

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: P1428469

Luminaire Tested: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428469  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

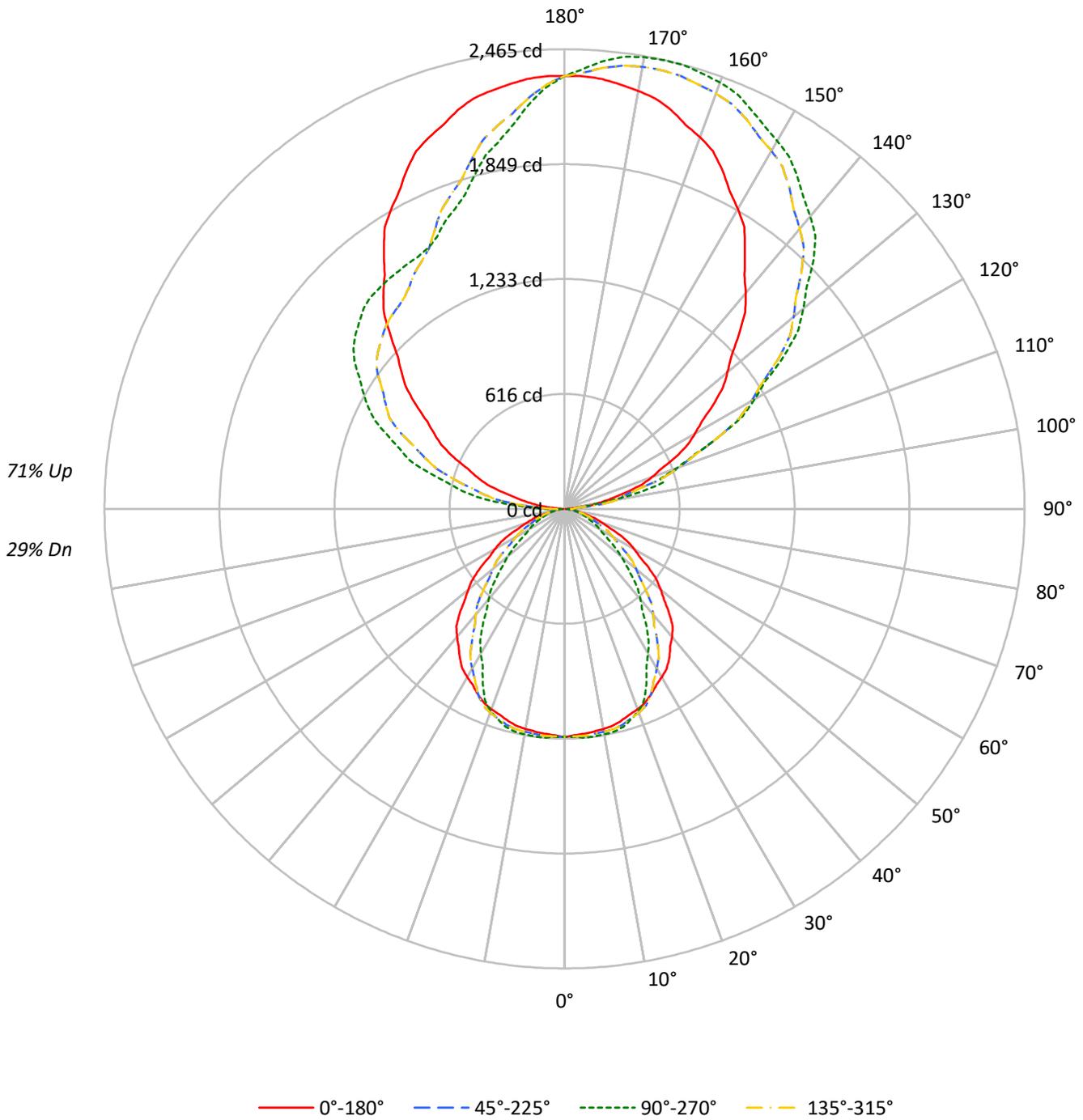
Lumens per Lamp: N/A  
Luminaire Lumens: 9501.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25
2	85	78	73	68	76	70	66	61	56	52	49	42	40	38	29	28	27	21
3	78	69	62	57	70	62	56	52	49	45	42	37	35	32	26	25	23	18
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	24	22	20	16
5	65	54	47	41	58	49	43	38	39	35	31	30	27	24	21	19	18	14
6	60	49	41	36	54	44	38	33	35	31	27	27	24	21	19	17	16	13
7	56	44	37	31	50	40	33	29	32	27	24	25	21	19	18	16	14	11
8	52	40	33	28	46	36	30	25	29	24	21	23	19	17	16	14	13	10
9	48	36	29	24	43	33	27	23	27	22	19	21	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	25	20	17	19	16	14	14	12	10	8

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

	0°	90°	180°	270°
0°	19757	19757	19757	19757
5°	19625	19964	19625	19964
10°	19660	20138	19660	20138
15°	19655	20259	19655	20259
20°	19663	19864	19663	19864
25°	19557	18458	19557	18458
30°	19424	16686	19424	16686
35°	19273	15068	19273	15068
40°	18889	13314	18889	13314
45°	18148	11629	18148	11629
50°	16889	9952	16889	9952
55°	15451	8070	15451	8070
60°	13850	6962	13850	6962
65°	12111	6189	12111	6189
70°	9904	5613	9904	5613
75°	7704	5159	7704	5159
80°	5746	4547	5746	4547
85°	3890	2593	3890	2593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	1.2
10°-20°	337.6	3.6
20°-30°	496.8	5.2
30°-40°	543.2	5.7
40°-50°	487.3	5.1
50°-60°	363.5	3.8
60°-70°	229.8	2.4
70°-80°	113.8	1.2
80°-90°	36.2	0.4
90°-100°	184.7	1.9
100°-110°	538.6	5.7
110°-120°	879.0	9.3
120°-130°	1115.4	11.7
130°-140°	1193.5	12.6
140°-150°	1114.5	11.7
150°-160°	917.1	9.7
160°-170°	615.0	6.5
170°-180°	218.4	2.3
0°-30°	951.0	10.0
0°-40°	1494.2	15.7
0°-60°	2345.1	24.7
0°-90°	2724.9	28.7
90°-120°	1602.3	16.9
90°-150°	5025.7	52.9
90°-180°	6776.0	71.3
0°-180°	9501.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1224	1224	1224	1224	1224	
5°	1211	1232	1211	1232	1211	115
15°	1176	1212	1176	1212	1176	332
25°	1098	1036	1098	1036	1098	506
35°	978	764	978	764	978	610
45°	795	509	795	509	795	609
55°	549	287	549	287	549	490
65°	317	162	317	162	317	314
75°	124	83	124	83	124	136
85°	21	14	21	14	21	27
90°	7	52	7	101	7	6
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1215.3	1222.3	1229.4	1227.7	1223.2	1221.1	1221.5	1222.1	1223.4	1224.6	1223.4
5°	1210.9	1219.7	1228.5	1227.2	1222.5	1220.4	1221.0	1222.5	1227.2	1231.8	1227.2
7.5°	1204.8	1213.7	1222.6	1222.2	1218.7	1217.8	1219.6	1222.0	1226.6	1231.1	1226.6
10°	1199.2	1208.5	1217.9	1217.9	1214.8	1214.5	1217.1	1220.1	1224.2	1228.3	1224.2
12.5°	1191.8	1201.5	1211.2	1212.0	1209.7	1210.0	1213.0	1216.3	1220.5	1224.6	1220.5
15°	1175.9	1186.3	1196.6	1198.8	1198.3	1199.9	1203.5	1206.9	1209.4	1212.0	1209.4
17.5°	1157.5	1167.8	1178.2	1180.3	1179.5	1179.6	1180.6	1181.6	1182.8	1184.1	1182.8
20°	1144.4	1154.8	1165.2	1166.6	1165.0	1162.4	1158.8	1156.1	1156.1	1156.1	1156.1
22.5°	1125.8	1137.0	1148.2	1148.2	1144.6	1137.9	1128.0	1119.8	1116.5	1113.2	1116.5
25°	1097.8	1108.7	1119.6	1114.5	1104.2	1088.9	1068.7	1051.6	1043.8	1036.1	1043.8
27.5°	1065.2	1074.0	1082.8	1069.6	1049.1	1024.5	995.8	971.6	960.8	950.0	960.8
30°	1041.9	1048.6	1055.3	1034.5	1004.5	973.6	942.0	915.8	905.4	895.0	905.4
32.5°	1017.6	1020.2	1022.8	995.3	957.8	922.7	889.8	862.4	851.2	840.0	851.2
35°	977.8	973.1	968.5	931.9	884.8	844.7	811.5	784.2	774.4	764.5	774.4
37.5°	930.7	916.8	902.9	861.8	811.5	769.1	734.4	705.6	694.7	683.9	694.7
40°	896.2	876.5	856.8	812.7	760.4	716.9	682.2	653.4	642.5	631.7	642.5
42.5°	858.0	833.3	808.7	763.3	711.0	667.4	632.7	603.9	592.6	581.3	592.6
45°	794.8	765.8	736.8	689.5	636.2	592.7	559.0	531.0	520.2	509.3	520.2
47.5°	723.7	694.9	666.1	619.0	565.7	522.8	490.2	463.4	454.0	444.7	454.0
50°	672.4	644.5	616.5	571.4	520.7	479.0	446.4	419.0	407.6	396.2	407.6
52.5°	620.2	595.2	570.1	526.7	477.2	435.7	402.2	373.2	357.7	342.2	357.7
55°	548.9	525.1	501.3	460.3	413.7	371.8	334.5	304.3	295.5	286.7	295.5
57.5°	475.5	454.9	434.3	397.5	355.3	317.3	283.4	256.2	249.0	241.7	249.0
60°	428.9	410.7	392.6	357.4	316.5	281.8	253.3	230.1	222.9	215.6	222.9
62.5°	384.1	368.1	352.0	318.2	278.6	247.4	224.7	206.2	200.2	194.2	200.2
65°	317.0	305.1	293.2	265.3	232.2	206.3	187.6	172.4	167.2	162.0	167.2
67.5°	251.7	245.1	238.5	217.6	192.0	171.1	154.7	141.6	138.1	134.7	138.1
70°	209.8	207.7	205.6	188.4	166.1	148.3	134.8	124.1	121.5	118.9	121.5
72.5°	173.4	174.2	175.1	160.7	141.4	126.4	115.8	107.5	105.7	104.0	105.7
75°	123.5	127.7	131.8	122.4	108.4	97.8	90.5	84.8	83.8	82.7	83.8
77.5°	84.1	90.4	96.6	90.4	80.2	72.4	67.0	62.7	61.9	61.1	61.9
80°	61.8	68.0	74.2	69.9	62.2	56.2	52.1	48.9	48.9	48.9	48.9
82.5°	43.1	48.1	53.1	50.0	44.3	40.5	38.4	36.8	36.8	36.8	36.8
85°	21.0	23.6	26.2	25.3	23.2	20.6	17.5	15.0	14.5	14.0	14.5
87.5°	7.0	10.1	13.7	14.3	13.7	12.9	12.5	12.6	13.1	13.1	13.1
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	561.2	585.1	648.9	721.5	749.2	763.3	753.0	747.8	743.1	746.9	743.1
115°	656.4	691.5	775.9	850.9	907.2	914.2	911.9	911.9	909.5	909.5	909.5
117.5°	744.5	800.8	895.5	982.7	1047.9	1066.6	1076.0	1073.2	1070.4	1075.0	1070.4
120°	806.4	872.0	979.9	1078.3	1141.6	1169.7	1179.1	1174.4	1179.1	1174.4	1179.1
122.5°	872.0	952.7	1058.6	1160.8	1235.4	1267.3	1278.5	1279.5	1280.4	1277.6	1280.4
125°	970.5	1068.9	1193.2	1298.7	1376.0	1413.5	1422.9	1425.3	1430.0	1441.7	1430.0
127.5°	1069.9	1181.5	1317.9	1419.6	1498.9	1544.3	1558.9	1564.0	1573.9	1579.0	1573.9
130°	1139.3	1265.9	1404.2	1500.3	1577.6	1626.9	1652.7	1659.7	1671.4	1669.1	1671.4
132.5°	1212.4	1344.6	1484.8	1584.7	1656.4	1709.4	1731.4	1751.6	1755.8	1759.1	1755.8
135°	1319.8	1462.8	1603.4	1701.9	1769.9	1821.4	1849.6	1868.3	1880.0	1887.1	1880.0
137.5°	1432.8	1583.7	1718.8	1806.4	1874.9	1919.4	1951.3	1971.0	1983.2	1988.8	1983.2
140°	1509.7	1655.0	1786.3	1877.7	1938.6	1983.2	2011.3	2034.8	2048.8	2048.8	2048.8
142.5°	1582.8	1726.3	1853.8	1945.2	1998.7	2039.4	2069.4	2087.3	2103.2	2103.2	2103.2
145°	1685.5	1828.5	1945.7	2037.1	2081.6	2119.1	2152.0	2166.0	2175.4	2175.4	2175.4
147.5°	1792.8	1919.4	2026.3	2114.0	2151.5	2195.6	2221.3	2232.6	2244.3	2239.2	2244.3
150°	1856.6	1973.8	2076.9	2159.0	2196.5	2238.7	2264.5	2273.9	2285.6	2278.5	2285.6
152.5°	1918.5	2030.1	2123.8	2200.3	2232.1	2274.3	2303.9	2313.2	2321.2	2316.1	2321.2
155°	2001.9	2100.4	2187.1	2257.5	2285.6	2325.4	2353.6	2365.3	2374.7	2362.9	2374.7
157.5°	2076.5	2161.3	2236.8	2301.5	2331.5	2365.8	2392.0	2406.5	2415.9	2410.8	2415.9
160°	2121.5	2198.8	2266.8	2327.8	2355.9	2386.4	2414.5	2430.9	2440.3	2433.3	2440.3
162.5°	2159.0	2228.9	2293.1	2348.4	2372.8	2399.5	2433.3	2447.8	2457.2	2448.3	2457.2
165°	2212.9	2269.2	2325.4	2372.3	2393.4	2414.5	2449.7	2466.1	2473.1	2463.7	2473.1
167.5°	2253.7	2296.8	2342.3	2382.6	2398.1	2418.7	2453.9	2467.5	2476.4	2464.7	2476.4
170°	2276.2	2313.7	2353.6	2386.4	2398.1	2416.9	2452.0	2463.7	2470.8	2459.1	2470.8
172.5°	2295.0	2323.1	2355.4	2384.5	2390.6	2405.6	2438.9	2450.6	2455.8	2445.9	2455.8
175°	2313.7	2330.1	2353.6	2372.3	2370.0	2379.3	2407.5	2416.9	2426.2	2412.2	2426.2
177.5°	2322.6	2330.1	2337.6	2348.9	2341.4	2341.4	2362.0	2367.6	2369.5	2362.0	2369.5
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1222.1	1221.5	1221.1	1223.2	1227.7	1229.4	1222.3	1215.3	1222.3	1229.4	1227.7
5°	1222.5	1221.0	1220.4	1222.5	1227.2	1228.5	1219.7	1210.9	1219.7	1228.5	1227.2
7.5°	1222.0	1219.6	1217.8	1218.7	1222.2	1222.6	1213.7	1204.8	1213.7	1222.6	1222.2
10°	1220.1	1217.1	1214.5	1214.8	1217.9	1217.9	1208.5	1199.2	1208.5	1217.9	1217.9
12.5°	1216.3	1213.0	1210.0	1209.7	1212.0	1211.2	1201.5	1191.8	1201.5	1211.2	1212.0
15°	1206.9	1203.5	1199.9	1198.3	1198.8	1196.6	1186.3	1175.9	1186.3	1196.6	1198.8
17.5°	1181.6	1180.6	1179.6	1179.5	1180.3	1178.2	1167.8	1157.5	1167.8	1178.2	1180.3
20°	1156.1	1158.8	1162.4	1165.0	1166.6	1165.2	1154.8	1144.4	1154.8	1165.2	1166.6
22.5°	1119.8	1128.0	1137.9	1144.6	1148.2	1148.2	1137.0	1125.8	1137.0	1148.2	1148.2
25°	1051.6	1068.7	1088.9	1104.2	1114.5	1119.6	1108.7	1097.8	1108.7	1119.6	1114.5
27.5°	971.6	995.8	1024.5	1049.1	1069.6	1082.8	1074.0	1065.2	1074.0	1082.8	1069.6
30°	915.8	942.0	973.6	1004.5	1034.5	1055.3	1048.6	1041.9	1048.6	1055.3	1034.5
32.5°	862.4	889.8	922.7	957.8	995.3	1022.8	1020.2	1017.6	1020.2	1022.8	995.3
35°	784.2	811.5	844.7	884.8	931.9	968.5	973.1	977.8	973.1	968.5	931.9
37.5°	705.6	734.4	769.1	811.5	861.8	902.9	916.8	930.7	916.8	902.9	861.8
40°	653.4	682.2	716.9	760.4	812.7	856.8	876.5	896.2	876.5	856.8	812.7
42.5°	603.9	632.7	667.4	711.0	763.3	808.7	833.3	858.0	833.3	808.7	763.3
45°	531.0	559.0	592.7	636.2	689.5	736.8	765.8	794.8	765.8	736.8	689.5
47.5°	463.4	490.2	522.8	565.7	619.0	666.1	694.9	723.7	694.9	666.1	619.0
50°	419.0	446.4	479.0	520.7	571.4	616.5	644.5	672.4	644.5	616.5	571.4
52.5°	373.2	402.2	435.7	477.2	526.7	570.1	595.2	620.2	595.2	570.1	526.7
55°	304.3	334.5	371.8	413.7	460.3	501.3	525.1	548.9	525.1	501.3	460.3
57.5°	256.2	283.4	317.3	355.3	397.5	434.3	454.9	475.5	454.9	434.3	397.5
60°	230.1	253.3	281.8	316.5	357.4	392.6	410.7	428.9	410.7	392.6	357.4
62.5°	206.2	224.7	247.4	278.6	318.2	352.0	368.1	384.1	368.1	352.0	318.2
65°	172.4	187.6	206.3	232.2	265.3	293.2	305.1	317.0	305.1	293.2	265.3
67.5°	141.6	154.7	171.1	192.0	217.6	238.5	245.1	251.7	245.1	238.5	217.6
70°	124.1	134.8	148.3	166.1	188.4	205.6	207.7	209.8	207.7	205.6	188.4
72.5°	107.5	115.8	126.4	141.4	160.7	175.1	174.2	173.4	174.2	175.1	160.7
75°	84.8	90.5	97.8	108.4	122.4	131.8	127.7	123.5	127.7	131.8	122.4
77.5°	62.7	67.0	72.4	80.2	90.4	96.6	90.4	84.1	90.4	96.6	90.4
80°	48.9	52.1	56.2	62.2	69.9	74.2	68.0	61.8	68.0	74.2	69.9
82.5°	36.8	38.4	40.5	44.3	50.0	53.1	48.1	43.1	48.1	53.1	50.0
85°	15.0	17.5	20.6	23.2	25.3	26.2	23.6	21.0	23.6	26.2	25.3
87.5°	12.6	12.5	12.9	13.7	14.3	13.7	10.1	7.0	10.1	13.2	15.3
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	747.8	753.0	763.3	749.2	721.5	648.9	585.1	561.2	610.4	692.0	766.5
115°	911.9	911.9	914.2	907.2	850.9	775.9	691.5	656.4	698.6	773.6	855.6
117.5°	1073.2	1076.0	1066.6	1047.9	982.7	895.5	800.8	744.5	777.8	857.0	941.4
120°	1174.4	1179.1	1169.7	1141.6	1078.3	979.9	872.0	806.4	832.2	909.5	993.9
122.5°	1279.5	1278.5	1267.3	1235.4	1160.8	1058.6	952.7	872.0	882.8	954.6	1037.1
125°	1425.3	1422.9	1413.5	1376.0	1298.7	1193.2	1068.9	970.5	956.4	1017.4	1101.8
127.5°	1564.0	1558.9	1544.3	1498.9	1419.6	1317.9	1181.5	1069.9	1038.5	1076.9	1154.3
130°	1659.7	1652.7	1626.9	1577.6	1500.3	1404.2	1265.9	1139.3	1094.7	1118.2	1186.2
132.5°	1751.6	1731.4	1709.4	1656.4	1584.7	1484.8	1344.6	1212.4	1151.0	1161.3	1214.3
135°	1868.3	1849.6	1821.4	1769.9	1701.9	1603.4	1462.8	1319.8	1235.4	1226.0	1256.5
137.5°	1971.0	1951.3	1919.4	1874.9	1806.4	1718.8	1583.7	1432.8	1326.3	1294.9	1306.6
140°	2034.8	2011.3	1983.2	1938.6	1877.7	1786.3	1655.0	1509.7	1390.1	1345.6	1338.5
142.5°	2087.3	2069.4	2039.4	1998.7	1945.2	1853.8	1726.3	1582.8	1455.7	1398.1	1381.7
145°	2166.0	2152.0	2119.1	2081.6	2037.1	1945.7	1828.5	1685.5	1558.9	1483.9	1448.7
147.5°	2232.6	2221.3	2195.6	2151.5	2114.0	2026.3	1919.4	1792.8	1663.0	1570.1	1524.7
150°	2273.9	2264.5	2238.7	2196.5	2159.0	2076.9	1973.8	1856.6	1732.4	1633.9	1575.3
152.5°	2313.2	2303.9	2274.3	2232.1	2200.3	2123.8	2030.1	1918.5	1792.4	1693.9	1633.4
155°	2365.3	2353.6	2325.4	2285.6	2257.5	2187.1	2100.4	2001.9	1894.1	1791.0	1723.0
157.5°	2406.5	2392.0	2365.8	2331.5	2301.5	2236.8	2161.3	2076.5	1982.2	1883.8	1814.4
160°	2430.9	2414.5	2386.4	2355.9	2327.8	2266.8	2198.8	2121.5	2034.8	1945.7	1870.7
162.5°	2447.8	2433.3	2399.5	2372.8	2348.4	2293.1	2228.9	2159.0	2081.6	2003.8	1934.4
165°	2466.1	2449.7	2414.5	2393.4	2372.3	2325.4	2269.2	2212.9	2147.3	2084.0	2027.7
167.5°	2467.5	2453.9	2418.7	2398.1	2382.6	2342.3	2296.8	2253.7	2202.6	2152.9	2106.0
170°	2463.7	2452.0	2416.9	2398.1	2386.4	2353.6	2313.7	2276.2	2236.4	2194.2	2156.7
172.5°	2450.6	2438.9	2405.6	2390.6	2384.5	2355.4	2323.1	2295.0	2260.7	2229.8	2199.8
175°	2416.9	2407.5	2379.3	2370.0	2372.3	2353.6	2330.1	2313.7	2292.6	2273.9	2257.5
177.5°	2367.6	2362.0	2341.4	2341.4	2348.9	2337.6	2330.1	2322.6	2313.2	2307.6	2302.0
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1223.2	1221.1	1221.5	1222.1	1223.4	1224.6	1223.4	1222.1	1221.5	1221.1	1223.2
5°	1222.5	1220.4	1221.0	1222.5	1227.2	1231.8	1227.2	1222.5	1221.0	1220.4	1222.5
7.5°	1218.7	1217.8	1219.6	1222.0	1226.6	1231.1	1226.6	1222.0	1219.6	1217.8	1218.7
10°	1214.8	1214.5	1217.1	1220.1	1224.2	1228.3	1224.2	1220.1	1217.1	1214.5	1214.8
12.5°	1209.7	1210.0	1213.0	1216.3	1220.5	1224.6	1220.5	1216.3	1213.0	1210.0	1209.7
15°	1198.3	1199.9	1203.5	1206.9	1209.4	1212.0	1209.4	1206.9	1203.5	1199.9	1198.3
17.5°	1179.5	1179.6	1180.6	1181.6	1182.8	1184.1	1182.8	1181.6	1180.6	1179.6	1179.5
20°	1165.0	1162.4	1158.8	1156.1	1156.1	1156.1	1156.1	1156.1	1158.8	1162.4	1165.0
22.5°	1144.6	1137.9	1128.0	1119.8	1116.5	1113.2	1116.5	1119.8	1128.0	1137.9	1144.6
25°	1104.2	1088.9	1068.7	1051.6	1043.8	1036.1	1043.8	1051.6	1068.7	1088.9	1104.2
27.5°	1049.1	1024.5	995.8	971.6	960.8	950.0	960.8	971.6	995.8	1024.5	1049.1
30°	1004.5	973.6	942.0	915.8	905.4	895.0	905.4	915.8	942.0	973.6	1004.5
32.5°	957.8	922.7	889.8	862.4	851.2	840.0	851.2	862.4	889.8	922.7	957.8
35°	884.8	844.7	811.5	784.2	774.4	764.5	774.4	784.2	811.5	844.7	884.8
37.5°	811.5	769.1	734.4	705.6	694.7	683.9	694.7	705.6	734.4	769.1	811.5
40°	760.4	716.9	682.2	653.4	642.5	631.7	642.5	653.4	682.2	716.9	760.4
42.5°	711.0	667.4	632.7	603.9	592.6	581.3	592.6	603.9	632.7	667.4	711.0
45°	636.2	592.7	559.0	531.0	520.2	509.3	520.2	531.0	559.0	592.7	636.2
47.5°	565.7	522.8	490.2	463.4	454.0	444.7	454.0	463.4	490.2	522.8	565.7
50°	520.7	479.0	446.4	419.0	407.6	396.2	407.6	419.0	446.4	479.0	520.7
52.5°	477.2	435.7	402.2	373.2	357.7	342.2	357.7	373.2	402.2	435.7	477.2
55°	413.7	371.8	334.5	304.3	295.5	286.7	295.5	304.3	334.5	371.8	413.7
57.5°	355.3	317.3	283.4	256.2	249.0	241.7	249.0	256.2	283.4	317.3	355.3
60°	316.5	281.8	253.3	230.1	222.9	215.6	222.9	230.1	253.3	281.8	316.5
62.5°	278.6	247.4	224.7	206.2	200.2	194.2	200.2	206.2	224.7	247.4	278.6
65°	232.2	206.3	187.6	172.4	167.2	162.0	167.2	172.4	187.6	206.3	232.2
67.5°	192.0	171.1	154.7	141.6	138.1	134.7	138.1	141.6	154.7	171.1	192.0
70°	166.1	148.3	134.8	124.1	121.5	118.9	121.5	124.1	134.8	148.3	166.1
72.5°	141.4	126.4	115.8	107.5	105.7	104.0	105.7	107.5	115.8	126.4	141.4
75°	108.4	97.8	90.5	84.8	83.8	82.7	83.8	84.8	90.5	97.8	108.4
77.5°	80.2	72.4	67.0	62.7	61.9	61.1	61.9	62.7	67.0	72.4	80.2
80°	62.2	56.2	52.1	48.9	48.9	48.9	48.9	48.9	52.1	56.2	62.2
82.5°	44.3	40.5	38.4	36.8	36.8	36.8	36.8	36.8	38.4	40.5	44.3
85°	23.2	20.6	17.5	15.0	14.5	14.0	14.5	15.0	17.5	20.6	23.2
87.5°	15.5	17.6	20.5	22.0	23.9	23.0	23.9	22.0	20.5	17.6	15.5
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	840.6	895.5	944.7	979.9	1009.4	1022.5	1009.4	979.9	944.7	895.5	840.6
115°	937.7	1010.3	1054.9	1087.7	1108.8	1120.5	1108.8	1087.7	1054.9	1010.3	937.7
117.5°	1018.3	1094.3	1143.0	1168.3	1178.2	1186.6	1178.2	1168.3	1143.0	1094.3	1018.3
120°	1068.9	1139.3	1195.5	1228.4	1240.1	1244.8	1240.1	1228.4	1195.5	1139.3	1068.9
122.5°	1115.8	1182.4	1236.8	1277.1	1296.3	1301.0	1296.3	1277.1	1236.8	1182.4	1115.8
125°	1181.5	1244.8	1301.0	1340.9	1362.0	1373.7	1362.0	1340.9	1301.0	1244.8	1181.5
127.5°	1238.7	1307.1	1358.7	1394.8	1415.4	1424.8	1415.4	1394.8	1358.7	1307.1	1238.7
130°	1270.5	1340.9	1392.4	1432.3	1451.1	1460.4	1451.1	1432.3	1392.4	1340.9	1270.5
132.5°	1294.9	1369.0	1422.5	1458.6	1479.2	1488.6	1479.2	1458.6	1422.5	1369.0	1294.9
135°	1324.5	1401.8	1458.1	1493.2	1512.0	1521.4	1512.0	1493.2	1458.1	1401.8	1324.5
137.5°	1350.3	1420.6	1479.2	1516.2	1533.1	1539.2	1533.1	1516.2	1479.2	1420.6	1350.3
140°	1369.0	1430.0	1488.6	1523.7	1542.5	1544.8	1542.5	1523.7	1488.6	1430.0	1369.0
142.5°	1393.4	1441.2	1492.3	1527.5	1546.2	1550.4	1546.2	1527.5	1492.3	1441.2	1393.4
145°	1437.0	1465.1	1500.3	1533.1	1549.5	1554.2	1549.5	1533.1	1500.3	1465.1	1437.0
147.5°	1491.8	1500.7	1519.0	1540.6	1556.5	1559.8	1556.5	1540.6	1519.0	1500.7	1491.8
150°	1533.1	1530.8	1537.8	1551.9	1565.9	1563.6	1565.9	1551.9	1537.8	1530.8	1533.1
152.5°	1580.0	1566.4	1565.9	1572.5	1579.0	1578.6	1579.0	1572.5	1565.9	1566.4	1580.0
155°	1659.7	1633.9	1619.8	1615.1	1615.1	1612.8	1615.1	1615.1	1619.8	1633.9	1659.7
157.5°	1747.4	1711.3	1690.2	1678.9	1675.6	1670.5	1675.6	1678.9	1690.2	1711.3	1747.4
160°	1807.4	1767.5	1746.4	1727.7	1720.6	1713.6	1720.6	1727.7	1746.4	1767.5	1807.4
162.5°	1863.6	1825.7	1802.7	1785.8	1778.8	1768.0	1778.8	1785.8	1802.7	1825.7	1863.6
165°	1955.1	1915.2	1889.4	1875.3	1866.0	1856.6	1866.0	1875.3	1889.4	1915.2	1955.1
167.5°	2046.5	2002.9	1986.0	1970.1	1961.1	1944.3	1961.1	1970.1	1986.0	2002.9	2046.5
170°	2102.7	2062.9	2053.5	2039.4	2023.0	2004.3	2023.0	2039.4	2053.5	2062.9	2102.7
172.5°	2151.5	2124.8	2115.4	2101.3	2096.2	2081.2	2096.2	2101.3	2115.4	2124.8	2151.5
175°	2222.3	2201.2	2201.2	2198.8	2191.8	2177.7	2191.8	2198.8	2201.2	2201.2	2222.3
177.5°	2281.4	2270.1	2277.6	2277.6	2275.7	2262.6	2275.7	2277.6	2277.6	2270.1	2281.4
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1223.7	1223.7	1223.7	1223.7
2.5°	1227.7	1229.4	1222.3	1215.3
5°	1227.2	1228.5	1219.7	1210.9
7.5°	1222.2	1222.6	1213.7	1204.8
10°	1217.9	1217.9	1208.5	1199.2
12.5°	1212.0	1211.2	1201.5	1191.8
15°	1198.8	1196.6	1186.3	1175.9
17.5°	1180.3	1178.2	1167.8	1157.5
20°	1166.6	1165.2	1154.8	1144.4
22.5°	1148.2	1148.2	1137.0	1125.8
25°	1114.5	1119.6	1108.7	1097.8
27.5°	1069.6	1082.8	1074.0	1065.2
30°	1034.5	1055.3	1048.6	1041.9
32.5°	995.3	1022.8	1020.2	1017.6
35°	931.9	968.5	973.1	977.8
37.5°	861.8	902.9	916.8	930.7
40°	812.7	856.8	876.5	896.2
42.5°	763.3	808.7	833.3	858.0
45°	689.5	736.8	765.8	794.8
47.5°	619.0	666.1	694.9	723.7
50°	571.4	616.5	644.5	672.4
52.5°	526.7	570.1	595.2	620.2
55°	460.3	501.3	525.1	548.9
57.5°	397.5	434.3	454.9	475.5
60°	357.4	392.6	410.7	428.9
62.5°	318.2	352.0	368.1	384.1
65°	265.3	293.2	305.1	317.0
67.5°	217.6	238.5	245.1	251.7
70°	188.4	205.6	207.7	209.8
72.5°	160.7	175.1	174.2	173.4
75°	122.4	131.8	127.7	123.5
77.5°	90.4	96.6	90.4	84.1
80°	69.9	74.2	68.0	61.8
82.5°	50.0	53.1	48.1	43.1
85°	25.3	26.2	23.6	21.0
87.5°	15.3	13.2	10.1	7.0
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	766.5	692.0	610.4	561.2
115°	855.6	773.6	698.6	656.4
117.5°	941.4	857.0	777.8	744.5
120°	993.9	909.5	832.2	806.4
122.5°	1037.1	954.6	882.8	872.0
125°	1101.8	1017.4	956.4	970.5
127.5°	1154.3	1076.9	1038.5	1069.9
130°	1186.2	1118.2	1094.7	1139.3
132.5°	1214.3	1161.3	1151.0	1212.4
135°	1256.5	1226.0	1235.4	1319.8
137.5°	1306.6	1294.9	1326.3	1432.8
140°	1338.5	1345.6	1390.1	1509.7
142.5°	1381.7	1398.1	1455.7	1582.8
145°	1448.7	1483.9	1558.9	1685.5
147.5°	1524.7	1570.1	1663.0	1792.8
150°	1575.3	1633.9	1732.4	1856.6
152.5°	1633.4	1693.9	1792.4	1918.5
155°	1723.0	1791.0	1894.1	2001.9
157.5°	1814.4	1883.8	1982.2	2076.5
160°	1870.7	1945.7	2034.8	2121.5
162.5°	1934.4	2003.8	2081.6	2159.0
165°	2027.7	2084.0	2147.3	2212.9
167.5°	2106.0	2152.9	2202.6	2253.7
170°	2156.7	2194.2	2236.4	2276.2
172.5°	2199.8	2229.8	2260.7	2295.0
175°	2257.5	2273.9	2292.6	2313.7
177.5°	2302.0	2307.6	2313.2	2322.6
180°	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1428469

CATALOG NUMBER: SQ2W-PW1-K-150U-050D-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	14.86	15.53	15.98	16.65	18.20	11.10	11.78	12.23	12.90	14.45
	3H	16.14	16.75	17.28	17.87	19.44	12.36	12.97	13.49	14.09	15.65
	4H	16.54	17.12	17.69	18.24	19.81	12.86	13.43	14.00	14.56	16.13
	6H	16.71	17.24	17.87	18.37	19.95	13.15	13.68	14.31	14.81	16.39
	8H	16.75	17.25	17.90	18.40	19.97	13.26	13.77	14.42	14.91	16.48
	12H	16.75	17.22	17.90	18.36	19.95	13.29	13.77	14.45	14.90	16.50
4H	2H	14.96	15.54	16.12	16.66	18.23	11.89	12.47	13.04	13.59	15.16
	3H	16.49	16.97	17.64	18.12	19.70	13.32	13.80	14.48	14.95	16.53
	4H	17.03	17.47	18.18	18.60	20.21	13.89	14.33	15.05	15.47	17.07
	6H	17.33	17.70	18.49	18.87	20.46	14.26	14.64	15.43	15.80	17.39
	8H	17.41	17.77	18.58	18.92	20.53	14.41	14.76	15.57	15.92	17.52
	12H	17.43	17.75	18.61	18.91	20.52	14.45	14.76	15.63	15.93	17.54
8H	4H	17.05	17.40	18.21	18.56	20.16	14.22	14.57	15.38	15.73	17.33
	6H	17.47	17.76	18.65	18.95	20.56	14.71	15.00	15.89	16.19	17.80
	8H	17.64	17.89	18.82	19.06	20.69	14.93	15.18	16.11	16.35	17.98
	12H	17.71	17.93	18.90	19.10	20.76	15.00	15.22	16.19	16.39	18.05
12H	4H	17.00	17.32	18.18	18.48	20.10	14.23	14.55	15.41	15.71	17.33
	6H	17.46	17.71	18.65	18.89	20.51	14.78	15.03	15.97	16.21	17.83
	8H	17.64	17.86	18.83	19.03	20.69	15.02	15.24	16.21	16.41	18.07