

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: P1427967

Luminaire Tested: SQ2W-PH1-K-150U-050D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427967  
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-050D-L935-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

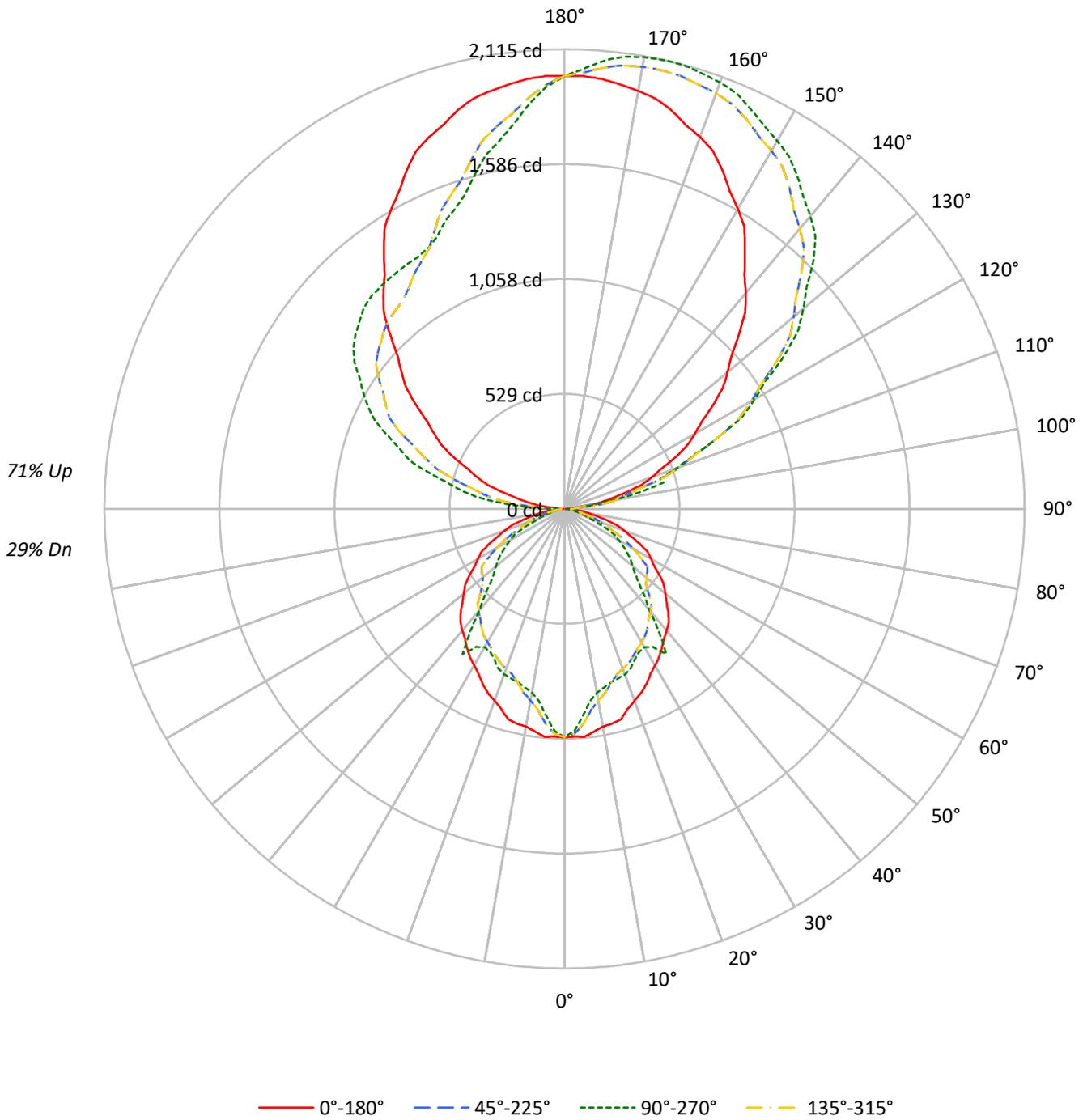
Lumens per Lamp: N/A  
Luminaire Lumens: 8146.5 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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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CATALOG NUMBER: SQ2W-PH1-K-150U-050D-L935-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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	36	28	23	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	10	7

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

	0°	90°	180°	270°
0°	16969	16969	16969	16969
5°	17066	15510	17066	15510
10°	16673	14099	16673	14099
15°	16749	13823	16749	13823
20°	16151	13934	16151	13934
25°	15855	13610	15855	13610
30°	15511	13721	15511	13721
35°	15394	16083	15394	16083
40°	15407	12751	15407	12751
45°	15412	10983	15412	10983
50°	15196	10298	15196	10298
55°	15003	9880	15003	9880
60°	14854	9268	14854	9268
65°	14594	8061	14594	8061
70°	13784	5759	13784	5759
75°	12289	4367	12289	4367
80°	10042	4091	10042	4091
85°	6298	2779	6298	2779

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15412 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.1
10°-20°	243.3	3.0
20°-30°	356.6	4.4
30°-40°	431.8	5.3
40°-50°	424.7	5.2
50°-60°	369.4	4.5
60°-70°	256.9	3.2
70°-80°	121.8	1.5
80°-90°	35.1	0.4
90°-100°	158.5	1.9
100°-110°	462.2	5.7
110°-120°	754.2	9.3
120°-130°	957.1	11.7
130°-140°	1024.1	12.6
140°-150°	956.3	11.7
150°-160°	786.9	9.7
160°-170°	527.7	6.5
170°-180°	187.4	2.3
0°-30°	692.4	8.5
0°-40°	1124.2	13.8
0°-60°	1918.3	23.5
0°-90°	2332.1	28.6
90°-120°	1374.9	16.9
90°-150°	4312.4	52.9
90°-180°	5814.0	71.4
0°-180°	8146.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1051	1051	1051	1051	1051	
5°	1053	957	1053	957	1053	99
15°	1002	827	1002	827	1002	279
25°	890	764	890	764	890	409
35°	781	816	781	816	781	489
45°	675	481	675	481	675	519
55°	533	351	533	351	533	476
65°	382	211	382	211	382	375
75°	197	70	197	70	197	209
85°	34	15	34	15	34	46
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°	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1048.6	1053.6	1058.6	1051.5	1040.5	1032.9	1028.6	1025.2	1024.5	1023.8	1024.5
5°	1053.0	1052.6	1052.1	1031.3	1003.8	983.1	969.3	958.8	957.9	957.0	957.9
7.5°	1033.8	1020.0	1006.3	978.3	945.7	921.8	906.6	895.0	894.3	893.6	894.3
10°	1017.0	996.1	975.2	943.7	908.6	884.1	870.3	860.0	860.0	860.0	860.0
12.5°	1013.0	980.0	947.1	912.5	877.4	854.7	844.5	837.3	839.5	841.6	839.5
15°	1002.0	952.2	902.5	867.3	837.1	820.7	818.0	817.2	822.1	827.0	822.1
17.5°	965.6	912.0	858.4	827.5	804.3	795.5	801.1	806.8	812.5	818.2	812.5
20°	940.0	887.1	834.2	805.7	785.2	780.3	791.0	800.3	805.7	811.0	805.7
22.5°	918.4	864.8	811.2	785.9	770.1	768.1	779.8	789.3	792.2	795.0	792.2
25°	890.0	829.6	769.1	750.7	746.2	749.1	759.3	766.7	765.3	764.0	765.3
27.5°	856.0	792.9	729.8	717.9	723.2	728.9	735.1	740.0	740.8	741.6	740.8
30°	832.0	768.9	705.8	696.3	704.8	712.1	718.3	724.5	730.2	736.0	730.2
32.5°	808.8	743.6	678.3	671.5	684.2	698.0	712.7	727.1	740.4	753.6	740.4
35°	781.0	713.0	645.0	639.7	655.2	675.2	699.7	728.9	772.5	816.0	772.5
37.5°	751.8	678.9	606.0	603.6	624.7	645.7	666.8	686.1	699.9	713.8	699.9
40°	731.0	654.6	578.1	578.0	603.3	629.6	656.7	669.0	637.0	605.0	637.0
42.5°	708.6	632.2	555.7	553.5	576.0	604.8	640.1	653.1	599.0	545.0	599.0
45°	675.0	595.4	515.9	513.0	535.7	551.7	561.0	558.3	519.7	481.0	519.7
47.5°	635.4	559.6	483.8	483.1	507.6	509.4	488.5	469.0	453.9	438.8	453.9
50°	605.0	533.4	461.9	465.0	493.0	490.3	457.0	429.6	419.8	410.0	419.8
52.5°	575.4	507.4	439.4	447.7	481.4	476.0	431.7	396.8	390.2	383.6	390.2
55°	533.0	467.7	402.3	421.0	467.7	460.6	399.7	353.7	352.3	351.0	352.3
57.5°	488.0	426.2	364.4	377.4	415.3	407.8	355.0	316.0	318.3	320.6	318.3
60°	460.0	400.0	340.0	341.7	363.9	356.8	320.3	292.3	289.7	287.0	289.7
62.5°	430.4	373.2	316.1	307.8	315.8	307.4	282.7	263.5	260.9	258.2	260.9
65°	382.0	330.0	278.0	262.3	258.8	246.8	226.3	211.0	211.0	211.0	211.0
67.5°	328.8	283.5	238.1	220.6	212.3	200.4	184.9	170.5	159.9	149.2	159.9
70°	292.0	252.0	212.0	193.7	182.6	168.3	151.0	136.2	129.1	122.0	129.1
72.5°	252.8	218.5	184.2	165.4	151.8	137.9	123.8	111.2	103.0	94.8	103.0
75°	197.0	169.4	141.9	123.7	108.6	94.6	81.7	71.8	70.9	70.0	70.9
77.5°	142.4	122.3	102.2	87.5	74.5	64.8	58.3	53.4	53.5	53.6	53.5
80°	108.0	92.9	77.8	64.0	50.7	43.8	43.3	43.1	43.6	44.0	43.6
82.5°	76.0	64.8	53.6	44.8	36.8	33.1	33.7	34.2	34.3	34.4	34.3
85°	34.0	28.7	23.3	21.3	20.4	19.1	17.3	15.9	15.4	15.0	15.4
87.5°	8.4	9.7	11.3	12.0	12.2	12.0	12.0	12.4	12.9	12.9	12.9
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°	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1025.2	1028.6	1032.9	1040.5	1051.5	1058.6	1053.6	1048.6	1053.6	1058.6	1051.5
5°	958.8	969.3	983.1	1003.8	1031.3	1052.1	1052.6	1053.0	1052.6	1052.1	1031.3
7.5°	895.0	906.6	921.8	945.7	978.3	1006.3	1020.0	1033.8	1020.0	1006.3	978.3
10°	860.0	870.3	884.1	908.6	943.7	975.2	996.1	1017.0	996.1	975.2	943.7
12.5°	837.3	844.5	854.7	877.4	912.5	947.1	980.0	1013.0	980.0	947.1	912.5
15°	817.2	818.0	820.7	837.1	867.3	902.5	952.2	1002.0	952.2	902.5	867.3
17.5°	806.8	801.1	795.5	804.3	827.5	858.4	912.0	965.6	912.0	858.4	827.5
20°	800.3	791.0	780.3	785.2	805.7	834.2	887.1	940.0	887.1	834.2	805.7
22.5°	789.3	779.8	768.1	770.1	785.9	811.2	864.8	918.4	864.8	811.2	785.9
25°	766.7	759.3	749.1	746.2	750.7	769.1	829.6	890.0	829.6	769.1	750.7
27.5°	740.0	735.1	728.9	723.2	717.9	729.8	792.9	856.0	792.9	729.8	717.9
30°	724.5	718.3	712.1	704.8	696.3	705.8	768.9	832.0	768.9	705.8	696.3
32.5°	727.1	712.7	698.0	684.2	671.5	678.3	743.6	808.8	743.6	678.3	671.5
35°	728.9	699.7	675.2	655.2	639.7	645.0	713.0	781.0	713.0	645.0	639.7
37.5°	686.1	666.8	645.7	624.7	603.6	606.0	678.9	751.8	678.9	606.0	603.6
40°	669.0	656.7	629.6	603.3	578.0	578.1	654.6	731.0	654.6	578.1	578.0
42.5°	653.1	640.1	604.8	576.0	553.5	555.7	632.2	708.6	632.2	555.7	553.5
45°	558.3	561.0	551.7	535.7	513.0	515.9	595.4	675.0	595.4	515.9	513.0
47.5°	469.0	488.5	509.4	507.6	483.1	483.8	559.6	635.4	559.6	483.8	483.1
50°	429.6	457.0	490.3	493.0	465.0	461.9	533.4	605.0	533.4	461.9	465.0
52.5°	396.8	431.7	476.0	481.4	447.7	439.4	507.4	575.4	507.4	439.4	447.7
55°	353.7	399.7	460.6	467.7	421.0	402.3	467.7	533.0	467.7	402.3	421.0
57.5°	316.0	355.0	407.8	415.3	377.4	364.4	426.2	488.0	426.2	364.4	377.4
60°	292.3	320.3	356.8	363.9	341.7	340.0	400.0	460.0	400.0	340.0	341.7
62.5°	263.5	282.7	307.4	315.8	307.8	316.1	373.2	430.4	373.2	316.1	307.8
65°	211.0	226.3	246.8	258.8	262.3	278.0	330.0	382.0	330.0	278.0	262.3
67.5°	170.5	184.9	200.4	212.3	220.6	238.1	283.5	328.8	283.5	238.1	220.6
70°	136.2	151.0	168.3	182.6	193.7	212.0	252.0	292.0	252.0	212.0	193.7
72.5°	111.2	123.8	137.9	151.8	165.4	184.2	218.5	252.8	218.5	184.2	165.4
75°	71.8	81.7	94.6	108.6	123.7	141.9	169.4	197.0	169.4	141.9	123.7
77.5°	53.4	58.3	64.8	74.5	87.5	102.2	122.3	142.4	122.3	102.2	87.5
80°	43.1	43.3	43.8	50.7	64.0	77.8	92.9	108.0	92.9	77.8	64.0
82.5°	34.2	33.7	33.1	36.8	44.8	53.6	64.8	76.0	64.8	53.6	44.8
85°	15.9	17.3	19.1	20.4	21.3	23.3	28.7	34.0	28.7	23.3	21.3
87.5°	12.4	12.0	12.0	12.2	12.0	11.3	9.7	8.4	9.7	10.9	12.8
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: P1427967

CATALOG NUMBER: SQ2W-PH1-K-150U-050D-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



TEST NUMBER: P1427967

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1040.5	1032.9	1028.6	1025.2	1024.5	1023.8	1024.5	1025.2	1028.6	1032.9	1040.5
5°	1003.8	983.1	969.3	958.8	957.9	957.0	957.9	958.8	969.3	983.1	1003.8
7.5°	945.7	921.8	906.6	895.0	894.3	893.6	894.3	895.0	906.6	921.8	945.7
10°	908.6	884.1	870.3	860.0	860.0	860.0	860.0	860.0	870.3	884.1	908.6
12.5°	877.4	854.7	844.5	837.3	839.5	841.6	839.5	837.3	844.5	854.7	877.4
15°	837.1	820.7	818.0	817.2	822.1	827.0	822.1	817.2	818.0	820.7	837.1
17.5°	804.3	795.5	801.1	806.8	812.5	818.2	812.5	806.8	801.1	795.5	804.3
20°	785.2	780.3	791.0	800.3	805.7	811.0	805.7	800.3	791.0	780.3	785.2
22.5°	770.1	768.1	779.8	789.3	792.2	795.0	792.2	789.3	779.8	768.1	770.1
25°	746.2	749.1	759.3	766.7	765.3	764.0	765.3	766.7	759.3	749.1	746.2
27.5°	723.2	728.9	735.1	740.0	740.8	741.6	740.8	740.0	735.1	728.9	723.2
30°	704.8	712.1	718.3	724.5	730.2	736.0	730.2	724.5	718.3	712.1	704.8
32.5°	684.2	698.0	712.7	727.1	740.4	753.6	740.4	727.1	712.7	698.0	684.2
35°	655.2	675.2	699.7	728.9	772.5	816.0	772.5	728.9	699.7	675.2	655.2
37.5°	624.7	645.7	666.8	686.1	699.9	713.8	699.9	686.1	666.8	645.7	624.7
40°	603.3	629.6	656.7	669.0	637.0	605.0	637.0	669.0	656.7	629.6	603.3
42.5°	576.0	604.8	640.1	653.1	599.0	545.0	599.0	653.1	640.1	604.8	576.0
45°	535.7	551.7	561.0	558.3	519.7	481.0	519.7	558.3	561.0	551.7	535.7
47.5°	507.6	509.4	488.5	469.0	453.9	438.8	453.9	469.0	488.5	509.4	507.6
50°	493.0	490.3	457.0	429.6	419.8	410.0	419.8	429.6	457.0	490.3	493.0
52.5°	481.4	476.0	431.7	396.8	390.2	383.6	390.2	396.8	431.7	476.0	481.4
55°	467.7	460.6	399.7	353.7	352.3	351.0	352.3	353.7	399.7	460.6	467.7
57.5°	415.3	407.8	355.0	316.0	318.3	320.6	318.3	316.0	355.0	407.8	415.3
60°	363.9	356.8	320.3	292.3	289.7	287.0	289.7	292.3	320.3	356.8	363.9
62.5°	315.8	307.4	282.7	263.5	260.9	258.2	260.9	263.5	282.7	307.4	315.8
65°	258.8	246.8	226.3	211.0	211.0	211.0	211.0	211.0	226.3	246.8	258.8
67.5°	212.3	200.4	184.9	170.5	159.9	149.2	159.9	170.5	184.9	200.4	212.3
70°	182.6	168.3	151.0	136.2	129.1	122.0	129.1	136.2	151.0	168.3	182.6
72.5°	151.8	137.9	123.8	111.2	103.0	94.8	103.0	111.2	123.8	137.9	151.8
75°	108.6	94.6	81.7	71.8	70.9	70.0	70.9	71.8	81.7	94.6	108.6
77.5°	74.5	64.8	58.3	53.4	53.5	53.6	53.5	53.4	58.3	64.8	74.5
80°	50.7	43.8	43.3	43.1	43.6	44.0	43.6	43.1	43.3	43.8	50.7
82.5°	36.8	33.1	33.7	34.2	34.3	34.4	34.3	34.2	33.7	33.1	36.8
85°	20.4	19.1	17.3	15.9	15.4	15.0	15.4	15.9	17.3	19.1	20.4
87.5°	13.8	16.1	18.9	20.5	22.1	21.3	22.1	20.5	18.9	16.1	13.8
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: P1427967

CATALOG NUMBER: SQ2W-PH1-K-150U-050D-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



TEST NUMBER: P1427967

CATALOG NUMBER: SQ2W-PH1-K-150U-050D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1051.0	1051.0	1051.0	1051.0
2.5°	1051.5	1058.6	1053.6	1048.6
5°	1031.3	1052.1	1052.6	1053.0
7.5°	978.3	1006.3	1020.0	1033.8
10°	943.7	975.2	996.1	1017.0
12.5°	912.5	947.1	980.0	1013.0
15°	867.3	902.5	952.2	1002.0
17.5°	827.5	858.4	912.0	965.6
20°	805.7	834.2	887.1	940.0
22.5°	785.9	811.2	864.8	918.4
25°	750.7	769.1	829.6	890.0
27.5°	717.9	729.8	792.9	856.0
30°	696.3	705.8	768.9	832.0
32.5°	671.5	678.3	743.6	808.8
35°	639.7	645.0	713.0	781.0
37.5°	603.6	606.0	678.9	751.8
40°	578.0	578.1	654.6	731.0
42.5°	553.5	555.7	632.2	708.6
45°	513.0	515.9	595.4	675.0
47.5°	483.1	483.8	559.6	635.4
50°	465.0	461.9	533.4	605.0
52.5°	447.7	439.4	507.4	575.4
55°	421.0	402.3	467.7	533.0
57.5°	377.4	364.4	426.2	488.0
60°	341.7	340.0	400.0	460.0
62.5°	307.8	316.1	373.2	430.4
65°	262.3	278.0	330.0	382.0
67.5°	220.6	238.1	283.5	328.8
70°	193.7	212.0	252.0	292.0
72.5°	165.4	184.2	218.5	252.8
75°	123.7	141.9	169.4	197.0
77.5°	87.5	102.2	122.3	142.4
80°	64.0	77.8	92.9	108.0
82.5°	44.8	53.6	64.8	76.0
85°	21.3	23.3	28.7	34.0
87.5°	12.8	10.9	9.7	8.4
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: P1427967

CATALOG NUMBER: SQ2W-PH1-K-150U-050D-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: P1427967  
 CATALOG NUMBER: SQ2W-PH1-K-150U-050D-L935-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	14.30	14.99	15.42	16.11	17.65	13.13	13.82	14.25	14.94	16.48
	3H	16.46	17.08	17.59	18.20	19.77	14.16	14.78	15.29	15.91	17.47
	4H	17.26	17.85	18.41	18.98	20.55	14.40	14.99	15.54	16.11	17.68
	6H	17.72	18.27	18.87	19.39	20.97	14.53	15.08	15.68	16.20	17.78
	8H	17.87	18.39	19.02	19.53	21.10	14.59	15.10	15.74	16.24	17.82
	12H	17.92	18.41	19.08	19.55	21.14	14.59	15.08	15.75	16.22	17.81
4H	2H	14.71	15.30	15.86	16.43	17.99	13.79	14.38	14.94	15.50	17.07
	3H	16.95	17.44	18.10	18.59	20.17	15.00	15.49	16.16	16.64	18.23
	4H	17.81	18.27	18.97	19.40	21.00	15.29	15.74	16.44	16.88	18.48
	6H	18.36	18.75	19.53	19.91	21.50	15.48	15.86	16.64	17.02	18.62
	8H	18.56	18.92	19.72	20.08	21.68	15.56	15.92	16.72	17.08	18.68
	12H	18.64	18.97	19.82	20.13	21.74	15.58	15.91	16.76	17.07	18.68
8H	4H	17.82	18.18	18.98	19.34	20.94	15.50	15.86	16.66	17.02	18.62
	6H	18.45	18.74	19.63	19.94	21.54	15.76	16.06	16.95	17.26	18.86
	8H	18.71	18.97	19.89	20.14	21.76	15.91	16.17	17.10	17.34	18.97
	12H	18.83	19.06	20.02	20.23	21.89	15.97	16.19	17.16	17.36	19.02
12H	4H	17.77	18.09	18.94	19.26	20.87	15.49	15.82	16.67	16.98	18.60
	6H	18.42	18.68	19.61	19.85	21.48	15.80	16.06	16.98	17.23	18.86
	8H	18.68	18.91	19.87	20.08	21.74	15.95	16.18	17.14	17.35	19.01