

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: P1427973

Luminaire Tested: SQ2W-PH1-K-150U-075D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427973  
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-150U-075D-L935-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

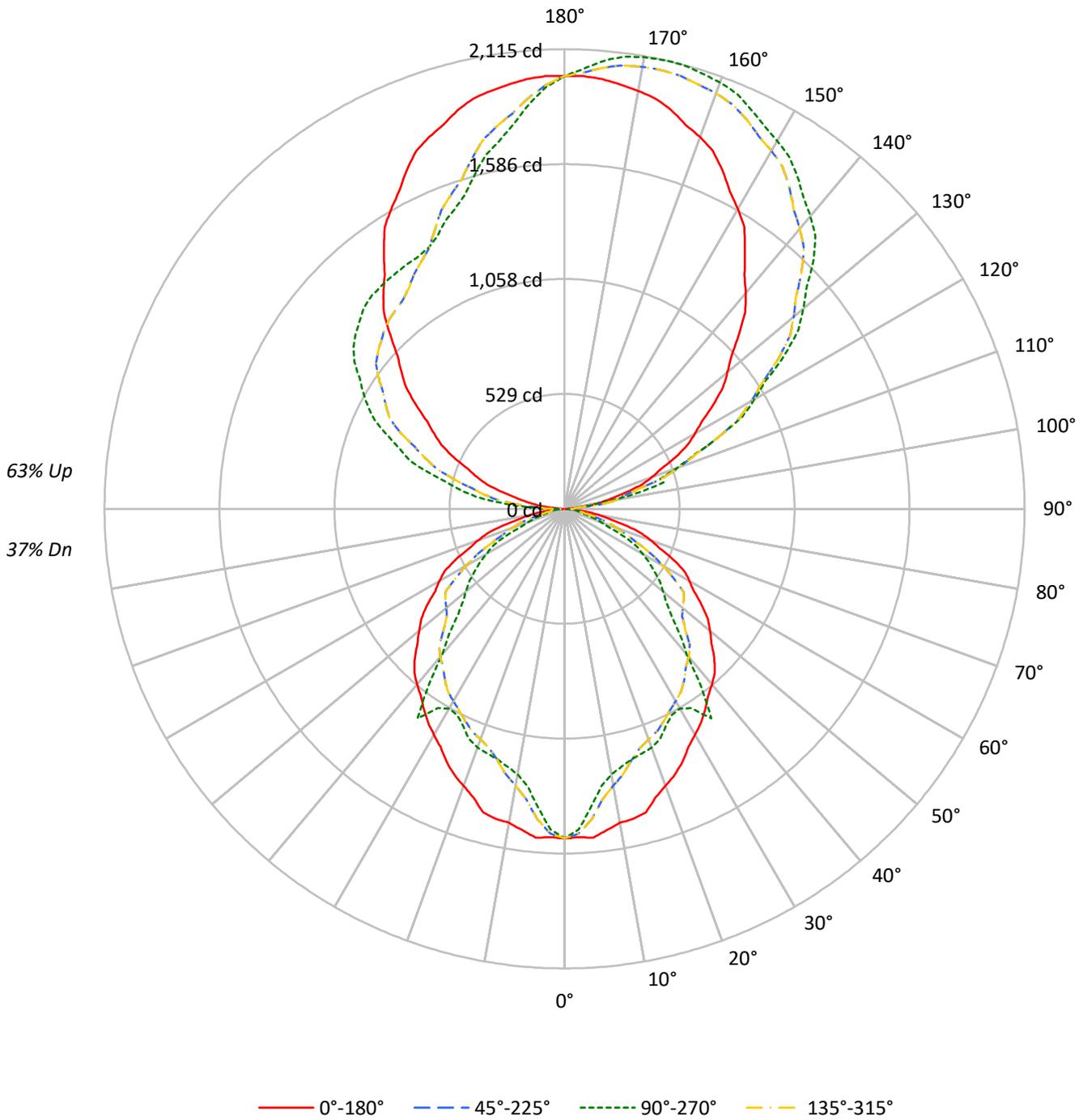
Lumens per Lamp: N/A  
Luminaire Lumens: 9175.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 81.8  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	90°	180°	270°
0°	24480	24480	24480	24480
5°	24619	22374	24619	22374
10°	24053	20339	24053	20339
15°	24162	19941	24162	19941
20°	23298	20101	23298	20101
25°	22872	19634	22872	19634
30°	22376	19794	22376	19794
35°	22207	23201	22207	23201
40°	22225	18396	22225	18396
45°	22233	15844	22233	15844
50°	21923	14857	21923	14857
55°	21644	14252	21644	14252
60°	21428	13369	21428	13369
65°	21054	11629	21054	11629
70°	19883	8308	19883	8308
75°	17729	6301	17729	6301
80°	14486	5904	14486	5904
85°	9077	4001	9077	4001

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22233 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	1.5
10°-20°	350.9	3.8
20°-30°	514.5	5.6
30°-40°	623.0	6.8
40°-50°	612.6	6.7
50°-60°	532.9	5.8
60°-70°	370.6	4.0
70°-80°	175.8	1.9
80°-90°	47.0	0.5
90°-100°	158.5	1.7
100°-110°	462.2	5.0
110°-120°	754.2	8.2
120°-130°	957.1	10.4
130°-140°	1024.1	11.2
140°-150°	956.3	10.4
150°-160°	786.9	8.6
160°-170°	527.7	5.8
170°-180°	187.4	2.0
0°-30°	998.8	10.9
0°-40°	1621.8	17.7
0°-60°	2767.2	30.2
0°-90°	3360.6	36.6
90°-120°	1374.9	15.0
90°-150°	4312.4	47.0
90°-180°	5814.0	63.4
0°-180°	9175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1519	1380	1519	1380	1519	143
15°	1446	1193	1446	1193	1446	403
25°	1284	1102	1284	1102	1284	590
35°	1127	1177	1127	1177	1127	706
45°	974	694	974	694	974	748
55°	769	506	769	506	769	687
65°	551	304	551	304	551	541
75°	284	101	284	101	284	301
85°	49	22	49	22	49	66
90°	6	44	6	86	6	6
95°	62	46	62	272	62	75
105°	294	471	294	648	294	312
115°	563	780	563	962	563	555
125°	833	1237	833	1179	833	745
135°	1132	1619	1132	1306	1132	875
145°	1446	1867	1446	1334	1446	905
155°	1718	2028	1718	1384	1718	790
165°	1899	2114	1899	1593	1899	535
175°	1985	2070	1985	1869	1985	188
180°	1991	1991	1991	1991	1991	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2
2.5°	1512.7	1519.9	1527.1	1516.9	1501.0	1490.0	1483.8	1479.0	1477.9	1476.9	1477.9
5°	1519.0	1518.4	1517.8	1487.8	1448.0	1418.2	1398.3	1383.1	1381.8	1380.5	1381.8
7.5°	1491.3	1471.5	1451.6	1411.3	1364.3	1329.8	1307.8	1291.1	1290.1	1289.1	1290.1
10°	1467.1	1437.0	1406.8	1361.3	1310.7	1275.4	1255.5	1240.6	1240.6	1240.6	1240.6
12.5°	1461.3	1413.8	1366.2	1316.3	1265.7	1233.0	1218.2	1207.9	1211.0	1214.1	1211.0
15°	1445.5	1373.7	1301.8	1251.2	1207.6	1183.9	1180.0	1178.9	1186.0	1193.0	1186.0
17.5°	1393.0	1315.6	1238.3	1193.8	1160.2	1147.5	1155.7	1163.9	1172.1	1180.3	1172.1
20°	1356.0	1279.7	1203.4	1162.2	1132.7	1125.7	1141.1	1154.5	1162.2	1169.9	1162.2
22.5°	1324.9	1247.5	1170.2	1133.8	1110.9	1108.0	1124.9	1138.6	1142.7	1146.9	1142.7
25°	1283.9	1196.7	1109.5	1082.9	1076.5	1080.7	1095.4	1106.0	1104.1	1102.1	1104.1
27.5°	1234.8	1143.8	1052.8	1035.7	1043.2	1051.5	1060.5	1067.5	1068.7	1069.8	1068.7
30°	1200.2	1109.2	1018.1	1004.5	1016.7	1027.3	1036.3	1045.1	1053.4	1061.7	1053.4
32.5°	1166.8	1072.6	978.5	968.7	987.1	1006.9	1028.2	1048.9	1068.0	1087.1	1068.0
35°	1126.7	1028.6	930.5	922.8	945.2	974.1	1009.3	1051.5	1114.3	1177.1	1114.3
37.5°	1084.5	979.4	874.2	870.7	901.1	931.5	961.9	989.7	1009.7	1029.7	1009.7
40°	1054.5	944.2	834.0	833.8	870.4	908.2	947.3	965.1	918.9	872.8	918.9
42.5°	1022.2	911.9	801.7	798.4	830.9	872.5	923.4	942.1	864.2	786.2	864.2
45°	973.7	859.0	744.2	740.0	772.7	795.8	809.3	805.4	749.7	693.9	749.7
47.5°	916.6	807.2	697.9	697.0	732.2	734.8	704.7	676.6	654.8	633.0	654.8
50°	872.8	769.5	666.3	670.8	711.2	707.3	659.3	619.7	605.6	591.5	605.6
52.5°	830.1	732.0	633.9	645.8	694.4	686.7	622.7	572.4	562.9	553.4	562.9
55°	768.9	674.6	580.4	607.3	674.6	664.4	576.6	510.2	508.3	506.3	508.3
57.5°	704.0	614.9	525.7	544.4	599.1	588.3	512.1	455.8	459.2	462.5	459.2
60°	663.6	577.0	490.5	492.9	524.9	514.7	462.1	421.7	417.9	414.0	417.9
62.5°	620.9	538.4	456.0	444.0	455.6	443.5	407.9	380.2	376.3	372.5	376.3
65°	551.1	476.1	401.0	378.4	373.3	356.0	326.5	304.4	304.4	304.4	304.4
67.5°	474.3	408.9	343.5	318.2	306.3	289.1	266.7	246.0	230.6	215.2	230.6
70°	421.2	363.5	305.8	279.4	263.4	242.8	217.8	196.5	186.3	176.0	186.3
72.5°	364.7	315.2	265.7	238.6	219.0	199.0	178.6	160.4	148.6	136.8	148.6
75°	284.2	244.4	204.7	178.4	156.6	136.4	117.8	103.5	102.3	101.0	102.3
77.5°	205.4	176.4	147.5	126.2	107.5	93.4	84.1	77.1	77.2	77.3	77.2
80°	155.8	134.0	112.2	92.3	73.1	63.2	62.5	62.2	62.8	63.5	62.8
82.5°	109.6	93.5	77.3	64.6	53.1	47.8	48.7	49.4	49.5	49.6	49.5
85°	49.0	41.4	33.7	30.8	29.5	27.6	25.0	22.9	22.3	21.6	22.3
87.5°	11.6	12.7	14.2	14.5	14.2	13.8	13.8	14.2	14.6	14.6	14.6
90°	6.0	14.1	24.1	32.2	38.2	40.2	40.2	42.2	44.3	44.3	44.3
92.5°	22.1	35.0	35.4	35.4	43.0	46.7	49.9	50.3	52.3	52.3	52.3
95°	62.4	68.4	102.6	100.6	68.4	54.3	46.3	46.3	46.3	46.3	46.3
97.5°	119.1	127.9	133.6	179.0	189.1	182.6	148.8	125.1	111.8	105.8	111.8
100°	169.0	173.0	185.1	187.1	237.4	285.6	261.5	231.3	221.3	215.2	221.3
102.5°	218.8	221.3	239.8	248.2	259.9	287.2	370.9	361.7	354.8	353.6	354.8
105°	293.7	295.7	329.9	346.0	354.0	354.0	352.0	392.2	456.6	470.7	456.6
107.5°	373.7	383.0	423.2	466.3	475.5	477.9	467.5	461.4	459.0	460.6	459.0
110°	428.4	442.5	490.8	545.1	559.2	563.2	559.2	553.2	549.1	549.1	549.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	481.5	502.1	556.8	619.1	642.9	654.9	646.1	641.7	637.6	640.9	637.6
115°	563.2	593.4	665.8	730.2	778.4	784.5	782.5	782.5	780.5	780.5	780.5
117.5°	638.8	687.1	768.4	843.2	899.1	915.2	923.3	920.9	918.4	922.5	918.4
120°	692.0	748.3	840.8	925.3	979.6	1003.7	1011.8	1007.8	1011.8	1007.8	1011.8
122.5°	748.3	817.5	908.4	996.1	1060.1	1087.4	1097.1	1097.9	1098.7	1096.3	1098.7
125°	832.8	917.2	1023.8	1114.4	1180.7	1212.9	1221.0	1223.0	1227.0	1237.1	1227.0
127.5°	918.0	1013.8	1130.9	1218.2	1286.1	1325.2	1337.6	1342.1	1350.5	1354.9	1350.5
130°	977.6	1086.2	1204.9	1287.3	1353.7	1396.0	1418.1	1424.1	1434.2	1432.2	1434.2
132.5°	1040.3	1153.8	1274.1	1359.8	1421.3	1466.8	1485.7	1503.0	1506.6	1509.4	1506.6
135°	1132.5	1255.2	1375.9	1460.3	1518.7	1562.9	1587.1	1603.2	1613.2	1619.2	1613.2
137.5°	1229.4	1359.0	1474.8	1550.0	1608.8	1647.0	1674.4	1691.3	1701.7	1706.5	1701.7
140°	1295.4	1420.1	1532.8	1611.2	1663.5	1701.7	1725.9	1746.0	1758.0	1758.0	1758.0
142.5°	1358.2	1481.3	1590.7	1669.1	1715.0	1750.0	1775.7	1791.0	1804.7	1804.7	1804.7
145°	1446.3	1569.0	1669.5	1748.0	1786.2	1818.4	1846.5	1858.6	1866.7	1866.7	1866.7
147.5°	1538.4	1647.0	1738.7	1814.0	1846.1	1884.0	1906.1	1915.7	1925.8	1921.4	1925.8
150°	1593.1	1693.7	1782.2	1852.6	1884.8	1921.0	1943.1	1951.1	1961.2	1955.2	1961.2
152.5°	1646.2	1741.9	1822.4	1888.0	1915.3	1951.5	1976.9	1984.9	1991.8	1987.3	1991.8
155°	1717.8	1802.3	1876.7	1937.1	1961.2	1995.4	2019.5	2029.6	2037.6	2027.6	2037.6
157.5°	1781.8	1854.6	1919.4	1974.9	2000.6	2030.0	2052.5	2065.0	2073.0	2068.6	2073.0
160°	1820.4	1886.8	1945.1	1997.4	2021.5	2047.7	2071.8	2085.9	2094.0	2087.9	2094.0
162.5°	1852.6	1912.5	1967.6	2015.1	2036.0	2059.0	2087.9	2100.4	2108.4	2100.8	2108.4
165°	1898.8	1947.1	1995.4	2035.6	2053.7	2071.8	2102.0	2116.1	2122.1	2114.1	2122.1
167.5°	1933.8	1970.9	2009.9	2044.5	2057.7	2075.4	2105.6	2117.3	2124.9	2114.9	2124.9
170°	1953.2	1985.3	2019.5	2047.7	2057.7	2073.8	2104.0	2114.1	2120.1	2110.0	2120.1
172.5°	1969.2	1993.4	2021.1	2046.1	2051.3	2064.2	2092.7	2102.8	2107.2	2098.8	2107.2
175°	1985.3	1999.4	2019.5	2035.6	2033.6	2041.7	2065.8	2073.8	2081.9	2069.8	2081.9
177.5°	1993.0	1999.4	2005.9	2015.5	2009.1	2009.1	2026.8	2031.6	2033.2	2026.8	2033.2
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2
2.5°	1479.0	1483.8	1490.0	1501.0	1516.9	1527.1	1519.9	1512.7	1519.9	1527.1	1516.9
5°	1383.1	1398.3	1418.2	1448.0	1487.8	1517.8	1518.4	1519.0	1518.4	1517.8	1487.8
7.5°	1291.1	1307.8	1329.8	1364.3	1411.3	1451.6	1471.5	1491.3	1471.5	1451.6	1411.3
10°	1240.6	1255.5	1275.4	1310.7	1361.3	1406.8	1437.0	1467.1	1437.0	1406.8	1361.3
12.5°	1207.9	1218.2	1233.0	1265.7	1316.3	1366.2	1413.8	1461.3	1413.8	1366.2	1316.3
15°	1178.9	1180.0	1183.9	1207.6	1251.2	1301.8	1373.7	1445.5	1373.7	1301.8	1251.2
17.5°	1163.9	1155.7	1147.5	1160.2	1193.8	1238.3	1315.6	1393.0	1315.6	1238.3	1193.8
20°	1154.5	1141.1	1125.7	1132.7	1162.2	1203.4	1279.7	1356.0	1279.7	1203.4	1162.2
22.5°	1138.6	1124.9	1108.0	1110.9	1133.8	1170.2	1247.5	1324.9	1247.5	1170.2	1133.8
25°	1106.0	1095.4	1080.7	1076.5	1082.9	1109.5	1196.7	1283.9	1196.7	1109.5	1082.9
27.5°	1067.5	1060.5	1051.5	1043.2	1035.7	1052.8	1143.8	1234.8	1143.8	1052.8	1035.7
30°	1045.1	1036.3	1027.3	1016.7	1004.5	1018.1	1109.2	1200.2	1109.2	1018.1	1004.5
32.5°	1048.9	1028.2	1006.9	987.1	968.7	978.5	1072.6	1166.8	1072.6	978.5	968.7
35°	1051.5	1009.3	974.1	945.2	922.8	930.5	1028.6	1126.7	1028.6	930.5	922.8
37.5°	989.7	961.9	931.5	901.1	870.7	874.2	979.4	1084.5	979.4	874.2	870.7
40°	965.1	947.3	908.2	870.4	833.8	834.0	944.2	1054.5	944.2	834.0	833.8
42.5°	942.1	923.4	872.5	830.9	798.4	801.7	911.9	1022.2	911.9	801.7	798.4
45°	805.4	809.3	795.8	772.7	740.0	744.2	859.0	973.7	859.0	744.2	740.0
47.5°	676.6	704.7	734.8	732.2	697.0	697.9	807.2	916.6	807.2	697.9	697.0
50°	619.7	659.3	707.3	711.2	670.8	666.3	769.5	872.8	769.5	666.3	670.8
52.5°	572.4	622.7	686.7	694.4	645.8	633.9	732.0	830.1	732.0	633.9	645.8
55°	510.2	576.6	664.4	674.6	607.3	580.4	674.6	768.9	674.6	580.4	607.3
57.5°	455.8	512.1	588.3	599.1	544.4	525.7	614.9	704.0	614.9	525.7	544.4
60°	421.7	462.1	514.7	524.9	492.9	490.5	577.0	663.6	577.0	490.5	492.9
62.5°	380.2	407.9	443.5	455.6	444.0	456.0	538.4	620.9	538.4	456.0	444.0
65°	304.4	326.5	356.0	373.3	378.4	401.0	476.1	551.1	476.1	401.0	378.4
67.5°	246.0	266.7	289.1	306.3	318.2	343.5	408.9	474.3	408.9	343.5	318.2
70°	196.5	217.8	242.8	263.4	279.4	305.8	363.5	421.2	363.5	305.8	279.4
72.5°	160.4	178.6	199.0	219.0	238.6	265.7	315.2	364.7	315.2	265.7	238.6
75°	103.5	117.8	136.4	156.6	178.4	204.7	244.4	284.2	244.4	204.7	178.4
77.5°	77.1	84.1	93.4	107.5	126.2	147.5	176.4	205.4	176.4	147.5	126.2
80°	62.2	62.5	63.2	73.1	92.3	112.2	134.0	155.8	134.0	112.2	92.3
82.5°	49.4	48.7	47.8	53.1	64.6	77.3	93.5	109.6	93.5	77.3	64.6
85°	22.9	25.0	27.6	29.5	30.8	33.7	41.4	49.0	41.4	33.7	30.8
87.5°	14.2	13.8	13.8	14.2	14.5	14.2	12.7	11.6	12.7	13.8	15.3
90°	42.2	40.2	40.2	38.2	32.2	24.1	14.1	6.0	14.1	22.1	36.2
92.5°	50.3	49.9	46.7	43.0	35.4	35.4	35.0	22.1	38.2	54.3	78.0
95°	46.3	46.3	54.3	68.4	100.6	102.6	68.4	62.4	88.5	124.7	156.9
97.5°	125.1	148.8	182.6	189.1	179.0	133.6	127.9	119.1	162.1	197.9	249.8
100°	231.3	261.5	285.6	237.4	187.1	185.1	173.0	169.0	215.2	249.4	299.7
102.5°	361.7	370.9	287.2	259.9	248.2	239.8	221.3	218.8	265.1	312.2	354.4
105°	392.2	352.0	354.0	354.0	346.0	329.9	295.7	293.7	346.0	400.3	452.6
107.5°	461.4	467.5	477.9	475.5	466.3	423.2	383.0	373.7	420.8	486.0	543.5
110°	553.2	559.2	563.2	559.2	545.1	490.8	442.5	428.4	470.7	539.1	601.4



TEST NUMBER: P1427973

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	641.7	646.1	654.9	642.9	619.1	556.8	502.1	481.5	523.8	593.8	657.8
115°	782.5	782.5	784.5	778.4	730.2	665.8	593.4	563.2	599.4	663.8	734.2
117.5°	920.9	923.3	915.2	899.1	843.2	768.4	687.1	638.8	667.4	735.4	807.8
120°	1007.8	1011.8	1003.7	979.6	925.3	840.8	748.3	692.0	714.1	780.5	852.9
122.5°	1097.9	1097.1	1087.4	1060.1	996.1	908.4	817.5	748.3	757.5	819.1	889.9
125°	1223.0	1221.0	1212.9	1180.7	1114.4	1023.8	917.2	832.8	820.7	873.0	945.4
127.5°	1342.1	1337.6	1325.2	1286.1	1218.2	1130.9	1013.8	918.0	891.1	924.1	990.5
130°	1424.1	1418.1	1396.0	1353.7	1287.3	1204.9	1086.2	977.6	939.4	959.5	1017.8
132.5°	1503.0	1485.7	1466.8	1421.3	1359.8	1274.1	1153.8	1040.3	987.6	996.5	1041.9
135°	1603.2	1587.1	1562.9	1518.7	1460.3	1375.9	1255.2	1132.5	1060.1	1052.0	1078.2
137.5°	1691.3	1674.4	1647.0	1608.8	1550.0	1474.8	1359.0	1229.4	1138.1	1111.1	1121.2
140°	1746.0	1725.9	1701.7	1663.5	1611.2	1532.8	1420.1	1295.4	1192.8	1154.6	1148.6
142.5°	1791.0	1775.7	1750.0	1715.0	1669.1	1590.7	1481.3	1358.2	1249.1	1199.6	1185.6
145°	1858.6	1846.5	1818.4	1786.2	1748.0	1669.5	1569.0	1446.3	1337.6	1273.3	1243.1
147.5°	1915.7	1906.1	1884.0	1846.1	1814.0	1738.7	1647.0	1538.4	1426.9	1347.3	1308.3
150°	1951.1	1943.1	1921.0	1884.8	1852.6	1782.2	1693.7	1593.1	1486.5	1402.0	1351.7
152.5°	1984.9	1976.9	1951.5	1915.3	1888.0	1822.4	1741.9	1646.2	1538.0	1453.5	1401.6
155°	2029.6	2019.5	1995.4	1961.2	1937.1	1876.7	1802.3	1717.8	1625.3	1536.8	1478.4
157.5°	2065.0	2052.5	2030.0	2000.6	1974.9	1919.4	1854.6	1781.8	1700.9	1616.4	1556.9
160°	2085.9	2071.8	2047.7	2021.5	1997.4	1945.1	1886.8	1820.4	1746.0	1669.5	1605.2
162.5°	2100.4	2087.9	2059.0	2036.0	2015.1	1967.6	1912.5	1852.6	1786.2	1719.4	1659.9
165°	2116.1	2102.0	2071.8	2053.7	2035.6	1995.4	1947.1	1898.8	1842.5	1788.2	1739.9
167.5°	2117.3	2105.6	2075.4	2057.7	2044.5	2009.9	1970.9	1933.8	1890.0	1847.3	1807.1
170°	2114.1	2104.0	2073.8	2057.7	2047.7	2019.5	1985.3	1953.2	1919.0	1882.7	1850.6
172.5°	2102.8	2092.7	2064.2	2051.3	2046.1	2021.1	1993.4	1969.2	1939.9	1913.3	1887.6
175°	2073.8	2065.8	2041.7	2033.6	2035.6	2019.5	1999.4	1985.3	1967.2	1951.1	1937.1
177.5°	2031.6	2026.8	2009.1	2009.1	2015.5	2005.9	1999.4	1993.0	1984.9	1980.1	1975.3
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2	1516.2
2.5°	1501.0	1490.0	1483.8	1479.0	1477.9	1476.9	1477.9	1479.0	1483.8	1490.0	1501.0
5°	1448.0	1418.2	1398.3	1383.1	1381.8	1380.5	1381.8	1383.1	1398.3	1418.2	1448.0
7.5°	1364.3	1329.8	1307.8	1291.1	1290.1	1289.1	1290.1	1291.1	1307.8	1329.8	1364.3
10°	1310.7	1275.4	1255.5	1240.6	1240.6	1240.6	1240.6	1240.6	1255.5	1275.4	1310.7
12.5°	1265.7	1233.0	1218.2	1207.9	1211.0	1214.1	1211.0	1207.9	1218.2	1233.0	1265.7
15°	1207.6	1183.9	1180.0	1178.9	1186.0	1193.0	1186.0	1178.9	1180.0	1183.9	1207.6
17.5°	1160.2	1147.5	1155.7	1163.9	1172.1	1180.3	1172.1	1163.9	1155.7	1147.5	1160.2
20°	1132.7	1125.7	1141.1	1154.5	1162.2	1169.9	1162.2	1154.5	1141.1	1125.7	1132.7
22.5°	1110.9	1108.0	1124.9	1138.6	1142.7	1146.9	1142.7	1138.6	1124.9	1108.0	1110.9
25°	1076.5	1080.7	1095.4	1106.0	1104.1	1102.1	1104.1	1106.0	1095.4	1080.7	1076.5
27.5°	1043.2	1051.5	1060.5	1067.5	1068.7	1069.8	1068.7	1067.5	1060.5	1051.5	1043.2
30°	1016.7	1027.3	1036.3	1045.1	1053.4	1061.7	1053.4	1045.1	1036.3	1027.3	1016.7
32.5°	987.1	1006.9	1028.2	1048.9	1068.0	1087.1	1068.0	1048.9	1028.2	1006.9	987.1
35°	945.2	974.1	1009.3	1051.5	1114.3	1177.1	1114.3	1051.5	1009.3	974.1	945.2
37.5°	901.1	931.5	961.9	989.7	1009.7	1029.7	1009.7	989.7	961.9	931.5	901.1
40°	870.4	908.2	947.3	965.1	918.9	872.8	918.9	965.1	947.3	908.2	870.4
42.5°	830.9	872.5	923.4	942.1	864.2	786.2	864.2	942.1	923.4	872.5	830.9
45°	772.7	795.8	809.3	805.4	749.7	693.9	749.7	805.4	809.3	795.8	772.7
47.5°	732.2	734.8	704.7	676.6	654.8	633.0	654.8	704.7	734.8	732.2	732.2
50°	711.2	707.3	659.3	619.7	605.6	591.5	605.6	619.7	659.3	707.3	711.2
52.5°	694.4	686.7	622.7	572.4	562.9	553.4	562.9	572.4	622.7	686.7	694.4
55°	674.6	664.4	576.6	510.2	508.3	506.3	508.3	510.2	576.6	664.4	674.6
57.5°	599.1	588.3	512.1	455.8	459.2	462.5	459.2	455.8	512.1	588.3	599.1
60°	524.9	514.7	462.1	421.7	417.9	414.0	417.9	421.7	462.1	514.7	524.9
62.5°	455.6	443.5	407.9	380.2	376.3	372.5	376.3	380.2	407.9	443.5	455.6
65°	373.3	356.0	326.5	304.4	304.4	304.4	304.4	304.4	326.5	356.0	373.3
67.5°	306.3	289.1	266.7	246.0	230.6	215.2	230.6	246.0	266.7	289.1	306.3
70°	263.4	242.8	217.8	196.5	186.3	176.0	186.3	196.5	217.8	242.8	263.4
72.5°	219.0	199.0	178.6	160.4	148.6	136.8	148.6	160.4	178.6	199.0	219.0
75°	156.6	136.4	117.8	103.5	102.3	101.0	102.3	103.5	117.8	136.4	156.6
77.5°	107.5	93.4	84.1	77.1	77.2	77.3	77.2	77.1	84.1	93.4	107.5
80°	73.1	63.2	62.5	62.2	62.8	63.5	62.8	62.2	62.5	63.2	73.1
82.5°	53.1	47.8	48.7	49.4	49.5	49.6	49.5	49.4	48.7	47.8	53.1
85°	29.5	27.6	25.0	22.9	22.3	21.6	22.3	22.9	25.0	27.6	29.5
87.5°	15.8	17.8	20.7	22.3	23.9	23.1	23.9	22.3	20.7	17.8	15.8
90°	46.3	60.3	74.4	82.5	90.5	86.5	90.5	82.5	74.4	60.3	46.3
92.5°	92.9	116.7	134.0	148.4	154.9	154.1	154.9	148.4	134.0	116.7	92.9
95°	187.1	215.2	243.4	263.5	275.6	271.6	275.6	263.5	243.4	215.2	187.1
97.5°	288.4	326.3	357.6	376.5	388.6	396.7	388.6	376.5	357.6	326.3	288.4
100°	356.0	392.2	428.4	450.6	470.7	478.7	470.7	450.6	428.4	392.2	356.0
102.5°	410.7	458.2	497.6	521.4	538.3	546.3	538.3	521.4	497.6	458.2	410.7
105°	500.9	551.1	593.4	623.6	641.7	647.7	641.7	623.6	593.4	551.1	500.9
107.5°	591.0	642.9	681.9	715.3	737.4	750.3	737.4	715.3	681.9	642.9	591.0
110°	661.8	704.0	746.3	776.4	798.6	806.6	798.6	776.4	746.3	704.0	661.8



TEST NUMBER: P1427973

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	721.3	768.4	810.6	840.8	866.1	877.4	866.1	840.8	810.6	768.4	721.3
115°	804.6	866.9	905.2	933.3	951.4	961.5	951.4	933.3	905.2	866.9	804.6
117.5°	873.8	939.0	980.8	1002.5	1011.0	1018.2	1011.0	1002.5	980.8	939.0	873.8
120°	917.2	977.6	1025.9	1054.0	1064.1	1068.1	1064.1	1054.0	1025.9	977.6	917.2
122.5°	957.5	1014.6	1061.3	1095.9	1112.4	1116.4	1112.4	1095.9	1061.3	1014.6	957.5
125°	1013.8	1068.1	1116.4	1150.6	1168.7	1178.7	1168.7	1150.6	1116.4	1068.1	1013.8
127.5°	1062.9	1121.6	1165.9	1196.8	1214.5	1222.6	1214.5	1196.8	1165.9	1121.6	1062.9
130°	1090.2	1150.6	1194.8	1229.0	1245.1	1253.2	1245.1	1229.0	1194.8	1150.6	1090.2
132.5°	1111.1	1174.7	1220.6	1251.5	1269.2	1277.3	1269.2	1251.5	1220.6	1174.7	1111.1
135°	1136.5	1202.9	1251.1	1281.3	1297.4	1305.5	1297.4	1281.3	1251.1	1202.9	1136.5
137.5°	1158.6	1219.0	1269.2	1301.0	1315.5	1320.7	1315.5	1301.0	1269.2	1219.0	1158.6
140°	1174.7	1227.0	1277.3	1307.5	1323.6	1325.6	1323.6	1307.5	1277.3	1227.0	1174.7
142.5°	1195.6	1236.7	1280.5	1310.7	1326.8	1330.4	1326.8	1310.7	1280.5	1236.7	1195.6
145°	1233.0	1257.2	1287.3	1315.5	1329.6	1333.6	1329.6	1315.5	1287.3	1257.2	1233.0
147.5°	1280.1	1287.8	1303.4	1321.9	1335.6	1338.4	1335.6	1321.9	1303.4	1287.8	1280.1
150°	1315.5	1313.5	1319.5	1331.6	1343.7	1341.7	1343.7	1331.6	1319.5	1313.5	1315.5
152.5°	1355.7	1344.1	1343.7	1349.3	1354.9	1354.5	1354.9	1349.3	1343.7	1344.1	1355.7
155°	1424.1	1402.0	1389.9	1385.9	1385.9	1383.9	1385.9	1385.9	1389.9	1402.0	1424.1
157.5°	1499.4	1468.4	1450.3	1440.6	1437.8	1433.4	1437.8	1440.6	1450.3	1468.4	1499.4
160°	1550.9	1516.7	1498.6	1482.5	1476.4	1470.4	1476.4	1482.5	1498.6	1516.7	1550.9
162.5°	1599.1	1566.5	1546.8	1532.3	1526.3	1517.1	1526.3	1532.3	1546.8	1566.5	1599.1
165°	1677.6	1643.4	1621.3	1609.2	1601.1	1593.1	1601.1	1609.2	1621.3	1643.4	1677.6
167.5°	1756.0	1718.6	1704.1	1690.5	1682.8	1668.3	1682.8	1690.5	1704.1	1718.6	1756.0
170°	1804.3	1770.1	1762.1	1750.0	1735.9	1719.8	1735.9	1750.0	1762.1	1770.1	1804.3
172.5°	1846.1	1823.2	1815.2	1803.1	1798.7	1785.8	1798.7	1803.1	1815.2	1823.2	1846.1
175°	1906.9	1888.8	1888.8	1886.8	1880.7	1868.7	1880.7	1886.8	1888.8	1888.8	1906.9
177.5°	1957.6	1947.9	1954.4	1954.4	1952.7	1941.5	1952.7	1954.4	1954.4	1947.9	1957.6
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1516.2	1516.2	1516.2	1516.2
2.5°	1516.9	1527.1	1519.9	1512.7
5°	1487.8	1517.8	1518.4	1519.0
7.5°	1411.3	1451.6	1471.5	1491.3
10°	1361.3	1406.8	1437.0	1467.1
12.5°	1316.3	1366.2	1413.8	1461.3
15°	1251.2	1301.8	1373.7	1445.5
17.5°	1193.8	1238.3	1315.6	1393.0
20°	1162.2	1203.4	1279.7	1356.0
22.5°	1133.8	1170.2	1247.5	1324.9
25°	1082.9	1109.5	1196.7	1283.9
27.5°	1035.7	1052.8	1143.8	1234.8
30°	1004.5	1018.1	1109.2	1200.2
32.5°	968.7	978.5	1072.6	1166.8
35°	922.8	930.5	1028.6	1126.7
37.5°	870.7	874.2	979.4	1084.5
40°	833.8	834.0	944.2	1054.5
42.5°	798.4	801.7	911.9	1022.2
45°	740.0	744.2	859.0	973.7
47.5°	697.0	697.9	807.2	916.6
50°	670.8	666.3	769.5	872.8
52.5°	645.8	633.9	732.0	830.1
55°	607.3	580.4	674.6	768.9
57.5°	544.4	525.7	614.9	704.0
60°	492.9	490.5	577.0	663.6
62.5°	444.0	456.0	538.4	620.9
65°	378.4	401.0	476.1	551.1
67.5°	318.2	343.5	408.9	474.3
70°	279.4	305.8	363.5	421.2
72.5°	238.6	265.7	315.2	364.7
75°	178.4	204.7	244.4	284.2
77.5°	126.2	147.5	176.4	205.4
80°	92.3	112.2	134.0	155.8
82.5°	64.6	77.3	93.5	109.6
85°	30.8	33.7	41.4	49.0
87.5°	15.3	13.8	12.7	11.6
90°	36.2	22.1	14.1	6.0
92.5°	78.0	54.3	38.2	22.1
95°	156.9	124.7	88.5	62.4
97.5°	249.8	197.9	162.1	119.1
100°	299.7	249.4	215.2	169.0
102.5°	354.4	312.2	265.1	218.8
105°	452.6	400.3	346.0	293.7
107.5°	543.5	486.0	420.8	373.7
110°	601.4	539.1	470.7	428.4



TEST NUMBER: P1427973

CATALOG NUMBER: SQ2W-PH1-K-150U-075D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	657.8	593.8	523.8	481.5
115°	734.2	663.8	599.4	563.2
117.5°	807.8	735.4	667.4	638.8
120°	852.9	780.5	714.1	692.0
122.5°	889.9	819.1	757.5	748.3
125°	945.4	873.0	820.7	832.8
127.5°	990.5	924.1	891.1	918.0
130°	1017.8	959.5	939.4	977.6
132.5°	1041.9	996.5	987.6	1040.3
135°	1078.2	1052.0	1060.1	1132.5
137.5°	1121.2	1111.1	1138.1	1229.4
140°	1148.6	1154.6	1192.8	1295.4
142.5°	1185.6	1199.6	1249.1	1358.2
145°	1243.1	1273.3	1337.6	1446.3
147.5°	1308.3	1347.3	1426.9	1538.4
150°	1351.7	1402.0	1486.5	1593.1
152.5°	1401.6	1453.5	1538.0	1646.2
155°	1478.4	1536.8	1625.3	1717.8
157.5°	1556.9	1616.4	1700.9	1781.8
160°	1605.2	1669.5	1746.0	1820.4
162.5°	1659.9	1719.4	1786.2	1852.6
165°	1739.9	1788.2	1842.5	1898.8
167.5°	1807.1	1847.3	1890.0	1933.8
170°	1850.6	1882.7	1919.0	1953.2
172.5°	1887.6	1913.3	1939.9	1969.2
175°	1937.1	1951.1	1967.2	1985.3
177.5°	1975.3	1980.1	1984.9	1993.0
180°	1991.4	1991.4	1991.4	1991.4



TEST NUMBER: P1427973  
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**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	16.60	17.35	17.67	18.41	19.87	15.43	16.18	16.49	17.24	18.69
	3H	18.77	19.43	19.84	20.51	21.98	16.47	17.14	17.54	18.21	19.68
	4H	19.57	20.21	20.66	21.29	22.76	16.71	17.34	17.79	18.42	19.90
	6H	20.03	20.62	21.13	21.70	23.19	16.84	17.43	17.94	18.51	20.00
	8H	20.18	20.74	21.28	21.83	23.32	16.90	17.45	18.00	18.55	20.03
	12H	20.24	20.77	21.34	21.86	23.36	16.91	17.43	18.01	18.52	20.03
4H	2H	17.02	17.66	18.11	18.73	20.21	16.10	16.73	17.19	17.81	19.28
	3H	19.26	19.79	20.36	20.89	22.38	17.32	17.85	18.42	18.95	20.44
	4H	20.13	20.61	21.23	21.71	23.22	17.60	18.09	18.71	19.18	20.69
	6H	20.68	21.10	21.80	22.22	23.72	17.80	18.21	18.91	19.33	20.83
	8H	20.88	21.27	21.99	22.38	23.90	17.88	18.27	19.00	19.38	20.90
	12H	20.96	21.31	22.09	22.43	23.96	17.90	18.25	19.03	19.37	20.90
8H	4H	20.14	20.53	21.26	21.64	23.16	17.82	18.21	18.94	19.32	20.84
	6H	20.77	21.09	21.90	22.24	23.75	18.09	18.41	19.22	19.56	21.07
	8H	21.03	21.31	22.17	22.44	23.98	18.23	18.51	19.37	19.64	21.18
	12H	21.16	21.40	22.30	22.53	24.10	18.29	18.54	19.44	19.67	21.24
12H	4H	20.09	20.44	21.22	21.56	23.09	17.81	18.17	18.94	19.29	20.81
	6H	20.74	21.02	21.88	22.16	23.69	18.12	18.40	19.26	19.53	21.07
	8H	21.01	21.26	22.15	22.38	23.96	18.28	18.52	19.42	19.65	21.22