

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: P1427885

Luminaire Tested: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427885  
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-L830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

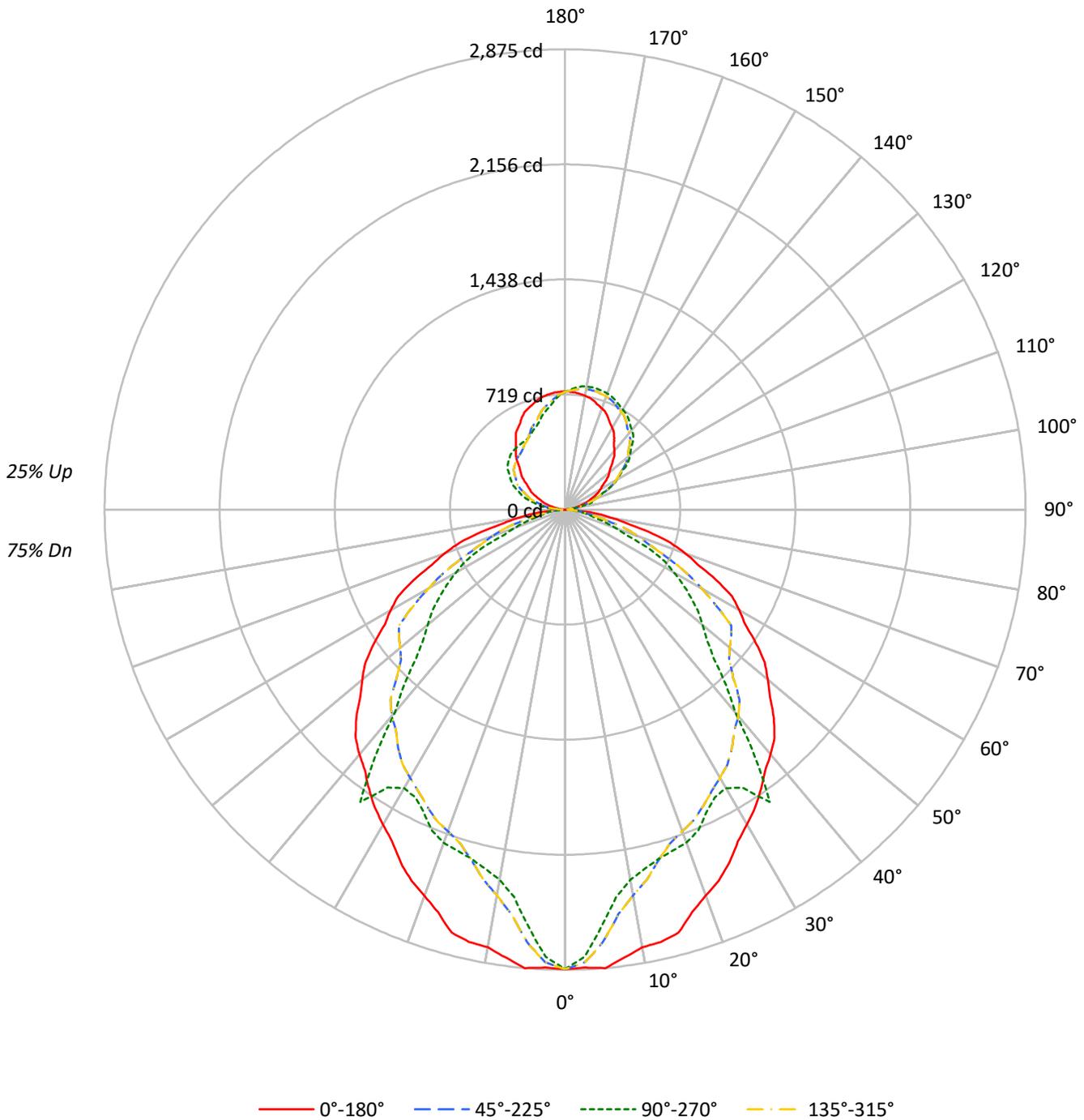
Lumens per Lamp: N/A  
Luminaire Lumens: 8497.4 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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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CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-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	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°	46334	46334	46334	46334
5°	46601	42353	46601	42353
10°	45528	38499	45528	38499
15°	45733	37746	45733	37746
20°	44100	38049	44100	38049
25°	43293	37165	43293	37165
30°	42354	37467	42354	37467
35°	42034	43916	42034	43916
40°	42069	34818	42069	34818
45°	42084	29989	42084	29989
50°	41495	28120	41495	28120
55°	40968	26978	40968	26978
60°	40561	25307	40561	25307
65°	39850	22009	39850	22009
70°	37638	15724	37638	15724
75°	33555	11921	33555	11921
80°	27419	11167	27419	11167
85°	17191	7595	17191	7595

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 42084 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	3.0
10°-20°	664.2	7.8
20°-30°	973.8	11.5
30°-40°	1179.2	13.9
40°-50°	1159.5	13.6
50°-60°	1008.6	11.9
60°-70°	701.5	8.3
70°-80°	332.7	3.9
80°-90°	76.4	0.9
90°-100°	58.6	0.7
100°-110°	170.8	2.0
110°-120°	278.8	3.3
120°-130°	353.7	4.2
130°-140°	378.5	4.5
140°-150°	353.4	4.2
150°-160°	290.8	3.4
160°-170°	195.1	2.3
170°-180°	69.3	0.8
0°-30°	1890.6	22.2
0°-40°	3069.7	36.1
0°-60°	5237.9	61.6
0°-90°	6348.4	74.7
90°-120°	508.2	6.0
90°-150°	1593.8	18.8
90°-180°	2149.0	25.3
0°-180°	8497.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2870	2870	2870	2870	2870	
5°	2875	2613	2875	2613	2875	270
15°	2736	2258	2736	2258	2736	763
25°	2430	2086	2430	2086	2430	1118
35°	2133	2228	2133	2228	2133	1336
45°	1843	1313	1843	1313	1843	1417
55°	1455	958	1455	958	1455	1300
65°	1043	576	1043	576	1043	1025
75°	538	191	538	191	538	570
85°	93	41	93	41	93	124
90°	2	16	2	32	2	4
95°	23	17	23	100	23	28
105°	108	174	108	239	108	115
115°	208	288	208	355	208	205
125°	308	457	308	436	308	275
135°	418	598	418	482	418	323
145°	534	690	534	493	534	334
155°	635	749	635	512	635	292
165°	702	781	702	589	702	198
175°	734	765	734	691	734	70
180°	736	736	736	736	736	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2863.3	2876.9	2890.5	2871.3	2841.2	2820.3	2808.7	2799.4	2797.5	2795.6	2797.5
5°	2875.3	2874.1	2872.9	2816.1	2740.9	2684.4	2646.8	2618.0	2615.6	2613.2	2615.6
7.5°	2822.9	2785.2	2747.6	2671.4	2582.3	2517.0	2475.5	2443.9	2442.0	2440.0	2442.0
10°	2777.0	2719.9	2662.9	2576.7	2480.9	2414.1	2376.5	2348.3	2348.3	2348.3	2348.3
12.5°	2766.1	2676.0	2586.0	2491.5	2395.7	2333.8	2305.9	2286.4	2292.2	2298.0	2292.2
15°	2736.0	2600.1	2464.2	2368.3	2285.8	2240.9	2233.6	2231.5	2244.8	2258.2	2244.8
17.5°	2636.6	2490.3	2343.9	2259.6	2196.0	2172.0	2187.5	2203.1	2218.6	2234.1	2218.6
20°	2566.7	2422.3	2277.9	2199.9	2144.1	2130.8	2159.9	2185.4	2199.9	2214.5	2199.9
22.5°	2507.8	2361.4	2215.0	2146.0	2102.8	2097.3	2129.3	2155.3	2163.0	2170.8	2163.0
25°	2430.2	2265.2	2100.1	2049.7	2037.6	2045.5	2073.4	2093.4	2089.8	2086.2	2089.8
27.5°	2337.4	2165.0	1992.7	1960.4	1974.7	1990.3	2007.3	2020.6	2022.8	2025.0	2022.8
30°	2271.8	2099.5	1927.2	1901.4	1924.4	1944.5	1961.5	1978.1	1993.9	2009.7	1993.9
32.5°	2208.5	2030.3	1852.2	1833.7	1868.4	1905.9	1946.2	1985.4	2021.6	2057.8	2021.6
35°	2132.6	1946.9	1761.2	1746.7	1789.1	1843.7	1910.5	1990.3	2109.2	2228.1	2109.2
37.5°	2052.8	1853.8	1654.8	1648.2	1705.7	1763.2	1820.7	1873.3	1911.2	1949.1	1911.2
40°	1996.0	1787.3	1578.6	1578.3	1647.4	1719.0	1793.1	1826.7	1739.4	1652.0	1739.4
42.5°	1934.9	1726.1	1517.4	1511.3	1572.7	1651.6	1747.9	1783.3	1635.7	1488.2	1635.7
45°	1843.1	1625.9	1408.7	1400.8	1462.7	1506.4	1531.8	1524.6	1419.0	1313.4	1419.0
47.5°	1735.0	1528.0	1320.9	1319.2	1386.0	1390.8	1333.8	1280.7	1239.4	1198.2	1239.4
50°	1652.0	1456.6	1261.2	1269.7	1346.2	1338.9	1247.9	1172.9	1146.2	1119.5	1146.2
52.5°	1571.2	1385.5	1199.8	1222.4	1314.4	1299.8	1178.7	1083.4	1065.4	1047.4	1065.4
55°	1455.4	1277.0	1098.6	1149.6	1277.0	1257.6	1091.3	965.7	962.1	958.4	962.1
57.5°	1332.5	1163.8	995.1	1030.5	1133.9	1113.5	969.4	862.8	869.1	875.4	869.1
60°	1256.1	1092.2	928.4	932.9	993.6	974.2	874.7	798.2	791.0	783.7	791.0
62.5°	1175.2	1019.2	863.1	840.5	862.3	839.5	772.0	719.6	712.3	705.0	712.3
65°	1043.1	901.1	759.1	716.3	706.6	673.8	618.0	576.1	576.1	576.1	576.1
67.5°	897.8	774.0	650.2	602.4	579.8	547.3	504.8	465.7	436.5	407.4	436.5
70°	797.3	688.1	578.9	528.8	498.5	459.6	412.3	372.0	352.5	333.1	352.5
72.5°	690.3	596.6	502.9	451.6	414.5	376.6	338.0	303.5	281.2	258.9	281.2
75°	537.9	462.7	387.4	337.7	296.4	258.2	223.0	196.0	193.6	191.1	193.6
77.5°	388.8	334.0	279.1	238.8	203.4	176.8	159.1	145.9	146.1	146.4	146.1
80°	294.9	253.6	212.4	174.8	138.3	119.5	118.3	117.7	118.9	120.1	118.9
82.5°	207.5	176.9	146.4	122.3	100.5	90.4	92.1	93.4	93.7	93.9	93.7
85°	92.8	78.3	63.7	58.3	55.8	52.2	47.3	43.4	42.2	41.0	42.2
87.5°	20.1	19.7	19.5	17.7	15.2	13.9	13.9	14.0	14.2	14.2	14.2
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.2	18.4	18.6	19.3	19.3	19.3
95°	23.0	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.0	47.3	49.4	66.2	69.9	67.5	55.0	46.2	41.3	39.1	41.3
100°	62.4	63.9	68.4	69.1	87.7	105.6	96.6	85.5	81.8	79.5	81.8
102.5°	80.9	81.8	88.6	91.7	96.1	106.2	137.1	133.7	131.1	130.7	131.1
105°	108.5	109.3	121.9	127.9	130.8	130.8	130.1	145.0	168.8	174.0	168.8
107.5°	138.1	141.5	156.4	172.3	175.7	176.6	172.8	170.5	169.6	170.2	169.6
110°	158.3	163.6	181.4	201.5	206.7	208.2	206.7	204.4	203.0	203.0	203.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.0	185.6	205.8	228.8	237.6	242.1	238.8	237.2	235.7	236.9	235.7
115°	208.2	219.3	246.1	269.9	287.7	289.9	289.2	289.2	288.4	288.4	288.4
117.5°	236.1	254.0	284.0	311.6	332.3	338.3	341.2	340.3	339.4	340.9	339.4
120°	255.7	276.6	310.8	342.0	362.0	371.0	373.9	372.5	373.9	372.5	373.9
122.5°	276.6	302.1	335.7	368.1	391.8	401.9	405.5	405.8	406.1	405.2	406.1
125°	307.8	339.0	378.4	411.9	436.4	448.3	451.3	452.0	453.5	457.2	453.5
127.5°	339.3	374.7	418.0	450.2	475.3	489.8	494.4	496.0	499.1	500.8	499.1
130°	361.3	401.4	445.3	475.8	500.3	515.9	524.1	526.3	530.1	529.3	530.1
132.5°	384.5	426.4	470.9	502.6	525.3	542.1	549.1	555.5	556.8	557.9	556.8
135°	418.5	463.9	508.5	539.7	561.3	577.6	586.6	592.5	596.2	598.5	596.2
137.5°	454.4	502.3	545.1	572.9	594.6	608.7	618.8	625.1	628.9	630.7	628.9
140°	478.8	524.9	566.5	595.5	614.8	628.9	637.9	645.3	649.8	649.8	649.8
142.5°	502.0	547.5	587.9	616.9	633.8	646.8	656.3	661.9	667.0	667.0	667.0
145°	534.5	579.9	617.0	646.0	660.2	672.1	682.5	686.9	689.9	689.9	689.9
147.5°	568.6	608.7	642.6	670.4	682.3	696.3	704.5	708.0	711.8	710.1	711.8
150°	588.8	626.0	658.7	684.7	696.6	710.0	718.1	721.1	724.8	722.6	724.8
152.5°	608.4	643.8	673.5	697.8	707.9	721.3	730.6	733.6	736.1	734.5	736.1
155°	634.9	666.1	693.6	715.9	724.8	737.5	746.4	750.1	753.1	749.4	753.1
157.5°	658.5	685.4	709.4	729.9	739.4	750.3	758.6	763.2	766.2	764.5	766.2
160°	672.8	697.3	718.9	738.2	747.1	756.8	765.7	770.9	773.9	771.7	773.9
162.5°	684.7	706.8	727.2	744.8	752.5	761.0	771.7	776.3	779.3	776.4	779.3
165°	701.8	719.6	737.5	752.3	759.0	765.7	776.9	782.1	784.3	781.3	784.3
167.5°	714.7	728.4	742.8	755.6	760.5	767.1	778.2	782.5	785.4	781.6	785.4
170°	721.9	733.8	746.4	756.8	760.5	766.5	777.6	781.3	783.6	779.9	783.6
172.5°	727.8	736.7	747.0	756.2	758.1	762.9	773.5	777.2	778.8	775.7	778.8
175°	733.8	739.0	746.4	752.3	751.6	754.6	763.5	766.5	769.4	765.0	769.4
177.5°	736.6	739.0	741.3	744.9	742.5	742.5	749.1	750.9	751.5	749.1	751.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2799.4	2808.7	2820.3	2841.2	2871.3	2890.5	2876.9	2863.3	2876.9	2890.5	2871.3
5°	2618.0	2646.8	2684.4	2740.9	2816.1	2872.9	2874.1	2875.3	2874.1	2872.9	2816.1
7.5°	2443.9	2475.5	2517.0	2582.3	2671.4	2747.6	2785.2	2822.9	2785.2	2747.6	2671.4
10°	2348.3	2376.5	2414.1	2480.9	2576.7	2662.9	2719.9	2777.0	2719.9	2662.9	2576.7
12.5°	2286.4	2305.9	2333.8	2395.7	2491.5	2586.0	2676.0	2766.1	2676.0	2586.0	2491.5
15°	2231.5	2233.6	2240.9	2285.8	2368.3	2464.2	2600.1	2736.0	2600.1	2464.2	2368.3
17.5°	2203.1	2187.5	2172.0	2196.0	2259.6	2343.9	2490.3	2636.6	2490.3	2343.9	2259.6
20°	2185.4	2159.9	2130.8	2144.1	2199.9	2277.9	2422.3	2566.7	2422.3	2277.9	2199.9
22.5°	2155.3	2129.3	2097.3	2102.8	2146.0	2215.0	2361.4	2507.8	2361.4	2215.0	2146.0
25°	2093.4	2073.4	2045.5	2037.6	2049.7	2100.1	2265.2	2430.2	2265.2	2100.1	2049.7
27.5°	2020.6	2007.3	1990.3	1974.7	1960.4	1992.7	2165.0	2337.4	2165.0	1992.7	1960.4
30°	1978.1	1961.5	1944.5	1924.4	1901.4	1927.2	2099.5	2271.8	2099.5	1927.2	1901.4
32.5°	1985.4	1946.2	1905.9	1868.4	1833.7	1852.2	2030.3	2208.5	2030.3	1852.2	1833.7
35°	1990.3	1910.5	1843.7	1789.1	1746.7	1761.2	1946.9	2132.6	1946.9	1761.2	1746.7
37.5°	1873.3	1820.7	1763.2	1705.7	1648.2	1654.8	1853.8	2052.8	1853.8	1654.8	1648.2
40°	1826.7	1793.1	1719.0	1647.4	1578.3	1578.6	1787.3	1996.0	1787.3	1578.6	1578.3
42.5°	1783.3	1747.9	1651.6	1572.7	1511.3	1517.4	1726.1	1934.9	1726.1	1517.4	1511.3
45°	1524.6	1531.8	1506.4	1462.7	1400.8	1408.7	1625.9	1843.1	1625.9	1408.7	1400.8
47.5°	1280.7	1333.8	1390.8	1386.0	1319.2	1320.9	1528.0	1735.0	1528.0	1320.9	1319.2
50°	1172.9	1247.9	1338.9	1346.2	1269.7	1261.2	1456.6	1652.0	1456.6	1261.2	1269.7
52.5°	1083.4	1178.7	1299.8	1314.4	1222.4	1199.8	1385.5	1571.2	1385.5	1199.8	1222.4
55°	965.7	1091.3	1257.6	1277.0	1149.6	1098.6	1277.0	1455.4	1277.0	1098.6	1149.6
57.5°	862.8	969.4	1113.5	1133.9	1030.5	995.1	1163.8	1332.5	1163.8	995.1	1030.5
60°	798.2	874.7	974.2	993.6	932.9	928.4	1092.2	1256.1	1092.2	928.4	932.9
62.5°	719.6	772.0	839.5	862.3	840.5	863.1	1019.2	1175.2	1019.2	863.1	840.5
65°	576.1	618.0	673.8	706.6	716.3	759.1	901.1	1043.1	901.1	759.1	716.3
67.5°	465.7	504.8	547.3	579.8	602.4	650.2	774.0	897.8	774.0	650.2	602.4
70°	372.0	412.3	459.6	498.5	528.8	578.9	688.1	797.3	688.1	578.9	528.8
72.5°	303.5	338.0	376.6	414.5	451.6	502.9	596.6	690.3	596.6	502.9	451.6
75°	196.0	223.0	258.2	296.4	337.7	387.4	462.7	537.9	462.7	387.4	337.7
77.5°	145.9	159.1	176.8	203.4	238.8	279.1	334.0	388.8	334.0	279.1	238.8
80°	117.7	118.3	119.5	138.3	174.8	212.4	253.6	294.9	253.6	212.4	174.8
82.5°	93.4	92.1	90.4	100.5	122.3	146.4	176.9	207.5	176.9	146.4	122.3
85°	43.4	47.3	52.2	55.8	58.3	63.7	78.3	92.8	78.3	63.7	58.3
87.5°	14.0	13.9	13.9	15.2	17.7	19.5	19.7	20.1	19.7	19.4	18.0
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1427885

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.2	238.8	242.1	237.6	228.8	205.8	185.6	178.0	193.6	219.5	243.1
115°	289.2	289.2	289.9	287.7	269.9	246.1	219.3	208.2	221.5	245.3	271.4
117.5°	340.3	341.2	338.3	332.3	311.6	284.0	254.0	236.1	246.7	271.8	298.6
120°	372.5	373.9	371.0	362.0	342.0	310.8	276.6	255.7	263.9	288.4	315.2
122.5°	405.8	405.5	401.9	391.8	368.1	335.7	302.1	276.6	280.0	302.7	328.9
125°	452.0	451.3	448.3	436.4	411.9	378.4	339.0	307.8	303.3	322.6	349.4
127.5°	496.0	494.4	489.8	475.3	450.2	418.0	374.7	339.3	329.3	341.5	366.1
130°	526.3	524.1	515.9	500.3	475.8	445.3	401.4	361.3	347.2	354.6	376.2
132.5°	555.5	549.1	542.1	525.3	502.6	470.9	426.4	384.5	365.0	368.3	385.1
135°	592.5	586.6	577.6	561.3	539.7	508.5	463.9	418.5	391.8	388.8	398.5
137.5°	625.1	618.8	608.7	594.6	572.9	545.1	502.3	454.4	420.6	410.7	414.4
140°	645.3	637.9	628.9	614.8	595.5	566.5	524.9	478.8	440.9	426.7	424.5
142.5°	661.9	656.3	646.8	633.8	616.9	587.9	547.5	502.0	461.7	443.4	438.2
145°	686.9	682.5	672.1	660.2	646.0	617.0	579.9	534.5	494.4	470.6	459.4
147.5°	708.0	704.5	696.3	682.3	670.4	642.6	608.7	568.6	527.4	497.9	483.5
150°	721.1	718.1	710.0	696.6	684.7	658.7	626.0	588.8	549.4	518.2	499.6
152.5°	733.6	730.6	721.3	707.9	697.8	673.5	643.8	608.4	568.4	537.2	518.0
155°	750.1	746.4	737.5	724.8	715.9	693.6	666.1	634.9	600.7	568.0	546.4
157.5°	763.2	758.6	750.3	739.4	729.9	709.4	685.4	658.5	628.6	597.4	575.4
160°	770.9	765.7	756.8	747.1	738.2	718.9	697.3	672.8	645.3	617.0	593.3
162.5°	776.3	771.7	761.0	752.5	744.8	727.2	706.8	684.7	660.2	635.5	613.5
165°	782.1	776.9	765.7	759.0	752.3	737.5	719.6	701.8	681.0	660.9	643.1
167.5°	782.5	778.2	767.1	760.5	755.6	742.8	728.4	714.7	698.5	682.8	667.9
170°	781.3	777.6	766.5	760.5	756.8	746.4	733.8	721.9	709.2	695.8	684.0
172.5°	777.2	773.5	762.9	758.1	756.2	747.0	736.7	727.8	717.0	707.1	697.6
175°	766.5	763.5	754.6	751.6	752.3	746.4	739.0	733.8	727.1	721.1	715.9
177.5°	750.9	749.1	742.5	742.5	744.9	741.3	739.0	736.6	733.6	731.8	730.0
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427885

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2841.2	2820.3	2808.7	2799.4	2797.5	2795.6	2797.5	2799.4	2808.7	2820.3	2841.2
5°	2740.9	2684.4	2646.8	2618.0	2615.6	2613.2	2615.6	2618.0	2646.8	2684.4	2740.9
7.5°	2582.3	2517.0	2475.5	2443.9	2442.0	2440.0	2442.0	2443.9	2475.5	2517.0	2582.3
10°	2480.9	2414.1	2376.5	2348.3	2348.3	2348.3	2348.3	2348.3	2376.5	2414.1	2480.9
12.5°	2395.7	2333.8	2305.9	2286.4	2292.2	2298.0	2292.2	2286.4	2305.9	2333.8	2395.7
15°	2285.8	2240.9	2233.6	2231.5	2244.8	2258.2	2244.8	2231.5	2233.6	2240.9	2285.8
17.5°	2196.0	2172.0	2187.5	2203.1	2218.6	2234.1	2218.6	2203.1	2187.5	2172.0	2196.0
20°	2144.1	2130.8	2159.9	2185.4	2199.9	2214.5	2199.9	2185.4	2159.9	2130.8	2144.1
22.5°	2102.8	2097.3	2129.3	2155.3	2163.0	2170.8	2163.0	2155.3	2129.3	2097.3	2102.8
25°	2037.6	2045.5	2073.4	2093.4	2089.8	2086.2	2089.8	2093.4	2073.4	2045.5	2037.6
27.5°	1974.7	1990.3	2007.3	2020.6	2022.8	2025.0	2022.8	2020.6	2007.3	1990.3	1974.7
30°	1924.4	1944.5	1961.5	1978.1	1993.9	2009.7	1993.9	1978.1	1961.5	1944.5	1924.4
32.5°	1868.4	1905.9	1946.2	1985.4	2021.6	2057.8	2021.6	1985.4	1946.2	1905.9	1868.4
35°	1789.1	1843.7	1910.5	1990.3	2109.2	2228.1	2109.2	1990.3	1910.5	1843.7	1789.1
37.5°	1705.7	1763.2	1820.7	1873.3	1911.2	1949.1	1911.2	1873.3	1820.7	1763.2	1705.7
40°	1647.4	1719.0	1793.1	1826.7	1739.4	1652.0	1739.4	1826.7	1793.1	1719.0	1647.4
42.5°	1572.7	1651.6	1747.9	1783.3	1635.7	1488.2	1635.7	1783.3	1747.9	1651.6	1572.7
45°	1462.7	1506.4	1531.8	1524.6	1419.0	1313.4	1419.0	1524.6	1531.8	1506.4	1462.7
47.5°	1386.0	1390.8	1333.8	1280.7	1239.4	1198.2	1239.4	1280.7	1333.8	1390.8	1386.0
50°	1346.2	1338.9	1247.9	1172.9	1146.2	1119.5	1146.2	1172.9	1247.9	1338.9	1346.2
52.5°	1314.4	1299.8	1178.7	1083.4	1065.4	1047.4	1065.4	1083.4	1178.7	1299.8	1314.4
55°	1277.0	1257.6	1091.3	965.7	962.1	958.4	962.1	965.7	1091.3	1257.6	1277.0
57.5°	1133.9	1113.5	969.4	862.8	869.1	875.4	869.1	862.8	969.4	1113.5	1133.9
60°	993.6	974.2	874.7	798.2	791.0	783.7	791.0	798.2	874.7	974.2	993.6
62.5°	862.3	839.5	772.0	719.6	712.3	705.0	712.3	719.6	772.0	839.5	862.3
65°	706.6	673.8	618.0	576.1	576.1	576.1	576.1	576.1	618.0	673.8	706.6
67.5°	579.8	547.3	504.8	465.7	436.5	407.4	436.5	465.7	504.8	547.3	579.8
70°	498.5	459.6	412.3	372.0	352.5	333.1	352.5	372.0	412.3	459.6	498.5
72.5°	414.5	376.6	338.0	303.5	281.2	258.9	281.2	303.5	338.0	376.6	414.5
75°	296.4	258.2	223.0	196.0	193.6	191.1	193.6	196.0	223.0	258.2	296.4
77.5°	203.4	176.8	159.1	145.9	146.1	146.4	146.1	145.9	159.1	176.8	203.4
80°	138.3	119.5	118.3	117.7	118.9	120.1	118.9	117.7	118.3	119.5	138.3
82.5°	100.5	90.4	92.1	93.4	93.7	93.9	93.7	93.4	92.1	90.4	100.5
85°	55.8	52.2	47.3	43.4	42.2	41.0	42.2	43.4	47.3	52.2	55.8
87.5°	15.8	15.4	16.4	17.0	17.6	17.3	17.6	17.0	16.4	15.4	15.8
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	22.3	17.1	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	49.5	43.1	34.3	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1427885

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.6	284.0	299.6	310.8	320.1	324.3	320.1	310.8	299.6	284.0	266.6
115°	297.4	320.4	334.5	344.9	351.6	355.4	351.6	344.9	334.5	320.4	297.4
117.5°	322.9	347.0	362.5	370.5	373.6	376.3	373.6	370.5	362.5	347.0	322.9
120°	339.0	361.3	379.1	389.6	393.3	394.8	393.3	389.6	379.1	361.3	339.0
122.5°	353.9	375.0	392.2	405.0	411.1	412.6	411.1	405.0	392.2	375.0	353.9
125°	374.7	394.8	412.6	425.2	431.9	435.6	431.9	425.2	412.6	394.8	374.7
127.5°	392.8	414.5	430.9	442.3	448.9	451.9	448.9	442.3	430.9	414.5	392.8
130°	402.9	425.2	441.6	454.2	460.2	463.2	460.2	454.2	441.6	425.2	402.9
132.5°	410.7	434.2	451.1	462.6	469.1	472.1	469.1	462.6	451.1	434.2	410.7
135°	420.0	444.6	462.4	473.6	479.5	482.5	479.5	473.6	462.4	444.6	420.0
137.5°	428.2	450.5	469.1	480.8	486.2	488.1	486.2	480.8	469.1	450.5	428.2
140°	434.2	453.5	472.1	483.2	489.2	489.9	489.2	483.2	472.1	453.5	434.2
142.5°	441.9	457.1	473.3	484.4	490.4	491.7	490.4	484.4	473.3	457.1	441.9
145°	455.7	464.6	475.8	486.2	491.4	492.9	491.4	486.2	475.8	464.6	455.7
147.5°	473.1	475.9	481.7	488.6	493.6	494.7	493.6	488.6	481.7	475.9	473.1
150°	486.2	485.5	487.7	492.1	496.6	495.9	496.6	492.1	487.7	485.5	486.2
152.5°	501.1	496.8	496.6	498.7	500.8	500.6	500.8	498.7	496.6	496.8	501.1
155°	526.3	518.2	513.7	512.2	512.2	511.5	512.2	512.2	513.7	518.2	526.3
157.5°	554.1	542.7	536.0	532.4	531.4	529.8	531.4	532.4	536.0	542.7	554.1
160°	573.2	560.5	553.9	547.9	545.7	543.4	545.7	547.9	553.9	560.5	573.2
162.5°	591.0	579.0	571.7	566.3	564.1	560.7	564.1	566.3	571.7	579.0	591.0
165°	620.0	607.4	599.2	594.7	591.8	588.8	591.8	594.7	599.2	607.4	620.0
167.5°	649.0	635.2	629.8	624.8	621.9	616.6	621.9	624.8	629.8	635.2	649.0
170°	666.9	654.2	651.2	646.8	641.6	635.6	641.6	646.8	651.2	654.2	666.9
172.5°	682.3	673.8	670.9	666.4	664.8	660.0	664.8	666.4	670.9	673.8	682.3
175°	704.8	698.1	698.1	697.3	695.1	690.6	695.1	697.3	698.1	698.1	704.8
177.5°	723.5	719.9	722.3	722.3	721.7	717.6	721.7	722.3	722.3	719.9	723.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427885

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2869.8	2869.8	2869.8	2869.8
2.5°	2871.3	2890.5	2876.9	2863.3
5°	2816.1	2872.9	2874.1	2875.3
7.5°	2671.4	2747.6	2785.2	2822.9
10°	2576.7	2662.9	2719.9	2777.0
12.5°	2491.5	2586.0	2676.0	2766.1
15°	2368.3	2464.2	2600.1	2736.0
17.5°	2259.6	2343.9	2490.3	2636.6
20°	2199.9	2277.9	2422.3	2566.7
22.5°	2146.0	2215.0	2361.4	2507.8
25°	2049.7	2100.1	2265.2	2430.2
27.5°	1960.4	1992.7	2165.0	2337.4
30°	1901.4	1927.2	2099.5	2271.8
32.5°	1833.7	1852.2	2030.3	2208.5
35°	1746.7	1761.2	1946.9	2132.6
37.5°	1648.2	1654.8	1853.8	2052.8
40°	1578.3	1578.6	1787.3	1996.0
42.5°	1511.3	1517.4	1726.1	1934.9
45°	1400.8	1408.7	1625.9	1843.1
47.5°	1319.2	1320.9	1528.0	1735.0
50°	1269.7	1261.2	1456.6	1652.0
52.5°	1222.4	1199.8	1385.5	1571.2
55°	1149.6	1098.6	1277.0	1455.4
57.5°	1030.5	995.1	1163.8	1332.5
60°	932.9	928.4	1092.2	1256.1
62.5°	840.5	863.1	1019.2	1175.2
65°	716.3	759.1	901.1	1043.1
67.5°	602.4	650.2	774.0	897.8
70°	528.8	578.9	688.1	797.3
72.5°	451.6	502.9	596.6	690.3
75°	337.7	387.4	462.7	537.9
77.5°	238.8	279.1	334.0	388.8
80°	174.8	212.4	253.6	294.9
82.5°	122.3	146.4	176.9	207.5
85°	58.3	63.7	78.3	92.8
87.5°	18.0	19.4	19.7	20.1
90°	13.4	8.2	5.2	2.2
92.5°	28.8	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.0
97.5°	92.3	73.2	59.9	44.0
100°	110.8	92.2	79.5	62.4
102.5°	131.0	115.4	98.0	80.9
105°	167.3	147.9	127.9	108.5
107.5°	200.9	179.6	155.5	138.1
110°	222.3	199.2	174.0	158.3



TEST NUMBER: P1427885

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	243.1	219.5	193.6	178.0
115°	271.4	245.3	221.5	208.2
117.5°	298.6	271.8	246.7	236.1
120°	315.2	288.4	263.9	255.7
122.5°	328.9	302.7	280.0	276.6
125°	349.4	322.6	303.3	307.8
127.5°	366.1	341.5	329.3	339.3
130°	376.2	354.6	347.2	361.3
132.5°	385.1	368.3	365.0	384.5
135°	398.5	388.8	391.8	418.5
137.5°	414.4	410.7	420.6	454.4
140°	424.5	426.7	440.9	478.8
142.5°	438.2	443.4	461.7	502.0
145°	459.4	470.6	494.4	534.5
147.5°	483.5	497.9	527.4	568.6
150°	499.6	518.2	549.4	588.8
152.5°	518.0	537.2	568.4	608.4
155°	546.4	568.0	600.7	634.9
157.5°	575.4	597.4	628.6	658.5
160°	593.3	617.0	645.3	672.8
162.5°	613.5	635.5	660.2	684.7
165°	643.1	660.9	681.0	701.8
167.5°	667.9	682.8	698.5	714.7
170°	684.0	695.8	709.2	721.9
172.5°	697.6	707.1	717.0	727.8
175°	715.9	721.1	727.1	733.8
177.5°	730.0	731.8	733.6	736.6
180°	736.0	736.0	736.0	736.0



TEST NUMBER: P1427885  
 CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L830-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	22.24	23.36	22.95	24.09	24.96	21.06	22.19	21.78	22.92	23.79
	3H	24.43	25.44	25.16	26.18	27.08	22.13	23.14	22.86	23.89	24.79
	4H	25.26	26.21	26.00	26.96	27.87	22.39	23.34	23.14	24.09	25.01
	6H	25.74	26.61	26.50	27.38	28.30	22.55	23.42	23.30	24.18	25.11
	8H	25.90	26.73	26.67	27.51	28.44	22.61	23.45	23.38	24.23	25.16
	12H	25.96	26.76	26.74	27.53	28.49	22.63	23.43	23.41	24.20	25.16
4H	2H	22.70	23.65	23.45	24.41	25.32	21.78	22.73	22.53	23.48	24.40
	3H	24.98	25.77	25.74	26.56	27.49	23.03	23.83	23.80	24.61	25.54
	4H	25.86	26.58	26.64	27.37	28.33	23.34	24.05	24.11	24.84	25.80
	6H	26.44	27.06	27.23	27.87	28.84	23.55	24.17	24.35	24.98	25.95
	8H	26.65	27.23	27.45	28.03	29.01	23.65	24.23	24.45	25.03	26.01
	12H	26.74	27.26	27.56	28.09	29.08	23.68	24.20	24.50	25.03	26.02
8H	4H	25.91	26.49	26.71	27.29	28.27	23.59	24.17	24.39	24.98	25.95
	6H	26.55	27.03	27.38	27.88	28.86	23.87	24.34	24.69	25.20	26.18
	8H	26.81	27.24	27.65	28.09	29.08	24.01	24.44	24.85	25.29	26.28
	12H	26.96	27.33	27.80	28.17	29.22	24.09	24.47	24.93	25.30	26.36
12H	4H	25.87	26.39	26.69	27.22	28.21	23.60	24.12	24.42	24.95	25.93
	6H	26.53	26.95	27.37	27.80	28.80	23.90	24.33	24.74	25.18	26.17
	8H	26.81	27.18	27.65	28.02	29.08	24.08	24.45	24.92	25.29	26.34