

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: P1427899

Luminaire Tested: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427899  
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-075U-075D-L840-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 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

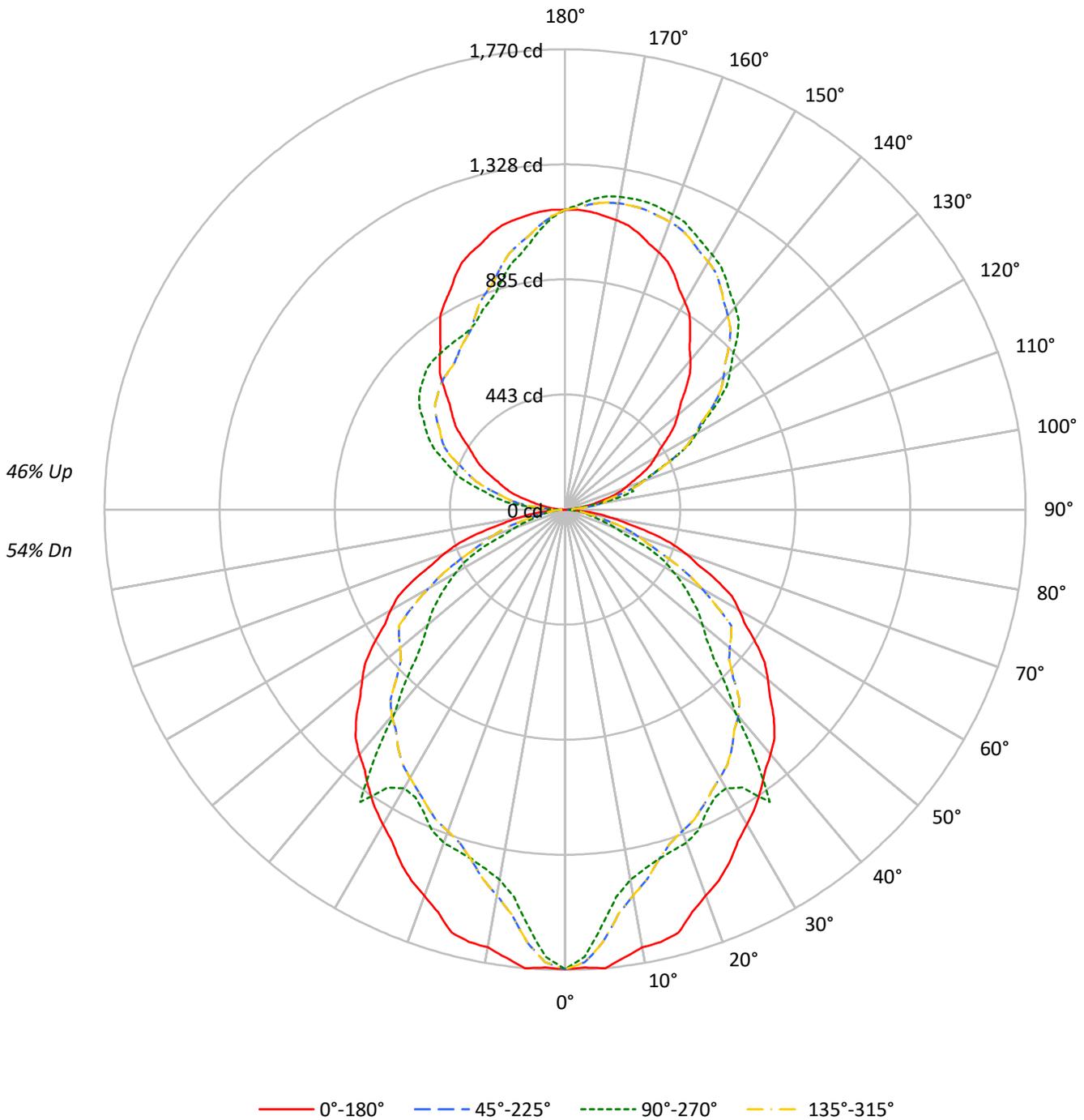
Lumens per Lamp: N/A  
Luminaire Lumens: 7276.8 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 50.3  
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

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CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54				
1	99	95	91	87	92	88	85	82	75	73	71	64	62	60	53	52	51	46				
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39				
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	42	39	37	33				
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28				
5	69	58	49	43	64	54	47	41	47	41	37	40	35	32	34	30	28	25				
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22				
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17				
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15				
10	48	36	28	24	44	33	27	22	29	24	20	26	21	18	22	18	16	14				

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

	0°	90°	180°	270°
0°	28528	28528	28528	28528
5°	28692	26076	28692	26076
10°	28032	23703	28032	23703
15°	28157	23239	28157	23239
20°	27152	23426	27152	23426
25°	26656	22881	26656	22881
30°	26076	23069	26076	23069
35°	25879	27038	25879	27038
40°	25901	21437	25901	21437
45°	25911	18463	25911	18463
50°	25548	17314	25548	17314
55°	25224	16611	25224	16611
60°	24971	15580	24971	15580
65°	24534	13551	24534	13551
70°	23174	9682	23174	9682
75°	20661	7342	20661	7342
80°	16885	6880	16885	6880
85°	10596	4668	10596	4668

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25911 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	2.1
10°-20°	409.0	5.6
20°-30°	599.6	8.2
30°-40°	726.0	10.0
40°-50°	713.9	9.8
50°-60°	621.0	8.5
60°-70°	431.9	5.9
70°-80°	204.8	2.8
80°-90°	49.9	0.7
90°-100°	91.7	1.3
100°-110°	267.5	3.7
110°-120°	436.5	6.0
120°-130°	553.9	7.6
130°-140°	592.7	8.1
140°-150°	553.5	7.6
150°-160°	455.4	6.3
160°-170°	305.4	4.2
170°-180°	108.5	1.5
0°-30°	1164.0	16.0
0°-40°	1890.0	26.0
0°-60°	3224.9	44.3
0°-90°	3911.6	53.8
90°-120°	795.8	10.9
90°-150°	2495.9	34.3
90°-180°	3365.0	46.2
0°-180°	7276.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	1770	1609	1770	1609	1770	166
15°	1684	1390	1684	1390	1684	470
25°	1496	1284	1496	1284	1496	688
35°	1313	1372	1313	1372	1313	822
45°	1135	809	1135	809	1135	872
55°	896	590	896	590	896	800
65°	642	355	642	355	642	631
75°	331	118	331	118	331	351
85°	57	25	57	25	57	77
90°	4	26	4	50	4	4
95°	36	27	36	157	36	44
105°	170	272	170	375	170	181
115°	326	452	326	556	326	321
125°	482	716	482	682	482	431
135°	655	937	655	756	655	506
145°	837	1080	837	772	837	524
155°	994	1174	994	801	994	457
165°	1099	1224	1099	922	1099	309
175°	1149	1198	1149	1082	1149	109
180°	1153	1153	1153	1153	1153	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1762.9	1771.3	1779.6	1767.8	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4
5°	1770.3	1769.5	1768.8	1733.9	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4
7.5°	1738.0	1714.8	1691.7	1644.8	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5
10°	1709.8	1674.6	1639.5	1586.5	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8
12.5°	1703.0	1647.6	1592.2	1534.0	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3
15°	1684.5	1600.9	1517.2	1458.1	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1
17.5°	1623.4	1533.2	1443.1	1391.2	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0
20°	1580.3	1491.4	1402.5	1354.5	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5
22.5°	1544.0	1453.9	1363.8	1321.3	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8
25°	1496.3	1394.6	1293.0	1262.0	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7
27.5°	1439.1	1333.0	1226.9	1207.0	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4
30°	1398.7	1292.6	1186.5	1170.7	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6
32.5°	1359.7	1250.1	1140.4	1129.0	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7
35°	1313.0	1198.7	1084.4	1075.4	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6
37.5°	1263.9	1141.4	1018.8	1014.8	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7
40°	1228.9	1100.4	971.9	971.7	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9
42.5°	1191.3	1062.8	934.3	930.5	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1
45°	1134.8	1001.1	867.3	862.4	900.6	927.5	943.1	938.7	873.7	808.6	873.7
47.5°	1068.2	940.8	813.3	812.2	853.3	856.3	821.2	788.5	763.1	737.7	763.1
50°	1017.1	896.8	776.5	781.8	828.8	824.3	768.3	722.2	705.7	689.3	705.7
52.5°	967.4	853.0	738.7	752.6	809.2	800.3	725.7	667.0	656.0	644.9	656.0
55°	896.1	786.2	676.4	707.8	786.2	774.3	671.9	594.6	592.3	590.1	592.3
57.5°	820.4	716.6	612.7	634.5	698.1	685.6	596.8	531.2	535.1	539.0	535.1
60°	773.3	672.5	571.6	574.4	611.8	599.8	538.5	491.5	487.0	482.5	487.0
62.5°	723.6	627.5	531.4	517.5	530.9	516.9	475.3	443.0	438.6	434.1	438.6
65°	642.2	554.8	467.4	441.0	435.1	414.9	380.5	354.7	354.7	354.7	354.7
67.5°	552.8	476.6	400.3	370.9	357.0	336.9	310.8	286.7	268.8	250.8	268.8
70°	490.9	423.7	356.4	325.6	306.9	283.0	253.9	229.0	217.1	205.1	217.1
72.5°	425.0	367.3	309.6	278.1	255.2	231.9	208.1	186.9	173.1	159.4	173.1
75°	331.2	284.9	238.5	207.9	182.5	159.0	137.3	120.7	119.2	117.7	119.2
77.5°	239.4	205.6	171.9	147.0	125.2	108.9	98.0	89.8	90.0	90.1	90.0
80°	181.6	156.2	130.8	107.6	85.2	73.6	72.9	72.5	73.2	74.0	73.2
82.5°	127.8	108.9	90.1	75.3	61.9	55.7	56.7	57.5	57.7	57.8	57.7
85°	57.2	48.2	39.2	35.9	34.4	32.1	29.1	26.7	26.0	25.2	26.0
87.5°	12.8	13.1	13.7	13.1	12.0	11.4	11.4	11.6	11.8	11.8	11.8
90°	3.5	8.1	14.0	18.6	22.1	23.3	23.3	24.4	25.6	25.6	25.6
92.5°	12.8	20.3	20.5	20.5	24.9	27.0	28.9	29.1	30.3	30.3	30.3
95°	36.1	39.6	59.4	58.2	39.6	31.4	26.8	26.8	26.8	26.8	26.8
97.5°	68.9	74.0	77.3	103.6	109.4	105.7	86.2	72.4	64.7	61.2	64.7
100°	97.8	100.1	107.1	108.3	137.4	165.3	151.3	133.9	128.1	124.6	128.1
102.5°	126.7	128.1	138.8	143.7	150.4	166.2	214.7	209.3	205.4	204.7	205.4
105°	170.0	171.1	190.9	200.2	204.9	204.9	203.7	227.0	264.3	272.4	264.3
107.5°	216.3	221.7	244.9	269.9	275.2	276.6	270.6	267.1	265.7	266.6	265.7
110°	248.0	256.1	284.1	315.5	323.6	326.0	323.6	320.2	317.8	317.8	317.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	278.7	290.6	322.3	358.3	372.1	379.1	373.9	371.4	369.1	370.9	369.1
115°	326.0	343.4	385.4	422.6	450.5	454.0	452.9	452.9	451.7	451.7	451.7
117.5°	369.7	397.7	444.7	488.0	520.4	529.7	534.4	533.0	531.6	533.9	531.6
120°	400.5	433.1	486.6	535.5	567.0	580.9	585.6	583.3	585.6	583.3	585.6
122.5°	433.1	473.1	525.8	576.5	613.5	629.4	635.0	635.4	635.9	634.5	635.9
125°	482.0	530.9	592.6	645.0	683.4	702.0	706.7	707.8	710.2	716.0	710.2
127.5°	531.3	586.8	654.5	705.0	744.4	767.0	774.2	776.8	781.6	784.2	781.6
130°	565.8	628.7	697.4	745.1	783.5	808.0	820.8	824.3	830.1	828.9	830.1
132.5°	602.1	667.8	737.4	787.0	822.6	848.9	859.9	869.9	872.0	873.6	872.0
135°	655.4	726.5	796.3	845.2	879.0	904.6	918.6	927.9	933.7	937.2	933.7
137.5°	711.6	786.5	853.6	897.1	931.1	953.2	969.1	978.9	984.9	987.7	984.9
140°	749.7	821.9	887.1	932.5	962.8	984.9	998.9	1010.5	1017.5	1017.5	1017.5
142.5°	786.1	857.3	920.6	966.1	992.6	1012.9	1027.8	1036.6	1044.5	1044.5	1044.5
145°	837.1	908.1	966.3	1011.7	1033.8	1052.4	1068.7	1075.7	1080.4	1080.4	1080.4
147.5°	890.4	953.2	1006.3	1049.9	1068.5	1090.4	1103.2	1108.8	1114.6	1112.0	1114.6
150°	922.0	980.3	1031.5	1072.2	1090.9	1111.8	1124.6	1129.3	1135.1	1131.6	1135.1
152.5°	952.8	1008.2	1054.8	1092.7	1108.6	1129.5	1144.2	1148.8	1152.8	1150.2	1152.8
155°	994.2	1043.1	1086.2	1121.1	1135.1	1154.9	1168.9	1174.7	1179.3	1173.5	1179.3
157.5°	1031.2	1073.4	1110.9	1143.0	1157.9	1174.9	1187.9	1195.2	1199.8	1197.3	1199.8
160°	1053.6	1092.0	1125.8	1156.1	1170.0	1185.2	1199.1	1207.3	1211.9	1208.4	1211.9
162.5°	1072.2	1106.9	1138.8	1166.3	1178.4	1191.7	1208.4	1215.7	1220.3	1215.9	1220.3
165°	1099.0	1126.9	1154.9	1178.2	1188.6	1199.1	1216.6	1224.7	1228.2	1223.6	1228.2
167.5°	1119.3	1140.7	1163.3	1183.3	1191.0	1201.2	1218.7	1225.4	1229.9	1224.0	1229.9
170°	1130.4	1149.1	1168.9	1185.2	1191.0	1200.3	1217.8	1223.6	1227.1	1221.2	1227.1
172.5°	1139.8	1153.7	1169.8	1184.2	1187.3	1194.7	1211.2	1217.1	1219.6	1214.7	1219.6
175°	1149.1	1157.2	1168.9	1178.2	1177.0	1181.7	1195.6	1200.3	1204.9	1198.0	1204.9
177.5°	1153.5	1157.2	1160.9	1166.5	1162.8	1162.8	1173.0	1175.8	1176.8	1173.0	1176.8
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1723.6	1729.3	1736.4	1749.3	1767.8	1779.6	1771.3	1762.9	1771.3	1779.6	1767.8
5°	1611.9	1629.6	1652.8	1687.5	1733.9	1768.8	1769.5	1770.3	1769.5	1768.8	1733.9
7.5°	1504.7	1524.2	1549.7	1589.9	1644.8	1691.7	1714.8	1738.0	1714.8	1691.7	1644.8
10°	1445.8	1463.2	1486.4	1527.4	1586.5	1639.5	1674.6	1709.8	1674.6	1639.5	1586.5
12.5°	1407.7	1419.7	1436.9	1475.0	1534.0	1592.2	1647.6	1703.0	1647.6	1592.2	1534.0
15°	1373.9	1375.2	1379.7	1407.3	1458.1	1517.2	1600.9	1684.5	1600.9	1517.2	1458.1
17.5°	1356.4	1346.9	1337.3	1352.1	1391.2	1443.1	1533.2	1623.4	1533.2	1443.1	1391.2
20°	1345.5	1329.8	1311.9	1320.1	1354.5	1402.5	1491.4	1580.3	1491.4	1402.5	1354.5
22.5°	1327.0	1311.0	1291.3	1294.7	1321.3	1363.8	1453.9	1544.0	1453.9	1363.8	1321.3
25°	1288.9	1276.6	1259.4	1254.5	1262.0	1293.0	1394.6	1496.3	1394.6	1293.0	1262.0
27.5°	1244.1	1235.9	1225.4	1215.8	1207.0	1226.9	1333.0	1439.1	1333.0	1226.9	1207.0
30°	1217.9	1207.7	1197.2	1184.9	1170.7	1186.5	1292.6	1398.7	1292.6	1186.5	1170.7
32.5°	1222.4	1198.2	1173.4	1150.3	1129.0	1140.4	1250.1	1359.7	1250.1	1140.4	1129.0
35°	1225.4	1176.3	1135.2	1101.5	1075.4	1084.4	1198.7	1313.0	1198.7	1084.4	1075.4
37.5°	1153.4	1121.0	1085.6	1050.2	1014.8	1018.8	1141.4	1263.9	1141.4	1018.8	1014.8
40°	1124.7	1104.0	1058.4	1014.3	971.7	971.9	1100.4	1228.9	1100.4	971.9	971.7
42.5°	1098.0	1076.2	1016.9	968.3	930.5	934.3	1062.8	1191.3	1062.8	934.3	930.5
45°	938.7	943.1	927.5	900.6	862.4	867.3	1001.1	1134.8	1001.1	867.3	862.4
47.5°	788.5	821.2	856.3	853.3	812.2	813.3	940.8	1068.2	940.8	813.3	812.2
50°	722.2	768.3	824.3	828.8	781.8	776.5	896.8	1017.1	896.8	776.5	781.8
52.5°	667.0	725.7	800.3	809.2	752.6	738.7	853.0	967.4	853.0	738.7	752.6
55°	594.6	671.9	774.3	786.2	707.8	676.4	786.2	896.1	786.2	676.4	707.8
57.5°	531.2	596.8	685.6	698.1	634.5	612.7	716.6	820.4	716.6	612.7	634.5
60°	491.5	538.5	599.8	611.8	574.4	571.6	672.5	773.3	672.5	571.6	574.4
62.5°	443.0	475.3	516.9	530.9	517.5	531.4	627.5	723.6	627.5	531.4	517.5
65°	354.7	380.5	414.9	435.1	441.0	467.4	554.8	642.2	554.8	467.4	441.0
67.5°	286.7	310.8	336.9	357.0	370.9	400.3	476.6	552.8	476.6	400.3	370.9
70°	229.0	253.9	283.0	306.9	325.6	356.4	423.7	490.9	423.7	356.4	325.6
72.5°	186.9	208.1	231.9	255.2	278.1	309.6	367.3	425.0	367.3	309.6	278.1
75°	120.7	137.3	159.0	182.5	207.9	238.5	284.9	331.2	284.9	238.5	207.9
77.5°	89.8	98.0	108.9	125.2	147.0	171.9	205.6	239.4	205.6	171.9	147.0
80°	72.5	72.9	73.6	85.2	107.6	130.8	156.2	181.6	156.2	130.8	107.6
82.5°	57.5	56.7	55.7	61.9	75.3	90.1	108.9	127.8	108.9	90.1	75.3
85°	26.7	29.1	32.1	34.4	35.9	39.2	48.2	57.2	48.2	39.2	35.9
87.5°	11.6	11.4	11.4	12.0	13.1	13.7	13.1	12.8	13.1	13.5	13.6
90°	24.4	23.3	23.3	22.1	18.6	14.0	8.1	3.5	8.1	12.8	21.0
92.5°	29.1	28.9	27.0	24.9	20.5	20.5	20.3	12.8	22.1	31.4	45.2
95°	26.8	26.8	31.4	39.6	58.2	59.4	39.6	36.1	51.2	72.2	90.8
97.5°	72.4	86.2	105.7	109.4	103.6	77.3	74.0	68.9	93.8	114.6	144.6
100°	133.9	151.3	165.3	137.4	108.3	107.1	100.1	97.8	124.6	144.4	173.5
102.5°	209.3	214.7	166.2	150.4	143.7	138.8	128.1	126.7	153.4	180.7	205.1
105°	227.0	203.7	204.9	204.9	200.2	190.9	171.1	170.0	200.2	231.7	261.9
107.5°	267.1	270.6	276.6	275.2	269.9	244.9	221.7	216.3	243.6	281.3	314.6
110°	320.2	323.6	326.0	323.6	315.5	284.1	256.1	248.0	272.4	312.0	348.1



TEST NUMBER: P1427899

CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	371.4	373.9	379.1	372.1	358.3	322.3	290.6	278.7	303.2	343.7	380.7
115°	452.9	452.9	454.0	450.5	422.6	385.4	343.4	326.0	346.9	384.2	424.9
117.5°	533.0	534.4	529.7	520.4	488.0	444.7	397.7	369.7	386.3	425.6	467.5
120°	583.3	585.6	580.9	567.0	535.5	486.6	433.1	400.5	413.3	451.7	493.6
122.5°	635.4	635.0	629.4	613.5	576.5	525.8	473.1	433.1	438.4	474.1	515.0
125°	707.8	706.7	702.0	683.4	645.0	592.6	530.9	482.0	475.0	505.3	547.2
127.5°	776.8	774.2	767.0	744.4	705.0	654.5	586.8	531.3	515.7	534.8	573.3
130°	824.3	820.8	808.0	783.5	745.1	697.4	628.7	565.8	543.7	555.3	589.1
132.5°	869.9	859.9	848.9	822.6	787.0	737.4	667.8	602.1	571.6	576.7	603.1
135°	927.9	918.6	904.6	879.0	845.2	796.3	726.5	655.4	613.5	608.9	624.0
137.5°	978.9	969.1	953.2	931.1	897.1	853.6	786.5	711.6	658.7	643.1	648.9
140°	1010.5	998.9	984.9	962.8	932.5	887.1	821.9	749.7	690.4	668.3	664.8
142.5°	1036.6	1027.8	1012.9	992.6	966.1	920.6	857.3	786.1	723.0	694.3	686.2
145°	1075.7	1068.7	1052.4	1033.8	1011.7	966.3	908.1	837.1	774.2	736.9	719.5
147.5°	1108.8	1103.2	1090.4	1068.5	1049.9	1006.3	953.2	890.4	825.9	779.8	757.2
150°	1129.3	1124.6	1111.8	1090.9	1072.2	1031.5	980.3	922.0	860.3	811.4	782.3
152.5°	1148.8	1144.2	1129.5	1108.6	1092.7	1054.8	1008.2	952.8	890.1	841.3	811.2
155°	1174.7	1168.9	1154.9	1135.1	1121.1	1086.2	1043.1	994.2	940.7	889.4	855.7
157.5°	1195.2	1187.9	1174.9	1157.9	1143.0	1110.9	1073.4	1031.2	984.4	935.6	901.1
160°	1207.3	1199.1	1185.2	1170.0	1156.1	1125.8	1092.0	1053.6	1010.5	966.3	929.0
162.5°	1215.7	1208.4	1191.7	1178.4	1166.3	1138.8	1106.9	1072.2	1033.8	995.2	960.7
165°	1224.7	1216.6	1199.1	1188.6	1178.2	1154.9	1126.9	1099.0	1066.4	1035.0	1007.0
167.5°	1225.4	1218.7	1201.2	1191.0	1183.3	1163.3	1140.7	1119.3	1093.9	1069.2	1045.9
170°	1223.6	1217.8	1200.3	1191.0	1185.2	1168.9	1149.1	1130.4	1110.6	1089.7	1071.1
172.5°	1217.1	1211.2	1194.7	1187.3	1184.2	1169.8	1153.7	1139.8	1122.8	1107.4	1092.5
175°	1200.3	1195.6	1181.7	1177.0	1178.2	1168.9	1157.2	1149.1	1138.6	1129.3	1121.1
177.5°	1175.8	1173.0	1162.8	1162.8	1166.5	1160.9	1157.2	1153.5	1148.8	1146.0	1143.2
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1427899

CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4	1723.6	1729.3	1736.4	1749.3
5°	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4	1611.9	1629.6	1652.8	1687.5
7.5°	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5	1504.7	1524.2	1549.7	1589.9
10°	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8	1445.8	1463.2	1486.4	1527.4
12.5°	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3	1407.7	1419.7	1436.9	1475.0
15°	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1	1373.9	1375.2	1379.7	1407.3
17.5°	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0	1356.4	1346.9	1337.3	1352.1
20°	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5	1345.5	1329.8	1311.9	1320.1
22.5°	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8	1327.0	1311.0	1291.3	1294.7
25°	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7	1288.9	1276.6	1259.4	1254.5
27.5°	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4	1244.1	1235.9	1225.4	1215.8
30°	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6	1217.9	1207.7	1197.2	1184.9
32.5°	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7	1222.4	1198.2	1173.4	1150.3
35°	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6	1225.4	1176.3	1135.2	1101.5
37.5°	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7	1153.4	1121.0	1085.6	1050.2
40°	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9	1124.7	1104.0	1058.4	1014.3
42.5°	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1	1098.0	1076.2	1016.9	968.3
45°	900.6	927.5	943.1	938.7	873.7	808.6	873.7	938.7	943.1	927.5	900.6
47.5°	853.3	856.3	821.2	788.5	763.1	737.7	763.1	788.5	821.2	856.3	853.3
50°	828.8	824.3	768.3	722.2	705.7	689.3	705.7	722.2	768.3	824.3	828.8
52.5°	809.2	800.3	725.7	667.0	656.0	644.9	656.0	667.0	725.7	800.3	809.2
55°	786.2	774.3	671.9	594.6	592.3	590.1	592.3	594.6	671.9	774.3	786.2
57.5°	698.1	685.6	596.8	531.2	535.1	539.0	535.1	531.2	596.8	685.6	698.1
60°	611.8	599.8	538.5	491.5	487.0	482.5	487.0	491.5	538.5	599.8	611.8
62.5°	530.9	516.9	475.3	443.0	438.6	434.1	438.6	443.0	475.3	516.9	530.9
65°	435.1	414.9	380.5	354.7	354.7	354.7	354.7	380.5	414.9	435.1	435.1
67.5°	357.0	336.9	310.8	286.7	268.8	250.8	268.8	286.7	310.8	336.9	357.0
70°	306.9	283.0	253.9	229.0	217.1	205.1	217.1	229.0	253.9	283.0	306.9
72.5°	255.2	231.9	208.1	186.9	173.1	159.4	173.1	186.9	208.1	231.9	255.2
75°	182.5	159.0	137.3	120.7	119.2	117.7	119.2	120.7	137.3	159.0	182.5
77.5°	125.2	108.9	98.0	89.8	90.0	90.1	90.0	89.8	98.0	108.9	125.2
80°	85.2	73.6	72.9	72.5	73.2	74.0	73.2	72.5	72.9	73.6	85.2
82.5°	61.9	55.7	56.7	57.5	57.7	57.8	57.7	57.5	56.7	55.7	61.9
85°	34.4	32.1	29.1	26.7	26.0	25.2	26.0	26.7	29.1	32.1	34.4
87.5°	13.0	13.7	15.3	16.3	17.2	16.7	17.2	16.3	15.3	13.7	13.0
90°	26.8	34.9	43.1	47.7	52.4	50.1	52.4	47.7	43.1	34.9	26.8
92.5°	53.8	67.5	77.5	85.9	89.6	89.2	89.6	85.9	77.5	67.5	53.8
95°	108.3	124.6	140.9	152.5	159.5	157.2	159.5	152.5	140.9	124.6	108.3
97.5°	166.9	188.8	207.0	217.9	224.9	229.6	224.9	217.9	207.0	188.8	166.9
100°	206.1	227.0	248.0	260.8	272.4	277.1	272.4	260.8	248.0	227.0	206.1
102.5°	237.7	265.2	288.0	301.8	311.5	316.2	311.5	301.8	288.0	265.2	237.7
105°	289.9	319.0	343.4	360.9	371.4	374.9	371.4	360.9	343.4	319.0	289.9
107.5°	342.0	372.1	394.7	414.0	426.8	434.2	426.8	414.0	394.7	372.1	342.0
110°	383.0	407.5	431.9	449.4	462.2	466.8	462.2	449.4	431.9	407.5	383.0



TEST NUMBER: P1427899

CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	417.5	444.7	469.2	486.6	501.3	507.8	501.3	486.6	469.2	444.7	417.5
115°	465.7	501.8	523.9	540.2	550.7	556.5	550.7	540.2	523.9	501.8	465.7
117.5°	505.7	543.4	567.7	580.2	585.1	589.3	585.1	580.2	567.7	543.4	505.7
120°	530.9	565.8	593.7	610.0	615.9	618.2	615.9	610.0	593.7	565.8	530.9
122.5°	554.2	587.2	614.2	634.3	643.8	646.1	643.8	634.3	614.2	587.2	554.2
125°	586.8	618.2	646.1	665.9	676.4	682.2	676.4	665.9	646.1	618.2	586.8
127.5°	615.2	649.2	674.8	692.7	702.9	707.6	702.9	692.7	674.8	649.2	615.2
130°	631.0	665.9	691.5	711.3	720.6	725.3	720.6	711.3	691.5	665.9	631.0
132.5°	643.1	679.9	706.4	724.4	734.6	739.3	734.6	724.4	706.4	679.9	643.1
135°	657.8	696.2	724.1	741.6	750.9	755.6	750.9	741.6	724.1	696.2	657.8
137.5°	670.6	705.5	734.6	753.0	761.4	764.4	761.4	753.0	734.6	705.5	670.6
140°	679.9	710.2	739.3	756.7	766.0	767.2	766.0	756.7	739.3	710.2	679.9
142.5°	692.0	715.7	741.1	758.6	767.9	770.0	767.9	758.6	741.1	715.7	692.0
145°	713.7	727.6	745.1	761.4	769.5	771.9	769.5	761.4	745.1	727.6	713.7
147.5°	740.9	745.3	754.4	765.1	773.0	774.7	773.0	765.1	754.4	745.3	740.9
150°	761.4	760.2	763.7	770.7	777.7	776.5	777.7	770.7	763.7	760.2	761.4
152.5°	784.7	777.9	777.7	780.9	784.2	784.0	784.2	780.9	777.7	777.9	784.7
155°	824.3	811.4	804.5	802.1	802.1	801.0	802.1	802.1	804.5	811.4	824.3
157.5°	867.8	849.9	839.4	833.8	832.2	829.6	832.2	833.8	839.4	849.9	867.8
160°	897.6	877.8	867.3	858.0	854.5	851.0	854.5	858.0	867.3	877.8	897.6
162.5°	925.5	906.7	895.3	886.9	883.4	878.0	883.4	886.9	895.3	906.7	925.5
165°	970.9	951.2	938.3	931.4	926.7	922.0	926.7	931.4	938.3	951.2	970.9
167.5°	1016.3	994.7	986.3	978.4	974.0	965.6	974.0	978.4	986.3	994.7	1016.3
170°	1044.3	1024.5	1019.8	1012.9	1004.7	995.4	1004.7	1012.9	1019.8	1024.5	1044.3
172.5°	1068.5	1055.2	1050.6	1043.6	1041.0	1033.6	1041.0	1043.6	1050.6	1055.2	1068.5
175°	1103.7	1093.2	1093.2	1092.0	1088.5	1081.5	1088.5	1092.0	1093.2	1093.2	1103.7
177.5°	1133.0	1127.4	1131.1	1131.1	1130.2	1123.7	1130.2	1131.1	1131.1	1127.4	1133.0
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1427899

CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1766.9	1766.9	1766.9	1766.9
2.5°	1767.8	1779.6	1771.3	1762.9
5°	1733.9	1768.8	1769.5	1770.3
7.5°	1644.8	1691.7	1714.8	1738.0
10°	1586.5	1639.5	1674.6	1709.8
12.5°	1534.0	1592.2	1647.6	1703.0
15°	1458.1	1517.2	1600.9	1684.5
17.5°	1391.2	1443.1	1533.2	1623.4
20°	1354.5	1402.5	1491.4	1580.3
22.5°	1321.3	1363.8	1453.9	1544.0
25°	1262.0	1293.0	1394.6	1496.3
27.5°	1207.0	1226.9	1333.0	1439.1
30°	1170.7	1186.5	1292.6	1398.7
32.5°	1129.0	1140.4	1250.1	1359.7
35°	1075.4	1084.4	1198.7	1313.0
37.5°	1014.8	1018.8	1141.4	1263.9
40°	971.7	971.9	1100.4	1228.9
42.5°	930.5	934.3	1062.8	1191.3
45°	862.4	867.3	1001.1	1134.8
47.5°	812.2	813.3	940.8	1068.2
50°	781.8	776.5	896.8	1017.1
52.5°	752.6	738.7	853.0	967.4
55°	707.8	676.4	786.2	896.1
57.5°	634.5	612.7	716.6	820.4
60°	574.4	571.6	672.5	773.3
62.5°	517.5	531.4	627.5	723.6
65°	441.0	467.4	554.8	642.2
67.5°	370.9	400.3	476.6	552.8
70°	325.6	356.4	423.7	490.9
72.5°	278.1	309.6	367.3	425.0
75°	207.9	238.5	284.9	331.2
77.5°	147.0	171.9	205.6	239.4
80°	107.6	130.8	156.2	181.6
82.5°	75.3	90.1	108.9	127.8
85°	35.9	39.2	48.2	57.2
87.5°	13.6	13.5	13.1	12.8
90°	21.0	12.8	8.1	3.5
92.5°	45.2	31.4	22.1	12.8
95°	90.8	72.2	51.2	36.1
97.5°	144.6	114.6	93.8	68.9
100°	173.5	144.4	124.6	97.8
102.5°	205.1	180.7	153.4	126.7
105°	261.9	231.7	200.2	170.0
107.5°	314.6	281.3	243.6	216.3
110°	348.1	312.0	272.4	248.0

TEST NUMBER: P1427899

CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	380.7	343.7	303.2	278.7
115°	424.9	384.2	346.9	326.0
117.5°	467.5	425.6	386.3	369.7
120°	493.6	451.7	413.3	400.5
122.5°	515.0	474.1	438.4	433.1
125°	547.2	505.3	475.0	482.0
127.5°	573.3	534.8	515.7	531.3
130°	589.1	555.3	543.7	565.8
132.5°	603.1	576.7	571.6	602.1
135°	624.0	608.9	613.5	655.4
137.5°	648.9	643.1	658.7	711.6
140°	664.8	668.3	690.4	749.7
142.5°	686.2	694.3	723.0	786.1
145°	719.5	736.9	774.2	837.1
147.5°	757.2	779.8	825.9	890.4
150°	782.3	811.4	860.3	922.0
152.5°	811.2	841.3	890.1	952.8
155°	855.7	889.4	940.7	994.2
157.5°	901.1	935.6	984.4	1031.2
160°	929.0	966.3	1010.5	1053.6
162.5°	960.7	995.2	1033.8	1072.2
165°	1007.0	1035.0	1066.4	1099.0
167.5°	1045.9	1069.2	1093.9	1119.3
170°	1071.1	1089.7	1110.6	1130.4
172.5°	1092.5	1107.4	1122.8	1139.8
175°	1121.1	1129.3	1138.6	1149.1
177.5°	1143.2	1146.0	1148.8	1153.5
180°	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1427899  
 CATALOG NUMBER: SQ2W-PH1-K-075U-075D-L840-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	18.86	19.75	19.78	20.69	21.91	17.69	18.58	18.61	19.52	20.74
	3H	21.04	21.83	21.97	22.78	24.02	18.74	19.54	19.68	20.49	21.73
	4H	21.85	22.60	22.80	23.56	24.81	18.99	19.74	19.94	20.69	21.94
	6H	22.32	23.01	23.28	23.97	25.24	19.13	19.82	20.09	20.78	22.05
	8H	22.47	23.13	23.44	24.11	25.37	19.19	19.85	20.16	20.83	22.09
	12H	22.53	23.16	23.51	24.13	25.42	19.20	19.83	20.18	20.80	22.08
4H	2H	19.30	20.05	20.26	21.01	22.26	18.37	19.13	19.33	20.08	21.33
	3H	21.55	22.18	22.52	23.16	24.43	19.61	20.23	20.58	21.22	22.48
	4H	22.43	23.00	23.40	23.98	25.27	19.90	20.47	20.88	21.45	22.74
	6H	22.99	23.48	23.98	24.48	25.77	20.10	20.59	21.09	21.60	22.88
	8H	23.19	23.65	24.18	24.65	25.95	20.19	20.65	21.18	21.65	22.95
	12H	23.28	23.69	24.29	24.70	26.01	20.22	20.63	21.23	21.64	22.95
8H	4H	22.45	22.91	23.44	23.91	25.21	20.13	20.59	21.12	21.59	22.89
	6H	23.08	23.46	24.10	24.50	25.80	20.40	20.78	21.42	21.82	23.12
	8H	23.34	23.68	24.37	24.70	26.02	20.55	20.88	21.57	21.91	23.23
	12H	23.48	23.77	24.51	24.79	26.15	20.61	20.91	21.64	21.93	23.29
12H	4H	22.40	22.82	23.41	23.83	25.14	20.13	20.54	21.14	21.56	22.86
	6H	23.06	23.39	24.08	24.42	25.74	20.44	20.77	21.46	21.80	23.11
	8H	23.33	23.62	24.36	24.64	26.01	20.60	20.89	21.63	21.91	23.28