

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: P1428275

Luminaire Tested: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428275  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

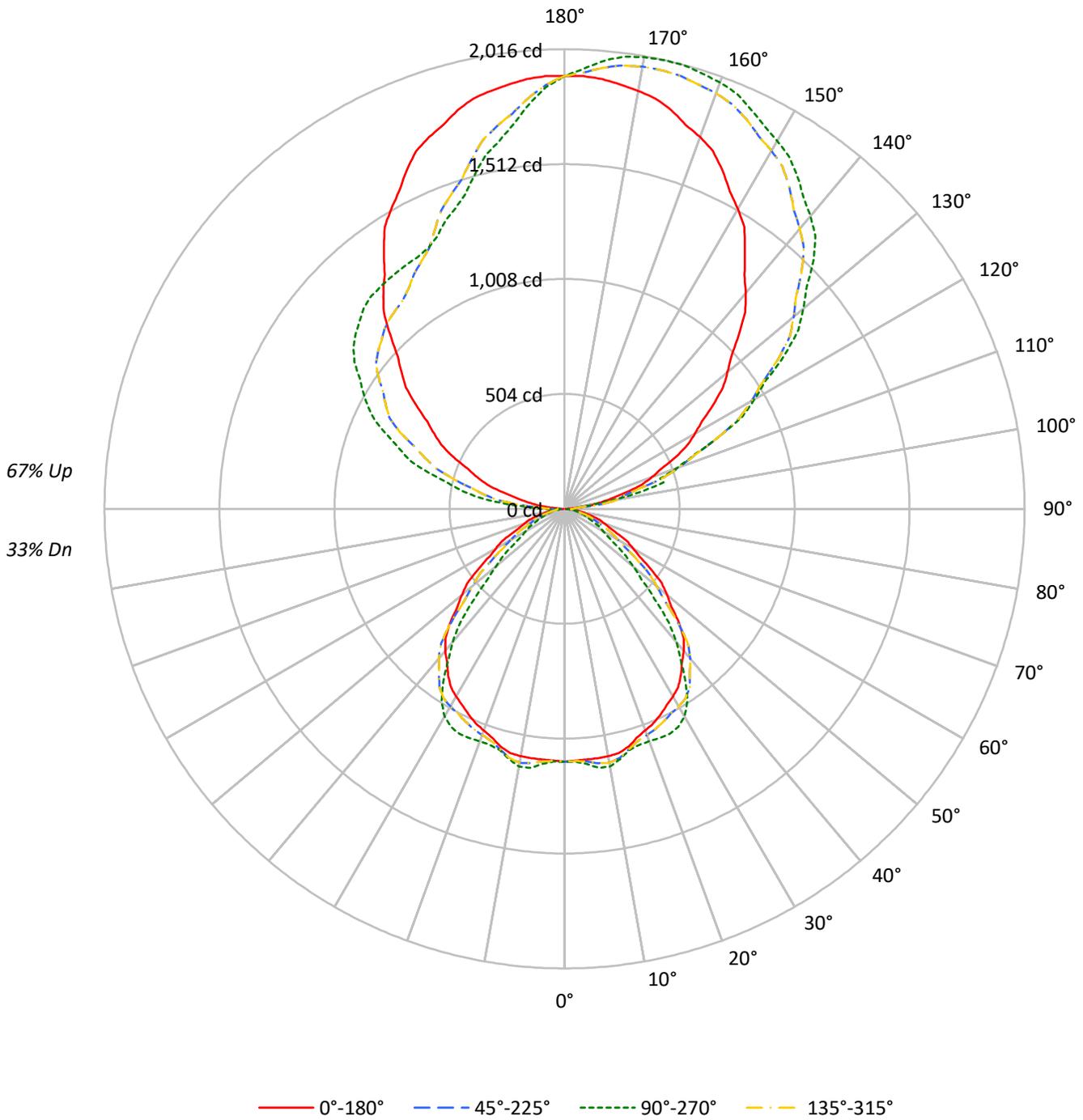
Lumens per Lamp: N/A  
Luminaire Lumens: 8218.7 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 61.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	87	83	85	81	78	76	65	63	61	50	49	47	36	35	35	28
2	86	79	73	69	77	72	67	63	57	54	51	44	42	40	32	31	30	24
3	79	70	63	58	71	63	57	53	51	47	43	39	37	34	29	27	26	21
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	26	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	36	55	45	38	34	37	32	28	29	25	23	21	19	17	14
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	14	13	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

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

	0°	90°	180°	270°
0°	17909	17909	17909	17909
5°	17885	18215	17885	18215
10°	18073	18814	18073	18814
15°	18067	18313	18067	18313
20°	17775	18649	17775	18649
25°	17726	19416	17726	19416
30°	17706	19603	17706	19603
35°	17538	18252	17538	18252
40°	17133	16062	17133	16062
45°	16212	12702	16212	12702
50°	14739	9854	14739	9854
55°	12954	7671	12954	7671
60°	11208	6316	11208	6316
65°	9677	5528	9677	5528
70°	8700	4909	8700	4909
75°	7972	4516	7972	4516
80°	6936	4416	6936	4416
85°	5020	2093	5020	2093

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 17406 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	1.3
10°-20°	310.1	3.8
20°-30°	479.3	5.8
30°-40°	576.4	7.0
40°-50°	517.6	6.3
50°-60°	346.8	4.2
60°-70°	201.8	2.5
70°-80°	103.6	1.3
80°-90°	33.4	0.4
90°-100°	151.1	1.8
100°-110°	440.5	5.4
110°-120°	719.0	8.7
120°-130°	912.3	11.1
130°-140°	976.2	11.9
140°-150°	911.5	11.1
150°-160°	750.1	9.1
160°-170°	503.1	6.1
170°-180°	178.6	2.2
0°-30°	896.5	10.9
0°-40°	1473.0	17.9
0°-60°	2337.5	28.4
0°-90°	2676.3	32.6
90°-120°	1310.6	15.9
90°-150°	4110.6	50.0
90°-180°	5542.0	67.4
0°-180°	8218.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1109	1109	1109	1109	1109	
5°	1104	1124	1104	1124	1104	105
15°	1081	1096	1081	1096	1081	304
25°	995	1090	995	1090	995	459
35°	890	926	890	926	890	555
45°	710	556	710	556	710	543
55°	460	272	460	272	460	414
65°	253	145	253	145	253	256
75°	128	72	128	72	128	136
85°	27	11	27	11	27	34
90°	6	42	6	82	6	6
95°	59	44	59	259	59	72
105°	280	449	280	617	280	298
115°	537	744	537	916	537	529
125°	794	1179	794	1124	794	710
135°	1080	1544	1080	1244	1080	834
145°	1379	1779	1379	1271	1379	863
155°	1637	1933	1637	1319	1637	753
165°	1810	2015	1810	1519	1810	510
175°	1892	1973	1892	1781	1892	180
180°	1898	1898	1898	1898	1898	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1104.6	1110.7	1116.7	1114.0	1108.4	1105.8	1106.2	1106.8	1108.0	1109.2	1108.0
5°	1103.5	1112.1	1120.6	1118.6	1113.1	1110.8	1111.8	1113.8	1118.8	1123.9	1118.8
7.5°	1103.3	1115.5	1127.6	1128.5	1125.7	1125.8	1128.7	1132.5	1139.2	1145.8	1139.2
10°	1102.4	1117.0	1131.5	1133.7	1131.7	1130.9	1131.4	1133.5	1140.6	1147.6	1140.6
12.5°	1097.0	1113.9	1130.9	1129.1	1121.1	1116.7	1116.0	1116.5	1120.3	1124.1	1120.3
15°	1080.9	1101.0	1121.1	1112.9	1095.4	1087.3	1088.8	1090.6	1093.1	1095.6	1093.1
17.5°	1052.6	1073.6	1094.6	1087.3	1070.5	1064.8	1070.3	1075.6	1080.5	1085.4	1080.5
20°	1034.5	1055.2	1075.8	1070.7	1057.2	1053.9	1060.9	1068.3	1076.9	1085.4	1076.9
22.5°	1018.3	1038.9	1059.5	1056.3	1045.1	1044.4	1054.3	1064.6	1076.4	1088.1	1076.4
25°	995.0	1013.1	1031.2	1031.5	1026.0	1031.5	1048.1	1063.8	1076.9	1089.9	1076.9
27.5°	970.6	981.2	991.9	998.9	1004.7	1018.8	1041.3	1060.4	1069.5	1078.6	1069.5
30°	949.7	956.8	963.8	976.9	992.0	1009.3	1028.9	1044.5	1048.0	1051.5	1048.0
32.5°	927.1	931.4	935.6	954.0	977.1	993.8	1004.2	1010.8	1006.3	1001.8	1006.3
35°	889.8	893.3	896.9	920.4	950.5	961.6	953.5	945.1	935.6	926.0	935.6
37.5°	845.5	852.7	860.0	879.1	902.2	902.0	878.5	858.1	847.2	836.2	847.2
40°	812.9	825.0	837.1	849.9	862.9	851.9	816.7	787.2	774.6	762.1	774.6
42.5°	773.1	792.4	811.7	814.6	812.0	788.3	743.4	706.0	690.6	675.2	690.6
45°	710.0	736.2	762.3	747.4	718.7	680.0	631.3	590.5	573.4	556.3	573.4
47.5°	635.7	662.5	689.3	661.1	614.6	569.6	526.1	489.4	473.4	457.5	473.4
50°	586.8	608.4	630.0	598.1	548.4	503.1	462.4	427.5	409.9	392.3	409.9
52.5°	537.1	552.6	568.2	536.6	489.3	445.3	404.5	370.0	354.0	338.1	354.0
55°	460.2	468.2	476.3	447.0	405.3	365.1	326.4	294.6	283.5	272.5	283.5
57.5°	389.6	394.7	399.9	372.1	333.4	297.7	264.8	238.1	230.0	221.8	230.0
60°	347.1	350.6	354.1	326.0	287.3	255.2	229.5	208.7	202.1	195.6	202.1
62.5°	308.2	310.9	313.6	286.5	249.4	220.7	200.3	183.7	178.8	173.9	178.8
65°	253.3	255.8	258.3	235.2	203.5	179.9	164.3	151.8	148.2	144.7	148.2
67.5°	209.6	210.9	212.2	193.2	167.4	148.3	136.1	126.0	122.7	119.4	122.7
70°	184.3	184.8	185.3	168.5	145.9	129.0	118.0	109.0	106.5	104.0	106.5
72.5°	161.7	161.0	160.3	145.3	125.5	111.0	102.0	94.8	93.1	91.4	93.1
75°	127.8	126.3	124.7	112.3	96.2	85.2	79.1	74.4	73.4	72.4	73.4
77.5°	95.4	93.8	92.2	81.9	68.6	61.0	58.9	57.4	57.4	57.4	57.4
80°	74.6	72.6	70.6	62.6	52.5	47.5	47.5	47.5	47.5	47.5	47.5
82.5°	55.6	52.8	50.0	45.1	39.4	36.6	36.6	36.5	36.1	35.7	36.1
85°	27.1	24.6	22.1	21.5	21.5	20.0	17.0	14.3	12.8	11.3	12.8
87.5°	8.4	9.9	11.8	11.9	11.0	10.4	10.4	10.8	11.1	11.1	11.1
90°	5.8	13.4	23.0	30.7	36.4	38.3	38.3	40.3	42.2	42.2	42.2
92.5°	21.1	33.4	33.7	33.7	41.0	44.5	47.6	47.9	49.9	49.9	49.9
95°	59.4	65.2	97.8	95.9	65.2	51.8	44.1	44.1	44.1	44.1	44.1
97.5°	113.5	121.9	127.3	170.6	180.2	174.1	141.9	119.3	106.6	100.9	106.6
100°	161.1	164.9	176.4	178.3	226.2	272.3	249.3	220.5	210.9	205.2	210.9
102.5°	208.6	210.9	228.5	236.6	247.7	273.8	353.6	344.7	338.2	337.1	338.2
105°	279.9	281.9	314.4	329.8	337.5	337.5	335.5	373.9	435.2	448.7	435.2
107.5°	356.2	365.1	403.4	444.4	453.3	455.6	445.6	439.8	437.5	439.1	437.5
110°	408.4	421.8	467.8	519.6	533.0	536.9	533.0	527.3	523.4	523.4	523.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	459.0	478.6	530.7	590.2	612.8	624.3	615.9	611.6	607.8	610.9	607.8
115°	536.9	565.6	634.6	696.0	742.0	747.8	745.9	745.9	743.9	743.9	743.9
117.5°	609.0	655.0	732.4	803.8	857.1	872.4	880.1	877.8	875.5	879.3	875.5
120°	659.6	713.3	801.5	882.0	933.8	956.8	964.4	960.6	964.4	960.6	964.4
122.5°	713.3	779.2	865.9	949.5	1010.5	1036.5	1045.7	1046.5	1047.3	1045.0	1047.3
125°	793.8	874.3	975.9	1062.2	1125.5	1156.2	1163.8	1165.8	1169.6	1179.2	1169.6
127.5°	875.1	966.4	1077.9	1161.2	1226.0	1263.2	1275.0	1279.3	1287.3	1291.5	1287.3
130°	931.8	1035.4	1148.5	1227.1	1290.4	1330.7	1351.7	1357.5	1367.1	1365.2	1367.1
132.5°	991.7	1099.8	1214.5	1296.1	1354.8	1398.1	1416.2	1432.7	1436.1	1438.8	1436.1
135°	1079.5	1196.4	1311.5	1392.0	1447.6	1489.8	1512.8	1528.1	1537.7	1543.5	1537.7
137.5°	1171.9	1295.4	1405.8	1477.5	1533.5	1569.9	1596.0	1612.1	1622.1	1626.7	1622.1
140°	1234.8	1353.7	1461.0	1535.8	1585.7	1622.1	1645.1	1664.3	1675.8	1675.8	1675.8
142.5°	1294.6	1411.9	1516.3	1591.0	1634.7	1668.1	1692.6	1707.2	1720.3	1720.3	1720.3
145°	1378.6	1495.5	1591.4	1666.2	1702.6	1733.3	1760.1	1771.6	1779.3	1779.3	1779.3
147.5°	1466.4	1569.9	1657.4	1729.1	1759.8	1795.8	1816.9	1826.1	1835.7	1831.5	1835.7
150°	1518.6	1614.4	1698.8	1765.9	1796.6	1831.1	1852.2	1859.8	1869.4	1863.7	1869.4
152.5°	1569.2	1660.4	1737.1	1799.6	1825.7	1860.2	1884.4	1892.1	1898.6	1894.4	1898.6
155°	1637.4	1718.0	1788.9	1846.4	1869.4	1902.0	1925.0	1934.6	1942.3	1932.7	1942.3
157.5°	1698.4	1767.8	1829.5	1882.5	1907.0	1935.0	1956.5	1968.4	1976.0	1971.8	1976.0
160°	1735.2	1798.5	1854.1	1903.9	1927.0	1951.9	1974.9	1988.3	1996.0	1990.2	1996.0
162.5°	1765.9	1823.0	1875.6	1920.8	1940.8	1962.6	1990.2	2002.1	2009.8	2002.5	2009.8
165°	1810.0	1856.0	1902.0	1940.4	1957.6	1974.9	2003.6	2017.1	2022.8	2015.1	2022.8
167.5°	1843.4	1878.6	1915.8	1948.8	1961.5	1978.3	2007.1	2018.2	2025.5	2015.9	2025.5
170°	1861.8	1892.4	1925.0	1951.9	1961.5	1976.8	2005.6	2015.1	2020.9	2011.3	2020.9
172.5°	1877.1	1900.1	1926.6	1950.3	1955.3	1967.6	1994.8	2004.4	2008.6	2000.6	2008.6
175°	1892.4	1905.9	1925.0	1940.4	1938.5	1946.1	1969.1	1976.8	1984.5	1973.0	1984.5
177.5°	1899.7	1905.9	1912.0	1921.2	1915.1	1915.1	1931.9	1936.5	1938.1	1931.9	1938.1
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1106.8	1106.2	1105.8	1108.4	1114.0	1116.7	1110.7	1104.6	1110.7	1116.7	1114.0
5°	1113.8	1111.8	1110.8	1113.1	1118.6	1120.6	1112.1	1103.5	1112.1	1120.6	1118.6
7.5°	1132.5	1128.7	1125.8	1125.7	1128.5	1127.6	1115.5	1103.3	1115.5	1127.6	1128.5
10°	1133.5	1131.4	1130.9	1131.7	1133.7	1131.5	1117.0	1102.4	1117.0	1131.5	1133.7
12.5°	1116.5	1116.0	1116.7	1121.1	1129.1	1130.9	1113.9	1097.0	1113.9	1130.9	1129.1
15°	1090.6	1088.8	1087.3	1095.4	1112.9	1121.1	1101.0	1080.9	1101.0	1121.1	1112.9
17.5°	1075.6	1070.3	1064.8	1070.5	1087.3	1094.6	1073.6	1052.6	1073.6	1094.6	1087.3
20°	1068.3	1060.9	1053.9	1057.2	1070.7	1075.8	1055.2	1034.5	1055.2	1075.8	1070.7
22.5°	1064.6	1054.3	1044.4	1045.1	1056.3	1059.5	1038.9	1018.3	1038.9	1059.5	1056.3
25°	1063.8	1048.1	1031.5	1026.0	1031.5	1031.2	1013.1	995.0	1013.1	1031.2	1031.5
27.5°	1060.4	1041.3	1018.8	1004.7	998.9	991.9	981.2	970.6	981.2	991.9	998.9
30°	1044.5	1028.9	1009.3	992.0	976.9	963.8	956.8	949.7	956.8	963.8	976.9
32.5°	1010.8	1004.2	993.8	977.1	954.0	935.6	931.4	927.1	931.4	935.6	954.0
35°	945.1	953.5	961.6	950.5	920.4	896.9	893.3	889.8	893.3	896.9	920.4
37.5°	858.1	878.5	902.0	902.2	879.1	860.0	852.7	845.5	852.7	860.0	879.1
40°	787.2	816.7	851.9	862.9	849.9	837.1	825.0	812.9	825.0	837.1	849.9
42.5°	706.0	743.4	788.3	812.0	814.6	811.7	792.4	773.1	792.4	811.7	814.6
45°	590.5	631.3	680.0	718.7	747.4	762.3	736.2	710.0	736.2	762.3	747.4
47.5°	489.4	526.1	569.6	614.6	661.1	689.3	662.5	635.7	662.5	689.3	661.1
50°	427.5	462.4	503.1	548.4	598.1	630.0	608.4	586.8	608.4	630.0	598.1
52.5°	370.0	404.5	445.3	489.3	536.6	568.2	552.6	537.1	552.6	568.2	536.6
55°	294.6	326.4	365.1	405.3	447.0	476.3	468.2	460.2	468.2	476.3	447.0
57.5°	238.1	264.8	297.7	333.4	372.1	399.9	394.7	389.6	394.7	399.9	372.1
60°	208.7	229.5	255.2	287.3	326.0	354.1	350.6	347.1	350.6	354.1	326.0
62.5°	183.7	200.3	220.7	249.4	286.5	313.6	310.9	308.2	310.9	313.6	286.5
65°	151.8	164.3	179.9	203.5	235.2	258.3	255.8	253.3	255.8	258.3	235.2
67.5°	126.0	136.1	148.3	167.4	193.2	212.2	210.9	209.6	210.9	212.2	193.2
70°	109.0	118.0	129.0	145.9	168.5	185.3	184.8	184.3	184.8	185.3	168.5
72.5°	94.8	102.0	111.0	125.5	145.3	160.3	161.0	161.7	161.0	160.3	145.3
75°	74.4	79.1	85.2	96.2	112.3	124.7	126.3	127.8	126.3	124.7	112.3
77.5°	57.4	58.9	61.0	68.6	81.9	92.2	93.8	95.4	93.8	92.2	81.9
80°	47.5	47.5	47.5	52.5	62.6	70.6	72.6	74.6	72.6	70.6	62.6
82.5°	36.5	36.6	36.6	39.4	45.1	50.0	52.8	55.6	52.8	50.0	45.1
85°	14.3	17.0	20.0	21.5	21.5	22.1	24.6	27.1	24.6	22.1	21.5
87.5°	10.8	10.4	10.4	11.0	11.9	11.8	9.9	8.4	9.9	11.5	12.6
90°	40.3	38.3	38.3	36.4	30.7	23.0	13.4	5.8	13.4	21.1	34.5
92.5°	47.9	47.6	44.5	41.0	33.7	33.7	33.4	21.1	36.4	51.8	74.4
95°	44.1	44.1	51.8	65.2	95.9	97.8	65.2	59.4	84.4	118.9	149.6
97.5°	119.3	141.9	174.1	180.2	170.6	127.3	121.9	113.5	154.5	188.7	238.1
100°	220.5	249.3	272.3	226.2	178.3	176.4	164.9	161.1	205.2	237.8	285.7
102.5°	344.7	353.6	273.8	247.7	236.6	228.5	210.9	208.6	252.7	297.6	337.8
105°	373.9	335.5	337.5	337.5	329.8	314.4	281.9	279.9	329.8	381.6	431.4
107.5°	439.8	445.6	455.6	453.3	444.4	403.4	365.1	356.2	401.1	463.2	518.1
110°	527.3	533.0	536.9	533.0	519.6	467.8	421.8	408.4	448.7	513.9	573.3



TEST NUMBER: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	611.6	615.9	624.3	612.8	590.2	530.7	478.6	459.0	499.3	566.0	627.0
115°	745.9	745.9	747.8	742.0	696.0	634.6	565.6	536.9	571.4	632.7	699.8
117.5°	877.8	880.1	872.4	857.1	803.8	732.4	655.0	609.0	636.2	701.0	770.0
120°	960.6	964.4	956.8	933.8	882.0	801.5	713.3	659.6	680.7	743.9	813.0
122.5°	1046.5	1045.7	1036.5	1010.5	949.5	865.9	779.2	713.3	722.1	780.8	848.2
125°	1165.8	1163.8	1156.2	1125.5	1062.2	975.9	874.3	793.8	782.3	832.1	901.2
127.5°	1279.3	1275.0	1263.2	1226.0	1161.2	1077.9	966.4	875.1	849.4	880.8	944.1
130°	1357.5	1351.7	1330.7	1290.4	1227.1	1148.5	1035.4	931.8	895.4	914.6	970.2
132.5°	1432.7	1416.2	1398.1	1354.8	1296.1	1214.5	1099.8	991.7	941.4	949.9	993.2
135°	1528.1	1512.8	1489.8	1447.6	1392.0	1311.5	1196.4	1079.5	1010.5	1002.8	1027.7
137.5°	1612.1	1596.0	1569.9	1533.5	1477.5	1405.8	1295.4	1171.9	1084.8	1059.2	1068.7
140°	1664.3	1645.1	1622.1	1585.7	1535.8	1461.0	1353.7	1234.8	1137.0	1100.6	1094.8
142.5°	1707.2	1692.6	1668.1	1634.7	1591.0	1516.3	1411.9	1294.6	1190.7	1143.5	1130.1
145°	1771.6	1760.1	1733.3	1702.6	1666.2	1591.4	1495.5	1378.6	1275.0	1213.7	1184.9
147.5°	1826.1	1816.9	1795.8	1759.8	1729.1	1657.4	1569.9	1466.4	1360.2	1284.3	1247.1
150°	1859.8	1852.2	1831.1	1796.6	1765.9	1698.8	1614.4	1518.6	1416.9	1336.4	1288.5
152.5°	1892.1	1884.4	1860.2	1825.7	1799.6	1737.1	1660.4	1569.2	1466.0	1385.5	1336.0
155°	1934.6	1925.0	1902.0	1869.4	1846.4	1788.9	1718.0	1637.4	1549.2	1464.9	1409.3
157.5°	1968.4	1956.5	1935.0	1907.0	1882.5	1829.5	1767.8	1698.4	1621.3	1540.8	1484.0
160°	1988.3	1974.9	1951.9	1927.0	1903.9	1854.1	1798.5	1735.2	1664.3	1591.4	1530.1
162.5°	2002.1	1990.2	1962.6	1940.8	1920.8	1875.6	1823.0	1765.9	1702.6	1639.0	1582.2
165°	2017.1	2003.6	1974.9	1957.6	1940.4	1902.0	1856.0	1810.0	1756.3	1704.5	1658.5
167.5°	2018.2	2007.1	1978.3	1961.5	1948.8	1915.8	1878.6	1843.4	1801.6	1760.9	1722.6
170°	2015.1	2005.6	1976.8	1961.5	1951.9	1925.0	1892.4	1861.8	1829.2	1794.7	1764.0
172.5°	2004.4	1994.8	1967.6	1955.3	1950.3	1926.6	1900.1	1877.1	1849.1	1823.8	1799.3
175°	1976.8	1969.1	1946.1	1938.5	1940.4	1925.0	1905.9	1892.4	1875.2	1859.8	1846.4
177.5°	1936.5	1931.9	1915.1	1915.1	1921.2	1912.0	1905.9	1899.7	1892.1	1887.5	1882.9
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1108.4	1105.8	1106.2	1106.8	1108.0	1109.2	1108.0	1106.8	1106.2	1105.8	1108.4
5°	1113.1	1110.8	1111.8	1113.8	1118.8	1123.9	1118.8	1113.8	1111.8	1110.8	1113.1
7.5°	1125.7	1125.8	1128.7	1132.5	1139.2	1145.8	1139.2	1132.5	1128.7	1125.8	1125.7
10°	1131.7	1130.9	1131.4	1133.5	1140.6	1147.6	1140.6	1133.5	1131.4	1130.9	1131.7
12.5°	1121.1	1116.7	1116.0	1116.5	1120.3	1124.1	1120.3	1116.5	1116.0	1116.7	1121.1
15°	1095.4	1087.3	1088.8	1090.6	1093.1	1095.6	1093.1	1090.6	1088.8	1087.3	1095.4
17.5°	1070.5	1064.8	1070.3	1075.6	1080.5	1085.4	1080.5	1075.6	1070.3	1064.8	1070.5
20°	1057.2	1053.9	1060.9	1068.3	1076.9	1085.4	1076.9	1068.3	1060.9	1053.9	1057.2
22.5°	1045.1	1044.4	1054.3	1064.6	1076.4	1088.1	1076.4	1064.6	1054.3	1044.4	1045.1
25°	1026.0	1031.5	1048.1	1063.8	1076.9	1089.9	1076.9	1063.8	1048.1	1031.5	1026.0
27.5°	1004.7	1018.8	1041.3	1060.4	1069.5	1078.6	1069.5	1060.4	1041.3	1018.8	1004.7
30°	992.0	1009.3	1028.9	1044.5	1048.0	1051.5	1048.0	1044.5	1028.9	1009.3	992.0
32.5°	977.1	993.8	1004.2	1010.8	1006.3	1001.8	1006.3	1010.8	1004.2	993.8	977.1
35°	950.5	961.6	953.5	945.1	935.6	926.0	935.6	945.1	953.5	961.6	950.5
37.5°	902.2	902.0	878.5	858.1	847.2	836.2	847.2	858.1	878.5	902.0	902.2
40°	862.9	851.9	816.7	787.2	774.6	762.1	774.6	787.2	816.7	851.9	862.9
42.5°	812.0	788.3	743.4	706.0	690.6	675.2	690.6	706.0	743.4	788.3	812.0
45°	718.7	680.0	631.3	590.5	573.4	556.3	573.4	590.5	631.3	680.0	718.7
47.5°	614.6	569.6	526.1	489.4	473.4	457.5	473.4	489.4	526.1	569.6	614.6
50°	548.4	503.1	462.4	427.5	409.9	392.3	409.9	427.5	462.4	503.1	548.4
52.5°	489.3	445.3	404.5	370.0	354.0	338.1	354.0	370.0	404.5	445.3	489.3
55°	405.3	365.1	326.4	294.6	283.5	272.5	283.5	294.6	326.4	365.1	405.3
57.5°	333.4	297.7	264.8	238.1	230.0	221.8	230.0	238.1	264.8	297.7	333.4
60°	287.3	255.2	229.5	208.7	202.1	195.6	202.1	208.7	229.5	255.2	287.3
62.5°	249.4	220.7	200.3	183.7	178.8	173.9	178.8	183.7	200.3	220.7	249.4
65°	203.5	179.9	164.3	151.8	148.2	144.7	148.2	151.8	164.3	179.9	203.5
67.5°	167.4	148.3	136.1	126.0	122.7	119.4	122.7	126.0	136.1	148.3	167.4
70°	145.9	129.0	118.0	109.0	106.5	104.0	106.5	109.0	118.0	129.0	145.9
72.5°	125.5	111.0	102.0	94.8	93.1	91.4	93.1	94.8	102.0	111.0	125.5
75°	96.2	85.2	79.1	74.4	73.4	72.4	73.4	74.4	79.1	85.2	96.2
77.5°	68.6	61.0	58.9	57.4	57.4	57.4	57.4	57.4	58.9	61.0	68.6
80°	52.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	52.5
82.5°	39.4	36.6	36.6	36.5	36.1	35.7	36.1	36.5	36.6	36.6	39.4
85°	21.5	20.0	17.0	14.3	12.8	11.3	12.8	14.3	17.0	20.0	21.5
87.5°	12.5	14.2	16.9	18.4	20.0	19.2	20.0	18.4	16.9	14.2	12.5
90°	44.1	57.5	70.9	78.6	86.3	82.4	86.3	78.6	70.9	57.5	44.1
92.5°	88.6	111.2	127.7	141.5	147.6	146.9	147.6	141.5	127.7	111.2	88.6
95°	178.3	205.2	232.0	251.2	262.7	258.8	262.7	251.2	232.0	205.2	178.3
97.5°	275.0	311.0	340.9	358.9	370.4	378.1	370.4	358.9	340.9	311.0	275.0
100°	339.4	373.9	408.4	429.5	448.7	456.3	448.7	429.5	408.4	373.9	339.4
102.5°	391.5	436.8	474.4	497.0	513.1	520.8	513.1	497.0	474.4	436.8	391.5
105°	477.4	525.4	565.6	594.4	611.6	617.4	611.6	594.4	565.6	525.4	477.4
107.5°	563.3	612.8	650.0	681.8	702.9	715.2	702.9	681.8	650.0	612.8	563.3
110°	630.8	671.1	711.3	740.1	761.2	768.9	761.2	740.1	711.3	671.1	630.8



TEST NUMBER: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	687.6	732.4	772.7	801.5	825.6	836.4	825.6	801.5	772.7	732.4	687.6
115°	766.9	826.4	862.8	889.7	906.9	916.5	906.9	889.7	862.8	826.4	766.9
117.5°	832.9	895.0	934.9	955.6	963.7	970.6	963.7	955.6	934.9	895.0	832.9
120°	874.3	931.8	977.9	1004.7	1014.3	1018.1	1014.3	1004.7	977.9	931.8	874.3
122.5°	912.7	967.1	1011.6	1044.6	1060.3	1064.1	1060.3	1044.6	1011.6	967.1	912.7
125°	966.4	1018.1	1064.1	1096.7	1114.0	1123.6	1114.0	1096.7	1064.1	1018.1	966.4
127.5°	1013.1	1069.1	1111.3	1140.8	1157.7	1165.4	1157.7	1140.8	1111.3	1069.1	1013.1
130°	1039.2	1096.7	1138.9	1171.5	1186.8	1194.5	1186.8	1171.5	1138.9	1096.7	1039.2
132.5°	1059.2	1119.7	1163.5	1193.0	1209.9	1217.5	1209.9	1193.0	1163.5	1119.7	1059.2
135°	1083.3	1146.6	1192.6	1221.4	1236.7	1244.4	1236.7	1221.4	1192.6	1146.6	1083.3
137.5°	1104.4	1161.9	1209.9	1240.2	1254.0	1258.9	1254.0	1240.2	1209.9	1161.9	1104.4
140°	1119.7	1169.6	1217.5	1246.3	1261.6	1263.5	1261.6	1246.3	1217.5	1169.6	1119.7
142.5°	1139.7	1178.8	1220.6	1249.4	1264.7	1268.1	1264.7	1249.4	1220.6	1178.8	1139.7
145°	1175.3	1198.4	1227.1	1254.0	1267.4	1271.2	1267.4	1254.0	1227.1	1198.4	1175.3
147.5°	1220.2	1227.5	1242.5	1260.1	1273.1	1275.8	1273.1	1260.1	1242.5	1227.5	1220.2
150°	1254.0	1252.0	1257.8	1269.3	1280.8	1278.9	1280.8	1269.3	1257.8	1252.0	1254.0
152.5°	1292.3	1281.2	1280.8	1286.2	1291.5	1291.2	1291.5	1286.2	1280.8	1281.2	1292.3
155°	1357.5	1336.4	1324.9	1321.1	1321.1	1319.1	1321.1	1321.1	1324.9	1336.4	1357.5
157.5°	1429.2	1399.7	1382.4	1373.2	1370.5	1366.3	1370.5	1373.2	1382.4	1399.7	1429.2
160°	1478.3	1445.7	1428.4	1413.1	1407.3	1401.6	1407.3	1413.1	1428.4	1445.7	1478.3
162.5°	1524.3	1493.2	1474.5	1460.6	1454.9	1446.1	1454.9	1460.6	1474.5	1493.2	1524.3
165°	1599.1	1566.5	1545.4	1533.9	1526.2	1518.6	1526.2	1533.9	1545.4	1566.5	1599.1
167.5°	1673.9	1638.2	1624.4	1611.4	1604.1	1590.3	1604.1	1611.4	1624.4	1638.2	1673.9
170°	1719.9	1687.3	1679.6	1668.1	1654.7	1639.3	1654.7	1668.1	1679.6	1687.3	1719.9
172.5°	1759.8	1737.9	1730.2	1718.7	1714.5	1702.2	1714.5	1718.7	1730.2	1737.9	1759.8
175°	1817.7	1800.4	1800.4	1798.5	1792.7	1781.2	1792.7	1798.5	1800.4	1800.4	1817.7
177.5°	1866.0	1856.8	1862.9	1862.9	1861.4	1850.6	1861.4	1862.9	1862.9	1856.8	1866.0
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1109.2	1109.2	1109.2	1109.2
2.5°	1114.0	1116.7	1110.7	1104.6
5°	1118.6	1120.6	1112.1	1103.5
7.5°	1128.5	1127.6	1115.5	1103.3
10°	1133.7	1131.5	1117.0	1102.4
12.5°	1129.1	1130.9	1113.9	1097.0
15°	1112.9	1121.1	1101.0	1080.9
17.5°	1087.3	1094.6	1073.6	1052.6
20°	1070.7	1075.8	1055.2	1034.5
22.5°	1056.3	1059.5	1038.9	1018.3
25°	1031.5	1031.2	1013.1	995.0
27.5°	998.9	991.9	981.2	970.6
30°	976.9	963.8	956.8	949.7
32.5°	954.0	935.6	931.4	927.1
35°	920.4	896.9	893.3	889.8
37.5°	879.1	860.0	852.7	845.5
40°	849.9	837.1	825.0	812.9
42.5°	814.6	811.7	792.4	773.1
45°	747.4	762.3	736.2	710.0
47.5°	661.1	689.3	662.5	635.7
50°	598.1	630.0	608.4	586.8
52.5°	536.6	568.2	552.6	537.1
55°	447.0	476.3	468.2	460.2
57.5°	372.1	399.9	394.7	389.6
60°	326.0	354.1	350.6	347.1
62.5°	286.5	313.6	310.9	308.2
65°	235.2	258.3	255.8	253.3
67.5°	193.2	212.2	210.9	209.6
70°	168.5	185.3	184.8	184.3
72.5°	145.3	160.3	161.0	161.7
75°	112.3	124.7	126.3	127.8
77.5°	81.9	92.2	93.8	95.4
80°	62.6	70.6	72.6	74.6
82.5°	45.1	50.0	52.8	55.6
85°	21.5	22.1	24.6	27.1
87.5°	12.6	11.5	9.9	8.4
90°	34.5	21.1	13.4	5.8
92.5°	74.4	51.8	36.4	21.1
95°	149.6	118.9	84.4	59.4
97.5°	238.1	188.7	154.5	113.5
100°	285.7	237.8	205.2	161.1
102.5°	337.8	297.6	252.7	208.6
105°	431.4	381.6	329.8	279.9
107.5°	518.1	463.2	401.1	356.2
110°	573.3	513.9	448.7	408.4



TEST NUMBER: P1428275

CATALOG NUMBER: SQ2W-PR1-K-125U-050D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	627.0	566.0	499.3	459.0
115°	699.8	632.7	571.4	536.9
117.5°	770.0	701.0	636.2	609.0
120°	813.0	743.9	680.7	659.6
122.5°	848.2	780.8	722.1	713.3
125°	901.2	832.1	782.3	793.8
127.5°	944.1	880.8	849.4	875.1
130°	970.2	914.6	895.4	931.8
132.5°	993.2	949.9	941.4	991.7
135°	1027.7	1002.8	1010.5	1079.5
137.5°	1068.7	1059.2	1084.8	1171.9
140°	1094.8	1100.6	1137.0	1234.8
142.5°	1130.1	1143.5	1190.7	1294.6
145°	1184.9	1213.7	1275.0	1378.6
147.5°	1247.1	1284.3	1360.2	1466.4
150°	1288.5	1336.4	1416.9	1518.6
152.5°	1336.0	1385.5	1466.0	1569.2
155°	1409.3	1464.9	1549.2	1637.4
157.5°	1484.0	1540.8	1621.3	1698.4
160°	1530.1	1591.4	1664.3	1735.2
162.5°	1582.2	1639.0	1702.6	1765.9
165°	1658.5	1704.5	1756.3	1810.0
167.5°	1722.6	1760.9	1801.6	1843.4
170°	1764.0	1794.7	1829.2	1861.8
172.5°	1799.3	1823.8	1849.1	1877.1
175°	1846.4	1859.8	1875.2	1892.4
177.5°	1882.9	1887.5	1892.1	1899.7
180°	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428275  
 CATALOG NUMBER: SQ2W-PR1-K-125U-050D-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	14.80	15.50	15.90	16.59	18.09	11.16	11.87	12.27	12.96	14.46
	3H	15.99	16.62	17.10	17.72	19.24	12.31	12.94	13.42	14.04	15.56
	4H	16.47	17.06	17.59	18.16	19.69	12.77	13.36	13.89	14.47	15.99
	6H	16.76	17.30	17.88	18.41	19.94	13.10	13.65	14.23	14.75	16.29
	8H	16.86	17.37	17.99	18.49	20.02	13.24	13.75	14.37	14.88	16.41
	12H	16.89	17.38	18.02	18.50	20.05	13.26	13.75	14.40	14.87	16.42
4H	2H	14.88	15.47	16.01	16.57	18.10	11.86	12.45	12.98	13.55	15.08
	3H	16.32	16.82	17.46	17.95	19.48	13.20	13.69	14.33	14.82	16.36
	4H	16.95	17.40	18.08	18.52	20.08	13.74	14.19	14.87	15.31	16.86
	6H	17.37	17.76	18.51	18.90	20.45	14.16	14.55	15.30	15.69	17.24
	8H	17.53	17.89	18.67	19.02	20.59	14.34	14.70	15.48	15.83	17.40
	12H	17.58	17.91	18.74	19.06	20.63	14.38	14.71	15.54	15.85	17.42
8H	4H	16.96	17.32	18.10	18.46	20.02	14.05	14.41	15.19	15.55	17.11
	6H	17.49	17.79	18.65	18.96	20.52	14.59	14.88	15.75	16.06	17.62
	8H	17.72	17.98	18.89	19.14	20.72	14.85	15.11	16.02	16.26	17.85
	12H	17.83	18.06	19.00	19.21	20.83	14.94	15.16	16.11	16.32	17.93
12H	4H	16.91	17.24	18.07	18.38	19.95	14.06	14.39	15.22	15.54	17.11
	6H	17.48	17.74	18.64	18.89	20.48	14.66	14.92	15.83	16.07	17.66
	8H	17.72	17.95	18.89	19.10	20.72	14.94	15.17	16.11	16.32	17.94