

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: P1428360

Luminaire Tested: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428360  
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-025U-100D-L835-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

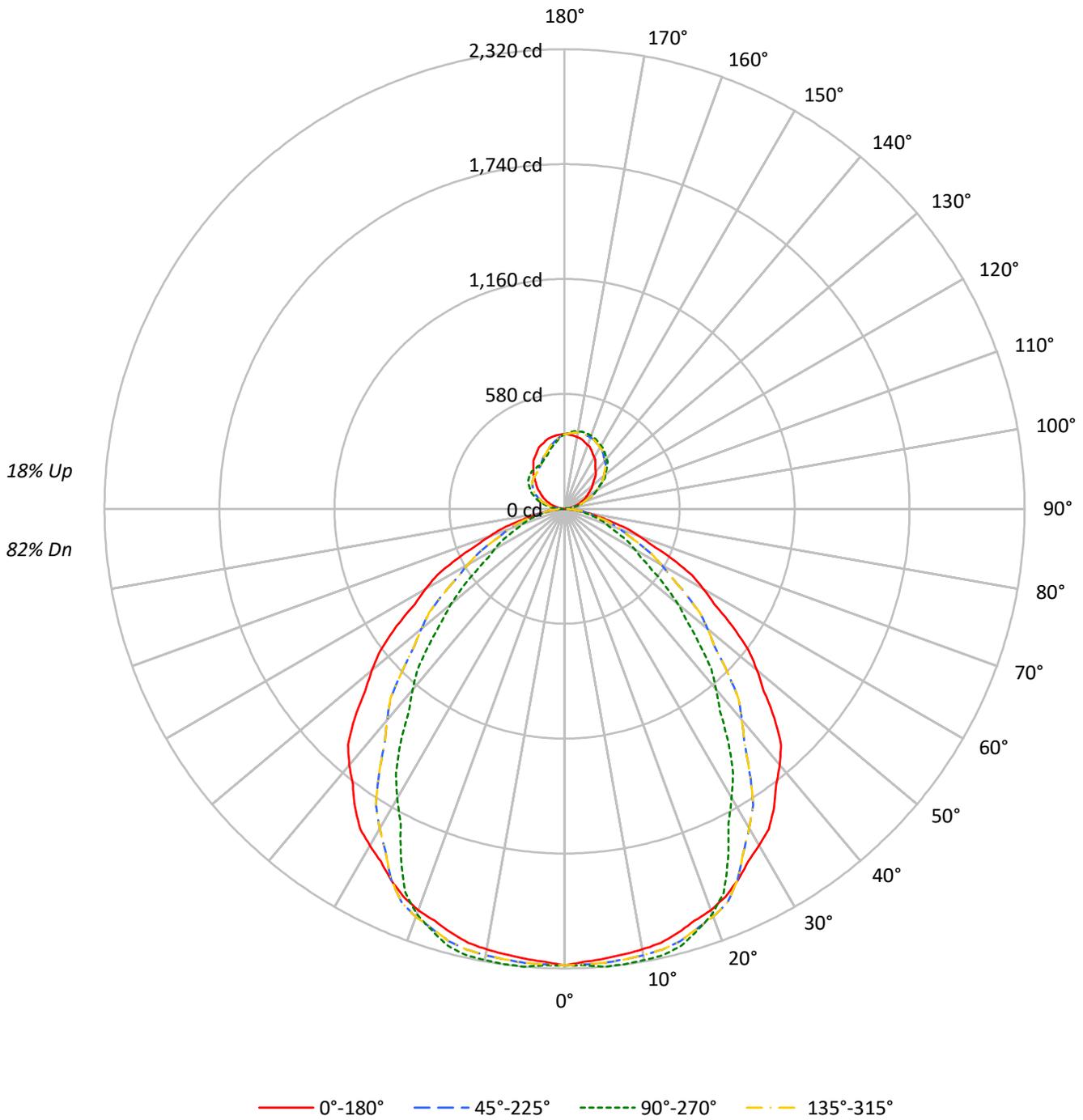
Lumens per Lamp: N/A  
Luminaire Lumens: 6211.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
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

TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	106	102	98	95	102	98	95	92	90	88	86	84	82	80	77	76	74	71
2	97	90	84	79	93	87	81	77	80	76	72	75	71	68	69	67	64	61
3	89	80	73	67	86	77	71	65	72	66	62	67	62	59	62	59	56	53
4	82	72	64	58	79	69	62	56	65	59	54	60	55	51	56	52	49	46
5	76	64	56	50	73	62	55	49	58	52	47	55	49	45	51	47	43	41
6	71	58	50	44	68	57	49	43	53	47	42	50	44	40	47	42	38	36
7	66	53	45	39	63	52	44	39	48	42	37	46	40	36	43	38	34	32
8	61	49	41	35	59	47	40	35	45	38	34	42	36	32	40	35	31	29
9	57	45	37	32	55	44	36	31	41	35	30	39	33	29	37	32	28	27
10	54	41	34	29	52	40	33	29	38	32	28	36	31	27	34	29	26	24

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

	0°	90°	180°	270°
0°	37211	37211	37211	37211
5°	36961	37602	36961	37602
10°	37029	37929	37029	37929
15°	37019	38156	37019	38156
20°	37034	37412	37034	37412
25°	36834	34762	36834	34762
30°	36584	31427	36584	31427
35°	36298	28381	36298	28381
40°	35575	25075	35575	25075
45°	34181	21902	34181	21902
50°	31812	18746	31812	18746
55°	29100	15200	29100	15200
60°	26082	13113	26082	13113
65°	22808	11656	22808	11656
70°	18651	10570	18651	10570
75°	14516	9719	14516	9719
80°	10813	8573	10813	8573
85°	7317	4872	7317	4872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 34181 cd/sqm



TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	3.5
10°-20°	635.9	10.2
20°-30°	935.8	15.1
30°-40°	1023.1	16.5
40°-50°	917.8	14.8
50°-60°	684.6	11.0
60°-70°	432.7	7.0
70°-80°	214.4	3.5
80°-90°	51.7	0.8
90°-100°	29.9	0.5
100°-110°	87.1	1.4
110°-120°	142.1	2.3
120°-130°	180.3	2.9
130°-140°	192.9	3.1
140°-150°	180.2	2.9
150°-160°	148.3	2.4
160°-170°	99.4	1.6
170°-180°	35.3	0.6
0°-30°	1791.1	28.8
0°-40°	2814.2	45.3
0°-60°	4416.7	71.1
0°-90°	5115.6	82.4
90°-120°	259.0	4.2
90°-150°	812.5	13.1
90°-180°	1095.0	17.6
0°-180°	6211.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2305	2305	2305	2305	2305	
5°	2280	2320	2280	2320	2280	217
15°	2215	2283	2215	2283	2215	625
25°	2068	1951	2068	1951	2068	952
35°	1842	1440	1842	1440	1842	1149
45°	1497	959	1497	959	1497	1148
55°	1034	540	1034	540	1034	923
65°	597	305	597	305	597	592
75°	233	156	233	156	233	256
85°	40	26	40	26	40	50
90°	1	8	1	16	1	2
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	



TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
2.5°	2288.9	2302.2	2315.4	2312.3	2303.7	2299.8	2300.6	2301.8	2304.1	2306.4	2304.1
5°	2280.5	2297.1	2313.7	2311.3	2302.5	2298.6	2299.6	2302.5	2311.3	2320.1	2311.3
7.5°	2269.1	2285.9	2302.7	2301.9	2295.3	2293.6	2296.9	2301.6	2310.2	2318.7	2310.2
10°	2258.6	2276.2	2293.7	2293.7	2287.9	2287.4	2292.3	2297.9	2305.7	2313.5	2305.7
12.5°	2244.5	2262.9	2281.2	2282.6	2278.3	2279.0	2284.6	2290.8	2298.6	2306.4	2298.6
15°	2214.7	2234.2	2253.7	2257.9	2256.9	2259.8	2266.6	2273.0	2277.9	2282.7	2277.9
17.5°	2180.0	2199.5	2219.0	2222.9	2221.5	2221.7	2223.5	2225.4	2227.7	2230.1	2227.7
20°	2155.4	2174.9	2194.5	2197.1	2194.2	2189.3	2182.5	2177.4	2177.4	2177.4	2177.4
22.5°	2120.3	2141.4	2162.5	2162.6	2155.8	2143.1	2124.6	2109.1	2102.9	2096.6	2102.9
25°	2067.6	2088.1	2108.6	2099.1	2079.6	2050.8	2012.8	1980.6	1965.9	1951.3	1965.9
27.5°	2006.2	2022.8	2039.3	2014.5	1975.9	1929.5	1875.5	1829.9	1809.6	1789.3	1809.6
30°	1962.3	1975.0	1987.6	1948.4	1891.8	1833.8	1774.2	1724.7	1705.2	1685.7	1705.2
32.5°	1916.6	1921.5	1926.4	1874.6	1804.0	1737.8	1675.9	1624.3	1603.2	1582.1	1603.2
35°	1841.6	1832.8	1824.0	1755.2	1666.4	1590.8	1528.4	1477.0	1458.4	1439.9	1458.4
37.5°	1752.9	1726.7	1700.6	1623.1	1528.5	1448.5	1383.1	1329.0	1308.5	1288.0	1308.5
40°	1687.9	1650.8	1613.8	1530.6	1432.1	1350.1	1284.8	1230.6	1210.1	1189.7	1210.1
42.5°	1615.9	1569.5	1523.0	1437.5	1339.0	1257.1	1191.7	1137.4	1116.1	1094.8	1116.1
45°	1497.0	1442.3	1387.7	1298.7	1198.2	1116.3	1052.8	1000.2	979.7	959.2	979.7
47.5°	1363.1	1308.8	1254.6	1165.8	1065.5	984.7	923.2	872.7	855.1	837.6	855.1
50°	1266.5	1213.8	1161.1	1076.3	980.7	902.1	840.7	789.2	767.7	746.3	767.7
52.5°	1168.1	1120.9	1073.7	992.0	898.7	820.6	757.5	703.0	673.7	644.4	673.7
55°	1033.8	988.9	944.1	867.0	779.2	700.2	629.9	573.1	556.5	540.0	556.5
57.5°	895.5	856.7	817.9	748.6	669.2	597.6	533.8	482.5	468.9	455.2	468.9
60°	807.7	773.6	739.5	673.1	596.0	530.7	477.0	433.4	419.7	406.1	419.7
62.5°	723.5	693.2	663.0	599.4	524.6	465.9	423.2	388.3	377.0	365.7	377.0
65°	597.0	574.6	552.2	499.7	437.3	388.5	353.4	324.6	314.9	305.1	314.9
67.5°	474.1	461.6	449.1	409.9	361.7	322.2	291.3	266.6	260.2	253.7	260.2
70°	395.1	391.2	387.3	354.8	312.9	279.2	253.9	233.6	228.8	223.9	228.8
72.5°	326.6	328.2	329.7	302.8	266.3	238.1	218.2	202.4	199.1	195.8	199.1
75°	232.7	240.5	248.3	230.5	204.1	184.1	170.5	159.7	157.8	155.8	157.8
77.5°	158.5	170.2	181.9	170.3	151.0	136.3	126.1	118.1	116.6	115.0	116.6
80°	116.3	128.0	139.7	131.7	117.1	105.8	98.0	92.2	92.2	92.2	92.2
82.5°	81.2	90.6	99.9	94.2	83.5	76.2	72.3	69.4	69.4	69.4	69.4
85°	39.5	44.4	49.3	47.6	43.7	38.8	32.9	28.3	27.3	26.3	27.3
87.5°	10.8	13.4	16.1	14.1	10.4	8.1	7.4	6.9	6.9	6.9	6.9
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



TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**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



TEST NUMBER: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
2.5°	2301.8	2300.6	2299.8	2303.7	2312.3	2315.4	2302.2	2288.9	2302.2	2315.4	2312.3
5°	2302.5	2299.6	2298.6	2302.5	2311.3	2313.7	2297.1	2280.5	2297.1	2313.7	2311.3
7.5°	2301.6	2296.9	2293.6	2295.3	2301.9	2302.7	2285.9	2269.1	2285.9	2302.7	2301.9
10°	2297.9	2292.3	2287.4	2287.9	2293.7	2293.7	2276.2	2258.6	2276.2	2293.7	2293.7
12.5°	2290.8	2284.6	2279.0	2278.3	2282.6	2281.2	2262.9	2244.5	2262.9	2281.2	2282.6
15°	2273.0	2266.6	2259.8	2256.9	2257.9	2253.7	2234.2	2214.7	2234.2	2253.7	2257.9
17.5°	2225.4	2223.5	2221.7	2221.5	2222.9	2219.0	2199.5	2180.0	2199.5	2219.0	2222.9
20°	2177.4	2182.5	2189.3	2194.2	2197.1	2194.5	2174.9	2155.4	2174.9	2194.5	2197.1
22.5°	2109.1	2124.6	2143.1	2155.8	2162.6	2162.5	2141.4	2120.3	2141.4	2162.5	2162.6
25°	1980.6	2012.8	2050.8	2079.6	2099.1	2108.6	2088.1	2067.6	2088.1	2108.6	2099.1
27.5°	1829.9	1875.5	1929.5	1975.9	2014.5	2039.3	2022.8	2006.2	2022.8	2039.3	2014.5
30°	1724.7	1774.2	1833.8	1891.8	1948.4	1987.6	1975.0	1962.3	1975.0	1987.6	1948.4
32.5°	1624.3	1675.9	1737.8	1804.0	1874.6	1926.4	1921.5	1916.6	1921.5	1926.4	1874.6
35°	1477.0	1528.4	1590.8	1666.4	1755.2	1824.0	1832.8	1841.6	1832.8	1824.0	1755.2
37.5°	1329.0	1383.1	1448.5	1528.5	1623.1	1700.6	1726.7	1752.9	1726.7	1700.6	1623.1
40°	1230.6	1284.8	1350.1	1432.1	1530.6	1613.8	1650.8	1687.9	1650.8	1613.8	1530.6
42.5°	1137.4	1191.7	1257.1	1339.0	1437.5	1523.0	1569.5	1615.9	1569.5	1523.0	1437.5
45°	1000.2	1052.8	1116.3	1198.2	1298.7	1387.7	1442.3	1497.0	1442.3	1387.7	1298.7
47.5°	872.7	923.2	984.7	1065.5	1165.8	1254.6	1308.8	1363.1	1308.8	1254.6	1165.8
50°	789.2	840.7	902.1	980.7	1076.3	1161.1	1213.8	1266.5	1213.8	1161.1	1076.3
52.5°	703.0	757.5	820.6	898.7	992.0	1073.7	1120.9	1168.1	1120.9	1073.7	992.0
55°	573.1	629.9	700.2	779.2	867.0	944.1	988.9	1033.8	988.9	944.1	867.0
57.5°	482.5	533.8	597.6	669.2	748.6	817.9	856.7	895.5	856.7	817.9	748.6
60°	433.4	477.0	530.7	596.0	673.1	739.5	773.6	807.7	773.6	739.5	673.1
62.5°	388.3	423.2	465.9	524.6	599.4	663.0	693.2	723.5	693.2	663.0	599.4
65°	324.6	353.4	388.5	437.3	499.7	552.2	574.6	597.0	574.6	552.2	499.7
67.5°	266.6	291.3	322.2	361.7	409.9	449.1	461.6	474.1	461.6	449.1	409.9
70°	233.6	253.9	279.2	312.9	354.8	387.3	391.2	395.1	391.2	387.3	354.8
72.5°	202.4	218.2	238.1	266.3	302.8	329.7	328.2	326.6	328.2	329.7	302.8
75°	159.7	170.5	184.1	204.1	230.5	248.3	240.5	232.7	240.5	248.3	230.5
77.5°	118.1	126.1	136.3	151.0	170.3	181.9	170.2	158.5	170.2	181.9	170.3
80°	92.2	98.0	105.8	117.1	131.7	139.7	128.0	116.3	128.0	139.7	131.7
82.5°	69.4	72.3	76.2	83.5	94.2	99.9	90.6	81.2	90.6	99.9	94.2
85°	28.3	32.9	38.8	43.7	47.6	49.3	44.4	39.5	44.4	49.3	47.6
87.5°	6.9	7.4	8.1	10.4	14.1	16.1	13.4	10.8	13.4	16.1	14.2
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: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-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: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
2.5°	2303.7	2299.8	2300.6	2301.8	2304.1	2306.4	2304.1	2301.8	2300.6	2299.8	2303.7
5°	2302.5	2298.6	2299.6	2302.5	2311.3	2320.1	2311.3	2302.5	2299.6	2298.6	2302.5
7.5°	2295.3	2293.6	2296.9	2301.6	2310.2	2318.7	2310.2	2301.6	2296.9	2293.6	2295.3
10°	2287.9	2287.4	2292.3	2297.9	2305.7	2313.5	2305.7	2297.9	2292.3	2287.4	2287.9
12.5°	2278.3	2279.0	2284.6	2290.8	2298.6	2306.4	2298.6	2290.8	2284.6	2279.0	2278.3
15°	2256.9	2259.8	2266.6	2273.0	2277.9	2282.7	2277.9	2273.0	2266.6	2259.8	2256.9
17.5°	2221.5	2221.7	2223.5	2225.4	2227.7	2230.1	2227.7	2225.4	2223.5	2221.7	2221.5
20°	2194.2	2189.3	2182.5	2177.4	2177.4	2177.4	2177.4	2177.4	2182.5	2189.3	2194.2
22.5°	2155.8	2143.1	2124.6	2109.1	2102.9	2096.6	2102.9	2109.1	2124.6	2143.1	2155.8
25°	2079.6	2050.8	2012.8	1980.6	1965.9	1951.3	1965.9	1980.6	2012.8	2050.8	2079.6
27.5°	1975.9	1929.5	1875.5	1829.9	1809.6	1789.3	1809.6	1829.9	1875.5	1929.5	1975.9
30°	1891.8	1833.8	1774.2	1724.7	1705.2	1685.7	1705.2	1724.7	1774.2	1833.8	1891.8
32.5°	1804.0	1737.8	1675.9	1624.3	1603.2	1582.1	1603.2	1624.3	1675.9	1737.8	1804.0
35°	1666.4	1590.8	1528.4	1477.0	1458.4	1439.9	1458.4	1477.0	1528.4	1590.8	1666.4
37.5°	1528.5	1448.5	1383.1	1329.0	1308.5	1288.0	1308.5	1329.0	1383.1	1448.5	1528.5
40°	1432.1	1350.1	1284.8	1230.6	1210.1	1189.7	1210.1	1230.6	1284.8	1350.1	1432.1
42.5°	1339.0	1257.1	1191.7	1137.4	1116.1	1094.8	1116.1	1137.4	1191.7	1257.1	1339.0
45°	1198.2	1116.3	1052.8	1000.2	979.7	959.2	979.7	1000.2	1052.8	1116.3	1198.2
47.5°	1065.5	984.7	923.2	872.7	855.1	837.6	855.1	872.7	923.2	984.7	1065.5
50°	980.7	902.1	840.7	789.2	767.7	746.3	767.7	789.2	840.7	902.1	980.7
52.5°	898.7	820.6	757.5	703.0	673.7	644.4	673.7	703.0	757.5	820.6	898.7
55°	779.2	700.2	629.9	573.1	556.5	540.0	556.5	573.1	629.9	700.2	779.2
57.5°	669.2	597.6	533.8	482.5	468.9	455.2	468.9	482.5	533.8	597.6	669.2
60°	596.0	530.7	477.0	433.4	419.7	406.1	419.7	433.4	477.0	530.7	596.0
62.5°	524.6	465.9	423.2	388.3	377.0	365.7	377.0	388.3	423.2	465.9	524.6
65°	437.3	388.5	353.4	324.6	314.9	305.1	314.9	324.6	353.4	388.5	437.3
67.5°	361.7	322.2	291.3	266.6	260.2	253.7	260.2	266.6	291.3	322.2	361.7
70°	312.9	279.2	253.9	233.6	228.8	223.9	228.8	233.6	253.9	279.2	312.9
72.5°	266.3	238.1	218.2	202.4	199.1	195.8	199.1	202.4	218.2	238.1	266.3
75°	204.1	184.1	170.5	159.7	157.8	155.8	157.8	159.7	170.5	184.1	204.1
77.5°	151.0	136.3	126.1	118.1	116.6	115.0	116.6	118.1	126.1	136.3	151.0
80°	117.1	105.8	98.0	92.2	92.2	92.2	92.2	92.2	98.0	105.8	117.1
82.5°	83.5	76.2	72.3	69.4	69.4	69.4	69.4	69.4	72.3	76.2	83.5
85°	43.7	38.8	32.9	28.3	27.3	26.3	27.3	28.3	32.9	38.8	43.7
87.5°	10.7	8.9	8.7	8.4	8.7	8.5	8.7	8.4	8.7	8.9	10.7
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: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-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: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2304.7	2304.7	2304.7	2304.7
2.5°	2312.3	2315.4	2302.2	2288.9
5°	2311.3	2313.7	2297.1	2280.5
7.5°	2301.9	2302.7	2285.9	2269.1
10°	2293.7	2293.7	2276.2	2258.6
12.5°	2282.6	2281.2	2262.9	2244.5
15°	2257.9	2253.7	2234.2	2214.7
17.5°	2222.9	2219.0	2199.5	2180.0
20°	2197.1	2194.5	2174.9	2155.4
22.5°	2162.6	2162.5	2141.4	2120.3
25°	2099.1	2108.6	2088.1	2067.6
27.5°	2014.5	2039.3	2022.8	2006.2
30°	1948.4	1987.6	1975.0	1962.3
32.5°	1874.6	1926.4	1921.5	1916.6
35°	1755.2	1824.0	1832.8	1841.6
37.5°	1623.1	1700.6	1726.7	1752.9
40°	1530.6	1613.8	1650.8	1687.9
42.5°	1437.5	1523.0	1569.5	1615.9
45°	1298.7	1387.7	1442.3	1497.0
47.5°	1165.8	1254.6	1308.8	1363.1
50°	1076.3	1161.1	1213.8	1266.5
52.5°	992.0	1073.7	1120.9	1168.1
55°	867.0	944.1	988.9	1033.8
57.5°	748.6	817.9	856.7	895.5
60°	673.1	739.5	773.6	807.7
62.5°	599.4	663.0	693.2	723.5
65°	499.7	552.2	574.6	597.0
67.5°	409.9	449.1	461.6	474.1
70°	354.8	387.3	391.2	395.1
72.5°	302.8	329.7	328.2	326.6
75°	230.5	248.3	240.5	232.7
77.5°	170.3	181.9	170.2	158.5
80°	131.7	139.7	128.0	116.3
82.5°	94.2	99.9	90.6	81.2
85°	47.6	49.3	44.4	39.5
87.5°	14.2	16.1	13.4	10.8
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: P1428360

CATALOG NUMBER: SQ2W-PW1-K-025U-100D-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: P1428360  
 CATALOG NUMBER: SQ2W-PW1-K-025U-100D-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	22.12	23.29	22.74	23.92	24.65	18.36	19.54	18.99	20.17	20.89
	3H	23.44	24.49	24.08	25.14	25.89	19.66	20.71	20.30	21.35	22.11
	4H	23.86	24.85	24.52	25.51	26.28	20.18	21.17	20.84	21.82	22.59
	6H	24.06	24.97	24.73	25.64	26.42	20.50	21.41	21.17	22.08	22.86
	8H	24.11	24.98	24.80	25.66	26.45	20.62	21.49	21.31	22.18	22.97
	12H	24.12	24.95	24.81	25.63	26.44	20.66	21.49	21.35	22.17	22.99
4H	2H	22.29	23.27	22.95	23.93	24.70	19.21	20.20	19.87	20.86	21.63
	3H	23.85	24.67	24.53	25.37	26.16	20.69	21.50	21.36	22.20	22.99
	4H	24.41	25.15	25.10	25.85	26.67	21.28	22.02	21.97	22.72	23.54
	6H	24.74	25.38	25.45	26.10	26.93	21.68	22.32	22.39	23.04	23.87
	8H	24.83	25.43	25.55	26.15	27.00	21.83	22.43	22.55	23.15	23.99
	12H	24.87	25.41	25.61	26.15	27.00	21.89	22.42	22.63	23.17	24.02
8H	4H	24.47	25.07	25.19	25.79	26.63	21.64	22.24	22.36	22.96	23.80
	6H	24.90	25.40	25.65	26.16	27.01	22.15	22.64	22.89	23.40	24.25
	8H	25.08	25.51	25.84	26.28	27.14	22.37	22.80	23.13	23.57	24.43
	12H	25.17	25.55	25.93	26.31	27.23	22.46	22.85	23.22	23.60	24.53
12H	4H	24.44	24.98	25.18	25.73	26.57	21.67	22.21	22.41	22.96	23.80
	6H	24.90	25.34	25.66	26.11	26.97	22.22	22.66	22.98	23.43	24.29
	8H	25.10	25.49	25.86	26.24	27.17	22.48	22.87	23.24	23.62	24.54