

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: P1435990

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435990  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-100U-075D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING 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**

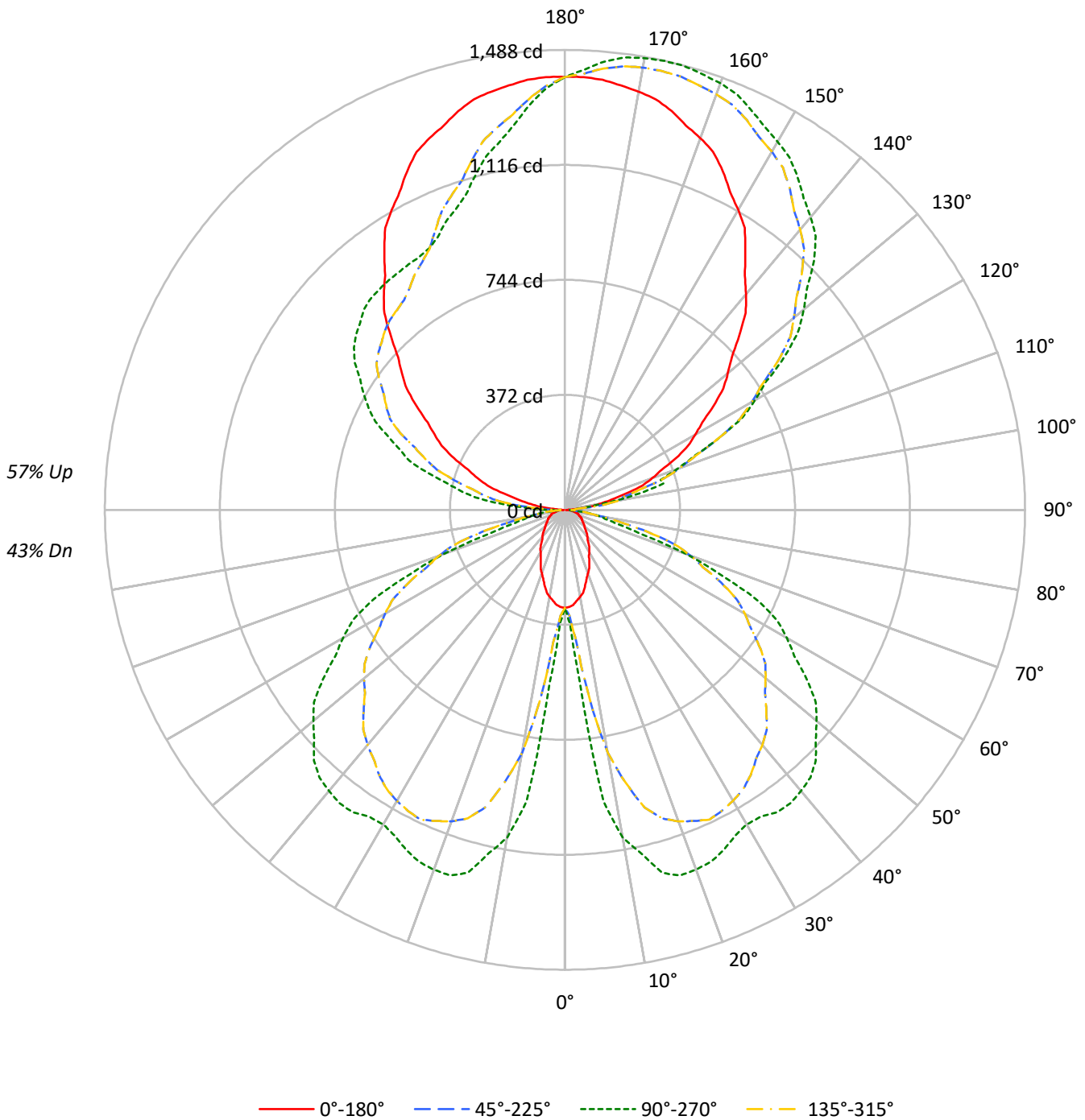
Lumens per Lamp: N/A  
Luminaire Lumens: 7230.2 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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: P1435990

CATALOG NUMBER: SQ2W-FB-K-100U-075D-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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43				43
1	96	92	88	84	88	84	81	78	70	67	65	56	55	53	44	43	42				36	
2	87	80	74	68	79	73	68	63	61	57	53	49	46	44	38	36	35				30	
3	79	70	62	56	72	64	57	52	53	48	44	43	39	37	34	31	29				25	
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25				21	
5	66	54	46	40	60	50	43	37	41	36	32	34	30	26	26	23	21				18	
6	61	48	40	34	55	45	37	32	37	31	27	30	26	23	24	21	18				15	
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16				13	
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	20	16	14				12	
9	48	36	28	23	44	33	26	21	28	22	18	23	18	15	18	15	13				10	
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11				9	

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

	0°	90°	180°	270°
0°	5125	5125	5125	5125
5°	4995	9076	4995	9076
10°	4677	17662	4677	17662
15°	4234	20329	4234	20329
20°	3749	21288	3749	21288
25°	3317	21638	3317	21638
30°	2931	21906	2931	21906
35°	2617	23550	2617	23550
40°	2380	25022	2380	25022
45°	2194	26201	2194	26201
50°	2070	26675	2070	26675
55°	2018	26888	2018	26888
60°	2070	26756	2070	26756
65°	2159	26001	2159	26001
70°	2233	19666	2233	19666
75°	2477	10854	2477	10854
80°	2557	10070	2557	10070
85°	2538	4242	2538	4242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 27132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	0.7
10°-20°	242.6	3.4
20°-30°	427.0	5.9
30°-40°	552.7	7.6
40°-50°	609.5	8.4
50°-60°	568.9	7.9
60°-70°	439.5	6.1
70°-80°	202.6	2.8
80°-90°	44.5	0.6
90°-100°	111.5	1.5
100°-110°	325.1	4.5
110°-120°	530.5	7.3
120°-130°	673.2	9.3
130°-140°	720.3	10.0
140°-150°	672.6	9.3
150°-160°	553.5	7.7
160°-170°	371.2	5.1
170°-180°	131.8	1.8
0°-30°	722.8	10.0
0°-40°	1275.4	17.6
0°-60°	2453.8	33.9
0°-90°	3140.5	43.4
90°-120°	967.1	13.4
90°-150°	3033.2	42.0
90°-180°	4090.0	56.6
0°-180°	7230.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	317	317	317	317	317	
5°	308	560	308	560	308	29
15°	253	1216	253	1216	253	71
25°	186	1215	186	1215	186	86
35°	133	1195	133	1195	133	84
45°	96	1148	96	1148	96	75
55°	72	955	72	955	72	65
65°	56	681	56	681	56	55
75°	40	174	40	174	40	41
85°	14	23	14	23	14	14
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°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	314.9	320.9	326.9	333.3	339.8	346.8	354.4	360.9	364.2	367.4	364.2
5°	308.2	328.6	348.9	378.4	411.0	447.9	489.3	524.7	542.4	560.0	542.4
7.5°	296.3	337.7	379.1	466.7	569.8	676.8	787.8	879.8	915.1	950.3	915.1
10°	285.3	343.0	400.6	549.3	728.4	866.0	962.3	1039.3	1058.3	1077.3	1058.3
12.5°	273.1	351.4	429.7	613.2	831.9	975.0	1042.5	1098.0	1117.6	1137.1	1117.6
15°	253.3	365.2	477.1	684.6	924.0	1071.2	1126.1	1172.7	1194.5	1216.2	1194.5
17.5°	232.9	381.8	530.7	742.4	975.0	1118.5	1172.9	1216.7	1228.5	1240.3	1228.5
20°	218.2	393.2	568.1	780.2	1004.7	1140.4	1187.2	1224.1	1231.6	1239.0	1231.6
22.5°	204.8	400.4	596.0	808.3	1026.3	1153.0	1188.4	1216.9	1224.9	1232.9	1224.9
25°	186.2	406.6	627.0	838.7	1047.6	1163.3	1185.6	1203.8	1209.2	1214.6	1209.2
27.5°	168.2	401.0	633.9	843.0	1044.2	1152.1	1166.7	1179.0	1184.3	1189.6	1184.3
30°	157.2	393.9	630.5	837.7	1035.1	1139.2	1150.0	1160.0	1167.5	1175.0	1167.5
32.5°	147.4	385.2	622.9	827.6	1021.1	1123.0	1133.3	1145.1	1161.3	1177.4	1161.3
35°	132.8	366.7	600.7	803.1	995.1	1099.2	1115.4	1135.1	1164.9	1194.8	1164.9
37.5°	120.2	343.1	565.9	766.3	959.2	1072.6	1106.7	1139.4	1168.2	1196.9	1168.2
40°	112.9	326.5	540.2	739.1	933.0	1052.7	1098.1	1138.3	1162.7	1187.2	1162.7
42.5°	105.6	307.8	510.1	707.3	902.9	1027.2	1080.2	1126.1	1150.5	1175.0	1150.5
45°	96.1	277.9	459.6	655.1	855.2	986.4	1048.8	1101.4	1124.4	1147.5	1124.4
47.5°	87.3	245.2	403.0	599.4	808.5	946.2	1012.4	1066.2	1083.1	1099.9	1083.1
50°	82.4	223.5	364.5	561.5	777.2	917.6	982.7	1034.9	1048.5	1062.0	1048.5
52.5°	77.5	202.3	327.1	524.5	746.1	887.6	948.9	998.0	1010.5	1023.0	1010.5
55°	71.7	173.4	275.2	470.5	697.0	837.0	890.6	933.5	944.4	955.2	944.4
57.5°	66.5	148.6	230.7	419.8	644.7	780.0	825.7	862.2	871.0	879.8	871.0
60°	64.1	135.3	206.5	388.1	606.5	736.3	777.7	810.9	819.8	828.6	819.8
62.5°	60.4	122.4	184.4	356.4	565.0	688.3	726.4	757.1	765.4	773.6	765.4
65°	56.5	106.6	156.8	311.8	501.7	612.6	644.4	669.7	675.1	680.6	675.1
67.5°	51.0	93.6	136.1	271.0	436.6	529.3	549.1	561.4	551.3	541.1	551.3
70°	47.3	86.6	126.0	246.2	393.3	470.3	477.1	474.9	445.7	416.6	445.7
72.5°	44.9	79.9	114.9	218.9	346.0	402.1	387.2	362.2	307.0	251.8	307.0
75°	39.7	68.2	96.6	175.0	269.9	284.8	219.7	171.2	172.6	174.0	172.6
77.5°	32.3	53.6	74.9	123.1	180.2	191.5	157.1	131.5	132.8	134.0	132.8
80°	27.5	44.4	61.4	80.4	100.0	109.2	107.8	107.0	107.7	108.3	107.7
82.5°	22.6	35.2	47.8	59.2	70.2	76.4	77.7	78.5	77.6	76.6	77.6
85°	13.7	21.2	28.7	33.1	36.5	35.4	30.0	25.6	24.2	22.9	24.2
87.5°	5.7	9.6	13.7	13.9	12.6	11.8	11.8	12.0	12.3	12.3	12.3
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°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	360.9	354.4	346.8	339.8	333.3	326.9	320.9	314.9	320.9	326.9	333.3
5°	524.7	489.3	447.9	411.0	378.4	348.9	328.6	308.2	328.6	348.9	378.4
7.5°	879.8	787.8	676.8	569.8	466.7	379.1	337.7	296.3	337.7	379.1	466.7
10°	1039.3	962.3	866.0	728.4	549.3	400.6	343.0	285.3	343.0	400.6	549.3
12.5°	1098.0	1042.5	975.0	831.9	613.2	429.7	351.4	273.1	351.4	429.7	613.2
15°	1172.7	1126.1	1071.2	924.0	684.6	477.1	365.2	253.3	365.2	477.1	684.6
17.5°	1216.7	1172.9	1118.5	975.0	742.4	530.7	381.8	232.9	381.8	530.7	742.4
20°	1224.1	1187.2	1140.4	1004.7	780.2	568.1	393.2	218.2	393.2	568.1	780.2
22.5°	1216.9	1188.4	1153.0	1026.3	808.3	596.0	400.4	204.8	400.4	596.0	808.3
25°	1203.8	1185.6	1163.3	1047.6	838.7	627.0	406.6	186.2	406.6	627.0	838.7
27.5°	1179.0	1166.7	1152.1	1044.2	843.0	633.9	401.0	168.2	401.0	633.9	843.0
30°	1160.0	1150.0	1139.2	1035.1	837.7	630.5	393.9	157.2	393.9	630.5	837.7
32.5°	1145.1	1133.3	1123.0	1021.1	827.6	622.9	385.2	147.4	385.2	622.9	827.6
35°	1135.1	1115.4	1099.2	995.1	803.1	600.7	366.7	132.8	366.7	600.7	803.1
37.5°	1139.4	1106.7	1072.6	959.2	766.3	565.9	343.1	120.2	343.1	565.9	766.3
40°	1138.3	1098.1	1052.7	933.0	739.1	540.2	326.5	112.9	326.5	540.2	739.1
42.5°	1126.1	1080.2	1027.2	902.9	707.3	510.1	307.8	105.6	307.8	510.1	707.3
45°	1101.4	1048.8	986.4	855.2	655.1	459.6	277.9	96.1	277.9	459.6	655.1
47.5°	1066.2	1012.4	946.2	808.5	599.4	403.0	245.2	87.3	245.2	403.0	599.4
50°	1034.9	982.7	917.6	777.2	561.5	364.5	223.5	82.4	223.5	364.5	561.5
52.5°	998.0	948.9	887.6	746.1	524.5	327.1	202.3	77.5	202.3	327.1	524.5
55°	933.5	890.6	837.0	697.0	470.5	275.2	173.4	71.7	173.4	275.2	470.5
57.5°	862.2	825.7	780.0	644.7	419.8	230.7	148.6	66.5	148.6	230.7	419.8
60°	810.9	777.7	736.3	606.5	388.1	206.5	135.3	64.1	135.3	206.5	388.1
62.5°	757.1	726.4	688.3	565.0	356.4	184.4	122.4	60.4	122.4	184.4	356.4
65°	669.7	644.4	612.6	501.7	311.8	156.8	106.6	56.5	106.6	156.8	311.8
67.5°	561.4	549.1	529.3	436.6	271.0	136.1	93.6	51.0	93.6	136.1	271.0
70°	474.9	477.1	470.3	393.3	246.2	126.0	86.6	47.3	86.6	126.0	246.2
72.5°	362.2	387.2	402.1	346.0	218.9	114.9	79.9	44.9	79.9	114.9	218.9
75°	171.2	219.7	284.8	269.9	175.0	96.6	68.2	39.7	68.2	96.6	175.0
77.5°	131.5	157.1	191.5	180.2	123.1	74.9	53.6	32.3	53.6	74.9	123.1
80°	107.0	107.8	109.2	100.0	80.4	61.4	44.4	27.5	44.4	61.4	80.4
82.5°	78.5	77.7	76.4	70.2	59.2	47.8	35.2	22.6	35.2	47.8	59.2
85°	25.6	30.0	35.4	36.5	33.1	28.7	21.2	13.7	21.2	28.7	33.1
87.5°	12.0	11.8	11.8	12.6	13.9	13.7	9.6	5.7	9.6	13.4	14.5
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: P1435990

CATALOG NUMBER: SQ2W-FB-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: P1435990

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	339.8	346.8	354.4	360.9	364.2	367.4	364.2	360.9	354.4	346.8	339.8
5°	411.0	447.9	489.3	524.7	542.4	560.0	542.4	524.7	489.3	447.9	411.0
7.5°	569.8	676.8	787.8	879.8	915.1	950.3	915.1	879.8	787.8	676.8	569.8
10°	728.4	866.0	962.3	1039.3	1058.3	1077.3	1058.3	1039.3	962.3	866.0	728.4
12.5°	831.9	975.0	1042.5	1098.0	1117.6	1137.1	1117.6	1098.0	1042.5	975.0	831.9
15°	924.0	1071.2	1126.1	1172.7	1194.5	1216.2	1194.5	1172.7	1126.1	1071.2	924.0
17.5°	975.0	1118.5	1172.9	1216.7	1228.5	1240.3	1228.5	1216.7	1172.9	1118.5	975.0
20°	1004.7	1140.4	1187.2	1224.1	1231.6	1239.0	1231.6	1224.1	1187.2	1140.4	1004.7
22.5°	1026.3	1153.0	1188.4	1216.9	1224.9	1232.9	1224.9	1216.9	1188.4	1153.0	1026.3
25°	1047.6	1163.3	1185.6	1203.8	1209.2	1214.6	1209.2	1203.8	1185.6	1163.3	1047.6
27.5°	1044.2	1152.1	1166.7	1179.0	1184.3	1189.6	1184.3	1179.0	1166.7	1152.1	1044.2
30°	1035.1	1139.2	1150.0	1160.0	1167.5	1175.0	1167.5	1160.0	1150.0	1139.2	1035.1
32.5°	1021.1	1123.0	1133.3	1145.1	1161.3	1177.4	1161.3	1145.1	1133.3	1123.0	1021.1
35°	995.1	1099.2	1115.4	1135.1	1164.9	1194.8	1164.9	1135.1	1115.4	1099.2	995.1
37.5°	959.2	1072.6	1106.7	1139.4	1168.2	1196.9	1168.2	1139.4	1106.7	1072.6	959.2
40°	933.0	1052.7	1098.1	1138.3	1162.7	1187.2	1162.7	1138.3	1098.1	1052.7	933.0
42.5°	902.9	1027.2	1080.2	1126.1	1150.5	1175.0	1150.5	1126.1	1080.2	1027.2	902.9
45°	855.2	986.4	1048.8	1101.4	1124.4	1147.5	1124.4	1101.4	1048.8	986.4	855.2
47.5°	808.5	946.2	1012.4	1066.2	1083.1	1099.9	1083.1	1066.2	1012.4	946.2	808.5
50°	777.2	917.6	982.7	1034.9	1048.5	1062.0	1048.5	1034.9	982.7	917.6	777.2
52.5°	746.1	887.6	948.9	998.0	1010.5	1023.0	1010.5	998.0	948.9	887.6	746.1
55°	697.0	837.0	890.6	933.5	944.4	955.2	944.4	890.6	837.0	697.0	697.0
57.5°	644.7	780.0	825.7	862.2	871.0	879.8	871.0	862.2	825.7	780.0	644.7
60°	606.5	736.3	777.7	810.9	819.8	828.6	819.8	810.9	777.7	736.3	606.5
62.5°	565.0	688.3	726.4	757.1	765.4	773.6	765.4	757.1	726.4	688.3	565.0
65°	501.7	612.6	644.4	669.7	675.1	680.6	675.1	669.7	644.4	612.6	501.7
67.5°	436.6	529.3	549.1	561.4	551.3	541.1	551.3	561.4	549.1	529.3	436.6
70°	393.3	470.3	477.1	474.9	445.7	416.6	445.7	474.9	477.1	470.3	393.3
72.5°	346.0	402.1	387.2	362.2	307.0	251.8	307.0	362.2	387.2	402.1	346.0
75°	269.9	284.8	219.7	171.2	172.6	174.0	172.6	219.7	284.8	269.9	269.9
77.5°	180.2	191.5	157.1	131.5	132.8	134.0	132.8	157.1	191.5	180.2	180.2
80°	100.0	109.2	107.8	107.0	107.7	108.3	107.7	107.0	107.8	109.2	100.0
82.5°	70.2	76.4	77.7	78.5	77.6	76.6	77.6	78.5	77.7	76.4	70.2
85°	36.5	35.4	30.0	25.6	24.2	22.9	24.2	25.6	30.0	35.4	36.5
87.5°	13.7	14.6	16.6	17.7	18.8	18.3	18.8	17.7	16.6	14.6	13.7
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	171.2	151.4	131.6	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	524.9	495.2	465.5	465.5



TEST NUMBER: P1435990

CATALOG NUMBER: SQ2W-FB-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: P1435990

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	317.4	317.4	317.4	317.4
2.5°	333.3	326.9	320.9	314.9
5°	378.4	348.9	328.6	308.2
7.5°	466.7	379.1	337.7	296.3
10°	549.3	400.6	343.0	285.3
12.5°	613.2	429.7	351.4	273.1
15°	684.6	477.1	365.2	253.3
17.5°	742.4	530.7	381.8	232.9
20°	780.2	568.1	393.2	218.2
22.5°	808.3	596.0	400.4	204.8
25°	838.7	627.0	406.6	186.2
27.5°	843.0	633.9	401.0	168.2
30°	837.7	630.5	393.9	157.2
32.5°	827.6	622.9	385.2	147.4
35°	803.1	600.7	366.7	132.8
37.5°	766.3	565.9	343.1	120.2
40°	739.1	540.2	326.5	112.9
42.5°	707.3	510.1	307.8	105.6
45°	655.1	459.6	277.9	96.1
47.5°	599.4	403.0	245.2	87.3
50°	561.5	364.5	223.5	82.4
52.5°	524.5	327.1	202.3	77.5
55°	470.5	275.2	173.4	71.7
57.5°	419.8	230.7	148.6	66.5
60°	388.1	206.5	135.3	64.1
62.5°	356.4	184.4	122.4	60.4
65°	311.8	156.8	106.6	56.5
67.5°	271.0	136.1	93.6	51.0
70°	246.2	126.0	86.6	47.3
72.5°	218.9	114.9	79.9	44.9
75°	175.0	96.6	68.2	39.7
77.5°	123.1	74.9	53.6	32.3
80°	80.4	61.4	44.4	27.5
82.5°	59.2	47.8	35.2	22.6
85°	33.1	28.7	21.2	13.7
87.5°	14.5	13.4	9.6	5.7
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: P1435990

CATALOG NUMBER: SQ2W-FB-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: P1435990  
 CATALOG NUMBER: SQ2W-FB-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	11.22	12.05	12.22	13.07	14.43	20.81	21.64	21.82	22.66	24.02
	3H	12.15	12.90	13.17	13.92	15.30	22.42	23.16	23.43	24.19	25.57
	4H	12.55	13.25	13.58	14.29	15.67	22.59	23.29	23.62	24.33	25.71
	6H	12.80	13.45	13.84	14.49	15.89	22.67	23.31	23.71	24.35	25.75
	8H	12.89	13.51	13.94	14.56	15.96	22.68	23.30	23.73	24.35	25.75
	12H	12.94	13.53	13.99	14.57	15.99	22.66	23.24	23.71	24.29	25.71
4H	2H	15.93	16.64	16.97	17.67	19.05	21.17	21.88	22.21	22.91	24.30
	3H	17.06	17.64	18.10	18.70	20.11	23.06	23.65	24.10	24.70	26.11
	4H	17.34	17.87	18.39	18.93	20.35	23.28	23.82	24.33	24.87	26.29
	6H	17.47	17.93	18.53	19.01	20.42	23.41	23.87	24.47	24.94	26.36
	8H	17.51	17.94	18.57	19.01	20.44	23.45	23.88	24.52	24.95	26.38
	12H	17.51	17.90	18.59	18.98	20.42	23.43	23.82	24.51	24.90	26.34
8H	4H	18.53	18.96	19.59	20.03	21.46	23.37	23.80	24.43	24.86	26.30
	6H	18.78	19.14	19.87	20.25	21.68	23.56	23.92	24.65	25.03	26.46
	8H	18.88	19.19	19.98	20.29	21.74	23.65	23.96	24.75	25.06	26.51
	12H	18.92	19.20	20.02	20.28	21.77	23.66	23.93	24.75	25.02	26.51
12H	4H	18.55	18.94	19.63	20.02	21.46	23.32	23.71	24.40	24.79	26.23
	6H	18.89	19.20	19.98	20.29	21.75	23.55	23.86	24.64	24.95	26.40
	8H	19.03	19.30	20.12	20.39	21.88	23.64	23.92	24.74	25.01	26.50