

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: P1427862

Luminaire Tested: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427862  
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-025U-125D-L835-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 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

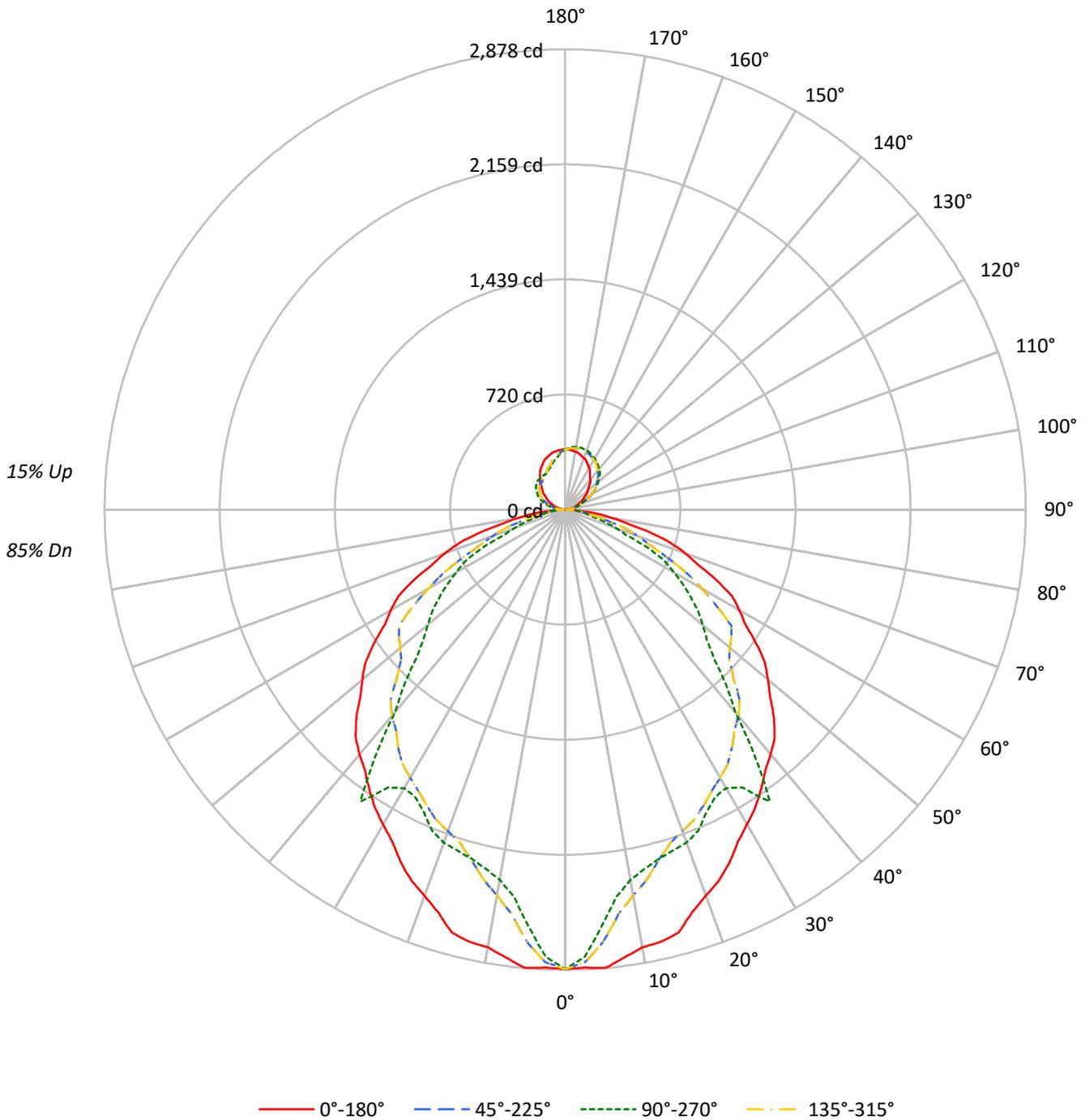
Lumens per Lamp: N/A  
Luminaire Lumens: 7448.1 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.7  
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-025U-125D-L835-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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	89	89	89	85				
1	106	102	98	94	102	98	94	91	91	88	86	85	83	81	79	77	76	73				
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	64	61				
3	89	79	71	65	85	76	69	63	71	65	60	66	62	58	62	58	55	52				
4	81	70	62	55	78	68	60	54	63	57	52	59	54	50	56	51	47	45				
5	75	63	54	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39				
6	69	56	48	42	66	55	47	41	51	45	39	48	42	38	46	40	37	34				
7	64	51	43	37	61	50	42	36	47	40	35	44	38	34	42	36	33	30				
8	60	47	38	33	57	45	38	32	43	36	31	40	35	30	38	33	29	27				
9	56	43	35	30	54	42	34	29	39	33	28	37	32	27	35	30	26	25				
10	52	39	32	27	50	38	31	26	36	30	26	35	29	25	33	28	24	22				

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

	0°	90°	180°	270°
0°	46376	46376	46376	46376
5°	46643	42390	46643	42390
10°	45569	38534	45569	38534
15°	45774	37779	45774	37779
20°	44140	38083	44140	38083
25°	43332	37197	43332	37197
30°	42393	37501	42393	37501
35°	42071	43957	42071	43957
40°	42107	34850	42107	34850
45°	42123	30017	42123	30017
50°	41533	28145	41533	28145
55°	41005	27003	41005	27003
60°	40596	25329	40596	25329
65°	39885	22032	39885	22032
70°	37671	15739	37671	15739
75°	33586	11934	33586	11934
80°	27447	11185	27447	11185
85°	17210	7595	17210	7595

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 42123 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	3.4
10°-20°	664.8	8.9
20°-30°	974.7	13.1
30°-40°	1180.2	15.8
40°-50°	1160.6	15.6
50°-60°	1009.5	13.6
60°-70°	702.1	9.4
70°-80°	333.0	4.5
80°-90°	75.0	1.0
90°-100°	29.9	0.4
100°-110°	87.1	1.2
110°-120°	142.1	1.9
120°-130°	180.3	2.4
130°-140°	192.9	2.6
140°-150°	180.2	2.4
150°-160°	148.3	2.0
160°-170°	99.4	1.3
170°-180°	35.3	0.5
0°-30°	1892.3	25.4
0°-40°	3072.5	41.3
0°-60°	5242.6	70.4
0°-90°	6352.7	85.3
90°-120°	259.0	3.5
90°-150°	812.5	10.9
90°-180°	1095.0	14.7
0°-180°	7448.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2872	2872	2872	2872	2872	
5°	2878	2616	2878	2616	2878	271
15°	2738	2260	2738	2260	2738	763
25°	2432	2088	2432	2088	2432	1119
35°	2134	2230	2134	2230	2134	1337
45°	1845	1315	1845	1315	1845	1418
55°	1457	959	1457	959	1457	1301
65°	1044	577	1044	577	1044	1026
75°	538	191	538	191	538	571
85°	93	41	93	41	93	125
90°	1	8	1	16	1	4
95°	12	9	12	51	12	14
105°	55	89	55	122	55	59
115°	106	147	106	181	106	105
125°	157	233	157	222	157	140
135°	213	305	213	246	213	165
145°	272	352	272	251	272	170
155°	324	382	324	261	324	149
165°	358	398	358	300	358	101
175°	374	390	374	352	374	35
180°	375	375	375	375	375	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4
2.5°	2865.9	2879.5	2893.1	2873.9	2843.7	2822.9	2811.2	2802.0	2800.0	2798.1	2800.0
5°	2877.9	2876.7	2875.5	2818.7	2743.4	2686.9	2649.2	2620.4	2617.9	2615.5	2617.9
7.5°	2825.4	2787.8	2750.1	2673.8	2584.7	2519.3	2477.8	2446.1	2444.2	2442.2	2444.2
10°	2779.5	2722.4	2665.3	2579.1	2483.1	2416.3	2378.6	2350.4	2350.4	2350.4	2350.4
12.5°	2768.6	2678.4	2588.3	2493.8	2397.8	2335.9	2308.0	2288.5	2294.3	2300.1	2294.3
15°	2738.5	2602.5	2466.4	2370.4	2287.9	2242.9	2235.6	2233.5	2246.9	2260.2	2246.9
17.5°	2639.0	2492.5	2346.0	2261.7	2198.0	2174.0	2189.5	2205.1	2220.6	2236.2	2220.6
20°	2569.0	2424.5	2280.0	2201.9	2146.0	2132.7	2161.8	2187.3	2201.9	2216.5	2201.9
22.5°	2510.0	2363.5	2217.0	2148.0	2104.7	2099.1	2131.2	2157.2	2165.0	2172.8	2165.0
25°	2432.4	2267.2	2102.0	2051.6	2039.4	2047.3	2075.3	2095.3	2091.7	2088.0	2091.7
27.5°	2339.5	2167.0	1994.5	1962.1	1976.5	1992.1	2009.1	2022.4	2024.6	2026.8	2024.6
30°	2273.9	2101.4	1928.9	1903.1	1926.2	1946.2	1963.2	1979.9	1995.7	2011.5	1995.7
32.5°	2210.5	2032.2	1853.8	1835.3	1870.1	1907.6	1947.9	1987.2	2023.4	2059.6	2023.4
35°	2134.5	1948.7	1762.8	1748.2	1790.7	1845.4	1912.2	1992.1	2111.1	2230.2	2111.1
37.5°	2054.7	1855.5	1656.3	1649.7	1707.2	1764.8	1822.4	1875.0	1912.9	1950.8	1912.9
40°	1997.8	1788.9	1580.0	1579.7	1648.9	1720.6	1794.7	1828.4	1740.9	1653.5	1740.9
42.5°	1936.6	1727.7	1518.8	1512.6	1574.1	1653.1	1749.5	1784.9	1637.2	1489.5	1637.2
45°	1844.8	1627.4	1409.9	1402.0	1464.0	1507.7	1533.2	1525.9	1420.3	1314.6	1420.3
47.5°	1736.6	1529.3	1322.1	1320.4	1387.2	1392.1	1335.0	1281.9	1240.6	1199.3	1240.6
50°	1653.5	1457.9	1262.4	1270.9	1347.4	1340.1	1249.0	1174.0	1147.3	1120.5	1147.3
52.5°	1572.6	1386.7	1200.9	1223.5	1315.6	1301.0	1179.8	1084.3	1066.4	1048.4	1066.4
55°	1456.7	1278.1	1099.6	1150.6	1278.1	1258.7	1092.3	966.6	962.9	959.3	962.9
57.5°	1333.7	1164.9	996.0	1031.4	1134.9	1114.5	970.2	863.6	869.9	876.2	869.9
60°	1257.2	1093.2	929.2	933.8	994.5	975.1	875.5	799.0	791.7	784.4	791.7
62.5°	1176.3	1020.1	863.9	841.2	863.1	840.3	772.7	720.2	713.0	705.7	713.0
65°	1044.0	901.9	759.8	717.0	707.2	674.5	618.6	576.7	576.7	576.7	576.7
67.5°	898.6	774.7	650.8	602.9	580.3	547.8	505.2	466.1	436.9	407.8	436.9
70°	798.0	688.7	579.4	529.3	498.9	460.1	412.7	372.3	352.9	333.4	352.9
72.5°	690.9	597.1	503.4	452.0	414.9	377.0	338.3	303.8	281.4	259.1	281.4
75°	538.4	463.1	387.8	338.0	296.7	258.4	223.2	196.2	193.7	191.3	193.7
77.5°	389.2	334.3	279.4	239.0	203.6	177.0	159.2	146.0	146.2	146.5	146.2
80°	295.2	253.9	212.6	174.9	138.5	119.6	118.4	117.8	119.0	120.3	119.0
82.5°	207.7	177.1	146.5	122.4	100.6	90.5	92.2	93.5	93.8	94.0	93.8
85°	92.9	78.3	63.8	58.3	55.9	52.2	47.4	43.4	42.2	41.0	42.2
87.5°	19.9	19.2	18.6	16.5	13.8	12.4	12.4	12.5	12.6	12.6	12.6
90°	1.1	2.7	4.5	6.1	7.2	7.6	7.6	8.0	8.3	8.3	8.3
92.5°	4.2	6.6	6.7	6.7	8.1	8.8	9.4	9.5	9.9	9.9	9.9
95°	11.7	12.9	19.3	18.9	12.9	10.2	8.7	8.7	8.7	8.7	8.7
97.5°	22.4	24.1	25.2	33.7	35.6	34.4	28.0	23.6	21.1	19.9	21.1
100°	31.8	32.6	34.9	35.2	44.7	53.8	49.3	43.6	41.7	40.5	41.7
102.5°	41.2	41.7	45.2	46.8	49.0	54.1	69.9	68.1	66.9	66.6	66.9
105°	55.3	55.7	62.2	65.2	66.7	66.7	66.3	73.9	86.0	88.7	86.0
107.5°	70.4	72.2	79.7	87.8	89.6	90.0	88.1	86.9	86.5	86.8	86.5
110°	80.7	83.4	92.5	102.7	105.4	106.1	105.4	104.2	103.5	103.5	103.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	90.7	94.6	104.9	116.6	121.1	123.4	121.7	120.9	120.1	120.7	120.1
115°	106.1	111.8	125.4	137.6	146.7	147.8	147.4	147.4	147.0	147.0	147.0
117.5°	120.4	129.5	144.8	158.9	169.4	172.4	173.9	173.5	173.0	173.8	173.0
120°	130.4	141.0	158.4	174.3	184.6	189.1	190.6	189.9	190.6	189.9	190.6
122.5°	141.0	154.0	171.1	187.7	199.7	204.9	206.7	206.8	207.0	206.5	207.0
125°	156.9	172.8	192.9	209.9	222.5	228.5	230.0	230.4	231.2	233.1	231.2
127.5°	173.0	191.0	213.1	229.5	242.3	249.7	252.0	252.8	254.4	255.3	254.4
130°	184.2	204.6	227.0	242.5	255.0	263.0	267.2	268.3	270.2	269.8	270.2
132.5°	196.0	217.4	240.0	256.2	267.8	276.3	279.9	283.2	283.8	284.4	283.8
135°	213.4	236.5	259.2	275.1	286.1	294.5	299.0	302.0	303.9	305.1	303.9
137.5°	231.6	256.0	277.9	292.0	303.1	310.3	315.5	318.6	320.6	321.5	320.6
140°	244.1	267.6	288.8	303.6	313.4	320.6	325.2	328.9	331.2	331.2	331.2
142.5°	255.9	279.1	299.7	314.5	323.1	329.7	334.6	337.4	340.0	340.0	340.0
145°	272.5	295.6	314.5	329.3	336.5	342.6	347.9	350.2	351.7	351.7	351.7
147.5°	289.8	310.3	327.6	341.8	347.8	354.9	359.1	360.9	362.8	362.0	362.8
150°	300.1	319.1	335.8	349.0	355.1	361.9	366.1	367.6	369.5	368.4	369.5
152.5°	310.1	328.2	343.3	355.7	360.9	367.7	372.5	374.0	375.3	374.4	375.3
155°	323.6	339.6	353.6	364.9	369.5	375.9	380.5	382.4	383.9	382.0	383.9
157.5°	335.7	349.4	361.6	372.1	376.9	382.5	386.7	389.1	390.6	389.7	390.6
160°	343.0	355.5	366.5	376.3	380.9	385.8	390.3	393.0	394.5	393.4	394.5
162.5°	349.0	360.3	370.7	379.7	383.6	387.9	393.4	395.7	397.2	395.8	397.2
165°	357.7	366.8	375.9	383.5	386.9	390.3	396.0	398.7	399.8	398.3	399.8
167.5°	364.3	371.3	378.7	385.2	387.7	391.0	396.7	398.9	400.3	398.4	400.3
170°	368.0	374.0	380.5	385.8	387.7	390.7	396.4	398.3	399.4	397.5	399.4
172.5°	371.0	375.6	380.8	385.5	386.5	388.9	394.3	396.2	397.0	395.4	397.0
175°	374.0	376.7	380.5	383.5	383.1	384.7	389.2	390.7	392.2	390.0	392.2
177.5°	375.5	376.7	377.9	379.7	378.5	378.5	381.9	382.8	383.1	381.9	383.1
180°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4
2.5°	2802.0	2811.2	2822.9	2843.7	2873.9	2893.1	2879.5	2865.9	2879.5	2893.1	2873.9
5°	2620.4	2649.2	2686.9	2743.4	2818.7	2875.5	2876.7	2877.9	2876.7	2875.5	2818.7
7.5°	2446.1	2477.8	2519.3	2584.7	2673.8	2750.1	2787.8	2825.4	2787.8	2750.1	2673.8
10°	2350.4	2378.6	2416.3	2483.1	2579.1	2665.3	2722.4	2779.5	2722.4	2665.3	2579.1
12.5°	2288.5	2308.0	2335.9	2397.8	2493.8	2588.3	2678.4	2768.6	2678.4	2588.3	2493.8
15°	2233.5	2235.6	2242.9	2287.9	2370.4	2466.4	2602.5	2738.5	2602.5	2466.4	2370.4
17.5°	2205.1	2189.5	2174.0	2198.0	2261.7	2346.0	2492.5	2639.0	2492.5	2346.0	2261.7
20°	2187.3	2161.8	2132.7	2146.0	2201.9	2280.0	2424.5	2569.0	2424.5	2280.0	2201.9
22.5°	2157.2	2131.2	2099.1	2104.7	2148.0	2217.0	2363.5	2510.0	2363.5	2217.0	2148.0
25°	2095.3	2075.3	2047.3	2039.4	2051.6	2102.0	2267.2	2432.4	2267.2	2102.0	2051.6
27.5°	2022.4	2009.1	1992.1	1976.5	1962.1	1994.5	2167.0	2339.5	2167.0	1994.5	1962.1
30°	1979.9	1963.2	1946.2	1926.2	1903.1	1928.9	2101.4	2273.9	2101.4	1928.9	1903.1
32.5°	1987.2	1947.9	1907.6	1870.1	1835.3	1853.8	2032.2	2210.5	2032.2	1853.8	1835.3
35°	1992.1	1912.2	1845.4	1790.7	1748.2	1762.8	1948.7	2134.5	1948.7	1762.8	1748.2
37.5°	1875.0	1822.4	1764.8	1707.2	1649.7	1656.3	1855.5	2054.7	1855.5	1656.3	1649.7
40°	1828.4	1794.7	1720.6	1648.9	1579.7	1580.0	1788.9	1997.8	1788.9	1580.0	1579.7
42.5°	1784.9	1749.5	1653.1	1574.1	1512.6	1518.8	1727.7	1936.6	1727.7	1518.8	1512.6
45°	1525.9	1533.2	1507.7	1464.0	1402.0	1409.9	1627.4	1844.8	1627.4	1409.9	1402.0
47.5°	1281.9	1335.0	1392.1	1387.2	1320.4	1322.1	1529.3	1736.6	1529.3	1322.1	1320.4
50°	1174.0	1249.0	1340.1	1347.4	1270.9	1262.4	1457.9	1653.5	1457.9	1262.4	1270.9
52.5°	1084.3	1179.8	1301.0	1315.6	1223.5	1200.9	1386.7	1572.6	1386.7	1200.9	1223.5
55°	966.6	1092.3	1258.7	1278.1	1150.6	1099.6	1278.1	1456.7	1278.1	1099.6	1150.6
57.5°	863.6	970.2	1114.5	1134.9	1031.4	996.0	1164.9	1333.7	1164.9	996.0	1031.4
60°	799.0	875.5	975.1	994.5	933.8	929.2	1093.2	1257.2	1093.2	929.2	933.8
62.5°	720.2	772.7	840.3	863.1	841.2	863.9	1020.1	1176.3	1020.1	863.9	841.2
65°	576.7	618.6	674.5	707.2	717.0	759.8	901.9	1044.0	901.9	759.8	717.0
67.5°	466.1	505.2	547.8	580.3	602.9	650.8	774.7	898.6	774.7	650.8	602.9
70°	372.3	412.7	460.1	498.9	529.3	579.4	688.7	798.0	688.7	579.4	529.3
72.5°	303.8	338.3	377.0	414.9	452.0	503.4	597.1	690.9	597.1	503.4	452.0
75°	196.2	223.2	258.4	296.7	338.0	387.8	463.1	538.4	463.1	387.8	338.0
77.5°	146.0	159.2	177.0	203.6	239.0	279.4	334.3	389.2	334.3	279.4	239.0
80°	117.8	118.4	119.6	138.5	174.9	212.6	253.9	295.2	253.9	212.6	174.9
82.5°	93.5	92.2	90.5	100.6	122.4	146.5	177.1	207.7	177.1	146.5	122.4
85°	43.4	47.4	52.2	55.9	58.3	63.8	78.3	92.9	78.3	63.8	58.3
87.5°	12.5	12.4	12.4	13.8	16.5	18.6	19.2	19.9	19.2	18.6	16.7
90°	8.0	7.6	7.6	7.2	6.1	4.5	2.7	1.1	2.7	4.2	6.8
92.5°	9.5	9.4	8.8	8.1	6.7	6.7	6.6	4.2	7.2	10.2	14.7
95°	8.7	8.7	10.2	12.9	18.9	19.3	12.9	11.7	16.7	23.5	29.6
97.5°	23.6	28.0	34.4	35.6	33.7	25.2	24.1	22.4	30.5	37.3	47.1
100°	43.6	49.3	53.8	44.7	35.2	34.9	32.6	31.8	40.5	47.0	56.5
102.5°	68.1	69.9	54.1	49.0	46.8	45.2	41.7	41.2	49.9	58.8	66.8
105°	73.9	66.3	66.7	66.7	65.2	62.2	55.7	55.3	65.2	75.4	85.3
107.5°	86.9	88.1	90.0	89.6	87.8	79.7	72.2	70.4	79.3	91.6	102.4
110°	104.2	105.4	106.1	105.4	102.7	92.5	83.4	80.7	88.7	101.6	113.3



TEST NUMBER: P1427862

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	120.9	121.7	123.4	121.1	116.6	104.9	94.6	90.7	98.7	111.9	123.9
115°	147.4	147.4	147.8	146.7	137.6	125.4	111.8	106.1	112.9	125.1	138.3
117.5°	173.5	173.9	172.4	169.4	158.9	144.8	129.5	120.4	125.7	138.6	152.2
120°	189.9	190.6	189.1	184.6	174.3	158.4	141.0	130.4	134.5	147.0	160.7
122.5°	206.8	206.7	204.9	199.7	187.7	171.1	154.0	141.0	142.7	154.3	167.7
125°	230.4	230.0	228.5	222.5	209.9	192.9	172.8	156.9	154.6	164.5	178.1
127.5°	252.8	252.0	249.7	242.3	229.5	213.1	191.0	173.0	167.9	174.1	186.6
130°	268.3	267.2	263.0	255.0	242.5	227.0	204.6	184.2	177.0	180.8	191.8
132.5°	283.2	279.9	276.3	267.8	256.2	240.0	217.4	196.0	186.1	187.7	196.3
135°	302.0	299.0	294.5	286.1	275.1	259.2	236.5	213.4	199.7	198.2	203.1
137.5°	318.6	315.5	310.3	303.1	292.0	277.9	256.0	231.6	214.4	209.3	211.2
140°	328.9	325.2	320.6	313.4	303.6	288.8	267.6	244.1	224.7	217.5	216.4
142.5°	337.4	334.6	329.7	323.1	314.5	299.7	279.1	255.9	235.3	226.0	223.4
145°	350.2	347.9	342.6	336.5	329.3	314.5	295.6	272.5	252.0	239.9	234.2
147.5°	360.9	359.1	354.9	347.8	341.8	327.6	310.3	289.8	268.8	253.8	246.5
150°	367.6	366.1	361.9	355.1	349.0	335.8	319.1	300.1	280.1	264.1	254.7
152.5°	374.0	372.5	367.7	360.9	355.7	343.3	328.2	310.1	289.8	273.8	264.1
155°	382.4	380.5	375.9	369.5	364.9	353.6	339.6	323.6	306.2	289.5	278.5
157.5°	389.1	386.7	382.5	376.9	372.1	361.6	349.4	335.7	320.5	304.5	293.3
160°	393.0	390.3	385.8	380.9	376.3	366.5	355.5	343.0	328.9	314.5	302.4
162.5°	395.7	393.4	387.9	383.6	379.7	370.7	360.3	349.0	336.5	323.9	312.7
165°	398.7	396.0	390.3	386.9	383.5	375.9	366.8	357.7	347.1	336.9	327.8
167.5°	398.9	396.7	391.0	387.7	385.2	378.7	371.3	364.3	356.1	348.0	340.5
170°	398.3	396.4	390.7	387.7	385.8	380.5	374.0	368.0	361.5	354.7	348.7
172.5°	396.2	394.3	388.9	386.5	385.5	380.8	375.6	371.0	365.5	360.5	355.6
175°	390.7	389.2	384.7	383.1	383.5	380.5	376.7	374.0	370.6	367.6	364.9
177.5°	382.8	381.9	378.5	378.5	379.7	377.9	376.7	375.5	374.0	373.1	372.1
180°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2



TEST NUMBER: P1427862

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4
2.5°	2843.7	2822.9	2811.2	2802.0	2800.0	2798.1	2800.0	2802.0	2811.2	2822.9	2843.7
5°	2743.4	2686.9	2649.2	2620.4	2617.9	2615.5	2617.9	2620.4	2649.2	2686.9	2743.4
7.5°	2584.7	2519.3	2477.8	2446.1	2444.2	2442.2	2444.2	2446.1	2477.8	2519.3	2584.7
10°	2483.1	2416.3	2378.6	2350.4	2350.4	2350.4	2350.4	2350.4	2378.6	2416.3	2483.1
12.5°	2397.8	2335.9	2308.0	2288.5	2294.3	2300.1	2294.3	2288.5	2308.0	2335.9	2397.8
15°	2287.9	2242.9	2235.6	2233.5	2246.9	2260.2	2246.9	2233.5	2235.6	2242.9	2287.9
17.5°	2198.0	2174.0	2189.5	2205.1	2220.6	2236.2	2220.6	2205.1	2189.5	2174.0	2198.0
20°	2146.0	2132.7	2161.8	2187.3	2201.9	2216.5	2201.9	2187.3	2161.8	2132.7	2146.0
22.5°	2104.7	2099.1	2131.2	2157.2	2165.0	2172.8	2165.0	2157.2	2131.2	2099.1	2104.7
25°	2039.4	2047.3	2075.3	2095.3	2091.7	2088.0	2091.7	2095.3	2075.3	2047.3	2039.4
27.5°	1976.5	1992.1	2009.1	2022.4	2024.6	2026.8	2024.6	2022.4	2009.1	1992.1	1976.5
30°	1926.2	1946.2	1963.2	1979.9	1995.7	2011.5	1995.7	1979.9	1963.2	1946.2	1926.2
32.5°	1870.1	1907.6	1947.9	1987.2	2023.4	2059.6	2023.4	1987.2	1947.9	1907.6	1870.1
35°	1790.7	1845.4	1912.2	1992.1	2111.1	2230.2	2111.1	1992.1	1912.2	1845.4	1790.7
37.5°	1707.2	1764.8	1822.4	1875.0	1912.9	1950.8	1912.9	1875.0	1822.4	1764.8	1707.2
40°	1648.9	1720.6	1794.7	1828.4	1740.9	1653.5	1740.9	1828.4	1794.7	1720.6	1648.9
42.5°	1574.1	1653.1	1749.5	1784.9	1637.2	1489.5	1637.2	1784.9	1749.5	1653.1	1574.1
45°	1464.0	1507.7	1533.2	1525.9	1420.3	1314.6	1420.3	1525.9	1533.2	1507.7	1464.0
47.5°	1387.2	1392.1	1335.0	1281.9	1240.6	1199.3	1240.6	1281.9	1335.0	1392.1	1387.2
50°	1347.4	1340.1	1249.0	1174.0	1147.3	1120.5	1147.3	1174.0	1249.0	1340.1	1347.4
52.5°	1315.6	1301.0	1179.8	1084.3	1066.4	1048.4	1066.4	1084.3	1179.8	1301.0	1315.6
55°	1278.1	1258.7	1092.3	966.6	962.9	959.3	962.9	966.6	1092.3	1258.7	1278.1
57.5°	1134.9	1114.5	970.2	863.6	869.9	876.2	869.9	863.6	970.2	1114.5	1134.9
60°	994.5	975.1	875.5	799.0	791.7	784.4	791.7	799.0	875.5	975.1	994.5
62.5°	863.1	840.3	772.7	720.2	713.0	705.7	713.0	720.2	772.7	840.3	863.1
65°	707.2	674.5	618.6	576.7	576.7	576.7	576.7	576.7	618.6	674.5	707.2
67.5°	580.3	547.8	505.2	466.1	436.9	407.8	436.9	466.1	505.2	547.8	580.3
70°	498.9	460.1	412.7	372.3	352.9	333.4	352.9	372.3	412.7	460.1	498.9
72.5°	414.9	377.0	338.3	303.8	281.4	259.1	281.4	303.8	338.3	377.0	414.9
75°	296.7	258.4	223.2	196.2	193.7	191.3	193.7	196.2	223.2	258.4	296.7
77.5°	203.6	177.0	159.2	146.0	146.2	146.5	146.2	146.0	159.2	177.0	203.6
80°	138.5	119.6	118.4	117.8	119.0	120.3	119.0	117.8	118.4	119.6	138.5
82.5°	100.6	90.5	92.2	93.5	93.8	94.0	93.8	93.5	92.2	90.5	100.6
85°	55.9	52.2	47.4	43.4	42.2	41.0	42.2	43.4	47.4	52.2	55.9
87.5°	14.1	13.2	13.7	14.0	14.3	14.2	14.3	14.0	13.7	13.2	14.1
90°	8.7	11.4	14.0	15.5	17.1	16.3	17.1	15.5	14.0	11.4	8.7
92.5°	17.5	22.0	25.2	28.0	29.2	29.0	29.2	28.0	25.2	22.0	17.5
95°	35.2	40.5	45.9	49.6	51.9	51.2	51.9	49.6	45.9	40.5	35.2
97.5°	54.3	61.5	67.4	70.9	73.2	74.7	73.2	70.9	67.4	61.5	54.3
100°	67.1	73.9	80.7	84.9	88.7	90.2	88.7	84.9	80.7	73.9	67.1
102.5°	77.4	86.3	93.8	98.2	101.4	102.9	101.4	98.2	93.8	86.3	77.4
105°	94.4	103.8	111.8	117.5	120.9	122.0	120.9	117.5	111.8	103.8	94.4
107.5°	111.3	121.1	128.5	134.8	138.9	141.4	138.9	134.8	128.5	121.1	111.3
110°	124.7	132.6	140.6	146.3	150.5	152.0	150.5	146.3	140.6	132.6	124.7



TEST NUMBER: P1427862

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	135.9	144.8	152.7	158.4	163.2	165.3	163.2	158.4	152.7	144.8	135.9
115°	151.6	163.3	170.5	175.8	179.3	181.1	179.3	175.8	170.5	163.3	151.6
117.5°	164.6	176.9	184.8	188.9	190.5	191.8	190.5	188.9	184.8	176.9	164.6
120°	172.8	184.2	193.3	198.6	200.5	201.2	200.5	198.6	193.3	184.2	172.8
122.5°	180.4	191.2	199.9	206.5	209.6	210.3	209.6	206.5	199.9	191.2	180.4
125°	191.0	201.2	210.3	216.8	220.2	222.1	220.2	216.8	210.3	201.2	191.0
127.5°	200.2	211.3	219.7	225.5	228.8	230.3	228.8	225.5	219.7	211.3	200.2
130°	205.4	216.8	225.1	231.6	234.6	236.1	234.6	231.6	225.1	216.8	205.4
132.5°	209.3	221.3	230.0	235.8	239.1	240.6	239.1	235.8	230.0	221.3	209.3
135°	214.1	226.6	235.7	241.4	244.4	246.0	244.4	241.4	235.7	226.6	214.1
137.5°	218.3	229.7	239.1	245.1	247.8	248.8	247.8	245.1	239.1	229.7	218.3
140°	221.3	231.2	240.6	246.3	249.4	249.7	249.4	246.3	240.6	231.2	221.3
142.5°	225.3	233.0	241.3	246.9	250.0	250.7	250.0	246.9	241.3	233.0	225.3
145°	232.3	236.9	242.5	247.8	250.5	251.3	250.5	247.8	242.5	236.9	232.3
147.5°	241.2	242.6	245.6	249.1	251.6	252.2	251.6	249.1	245.6	242.6	241.2
150°	247.8	247.5	248.6	250.9	253.2	252.8	253.2	250.9	248.6	247.5	247.8
152.5°	255.4	253.2	253.2	254.2	255.3	255.2	255.3	254.2	253.2	253.2	255.4
155°	268.3	264.1	261.9	261.1	261.1	260.7	261.1	261.1	261.9	264.1	268.3
157.5°	282.5	276.6	273.2	271.4	270.9	270.1	270.9	271.4	273.2	276.6	282.5
160°	292.2	285.7	282.3	279.3	278.2	277.0	278.2	279.3	282.3	285.7	292.2
162.5°	301.3	295.1	291.4	288.7	287.6	285.8	287.6	288.7	291.4	295.1	301.3
165°	316.1	309.6	305.4	303.2	301.7	300.1	301.7	303.2	305.4	309.6	316.1
167.5°	330.8	323.8	321.1	318.5	317.0	314.3	317.0	318.5	321.1	323.8	330.8
170°	339.9	333.5	332.0	329.7	327.1	324.0	327.1	329.7	332.0	333.5	339.9
172.5°	347.8	343.5	342.0	339.7	338.9	336.4	338.9	339.7	342.0	343.5	347.8
175°	359.3	355.9	355.9	355.5	354.3	352.1	354.3	355.5	355.9	355.9	359.3
177.5°	368.8	367.0	368.2	368.2	367.9	365.8	367.9	368.2	368.2	367.0	368.8
180°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2



TEST NUMBER: P1427862

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2872.4	2872.4	2872.4	2872.4
2.5°	2873.9	2893.1	2879.5	2865.9
5°	2818.7	2875.5	2876.7	2877.9
7.5°	2673.8	2750.1	2787.8	2825.4
10°	2579.1	2665.3	2722.4	2779.5
12.5°	2493.8	2588.3	2678.4	2768.6
15°	2370.4	2466.4	2602.5	2738.5
17.5°	2261.7	2346.0	2492.5	2639.0
20°	2201.9	2280.0	2424.5	2569.0
22.5°	2148.0	2217.0	2363.5	2510.0
25°	2051.6	2102.0	2267.2	2432.4
27.5°	1962.1	1994.5	2167.0	2339.5
30°	1903.1	1928.9	2101.4	2273.9
32.5°	1835.3	1853.8	2032.2	2210.5
35°	1748.2	1762.8	1948.7	2134.5
37.5°	1649.7	1656.3	1855.5	2054.7
40°	1579.7	1580.0	1788.9	1997.8
42.5°	1512.6	1518.8	1727.7	1936.6
45°	1402.0	1409.9	1627.4	1844.8
47.5°	1320.4	1322.1	1529.3	1736.6
50°	1270.9	1262.4	1457.9	1653.5
52.5°	1223.5	1200.9	1386.7	1572.6
55°	1150.6	1099.6	1278.1	1456.7
57.5°	1031.4	996.0	1164.9	1333.7
60°	933.8	929.2	1093.2	1257.2
62.5°	841.2	863.9	1020.1	1176.3
65°	717.0	759.8	901.9	1044.0
67.5°	602.9	650.8	774.7	898.6
70°	529.3	579.4	688.7	798.0
72.5°	452.0	503.4	597.1	690.9
75°	338.0	387.8	463.1	538.4
77.5°	239.0	279.4	334.3	389.2
80°	174.9	212.6	253.9	295.2
82.5°	122.4	146.5	177.1	207.7
85°	58.3	63.8	78.3	92.9
87.5°	16.7	18.6	19.2	19.9
90°	6.8	4.2	2.7	1.1
92.5°	14.7	10.2	7.2	4.2
95°	29.6	23.5	16.7	11.7
97.5°	47.1	37.3	30.5	22.4
100°	56.5	47.0	40.5	31.8
102.5°	66.8	58.8	49.9	41.2
105°	85.3	75.4	65.2	55.3
107.5°	102.4	91.6	79.3	70.4
110°	113.3	101.6	88.7	80.7



TEST NUMBER: P1427862

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	123.9	111.9	98.7	90.7
115°	138.3	125.1	112.9	106.1
117.5°	152.2	138.6	125.7	120.4
120°	160.7	147.0	134.5	130.4
122.5°	167.7	154.3	142.7	141.0
125°	178.1	164.5	154.6	156.9
127.5°	186.6	174.1	167.9	173.0
130°	191.8	180.8	177.0	184.2
132.5°	196.3	187.7	186.1	196.0
135°	203.1	198.2	199.7	213.4
137.5°	211.2	209.3	214.4	231.6
140°	216.4	217.5	224.7	244.1
142.5°	223.4	226.0	235.3	255.9
145°	234.2	239.9	252.0	272.5
147.5°	246.5	253.8	268.8	289.8
150°	254.7	264.1	280.1	300.1
152.5°	264.1	273.8	289.8	310.1
155°	278.5	289.5	306.2	323.6
157.5°	293.3	304.5	320.5	335.7
160°	302.4	314.5	328.9	343.0
162.5°	312.7	323.9	336.5	349.0
165°	327.8	336.9	347.1	357.7
167.5°	340.5	348.0	356.1	364.3
170°	348.7	354.7	361.5	368.0
172.5°	355.6	360.5	365.5	371.0
175°	364.9	367.6	370.6	374.0
177.5°	372.1	373.1	374.0	375.5
180°	375.2	375.2	375.2	375.2



TEST NUMBER: P1427862  
 CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L835-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	23.01	24.30	23.59	24.89	25.54	21.84	23.13	22.42	23.71	24.37
	3H	25.22	26.37	25.81	26.97	27.67	22.92	24.08	23.52	24.68	25.37
	4H	26.05	27.14	26.67	27.75	28.46	23.19	24.27	23.80	24.89	25.60
	6H	26.54	27.54	27.17	28.17	28.89	23.35	24.35	23.98	24.98	25.70
	8H	26.70	27.66	27.35	28.31	29.03	23.42	24.38	24.06	25.02	25.75
	12H	26.78	27.69	27.42	28.33	29.08	23.44	24.36	24.09	25.00	25.75
4H	2H	23.50	24.59	24.12	25.20	25.91	22.58	23.66	23.19	24.27	24.98
	3H	25.79	26.69	26.42	27.35	28.08	23.84	24.75	24.48	25.40	26.13
	4H	26.68	27.50	27.33	28.16	28.92	24.15	24.97	24.80	25.63	26.39
	6H	27.26	27.97	27.93	28.66	29.43	24.38	25.09	25.05	25.77	26.54
	8H	27.47	28.14	28.15	28.82	29.60	24.47	25.14	25.15	25.82	26.60
	12H	27.58	28.17	28.27	28.88	29.67	24.52	25.11	25.21	25.82	26.61
8H	4H	26.74	27.40	27.41	28.08	28.86	24.42	25.08	25.09	25.76	26.54
	6H	27.38	27.93	28.09	28.65	29.44	24.70	25.25	25.41	25.97	26.76
	8H	27.65	28.14	28.37	28.87	29.67	24.85	25.34	25.57	26.07	26.87
	12H	27.80	28.23	28.52	28.95	29.81	24.93	25.36	25.65	26.08	26.95
12H	4H	26.71	27.30	27.40	28.01	28.80	24.43	25.03	25.13	25.73	26.52
	6H	27.36	27.85	28.08	28.58	29.38	24.74	25.23	25.46	25.96	26.76
	8H	27.65	28.08	28.37	28.80	29.67	24.92	25.35	25.64	26.07	26.94