6	150.6	131.2	113.3	99.6	98.4	97.1	98.4
77.5°	197.6	169.7	141.8	121.4	103.4	89.8	80.8	74.1	74.2	74.4	74.2
80°	149.8	128.9	107.9	88.8	70.3	60.7	60.1	59.8	60.4	61.0	60.4
82.5°	105.4	89.9	74.4	62.2	51.1	45.9	46.8	47.5	47.6	47.7	47.6
85°	47.2	39.8	32.4	29.6	28.4	26.5	24.0	22.0	21.4	20.8	21.4
87.5°	10.8	11.3	12.1	11.9	11.2	10.7	10.7	11.0	11.2	11.2	11.2
90°	3.9	9.0	15.4	20.6	24.4	25.7	25.7	27.0	28.3	28.3	28.3
92.5°	14.2	22.4	22.6	22.6	27.5	29.8	31.9	32.2	33.4	33.4	33.4
95°	39.9	43.7	65.6	64.3	43.7	34.7	29.6	29.6	29.6	29.6	29.6
97.5°	76.2	81.8	85.4	114.5	120.9	116.8	95.2	80.0	71.5	67.7	71.5
100°	108.1	110.6	118.4	119.6	151.8	182.7	167.2	147.9	141.5	137.6	141.5
102.5°	140.0	141.5	153.3	158.7	166.2	183.7	237.2	231.3	226.9	226.2	226.9
105°	187.8	189.1	211.0	221.3	226.4	226.4	225.1	250.9	292.0	301.0	292.0
107.5°	239.0	244.9	270.7	298.2	304.1	305.7	299.0	295.1	293.6	294.6	293.6
110°	274.0	283.0	313.9	348.6	357.6	360.2	357.6	353.8	351.2	351.2	351.2



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	308.0	321.1	356.1	396.0	411.1	418.9	413.2	410.4	407.8	409.9	407.8
115°	360.2	379.5	425.8	467.0	497.9	501.7	500.4	500.4	499.1	499.1	499.1
117.5°	408.6	439.5	491.4	539.3	575.0	585.3	590.5	588.9	587.4	590.0	587.4
120°	442.5	478.6	537.7	591.8	626.5	641.9	647.1	644.5	647.1	644.5	647.1
122.5°	478.6	522.8	581.0	637.0	678.0	695.5	701.6	702.1	702.7	701.1	702.7
125°	532.6	586.6	654.8	712.7	755.1	775.7	780.9	782.2	784.7	791.2	784.7
127.5°	587.1	648.4	723.2	779.1	822.6	847.5	855.5	858.3	863.7	866.6	863.7
130°	625.2	694.7	770.6	823.3	865.8	892.8	906.9	910.8	917.2	916.0	917.2
132.5°	665.4	737.9	814.8	869.6	909.0	938.1	950.2	961.2	963.5	965.4	963.5
135°	724.3	802.7	879.9	934.0	971.3	999.6	1015.0	1025.3	1031.7	1035.6	1031.7
137.5°	786.3	869.1	943.2	991.3	1028.9	1053.3	1070.8	1081.6	1088.3	1091.4	1088.3
140°	828.5	908.2	980.3	1030.4	1063.9	1088.3	1103.8	1116.6	1124.4	1124.4	1124.4
142.5°	868.6	947.3	1017.3	1067.5	1096.8	1119.2	1135.7	1145.5	1154.2	1154.2	1154.2
145°	925.0	1003.4	1067.8	1117.9	1142.4	1162.9	1181.0	1188.7	1193.8	1193.8	1193.8
147.5°	983.9	1053.3	1112.0	1160.1	1180.7	1204.9	1219.0	1225.2	1231.6	1228.8	1231.6
150°	1018.9	1083.2	1139.8	1184.8	1205.4	1228.6	1242.7	1247.9	1254.3	1250.4	1254.3
152.5°	1052.8	1114.1	1165.5	1207.5	1225.0	1248.1	1264.3	1269.5	1273.8	1271.0	1273.8
155°	1098.6	1152.7	1200.3	1238.8	1254.3	1276.2	1291.6	1298.0	1303.2	1296.7	1303.2
157.5°	1139.5	1186.1	1227.5	1263.0	1279.5	1298.3	1312.7	1320.7	1325.8	1323.0	1325.8
160°	1164.2	1206.7	1244.0	1277.4	1292.9	1309.6	1325.0	1334.0	1339.2	1335.3	1339.2
162.5°	1184.8	1223.2	1258.4	1288.8	1302.1	1316.8	1335.3	1343.3	1348.5	1343.6	1348.5
165°	1214.4	1245.3	1276.2	1301.9	1313.5	1325.0	1344.3	1353.3	1357.2	1352.1	1357.2
167.5°	1236.8	1260.5	1285.4	1307.5	1316.0	1327.4	1346.7	1354.1	1359.0	1352.6	1359.0
170°	1249.1	1269.7	1291.6	1309.6	1316.0	1326.3	1345.6	1352.1	1355.9	1349.5	1355.9
172.5°	1259.4	1274.9	1292.6	1308.6	1311.9	1320.2	1338.4	1344.9	1347.7	1342.3	1347.7
175°	1269.7	1278.7	1291.6	1301.9	1300.6	1305.7	1321.2	1326.3	1331.5	1323.8	1331.5
177.5°	1274.6	1278.7	1282.8	1289.0	1284.9	1284.9	1296.2	1299.3	1300.3	1296.2	1300.3
180°	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1422.5	1427.2	1433.1	1443.7	1459.0	1468.7	1461.8	1454.9	1461.8	1468.7	1459.0
5°	1330.3	1344.9	1364.0	1392.7	1430.9	1459.8	1460.4	1461.0	1460.4	1459.8	1430.9
7.5°	1241.8	1257.9	1279.0	1312.1	1357.4	1396.1	1415.2	1434.4	1415.2	1396.1	1357.4
10°	1193.2	1207.6	1226.7	1260.6	1309.3	1353.1	1382.1	1411.1	1382.1	1353.1	1309.3
12.5°	1161.8	1171.7	1185.9	1217.3	1266.0	1314.0	1359.8	1405.5	1359.8	1314.0	1266.0
15°	1133.9	1135.0	1138.7	1161.5	1203.4	1252.1	1321.2	1390.2	1321.2	1252.1	1203.4
17.5°	1119.4	1111.5	1103.7	1115.9	1148.2	1191.0	1265.4	1339.7	1265.4	1191.0	1148.2
20°	1110.4	1097.5	1082.7	1089.5	1117.8	1157.5	1230.8	1304.2	1230.8	1157.5	1117.8
22.5°	1095.1	1081.9	1065.7	1068.5	1090.5	1125.5	1199.9	1274.3	1199.9	1125.5	1090.5
25°	1063.7	1053.6	1039.4	1035.4	1041.5	1067.1	1151.0	1234.8	1151.0	1067.1	1041.5
27.5°	1026.7	1020.0	1011.3	1003.4	996.1	1012.5	1100.1	1187.7	1100.1	1012.5	996.1
30°	1005.1	996.7	988.0	977.9	966.1	979.2	1066.8	1154.4	1066.8	979.2	966.1
32.5°	1008.8	988.9	968.4	949.4	931.7	941.1	1031.7	1122.2	1031.7	941.1	931.7
35°	1011.3	970.8	936.9	909.1	887.5	894.9	989.3	1083.6	989.3	894.9	887.5
37.5°	951.9	925.2	895.9	866.7	837.5	840.8	942.0	1043.1	942.0	840.8	837.5
40°	928.2	911.1	873.5	837.1	802.0	802.1	908.2	1014.2	908.2	802.1	802.0
42.5°	906.1	888.2	839.2	799.1	767.9	771.0	877.1	983.2	877.1	771.0	767.9
45°	774.7	778.4	765.4	743.2	711.8	715.8	826.2	936.5	826.2	715.8	711.8
47.5°	650.8	677.7	706.7	704.2	670.3	671.2	776.4	881.6	776.4	671.2	670.3
50°	596.0	634.1	680.3	684.0	645.2	640.9	740.1	839.4	740.1	640.9	645.2
52.5°	550.5	598.9	660.5	667.9	621.1	609.7	704.0	798.4	704.0	609.7	621.1
55°	490.7	554.5	639.0	648.9	584.1	558.2	648.9	739.5	648.9	558.2	584.1
57.5°	438.4	492.6	565.8	576.2	523.6	505.7	591.4	677.1	591.4	505.7	523.6
60°	405.6	444.5	495.0	504.9	474.1	471.7	555.0	638.2	555.0	471.7	474.1
62.5°	365.6	392.3	426.6	438.2	427.1	438.6	517.9	597.2	517.9	438.6	427.1
65°	292.8	314.0	342.4	359.0	364.0	385.7	457.9	530.0	457.9	385.7	364.0
67.5°	236.6	256.5	278.1	294.6	306.1	330.4	393.3	456.2	393.3	330.4	306.1
70°	189.0	209.5	233.6	253.3	268.7	294.1	349.6	405.1	349.6	294.1	268.7
72.5°	154.2	171.8	191.4	210.6	229.5	255.5	303.1	350.8	303.1	255.5	229.5
75°	99.6	113.3	131.2	150.6	171.6	196.9	235.1	273.3	235.1	196.9	171.6
77.5°	74.1	80.8	89.8	103.4	121.4	141.8	169.7	197.6	169.7	141.8	121.4
80°	59.8	60.1	60.7	70.3	88.8	107.9	128.9	149.8	128.9	107.9	88.8
82.5°	47.5	46.8	45.9	51.1	62.2	74.4	89.9	105.4	89.9	74.4	62.2
85°	22.0	24.0	26.5	28.4	29.6	32.4	39.8	47.2	39.8	32.4	29.6
87.5°	11.0	10.7	10.7	11.2	11.9	12.1	11.3	10.8	11.3	11.8	12.4
90°	27.0	25.7	25.7	24.4	20.6	15.4	9.0	3.9	9.0	14.2	23.2
92.5°	32.2	31.9	29.8	27.5	22.6	22.6	22.4	14.2	24.4	34.7	49.9
95°	29.6	29.6	34.7	43.7	64.3	65.6	43.7	39.9	56.6	79.8	100.3
97.5°	80.0	95.2	116.8	120.9	114.5	85.4	81.8	76.2	103.7	126.6	159.8
100°	147.9	167.2	182.7	151.8	119.6	118.4	110.6	108.1	137.6	159.5	191.7
102.5°	231.3	237.2	183.7	166.2	158.7	153.3	141.5	140.0	169.6	199.7	226.7
105°	250.9	225.1	226.4	226.4	221.3	211.0	189.1	187.8	221.3	256.0	289.5
107.5°	295.1	299.0	305.7	304.1	298.2	270.7	244.9	239.0	269.1	310.8	347.6
110°	353.8	357.6	360.2	357.6	348.6	313.9	283.0	274.0	301.0	344.8	384.6



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	410.4	413.2	418.9	411.1	396.0	356.1	321.1	308.0	335.0	379.8	420.7
115°	500.4	500.4	501.7	497.9	467.0	425.8	379.5	360.2	383.4	424.5	469.6
117.5°	588.9	590.5	585.3	575.0	539.3	491.4	439.5	408.6	426.8	470.3	516.6
120°	644.5	647.1	641.9	626.5	591.8	537.7	478.6	442.5	456.7	499.1	545.5
122.5°	702.1	701.6	695.5	678.0	637.0	581.0	522.8	478.6	484.5	523.8	569.1
125°	782.2	780.9	775.7	755.1	712.7	654.8	586.6	532.6	524.9	558.3	604.6
127.5°	858.3	855.5	847.5	822.6	779.1	723.2	648.4	587.1	569.9	591.0	633.4
130°	910.8	906.9	892.8	865.8	823.3	770.6	694.7	625.2	600.8	613.6	650.9
132.5°	961.2	950.2	938.1	909.0	869.6	814.8	737.9	665.4	631.6	637.3	666.4
135°	1025.3	1015.0	999.6	971.3	934.0	879.9	802.7	724.3	678.0	672.8	689.5
137.5°	1081.6	1070.8	1053.3	1028.9	991.3	943.2	869.1	786.3	727.9	710.6	717.1
140°	1116.6	1103.8	1088.3	1063.9	1030.4	980.3	908.2	828.5	762.9	738.4	734.6
142.5°	1145.5	1135.7	1119.2	1096.8	1067.5	1017.3	947.3	868.6	798.9	767.2	758.2
145°	1188.7	1181.0	1162.9	1142.4	1117.9	1067.8	1003.4	925.0	855.5	814.3	795.0
147.5°	1225.2	1219.0	1204.9	1180.7	1160.1	1112.0	1053.3	983.9	912.6	861.7	836.7
150°	1247.9	1242.7	1228.6	1205.4	1184.8	1139.8	1083.2	1018.9	950.7	896.7	864.5
152.5°	1269.5	1264.3	1248.1	1225.0	1207.5	1165.5	1114.1	1052.8	983.6	929.6	896.4
155°	1298.0	1291.6	1276.2	1254.3	1238.8	1200.3	1152.7	1098.6	1039.4	982.8	945.5
157.5°	1320.7	1312.7	1298.3	1279.5	1263.0	1227.5	1186.1	1139.5	1087.8	1033.8	995.7
160°	1334.0	1325.0	1309.6	1292.9	1277.4	1244.0	1206.7	1164.2	1116.6	1067.8	1026.6
162.5°	1343.3	1335.3	1316.8	1302.1	1288.8	1258.4	1223.2	1184.8	1142.4	1099.7	1061.6
165°	1353.3	1344.3	1325.0	1313.5	1301.9	1276.2	1245.3	1214.4	1178.4	1143.7	1112.8
167.5°	1354.1	1346.7	1327.4	1316.0	1307.5	1285.4	1260.5	1236.8	1208.7	1181.5	1155.7
170°	1352.1	1345.6	1326.3	1316.0	1309.6	1291.6	1269.7	1249.1	1227.3	1204.1	1183.5
172.5°	1344.9	1338.4	1320.2	1311.9	1308.6	1292.6	1274.9	1259.4	1240.7	1223.7	1207.2
175°	1326.3	1321.2	1305.7	1300.6	1301.9	1291.6	1278.7	1269.7	1258.1	1247.9	1238.8
177.5°	1299.3	1296.2	1284.9	1284.9	1289.0	1282.8	1278.7	1274.6	1269.5	1266.4	1263.3
180°	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1443.7	1433.1	1427.2	1422.5	1421.5	1420.5	1421.5	1422.5	1427.2	1433.1	1443.7
5°	1392.7	1364.0	1344.9	1330.3	1329.0	1327.8	1329.0	1330.3	1344.9	1364.0	1392.7
7.5°	1312.1	1279.0	1257.9	1241.8	1240.8	1239.8	1240.8	1241.8	1257.9	1279.0	1312.1
10°	1260.6	1226.7	1207.6	1193.2	1193.2	1193.2	1193.2	1193.2	1207.6	1226.7	1260.6
12.5°	1217.3	1185.9	1171.7	1161.8	1164.7	1167.7	1164.7	1161.8	1171.7	1185.9	1217.3
15°	1161.5	1138.7	1135.0	1133.9	1140.7	1147.4	1140.7	1133.9	1135.0	1138.7	1161.5
17.5°	1115.9	1103.7	1111.5	1119.4	1127.3	1135.2	1127.3	1119.4	1111.5	1103.7	1115.9
20°	1089.5	1082.7	1097.5	1110.4	1117.8	1125.2	1117.8	1110.4	1097.5	1082.7	1089.5
22.5°	1068.5	1065.7	1081.9	1095.1	1099.1	1103.0	1099.1	1095.1	1081.9	1065.7	1068.5
25°	1035.4	1039.4	1053.6	1063.7	1061.9	1060.0	1061.9	1063.7	1053.6	1039.4	1035.4
27.5°	1003.4	1011.3	1020.0	1026.7	1027.8	1028.9	1027.8	1026.7	1020.0	1011.3	1003.4
30°	977.9	988.0	996.7	1005.1	1013.2	1021.2	1013.2	1005.1	996.7	988.0	977.9
32.5°	949.4	968.4	988.9	1008.8	1027.2	1045.6	1027.2	1008.8	988.9	968.4	949.4
35°	909.1	936.9	970.8	1011.3	1071.7	1132.2	1071.7	1011.3	970.8	936.9	909.1
37.5°	866.7	895.9	925.2	951.9	971.1	990.4	971.1	951.9	925.2	895.9	866.7
40°	837.1	873.5	911.1	928.2	883.8	839.4	883.8	928.2	911.1	873.5	837.1
42.5°	799.1	839.2	888.2	906.1	831.2	756.2	831.2	906.1	888.2	839.2	799.1
45°	743.2	765.4	778.4	774.7	721.0	667.4	721.0	774.7	778.4	765.4	743.2
47.5°	704.2	706.7	677.7	650.8	629.8	608.8	629.8	650.8	677.7	706.7	704.2
50°	684.0	680.3	634.1	596.0	582.4	568.9	582.4	596.0	634.1	680.3	684.0
52.5°	667.9	660.5	598.9	550.5	541.4	532.2	541.4	550.5	598.9	660.5	667.9
55°	648.9	639.0	554.5	490.7	488.9	487.0	488.9	490.7	554.5	639.0	648.9
57.5°	576.2	565.8	492.6	438.4	441.6	444.8	441.6	438.4	492.6	565.8	576.2
60°	504.9	495.0	444.5	405.6	401.9	398.2	401.9	405.6	444.5	495.0	504.9
62.5°	438.2	426.6	392.3	365.6	361.9	358.2	361.9	365.6	392.3	426.6	438.2
65°	359.0	342.4	314.0	292.8	292.8	292.8	292.8	292.8	314.0	342.4	359.0
67.5°	294.6	278.1	256.5	236.6	221.8	207.0	221.8	236.6	256.5	278.1	294.6
70°	253.3	233.6	209.5	189.0	179.1	169.3	179.1	189.0	209.5	233.6	253.3
72.5°	210.6	191.4	171.8	154.2	142.9	131.5	142.9	154.2	171.8	191.4	210.6
75°	150.6	131.2	113.3	99.6	98.4	97.1	98.4	99.6	113.3	131.2	150.6
77.5°	103.4	89.8	80.8	74.1	74.2	74.4	74.2	74.1	80.8	89.8	103.4
80°	70.3	60.7	60.1	59.8	60.4	61.0	60.4	59.8	60.1	60.7	70.3
82.5°	51.1	45.9	46.8	47.5	47.6	47.7	47.6	47.5	46.8	45.9	51.1
85°	28.4	26.5	24.0	22.0	21.4	20.8	21.4	22.0	24.0	26.5	28.4
87.5°	12.2	13.3	15.1	16.1	17.1	16.6	17.1	16.1	15.1	13.3	12.2
90°	29.6	38.6	47.6	52.7	57.9	55.3	57.9	52.7	47.6	38.6	29.6
92.5°	59.4	74.6	85.7	94.9	99.1	98.5	99.1	94.9	85.7	74.6	59.4
95°	119.6	137.6	155.7	168.5	176.2	173.7	176.2	168.5	155.7	137.6	119.6
97.5°	184.5	208.7	228.7	240.8	248.5	253.7	248.5	240.8	228.7	208.7	184.5
100°	227.7	250.9	274.0	288.2	301.0	306.2	301.0	288.2	274.0	250.9	227.7
102.5°	262.7	293.1	318.3	333.4	344.3	349.4	344.3	318.3	293.1	262.7	
105°	320.3	352.5	379.5	398.8	410.4	414.2	410.4	398.8	379.5	352.5	320.3
107.5°	378.0	411.1	436.1	457.5	471.6	479.8	471.6	457.5	436.1	411.1	378.0
110°	423.2	450.3	477.3	496.6	510.7	515.9	510.7	496.6	477.3	450.3	423.2



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	461.3	491.4	518.4	537.7	553.9	561.1	553.9	537.7	518.4	491.4	461.3
115°	514.6	554.5	578.9	596.9	608.5	614.9	608.5	596.9	578.9	554.5	514.6
117.5°	558.8	600.5	627.3	641.2	646.6	651.2	646.6	641.2	627.3	600.5	558.8
120°	586.6	625.2	656.1	674.1	680.5	683.1	680.5	674.1	656.1	625.2	586.6
122.5°	612.3	648.9	678.7	700.9	711.4	714.0	711.4	700.9	678.7	648.9	612.3
125°	648.4	683.1	714.0	735.8	747.4	753.9	747.4	735.8	714.0	683.1	648.4
127.5°	679.8	717.3	745.6	765.4	776.8	781.9	776.8	765.4	745.6	717.3	679.8
130°	697.3	735.8	764.1	786.0	796.3	801.5	796.3	786.0	764.1	735.8	697.3
132.5°	710.6	751.3	780.6	800.4	811.7	816.9	811.7	800.4	780.6	751.3	710.6
135°	726.8	769.3	800.2	819.5	829.8	834.9	829.8	819.5	800.2	769.3	726.8
137.5°	741.0	779.6	811.7	832.1	841.3	844.7	841.3	832.1	811.7	779.6	741.0
140°	751.3	784.7	816.9	836.2	846.5	847.8	846.5	836.2	816.9	784.7	751.3
142.5°	764.7	790.9	819.0	838.2	848.5	850.9	848.5	838.2	819.0	790.9	764.7
145°	788.6	804.0	823.3	841.3	850.3	852.9	850.3	841.3	823.3	804.0	788.6
147.5°	818.7	823.6	833.6	845.5	854.2	856.0	854.2	845.5	833.6	823.6	818.7
150°	841.3	840.1	843.9	851.6	859.3	858.1	859.3	851.6	843.9	840.1	841.3
152.5°	867.1	859.6	859.3	862.9	866.6	866.3	866.6	862.9	859.3	859.6	867.1
155°	910.8	896.7	888.9	886.4	886.4	885.1	886.4	886.4	888.9	896.7	910.8
157.5°	958.9	939.1	927.5	921.4	919.6	916.7	919.6	921.4	927.5	939.1	958.9
160°	991.9	970.0	958.4	948.1	944.3	940.4	944.3	948.1	958.4	970.0	991.9
162.5°	1022.7	1001.9	989.3	980.0	976.2	970.2	976.2	980.0	989.3	1001.9	1022.7
165°	1072.9	1051.0	1036.9	1029.2	1024.0	1018.9	1024.0	1029.2	1036.9	1051.0	1072.9
167.5°	1123.1	1099.1	1089.9	1081.1	1076.2	1067.0	1076.2	1081.1	1089.9	1099.1	1123.1
170°	1153.9	1132.1	1126.9	1119.2	1110.2	1099.9	1110.2	1119.2	1126.9	1132.1	1153.9
172.5°	1180.7	1166.0	1160.9	1153.2	1150.3	1142.1	1150.3	1153.2	1160.9	1166.0	1180.7
175°	1219.6	1208.0	1208.0	1206.7	1202.8	1195.1	1202.8	1206.7	1208.0	1208.0	1219.6
177.5°	1252.0	1245.8	1249.9	1249.9	1248.9	1241.7	1248.9	1249.9	1249.9	1245.8	1252.0
180°	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6	1273.6



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1458.2	1458.2	1458.2	1458.2
2.5°	1459.0	1468.7	1461.8	1454.9
5°	1430.9	1459.8	1460.4	1461.0
7.5°	1357.4	1396.1	1415.2	1434.4
10°	1309.3	1353.1	1382.1	1411.1
12.5°	1266.0	1314.0	1359.8	1405.5
15°	1203.4	1252.1	1321.2	1390.2
17.5°	1148.2	1191.0	1265.4	1339.7
20°	1117.8	1157.5	1230.8	1304.2
22.5°	1090.5	1125.5	1199.9	1274.3
25°	1041.5	1067.1	1151.0	1234.8
27.5°	996.1	1012.5	1100.1	1187.7
30°	966.1	979.2	1066.8	1154.4
32.5°	931.7	941.1	1031.7	1122.2
35°	887.5	894.9	989.3	1083.6
37.5°	837.5	840.8	942.0	1043.1
40°	802.0	802.1	908.2	1014.2
42.5°	767.9	771.0	877.1	983.2
45°	711.8	715.8	826.2	936.5
47.5°	670.3	671.2	776.4	881.6
50°	645.2	640.9	740.1	839.4
52.5°	621.1	609.7	704.0	798.4
55°	584.1	558.2	648.9	739.5
57.5°	523.6	505.7	591.4	677.1
60°	474.1	471.7	555.0	638.2
62.5°	427.1	438.6	517.9	597.2
65°	364.0	385.7	457.9	530.0
67.5°	306.1	330.4	393.3	456.2
70°	268.7	294.1	349.6	405.1
72.5°	229.5	255.5	303.1	350.8
75°	171.6	196.9	235.1	273.3
77.5°	121.4	141.8	169.7	197.6
80°	88.8	107.9	128.9	149.8
82.5°	62.2	74.4	89.9	105.4
85°	29.6	32.4	39.8	47.2
87.5°	12.4	11.8	11.3	10.8
90°	23.2	14.2	9.0	3.9
92.5°	49.9	34.7	24.4	14.2
95°	100.3	79.8	56.6	39.9
97.5°	159.8	126.6	103.7	76.2
100°	191.7	159.5	137.6	108.1
102.5°	226.7	199.7	169.6	140.0
105°	289.5	256.0	221.3	187.8
107.5°	347.6	310.8	269.1	239.0
110°	384.6	344.8	301.0	274.0



TEST NUMBER: P1427924

CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	420.7	379.8	335.0	308.0
115°	469.6	424.5	383.4	360.2
117.5°	516.6	470.3	426.8	408.6
120°	545.5	499.1	456.7	442.5
122.5°	569.1	523.8	484.5	478.6
125°	604.6	558.3	524.9	532.6
127.5°	633.4	591.0	569.9	587.1
130°	650.9	613.6	600.8	625.2
132.5°	666.4	637.3	631.6	665.4
135°	689.5	672.8	678.0	724.3
137.5°	717.1	710.6	727.9	786.3
140°	734.6	738.4	762.9	828.5
142.5°	758.2	767.2	798.9	868.6
145°	795.0	814.3	855.5	925.0
147.5°	836.7	861.7	912.6	983.9
150°	864.5	896.7	950.7	1018.9
152.5°	896.4	929.6	983.6	1052.8
155°	945.5	982.8	1039.4	1098.6
157.5°	995.7	1033.8	1087.8	1139.5
160°	1026.6	1067.8	1116.6	1164.2
162.5°	1061.6	1099.7	1142.4	1184.8
165°	1112.8	1143.7	1178.4	1214.4
167.5°	1155.7	1181.5	1208.7	1236.8
170°	1183.5	1204.1	1227.3	1249.1
172.5°	1207.2	1223.7	1240.7	1259.4
175°	1238.8	1247.9	1258.1	1269.7
177.5°	1263.3	1266.4	1269.5	1274.6
180°	1273.6	1273.6	1273.6	1273.6



TEST NUMBER: P1427924  
 CATALOG NUMBER: SQ2W-PH1-K-100U-075D-L930-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	17.51	18.34	18.50	19.34	20.66	16.34	17.17	17.33	18.17	19.49
	3H	19.69	20.42	20.69	21.43	22.77	17.39	18.13	18.39	19.14	20.48
	4H	20.50	21.20	21.51	22.21	23.56	17.63	18.33	18.64	19.34	20.69
	6H	20.96	21.61	21.99	22.62	23.98	17.77	18.41	18.79	19.43	20.79
	8H	21.11	21.73	22.14	22.76	24.12	17.83	18.44	18.86	19.47	20.83
	12H	21.17	21.75	22.20	22.78	24.16	17.84	18.42	18.87	19.45	20.83
4H	2H	17.95	18.64	18.96	19.66	21.01	17.02	17.72	18.04	18.73	20.08
	3H	20.19	20.77	21.22	21.81	23.18	18.25	18.83	19.28	19.87	21.23
	4H	21.06	21.60	22.10	22.63	24.02	18.54	19.07	19.57	20.10	21.49
	6H	21.62	22.08	22.67	23.13	24.52	18.73	19.19	19.78	20.25	21.63
	8H	21.82	22.25	22.87	23.30	24.70	18.82	19.25	19.87	20.30	21.70
	12H	21.91	22.29	22.97	23.35	24.76	18.85	19.23	19.91	20.29	21.70
8H	4H	21.08	21.51	22.13	22.56	23.96	18.76	19.19	19.81	20.24	21.64
	6H	21.71	22.06	22.78	23.15	24.55	19.03	19.38	20.10	20.47	21.87
	8H	21.97	22.28	23.05	23.36	24.77	19.18	19.49	20.25	20.56	21.97
	12H	22.10	22.38	23.18	23.45	24.90	19.24	19.51	20.32	20.58	22.04
12H	4H	21.03	21.42	22.10	22.48	23.89	18.76	19.14	19.82	20.21	21.61
	6H	21.69	22.00	22.77	23.07	24.49	19.07	19.37	20.14	20.45	21.86
	8H	21.96	22.23	23.04	23.30	24.75	19.23	19.50	20.31	20.57	22.02