

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: P1427889

Luminaire Tested: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427889  
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-050U-125D-L935-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

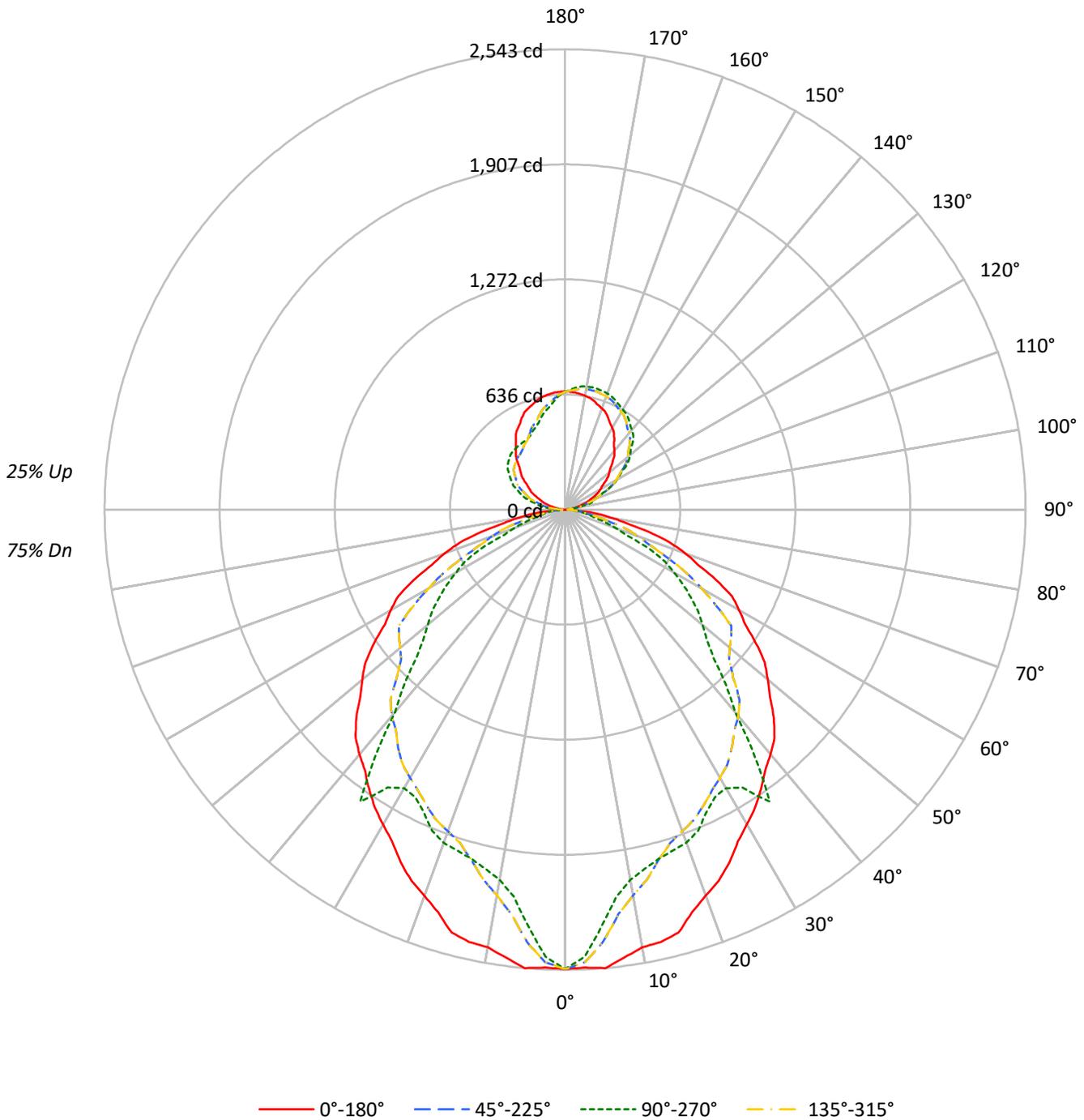
Lumens per Lamp: N/A  
Luminaire Lumens: 7515.6 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.1  
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	75	90	83	77	73	75	71	67	69	65	62	62	59	57	54				
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	51	45	53	47	42	49	44	39	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	40	36	32	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27				
8	58	45	37	32	55	43	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

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

	0°	90°	180°	270°
0°	40981	40981	40981	40981
5°	41217	37458	41217	37458
10°	40267	34050	40267	34050
15°	40449	33385	40449	33385
20°	39006	33652	39006	33652
25°	38291	32870	38291	32870
30°	37460	33138	37460	33138
35°	37177	38843	37177	38843
40°	37208	30795	37208	30795
45°	37223	26523	37223	26523
50°	36700	24872	36700	24872
55°	36233	23862	36233	23862
60°	35872	22381	35872	22381
65°	35247	19469	35247	19469
70°	33290	13907	33290	13907
75°	29681	10549	29681	10549
80°	24249	9884	24249	9884
85°	15209	6706	15209	6706

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 37223 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.3	3.0
10°-20°	587.5	7.8
20°-30°	861.3	11.5
30°-40°	1042.9	13.9
40°-50°	1025.5	13.6
50°-60°	892.1	11.9
60°-70°	620.4	8.3
70°-80°	294.2	3.9
80°-90°	67.6	0.9
90°-100°	51.8	0.7
100°-110°	151.1	2.0
110°-120°	246.5	3.3
120°-130°	312.9	4.2
130°-140°	334.8	4.5
140°-150°	312.6	4.2
150°-160°	257.2	3.4
160°-170°	172.5	2.3
170°-180°	61.3	0.8
0°-30°	1672.1	22.2
0°-40°	2715.0	36.1
0°-60°	4632.7	61.6
0°-90°	5614.9	74.7
90°-120°	449.4	6.0
90°-150°	1409.7	18.8
90°-180°	1901.0	25.3
0°-180°	7515.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2538	2538	2538	2538	2538	
5°	2543	2311	2543	2311	2543	239
15°	2420	1997	2420	1997	2420	675
25°	2149	1845	2149	1845	2149	988
35°	1886	1971	1886	1971	1886	1181
45°	1630	1162	1630	1162	1630	1253
55°	1287	848	1287	848	1287	1150
65°	923	510	923	510	923	907
75°	476	169	476	169	476	504
85°	82	36	82	36	82	110
90°	2	14	2	28	2	4
95°	20	15	20	89	20	25
105°	96	154	96	212	96	102
115°	184	255	184	314	184	181
125°	272	404	272	385	272	244
135°	370	529	370	427	370	286
145°	473	610	473	436	473	296
155°	562	663	562	452	562	258
165°	621	691	621	521	621	175
175°	649	677	649	611	649	62
180°	651	651	651	651	651	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2
2.5°	2532.4	2544.4	2556.5	2539.5	2512.9	2494.4	2484.1	2476.0	2474.3	2472.5	2474.3
5°	2543.1	2542.0	2540.9	2490.7	2424.2	2374.3	2341.0	2315.5	2313.4	2311.2	2313.4
7.5°	2496.7	2463.4	2430.1	2362.7	2283.9	2226.2	2189.5	2161.5	2159.8	2158.1	2159.8
10°	2456.1	2405.7	2355.2	2279.0	2194.2	2135.2	2101.9	2076.9	2076.9	2076.9	2076.9
12.5°	2446.5	2366.8	2287.2	2203.7	2118.9	2064.1	2039.4	2022.2	2027.4	2032.5	2027.4
15°	2419.9	2299.7	2179.5	2094.7	2021.7	1982.0	1975.5	1973.6	1985.4	1997.3	1985.4
17.5°	2332.0	2202.5	2073.1	1998.5	1942.3	1921.0	1934.8	1948.5	1962.3	1976.0	1962.3
20°	2270.2	2142.4	2014.7	1945.7	1896.4	1884.5	1910.3	1932.8	1945.7	1958.6	1945.7
22.5°	2218.0	2088.5	1959.1	1898.1	1859.9	1854.9	1883.3	1906.2	1913.1	1920.0	1913.1
25°	2149.4	2003.4	1857.4	1812.9	1802.2	1809.1	1833.8	1851.5	1848.3	1845.1	1848.3
27.5°	2067.3	1914.9	1762.5	1733.8	1746.5	1760.4	1775.4	1787.1	1789.1	1791.0	1789.1
30°	2009.3	1856.9	1704.5	1681.7	1702.1	1719.8	1734.8	1749.6	1763.5	1777.5	1763.5
32.5°	1953.3	1795.7	1638.2	1621.8	1652.5	1685.7	1721.3	1756.0	1788.0	1820.0	1788.0
35°	1886.2	1721.9	1557.7	1544.8	1582.4	1630.7	1689.7	1760.3	1865.5	1970.7	1865.5
37.5°	1815.6	1639.6	1463.6	1457.7	1508.6	1559.5	1610.4	1656.9	1690.4	1723.9	1690.4
40°	1765.4	1580.8	1396.2	1395.9	1457.1	1520.4	1585.9	1615.7	1538.4	1461.1	1538.4
42.5°	1711.3	1526.7	1342.1	1336.7	1391.0	1460.7	1546.0	1577.2	1446.7	1316.2	1446.7
45°	1630.2	1438.0	1245.9	1238.9	1293.7	1332.3	1354.8	1348.4	1255.0	1161.6	1255.0
47.5°	1534.5	1351.4	1168.3	1166.8	1225.8	1230.1	1179.7	1132.7	1096.2	1059.7	1096.2
50°	1461.1	1288.3	1115.5	1123.0	1190.6	1184.2	1103.7	1037.4	1013.8	990.2	1013.8
52.5°	1389.6	1225.4	1061.2	1081.1	1162.5	1149.6	1042.5	958.2	942.3	926.4	942.3
55°	1287.2	1129.4	971.7	1016.7	1129.4	1112.3	965.2	854.1	850.9	847.7	850.9
57.5°	1178.5	1029.4	880.2	911.4	1002.9	984.9	857.3	763.1	768.7	774.3	768.7
60°	1110.9	966.0	821.1	825.1	878.8	861.6	773.6	706.0	699.6	693.1	699.6
62.5°	1039.4	901.4	763.4	743.4	762.7	742.5	682.8	636.4	630.0	623.6	630.0
65°	922.6	797.0	671.4	633.5	625.0	596.0	546.6	509.6	509.6	509.6	509.6
67.5°	794.1	684.6	575.1	532.8	512.8	484.0	446.5	411.8	386.1	360.3	386.1
70°	705.2	608.6	512.0	467.7	440.9	406.5	364.7	329.0	311.8	294.6	311.8
72.5°	610.5	527.7	444.8	399.5	366.6	333.1	299.0	268.4	248.7	228.9	248.7
75°	475.8	409.2	342.7	298.7	262.2	228.4	197.2	173.3	171.2	169.1	171.2
77.5°	343.9	295.4	246.9	211.2	179.9	156.4	140.7	129.0	129.2	129.4	129.2
80°	260.8	224.3	187.8	154.6	122.4	105.7	104.7	104.1	105.2	106.3	105.2
82.5°	183.5	156.5	129.4	108.2	88.9	80.0	81.5	82.6	82.9	83.1	82.9
85°	82.1	69.2	56.4	51.5	49.4	46.2	41.9	38.4	37.3	36.2	37.3
87.5°	17.8	17.5	17.2	15.6	13.4	12.3	12.3	12.4	12.6	12.6	12.6
90°	2.0	4.6	7.9	10.5	12.5	13.2	13.2	13.8	14.5	14.5	14.5
92.5°	7.2	11.4	11.6	11.6	14.1	15.3	16.3	16.4	17.1	17.1	17.1
95°	20.4	22.4	33.5	32.9	22.4	17.8	15.1	15.1	15.1	15.1	15.1
97.5°	38.9	41.8	43.7	58.5	61.8	59.7	48.7	40.9	36.6	34.6	36.6
100°	55.2	56.5	60.5	61.1	77.6	93.4	85.5	75.6	72.3	70.4	72.3
102.5°	71.5	72.3	78.4	81.1	85.0	93.9	121.2	118.2	116.0	115.6	116.0
105°	96.0	96.7	107.8	113.1	115.7	115.7	115.1	128.2	149.3	153.9	149.3
107.5°	122.2	125.2	138.3	152.4	155.4	156.2	152.8	150.8	150.0	150.6	150.0
110°	140.1	144.7	160.4	178.2	182.8	184.1	182.8	180.8	179.5	179.5	179.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	157.4	164.1	182.0	202.4	210.1	214.1	211.2	209.8	208.4	209.5	208.4
115°	184.1	194.0	217.6	238.7	254.5	256.4	255.8	255.8	255.1	255.1	255.1
117.5°	208.8	224.6	251.2	275.6	293.9	299.2	301.8	301.0	300.2	301.5	300.2
120°	226.2	244.6	274.8	302.5	320.2	328.1	330.7	329.4	330.7	329.4	330.7
122.5°	244.6	267.2	296.9	325.6	346.5	355.5	358.6	358.9	359.1	358.4	359.1
125°	272.2	299.8	334.7	364.3	386.0	396.5	399.1	399.8	401.1	404.4	401.1
127.5°	300.1	331.4	369.7	398.2	420.4	433.2	437.3	438.7	441.5	442.9	441.5
130°	319.6	355.1	393.9	420.8	442.5	456.3	463.6	465.5	468.8	468.2	468.8
132.5°	340.1	377.2	416.5	444.5	464.6	479.5	485.6	491.3	492.5	493.4	492.5
135°	370.2	410.3	449.7	477.4	496.4	510.9	518.8	524.0	527.3	529.3	527.3
137.5°	401.9	444.2	482.1	506.7	525.9	538.4	547.3	552.8	556.3	557.8	556.3
140°	423.4	464.2	501.0	526.7	543.8	556.3	564.2	570.7	574.7	574.7	574.7
142.5°	444.0	484.2	520.0	545.6	560.6	572.0	580.5	585.5	589.9	589.9	589.9
145°	472.8	512.9	545.7	571.4	583.9	594.4	603.6	607.6	610.2	610.2	610.2
147.5°	502.9	538.4	568.4	593.0	603.5	615.8	623.1	626.2	629.5	628.1	629.5
150°	520.8	553.6	582.6	605.6	616.1	627.9	635.2	637.8	641.1	639.1	641.1
152.5°	538.1	569.4	595.7	617.2	626.1	637.9	646.2	648.8	651.1	649.6	651.1
155°	561.5	589.1	613.5	633.2	641.1	652.3	660.2	663.4	666.1	662.8	666.1
157.5°	582.4	606.2	627.4	645.6	654.0	663.6	670.9	675.0	677.6	676.2	677.6
160°	595.1	616.8	635.8	652.9	660.8	669.4	677.3	681.9	684.5	682.5	684.5
162.5°	605.6	625.2	643.2	658.7	665.5	673.0	682.5	686.6	689.2	686.7	689.2
165°	620.7	636.5	652.3	665.4	671.3	677.3	687.1	691.7	693.7	691.1	693.7
167.5°	632.1	644.2	657.0	668.3	672.6	678.4	688.3	692.1	694.6	691.3	694.6
170°	638.5	649.0	660.2	669.4	672.6	677.9	687.8	691.1	693.0	689.7	693.0
172.5°	643.7	651.6	660.7	668.8	670.5	674.8	684.1	687.4	688.8	686.1	688.8
175°	649.0	653.6	660.2	665.4	664.8	667.4	675.3	677.9	680.5	676.6	680.5
177.5°	651.5	653.6	655.7	658.8	656.7	656.7	662.5	664.1	664.6	662.5	664.6
180°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2
2.5°	2476.0	2484.1	2494.4	2512.9	2539.5	2556.5	2544.4	2532.4	2544.4	2556.5	2539.5
5°	2315.5	2341.0	2374.3	2424.2	2490.7	2540.9	2542.0	2543.1	2542.0	2540.9	2490.7
7.5°	2161.5	2189.5	2226.2	2283.9	2362.7	2430.1	2463.4	2496.7	2463.4	2430.1	2362.7
10°	2076.9	2101.9	2135.2	2194.2	2279.0	2355.2	2405.7	2456.1	2405.7	2355.2	2279.0
12.5°	2022.2	2039.4	2064.1	2118.9	2203.7	2287.2	2366.8	2446.5	2366.8	2287.2	2203.7
15°	1973.6	1975.5	1982.0	2021.7	2094.7	2179.5	2299.7	2419.9	2299.7	2179.5	2094.7
17.5°	1948.5	1934.8	1921.0	1942.3	1998.5	2073.1	2202.5	2332.0	2202.5	2073.1	1998.5
20°	1932.8	1910.3	1884.5	1896.4	1945.7	2014.7	2142.4	2270.2	2142.4	2014.7	1945.7
22.5°	1906.2	1883.3	1854.9	1859.9	1898.1	1959.1	2088.5	2218.0	2088.5	1959.1	1898.1
25°	1851.5	1833.8	1809.1	1802.2	1812.9	1857.4	2003.4	2149.4	2003.4	1857.4	1812.9
27.5°	1787.1	1775.4	1760.4	1746.5	1733.8	1762.5	1914.9	2067.3	1914.9	1762.5	1733.8
30°	1749.6	1734.8	1719.8	1702.1	1681.7	1704.5	1856.9	2009.3	1856.9	1704.5	1681.7
32.5°	1756.0	1721.3	1685.7	1652.5	1621.8	1638.2	1795.7	1953.3	1795.7	1638.2	1621.8
35°	1760.3	1689.7	1630.7	1582.4	1544.8	1557.7	1721.9	1886.2	1721.9	1557.7	1544.8
37.5°	1656.9	1610.4	1559.5	1508.6	1457.7	1463.6	1639.6	1815.6	1639.6	1463.6	1457.7
40°	1615.7	1585.9	1520.4	1457.1	1395.9	1396.2	1580.8	1765.4	1580.8	1396.2	1395.9
42.5°	1577.2	1546.0	1460.7	1391.0	1336.7	1342.1	1526.7	1711.3	1526.7	1342.1	1336.7
45°	1348.4	1354.8	1332.3	1293.7	1238.9	1245.9	1438.0	1630.2	1438.0	1245.9	1238.9
47.5°	1132.7	1179.7	1230.1	1225.8	1166.8	1168.3	1351.4	1534.5	1351.4	1168.3	1166.8
50°	1037.4	1103.7	1184.2	1190.6	1123.0	1115.5	1288.3	1461.1	1288.3	1115.5	1123.0
52.5°	958.2	1042.5	1149.6	1162.5	1081.1	1061.2	1225.4	1389.6	1225.4	1061.2	1081.1
55°	854.1	965.2	1112.3	1129.4	1016.7	971.7	1129.4	1287.2	1129.4	971.7	1016.7
57.5°	763.1	857.3	984.9	1002.9	911.4	880.2	1029.4	1178.5	1029.4	880.2	911.4
60°	706.0	773.6	861.6	878.8	825.1	821.1	966.0	1110.9	966.0	821.1	825.1
62.5°	636.4	682.8	742.5	762.7	743.4	763.4	901.4	1039.4	901.4	763.4	743.4
65°	509.6	546.6	596.0	625.0	633.5	671.4	797.0	922.6	797.0	671.4	633.5
67.5°	411.8	446.5	484.0	512.8	532.8	575.1	684.6	794.1	684.6	575.1	532.8
70°	329.0	364.7	406.5	440.9	467.7	512.0	608.6	705.2	608.6	512.0	467.7
72.5°	268.4	299.0	333.1	366.6	399.5	444.8	527.7	610.5	527.7	444.8	399.5
75°	173.3	197.2	228.4	262.2	298.7	342.7	409.2	475.8	409.2	342.7	298.7
77.5°	129.0	140.7	156.4	179.9	211.2	246.9	295.4	343.9	295.4	246.9	211.2
80°	104.1	104.7	105.7	122.4	154.6	187.8	224.3	260.8	224.3	187.8	154.6
82.5°	82.6	81.5	80.0	88.9	108.2	129.4	156.5	183.5	156.5	129.4	108.2
85°	38.4	41.9	46.2	49.4	51.5	56.4	69.2	82.1	69.2	56.4	51.5
87.5°	12.4	12.3	12.3	13.4	15.6	17.2	17.5	17.8	17.5	17.1	15.9
90°	13.8	13.2	13.2	12.5	10.5	7.9	4.6	2.0	4.6	7.2	11.8
92.5°	16.4	16.3	15.3	14.1	11.6	11.6	11.4	7.2	12.5	17.8	25.5
95°	15.1	15.1	17.8	22.4	32.9	33.5	22.4	20.4	28.9	40.8	51.3
97.5°	40.9	48.7	59.7	61.8	58.5	43.7	41.8	38.9	53.0	64.7	81.7
100°	75.6	85.5	93.4	77.6	61.1	60.5	56.5	55.2	70.4	81.5	98.0
102.5°	118.2	121.2	93.9	85.0	81.1	78.4	72.3	71.5	86.7	102.0	115.9
105°	128.2	115.1	115.7	115.7	113.1	107.8	96.7	96.0	113.1	130.8	147.9
107.5°	150.8	152.8	156.2	155.4	152.4	138.3	125.2	122.2	137.6	158.9	177.7
110°	180.8	182.8	184.1	182.8	178.2	160.4	144.7	140.1	153.9	176.2	196.6



TEST NUMBER: P1427889

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	209.8	211.2	214.1	210.1	202.4	182.0	164.1	157.4	171.2	194.1	215.0
115°	255.8	255.8	256.4	254.5	238.7	217.6	194.0	184.1	195.9	217.0	240.0
117.5°	301.0	301.8	299.2	293.9	275.6	251.2	224.6	208.8	218.2	240.4	264.1
120°	329.4	330.7	328.1	320.2	302.5	274.8	244.6	226.2	233.4	255.1	278.8
122.5°	358.9	358.6	355.5	346.5	325.6	296.9	267.2	244.6	247.6	267.7	290.9
125°	399.8	399.1	396.5	386.0	364.3	334.7	299.8	272.2	268.3	285.4	309.0
127.5°	438.7	437.3	433.2	420.4	398.2	369.7	331.4	300.1	291.3	302.1	323.8
130°	465.5	463.6	456.3	442.5	420.8	393.9	355.1	319.6	307.1	313.6	332.7
132.5°	491.3	485.6	479.5	464.6	444.5	416.5	377.2	340.1	322.8	325.7	340.6
135°	524.0	518.8	510.9	496.4	477.4	449.7	410.3	370.2	346.5	343.9	352.4
137.5°	552.8	547.3	538.4	525.9	506.7	482.1	444.2	401.9	372.0	363.2	366.5
140°	570.7	564.2	556.3	543.8	526.7	501.0	464.2	423.4	389.9	377.4	375.4
142.5°	585.5	580.5	572.0	560.6	545.6	520.0	484.2	444.0	408.3	392.1	387.5
145°	607.6	603.6	594.4	583.9	571.4	545.7	512.9	472.8	437.3	416.2	406.4
147.5°	626.2	623.1	615.8	603.5	593.0	568.4	538.4	502.9	466.4	440.4	427.7
150°	637.8	635.2	627.9	616.1	605.6	582.6	553.6	520.8	485.9	458.3	441.9
152.5°	648.8	646.2	637.9	626.1	617.2	595.7	569.4	538.1	502.7	475.1	458.2
155°	663.4	660.2	652.3	641.1	633.2	613.5	589.1	561.5	531.3	502.3	483.3
157.5°	675.0	670.9	663.6	654.0	645.6	627.4	606.2	582.4	556.0	528.4	508.9
160°	681.9	677.3	669.4	660.8	652.9	635.8	616.8	595.1	570.7	545.7	524.7
162.5°	686.6	682.5	673.0	665.5	658.7	643.2	625.2	605.6	583.9	562.1	542.6
165°	691.7	687.1	677.3	671.3	665.4	652.3	636.5	620.7	602.3	584.5	568.8
167.5°	692.1	688.3	678.4	672.6	668.3	657.0	644.2	632.1	617.8	603.9	590.7
170°	691.1	687.8	677.9	672.6	669.4	660.2	649.0	638.5	627.3	615.4	604.9
172.5°	687.4	684.1	674.8	670.5	668.8	660.7	651.6	643.7	634.1	625.4	617.0
175°	677.9	675.3	667.4	664.8	665.4	660.2	653.6	649.0	643.1	637.8	633.2
177.5°	664.1	662.5	656.7	656.7	658.8	655.7	653.6	651.5	648.8	647.3	645.7
180°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9



TEST NUMBER: P1427889

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2	2538.2
2.5°	2512.9	2494.4	2484.1	2476.0	2474.3	2472.5	2474.3	2476.0	2484.1	2494.4	2512.9
5°	2424.2	2374.3	2341.0	2315.5	2313.4	2311.2	2313.4	2315.5	2341.0	2374.3	2424.2
7.5°	2283.9	2226.2	2189.5	2161.5	2159.8	2158.1	2159.8	2161.5	2189.5	2226.2	2283.9
10°	2194.2	2135.2	2101.9	2076.9	2076.9	2076.9	2076.9	2076.9	2101.9	2135.2	2194.2
12.5°	2118.9	2064.1	2039.4	2022.2	2027.4	2032.5	2027.4	2022.2	2039.4	2064.1	2118.9
15°	2021.7	1982.0	1975.5	1973.6	1985.4	1997.3	1985.4	1973.6	1975.5	1982.0	2021.7
17.5°	1942.3	1921.0	1934.8	1948.5	1962.3	1976.0	1962.3	1948.5	1934.8	1921.0	1942.3
20°	1896.4	1884.5	1910.3	1932.8	1945.7	1958.6	1945.7	1932.8	1910.3	1884.5	1896.4
22.5°	1859.9	1854.9	1883.3	1906.2	1913.1	1920.0	1913.1	1906.2	1883.3	1854.9	1859.9
25°	1802.2	1809.1	1833.8	1851.5	1848.3	1845.1	1848.3	1851.5	1833.8	1809.1	1802.2
27.5°	1746.5	1760.4	1775.4	1787.1	1789.1	1791.0	1789.1	1787.1	1775.4	1760.4	1746.5
30°	1702.1	1719.8	1734.8	1749.6	1763.5	1777.5	1763.5	1749.6	1734.8	1719.8	1702.1
32.5°	1652.5	1685.7	1721.3	1756.0	1788.0	1820.0	1788.0	1756.0	1721.3	1685.7	1652.5
35°	1582.4	1630.7	1689.7	1760.3	1865.5	1970.7	1865.5	1760.3	1689.7	1630.7	1582.4
37.5°	1508.6	1559.5	1610.4	1656.9	1690.4	1723.9	1690.4	1656.9	1610.4	1559.5	1508.6
40°	1457.1	1520.4	1585.9	1615.7	1538.4	1461.1	1538.4	1615.7	1585.9	1520.4	1457.1
42.5°	1391.0	1460.7	1546.0	1577.2	1446.7	1316.2	1446.7	1577.2	1546.0	1460.7	1391.0
45°	1293.7	1332.3	1354.8	1348.4	1255.0	1161.6	1255.0	1348.4	1354.8	1332.3	1293.7
47.5°	1225.8	1230.1	1179.7	1132.7	1096.2	1059.7	1096.2	1132.7	1179.7	1230.1	1225.8
50°	1190.6	1184.2	1103.7	1037.4	1013.8	990.2	1013.8	1037.4	1103.7	1184.2	1190.6
52.5°	1162.5	1149.6	1042.5	958.2	942.3	926.4	942.3	958.2	1042.5	1149.6	1162.5
55°	1129.4	1112.3	965.2	854.1	850.9	847.7	850.9	854.1	965.2	1112.3	1129.4
57.5°	1002.9	984.9	857.3	763.1	768.7	774.3	768.7	763.1	857.3	984.9	1002.9
60°	878.8	861.6	773.6	706.0	699.6	693.1	699.6	706.0	773.6	861.6	878.8
62.5°	762.7	742.5	682.8	636.4	630.0	623.6	630.0	636.4	682.8	742.5	762.7
65°	625.0	596.0	546.6	509.6	509.6	509.6	509.6	509.6	546.6	596.0	625.0
67.5°	512.8	484.0	446.5	411.8	386.1	360.3	386.1	411.8	446.5	484.0	512.8
70°	440.9	406.5	364.7	329.0	311.8	294.6	311.8	329.0	364.7	406.5	440.9
72.5°	366.6	333.1	299.0	268.4	248.7	228.9	248.7	268.4	299.0	333.1	366.6
75°	262.2	228.4	197.2	173.3	171.2	169.1	171.2	173.3	197.2	228.4	262.2
77.5°	179.9	156.4	140.7	129.0	129.2	129.4	129.2	129.0	140.7	156.4	179.9
80°	122.4	105.7	104.7	104.1	105.2	106.3	105.2	104.1	104.7	105.7	122.4
82.5°	88.9	80.0	81.5	82.6	82.9	83.1	82.9	82.6	81.5	80.0	88.9
85°	49.4	46.2	41.9	38.4	37.3	36.2	37.3	38.4	41.9	46.2	49.4
87.5°	14.0	13.6	14.5	15.1	15.6	15.3	15.6	15.1	14.5	13.6	14.0
90°	15.1	19.7	24.3	27.0	29.6	28.3	29.6	27.0	24.3	19.7	15.1
92.5°	30.4	38.1	43.8	48.5	50.6	50.4	50.6	48.5	43.8	38.1	30.4
95°	61.1	70.4	79.6	86.1	90.1	88.8	90.1	86.1	79.6	70.4	61.1
97.5°	94.3	106.7	116.9	123.1	127.0	129.7	127.0	123.1	116.9	106.7	94.3
100°	116.4	128.2	140.1	147.3	153.9	156.5	153.9	147.3	140.1	128.2	116.4
102.5°	134.3	149.8	162.7	170.4	176.0	178.6	176.0	170.4	162.7	149.8	134.3
105°	163.7	180.2	194.0	203.8	209.8	211.7	209.8	203.8	194.0	180.2	163.7
107.5°	193.2	210.1	222.9	233.8	241.0	245.3	241.0	233.8	222.9	210.1	193.2
110°	216.3	230.1	243.9	253.8	261.0	263.7	261.0	253.8	243.9	230.1	216.3



TEST NUMBER: P1427889

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	235.8	251.2	265.0	274.8	283.1	286.8	283.1	274.8	265.0	251.2	235.8
115°	263.0	283.4	295.9	305.1	311.0	314.3	311.0	305.1	295.9	283.4	263.0
117.5°	285.6	306.9	320.6	327.7	330.5	332.8	330.5	327.7	320.6	306.9	285.6
120°	299.8	319.6	335.3	344.5	347.8	349.1	347.8	344.5	335.3	319.6	299.8
122.5°	313.0	331.7	346.9	358.2	363.6	364.9	363.6	358.2	346.9	331.7	313.0
125°	331.4	349.1	364.9	376.1	382.0	385.3	382.0	376.1	364.9	349.1	331.4
127.5°	347.4	366.6	381.1	391.2	397.0	399.6	397.0	391.2	381.1	366.6	347.4
130°	356.4	376.1	390.6	401.7	407.0	409.6	407.0	401.7	390.6	376.1	356.4
132.5°	363.2	384.0	399.0	409.1	414.9	417.5	414.9	409.1	399.0	384.0	363.2
135°	371.5	393.2	409.0	418.8	424.1	426.7	424.1	418.8	409.0	393.2	371.5
137.5°	378.7	398.5	414.9	425.3	430.0	431.7	430.0	425.3	414.9	398.5	378.7
140°	384.0	401.1	417.5	427.4	432.7	433.3	432.7	427.4	417.5	401.1	384.0
142.5°	390.8	404.2	418.6	428.4	433.7	434.9	433.7	428.4	418.6	404.2	390.8
145°	403.1	411.0	420.8	430.0	434.6	435.9	434.6	430.0	420.8	411.0	403.1
147.5°	418.4	420.9	426.1	432.1	436.6	437.5	436.6	432.1	426.1	420.9	418.4
150°	430.0	429.4	431.3	435.3	439.2	438.6	439.2	435.3	431.3	429.4	430.0
152.5°	443.2	439.4	439.2	441.1	442.9	442.8	442.9	441.1	439.2	439.4	443.2
155°	465.5	458.3	454.3	453.0	453.0	452.4	453.0	453.0	454.3	458.3	465.5
157.5°	490.1	480.0	474.1	470.9	470.0	468.6	470.0	470.9	474.1	480.0	490.1
160°	507.0	495.8	489.9	484.6	482.6	480.7	482.6	484.6	489.9	495.8	507.0
162.5°	522.7	512.1	505.6	500.9	498.9	495.9	498.9	500.9	505.6	512.1	522.7
165°	548.4	537.2	530.0	526.0	523.4	520.8	523.4	526.0	530.0	537.2	548.4
167.5°	574.0	561.8	557.1	552.6	550.1	545.4	550.1	552.6	557.1	561.8	574.0
170°	589.8	578.6	576.0	572.0	567.4	562.2	567.4	572.0	576.0	578.6	589.8
172.5°	603.5	596.0	593.4	589.4	588.0	583.8	588.0	589.4	593.4	596.0	603.5
175°	623.3	617.4	617.4	616.8	614.8	610.8	614.8	616.8	617.4	617.4	623.3
177.5°	639.9	636.7	638.9	638.9	638.3	634.6	638.3	638.9	638.9	636.7	639.9
180°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9



TEST NUMBER: P1427889

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2538.2	2538.2	2538.2	2538.2
2.5°	2539.5	2556.5	2544.4	2532.4
5°	2490.7	2540.9	2542.0	2543.1
7.5°	2362.7	2430.1	2463.4	2496.7
10°	2279.0	2355.2	2405.7	2456.1
12.5°	2203.7	2287.2	2366.8	2446.5
15°	2094.7	2179.5	2299.7	2419.9
17.5°	1998.5	2073.1	2202.5	2332.0
20°	1945.7	2014.7	2142.4	2270.2
22.5°	1898.1	1959.1	2088.5	2218.0
25°	1812.9	1857.4	2003.4	2149.4
27.5°	1733.8	1762.5	1914.9	2067.3
30°	1681.7	1704.5	1856.9	2009.3
32.5°	1621.8	1638.2	1795.7	1953.3
35°	1544.8	1557.7	1721.9	1886.2
37.5°	1457.7	1463.6	1639.6	1815.6
40°	1395.9	1396.2	1580.8	1765.4
42.5°	1336.7	1342.1	1526.7	1711.3
45°	1238.9	1245.9	1438.0	1630.2
47.5°	1166.8	1168.3	1351.4	1534.5
50°	1123.0	1115.5	1288.3	1461.1
52.5°	1081.1	1061.2	1225.4	1389.6
55°	1016.7	971.7	1129.4	1287.2
57.5°	911.4	880.2	1029.4	1178.5
60°	825.1	821.1	966.0	1110.9
62.5°	743.4	763.4	901.4	1039.4
65°	633.5	671.4	797.0	922.6
67.5°	532.8	575.1	684.6	794.1
70°	467.7	512.0	608.6	705.2
72.5°	399.5	444.8	527.7	610.5
75°	298.7	342.7	409.2	475.8
77.5°	211.2	246.9	295.4	343.9
80°	154.6	187.8	224.3	260.8
82.5°	108.2	129.4	156.5	183.5
85°	51.5	56.4	69.2	82.1
87.5°	15.9	17.1	17.5	17.8
90°	11.8	7.2	4.6	2.0
92.5°	25.5	17.8	12.5	7.2
95°	51.3	40.8	28.9	20.4
97.5°	81.7	64.7	53.0	38.9
100°	98.0	81.5	70.4	55.2
102.5°	115.9	102.0	86.7	71.5
105°	147.9	130.8	113.1	96.0
107.5°	177.7	158.9	137.6	122.2
110°	196.6	176.2	153.9	140.1



TEST NUMBER: P1427889

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	215.0	194.1	171.2	157.4
115°	240.0	217.0	195.9	184.1
117.5°	264.1	240.4	218.2	208.8
120°	278.8	255.1	233.4	226.2
122.5°	290.9	267.7	247.6	244.6
125°	309.0	285.4	268.3	272.2
127.5°	323.8	302.1	291.3	300.1
130°	332.7	313.6	307.1	319.6
132.5°	340.6	325.7	322.8	340.1
135°	352.4	343.9	346.5	370.2
137.5°	366.5	363.2	372.0	401.9
140°	375.4	377.4	389.9	423.4
142.5°	387.5	392.1	408.3	444.0
145°	406.4	416.2	437.3	472.8
147.5°	427.7	440.4	466.4	502.9
150°	441.9	458.3	485.9	520.8
152.5°	458.2	475.1	502.7	538.1
155°	483.3	502.3	531.3	561.5
157.5°	508.9	528.4	556.0	582.4
160°	524.7	545.7	570.7	595.1
162.5°	542.6	562.1	583.9	605.6
165°	568.8	584.5	602.3	620.7
167.5°	590.7	603.9	617.8	632.1
170°	604.9	615.4	627.3	638.5
172.5°	617.0	625.4	634.1	643.7
175°	633.2	637.8	643.1	649.0
177.5°	645.7	647.3	648.8	651.5
180°	650.9	650.9	650.9	650.9



TEST NUMBER: P1427889  
 CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L935-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	21.81	22.93	22.52	23.67	24.54	20.64	21.76	21.35	22.49	23.36
	3H	24.00	25.01	24.73	25.76	26.66	21.71	22.72	22.43	23.46	24.36
	4H	24.83	25.78	25.58	26.53	27.45	21.96	22.92	22.71	23.67	24.58
	6H	25.31	26.19	26.07	26.95	27.88	22.12	23.00	22.88	23.76	24.69
	8H	25.47	26.31	26.24	27.09	28.02	22.19	23.02	22.95	23.80	24.73
	12H	25.54	26.33	26.31	27.11	28.06	22.21	23.00	22.98	23.78	24.73
4H	2H	22.28	23.23	23.03	23.98	24.89	21.35	22.30	22.10	23.06	23.97
	3H	24.55	25.34	25.32	26.13	27.06	22.61	23.40	23.37	24.19	25.12
	4H	25.44	26.15	26.21	26.94	27.90	22.91	23.63	23.69	24.42	25.38
	6H	26.01	26.63	26.81	27.45	28.41	23.12	23.74	23.92	24.56	25.52
	8H	26.22	26.80	27.02	27.61	28.59	23.22	23.80	24.02	24.61	25.59
	12H	26.32	26.84	27.14	27.67	28.65	23.26	23.78	24.08	24.61	25.59
8H	4H	25.48	26.06	26.28	26.87	27.85	23.16	23.74	23.96	24.55	25.53
	6H	26.12	26.60	26.95	27.45	28.43	23.44	23.92	24.27	24.77	25.75
	8H	26.39	26.81	27.23	27.66	28.66	23.59	24.01	24.43	24.86	25.86
	12H	26.53	26.90	27.37	27.74	28.80	23.66	24.04	24.51	24.88	25.93
12H	4H	25.45	25.97	26.26	26.80	27.78	23.17	23.69	23.99	24.52	25.50
	6H	26.10	26.53	26.94	27.37	28.37	23.48	23.90	24.32	24.75	25.75
	8H	26.38	26.76	27.22	27.60	28.65	23.65	24.03	24.49	24.86	25.92