

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: P1428476

Luminaire Tested: SQ2W-PW1-K-150U-075D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428476  
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-150U-075D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

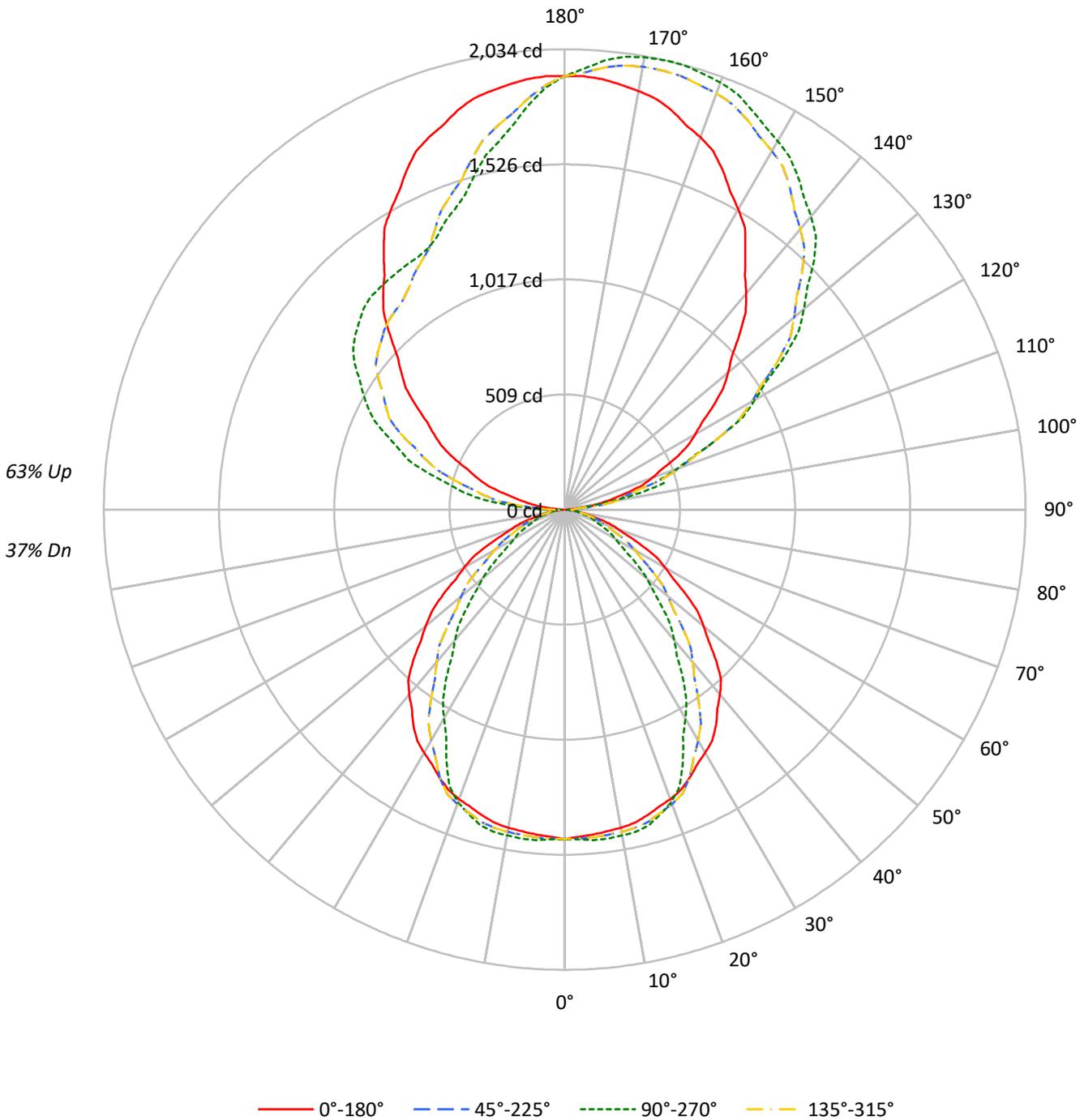
Lumens per Lamp: N/A  
Luminaire Lumens: 8832.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 81.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ2W-PW1-K-150U-075D-L930-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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	25	21
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	23	22	18
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

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

	0°	90°	180°	270°
0°	23521	23521	23521	23521
5°	23364	23770	23364	23770
10°	23407	23975	23407	23975
15°	23401	24120	23401	24120
20°	23410	23649	23410	23649
25°	23284	21974	23284	21974
30°	23125	19866	23125	19866
35°	22945	17940	22945	17940
40°	22489	15850	22489	15850
45°	21607	13844	21607	13844
50°	20109	11848	20109	11848
55°	18395	9607	18395	9607
60°	16488	8289	16488	8289
65°	14418	7369	14418	7369
70°	11787	6680	11787	6680
75°	9176	6145	9176	6145
80°	6834	5421	6834	5421
85°	4631	3075	4631	3075

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21607 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	1.6
10°-20°	402.0	4.6
20°-30°	591.5	6.7
30°-40°	646.7	7.3
40°-50°	580.2	6.6
50°-60°	432.8	4.9
60°-70°	273.5	3.1
70°-80°	135.5	1.5
80°-90°	39.6	0.4
90°-100°	152.4	1.7
100°-110°	444.5	5.0
110°-120°	725.4	8.2
120°-130°	920.5	10.4
130°-140°	985.0	11.2
140°-150°	919.8	10.4
150°-160°	756.8	8.6
160°-170°	507.6	5.7
170°-180°	180.2	2.0
0°-30°	1132.2	12.8
0°-40°	1778.9	20.1
0°-60°	2791.9	31.6
0°-90°	3240.6	36.7
90°-120°	1322.4	15.0
90°-150°	4147.7	47.0
90°-180°	5592.0	63.3
0°-180°	8832.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1457	1457	1457	1457	1457	
5°	1442	1467	1442	1467	1442	137
15°	1400	1443	1400	1443	1400	395
25°	1307	1234	1307	1234	1307	602
35°	1164	910	1164	910	1164	726
45°	946	606	946	606	946	726
55°	654	341	654	341	654	584
65°	377	193	377	193	377	374
75°	147	98	147	98	147	162
85°	25	17	25	17	25	32
90°	6	43	6	83	6	6
95°	60	44	60	261	60	72
105°	282	453	282	623	282	300
115°	542	751	542	925	542	534
125°	801	1190	801	1134	801	717
135°	1089	1557	1089	1256	1089	842
145°	1391	1795	1391	1283	1391	870
155°	1652	1950	1652	1331	1652	759
165°	1826	2033	1826	1532	1826	514
175°	1910	1991	1910	1797	1910	181
180°	1915	1915	1915	1915	1915	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8
2.5°	1446.9	1455.2	1463.6	1461.7	1456.2	1453.8	1454.3	1455.0	1456.5	1458.0	1456.5
5°	1441.6	1452.1	1462.6	1461.0	1455.5	1453.0	1453.6	1455.5	1461.0	1466.6	1461.0
7.5°	1434.4	1445.0	1455.6	1455.1	1450.9	1449.8	1451.9	1454.9	1460.3	1465.7	1460.3
10°	1427.7	1438.8	1449.9	1449.9	1446.2	1445.9	1449.0	1452.5	1457.5	1462.4	1457.5
12.5°	1418.8	1430.4	1442.0	1442.9	1440.2	1440.6	1444.2	1448.1	1453.0	1458.0	1453.0
15°	1400.0	1412.3	1424.6	1427.2	1426.6	1428.5	1432.8	1436.8	1439.9	1443.0	1439.9
17.5°	1378.0	1390.4	1402.7	1405.1	1404.3	1404.4	1405.5	1406.7	1408.2	1409.7	1408.2
20°	1362.5	1374.8	1387.2	1388.9	1387.0	1383.9	1379.6	1376.4	1376.4	1376.4	1376.4
22.5°	1340.3	1353.6	1366.9	1367.0	1362.7	1354.7	1343.0	1333.2	1329.3	1325.3	1329.3
25°	1307.0	1320.0	1332.9	1326.9	1314.6	1296.4	1272.3	1252.0	1242.7	1233.5	1242.7
27.5°	1268.2	1278.6	1289.1	1273.4	1249.0	1219.7	1185.6	1156.7	1143.9	1131.1	1143.9
30°	1240.4	1248.4	1256.4	1231.6	1195.8	1159.2	1121.5	1090.2	1077.9	1065.6	1077.9
32.5°	1211.5	1214.6	1217.7	1185.0	1140.3	1098.5	1059.4	1026.7	1013.4	1000.1	1013.4
35°	1164.1	1158.5	1153.0	1109.5	1053.4	1005.6	966.1	933.6	921.9	910.2	921.9
37.5°	1108.0	1091.5	1075.0	1026.0	966.2	915.6	874.3	840.1	827.1	814.2	827.1
40°	1067.0	1043.5	1020.1	967.5	905.2	853.5	812.1	777.9	765.0	752.0	765.0
42.5°	1021.5	992.1	962.8	908.7	846.4	794.6	753.3	719.0	705.5	692.1	705.5
45°	946.3	911.7	877.2	820.9	757.4	705.6	665.5	632.2	619.3	606.3	619.3
47.5°	861.6	827.3	793.0	736.9	673.5	622.4	583.6	551.7	540.6	529.5	540.6
50°	800.6	767.3	734.0	680.3	619.9	570.3	531.4	498.9	485.3	471.7	485.3
52.5°	738.4	708.6	678.7	627.0	568.1	518.7	478.9	444.4	425.9	407.4	425.9
55°	653.5	625.1	596.8	548.1	492.6	442.6	398.2	362.3	351.8	341.3	351.8
57.5°	566.1	541.5	517.0	473.2	423.0	377.8	337.4	305.0	296.4	287.8	296.4
60°	510.6	489.0	467.4	425.5	376.8	335.5	301.5	273.9	265.3	256.7	265.3
62.5°	457.3	438.2	419.1	378.9	331.6	294.5	267.5	245.5	238.3	231.2	238.3
65°	377.4	363.2	349.0	315.9	276.4	245.6	223.4	205.2	199.0	192.9	199.0
67.5°	299.7	291.8	283.9	259.1	228.6	203.7	184.2	168.5	164.5	160.4	164.5
70°	249.7	247.3	244.8	224.3	197.8	176.5	160.5	147.7	144.6	141.5	144.6
72.5°	206.5	207.4	208.4	191.4	168.3	150.5	137.9	128.0	125.9	123.8	125.9
75°	147.1	152.0	156.9	145.7	129.0	116.4	107.8	101.0	99.7	98.5	99.7
77.5°	100.2	107.6	115.0	107.7	95.5	86.1	79.7	74.7	73.7	72.7	73.7
80°	73.5	80.9	88.3	83.2	74.0	66.9	62.0	58.3	58.3	58.3	58.3
82.5°	51.3	57.3	63.2	59.6	52.8	48.2	45.7	43.8	43.8	43.8	43.8
85°	25.0	28.1	31.1	30.1	27.6	24.5	20.8	17.9	17.3	16.6	17.3
87.5°	7.8	10.8	14.3	14.3	13.0	11.9	11.4	11.5	11.8	11.8	11.8
90°	5.8	13.5	23.2	31.0	36.8	38.7	38.7	40.6	42.6	42.6	42.6
92.5°	21.3	33.7	34.0	34.0	41.4	44.9	48.0	48.4	50.3	50.3	50.3
95°	60.0	65.8	98.7	96.7	65.8	52.2	44.5	44.5	44.5	44.5	44.5
97.5°	114.5	123.0	128.5	172.2	181.9	175.7	143.2	120.3	107.6	101.8	107.6
100°	162.5	166.4	178.0	179.9	228.3	274.7	251.5	222.5	212.8	207.0	212.8
102.5°	210.5	212.8	230.6	238.7	250.0	276.3	356.7	347.8	341.3	340.1	341.3
105°	282.5	284.4	317.3	332.8	340.5	340.5	338.6	377.3	439.2	452.7	439.2
107.5°	359.5	368.4	407.0	448.4	457.3	459.7	449.6	443.8	441.5	443.0	441.5
110°	412.1	425.6	472.1	524.3	537.8	541.7	537.8	532.0	528.2	528.2	528.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	463.2	482.9	535.5	595.5	618.3	629.9	621.4	617.2	613.3	616.4	613.3
115°	541.7	570.7	640.4	702.3	748.7	754.5	752.6	752.6	750.6	750.6	750.6
117.5°	614.4	660.9	739.0	811.0	864.8	880.3	888.0	885.7	883.4	887.2	883.4
120°	665.5	719.7	808.7	889.9	942.2	965.4	973.1	969.3	973.1	969.3	973.1
122.5°	719.7	786.2	873.7	958.0	1019.6	1045.9	1055.2	1055.9	1056.7	1054.4	1056.7
125°	800.9	882.2	984.7	1071.8	1135.6	1166.6	1174.3	1176.3	1180.1	1189.8	1180.1
127.5°	883.0	975.1	1087.7	1171.6	1237.0	1274.5	1286.5	1290.8	1298.9	1303.2	1298.9
130°	940.2	1044.7	1158.8	1238.2	1302.0	1342.6	1363.9	1369.7	1379.4	1377.5	1379.4
132.5°	1000.6	1109.7	1225.4	1307.8	1367.0	1410.7	1428.9	1445.6	1449.0	1451.8	1449.0
135°	1089.2	1207.2	1323.3	1404.5	1460.7	1503.2	1526.4	1541.9	1551.6	1557.4	1551.6
137.5°	1182.5	1307.0	1418.5	1490.8	1547.3	1584.1	1610.4	1626.6	1636.7	1641.3	1636.7
140°	1245.9	1365.9	1474.2	1549.6	1599.9	1636.7	1659.9	1679.3	1690.9	1690.9	1690.9
142.5°	1306.3	1424.7	1529.9	1605.4	1649.5	1683.1	1707.9	1722.6	1735.8	1735.8	1735.8
145°	1391.0	1509.0	1605.8	1681.2	1718.0	1748.9	1776.0	1787.6	1795.3	1795.3	1795.3
147.5°	1479.6	1584.1	1672.3	1744.7	1775.6	1812.0	1833.3	1842.6	1852.2	1848.0	1852.2
150°	1532.2	1629.0	1714.1	1781.8	1812.8	1847.6	1868.9	1876.6	1886.3	1880.5	1886.3
152.5°	1583.3	1675.4	1752.8	1815.9	1842.2	1877.0	1901.4	1909.1	1915.7	1911.4	1915.7
155°	1652.2	1733.4	1805.0	1863.1	1886.3	1919.2	1942.4	1952.1	1959.8	1950.1	1959.8
157.5°	1713.7	1783.7	1846.0	1899.4	1924.2	1952.4	1974.1	1986.1	1993.8	1989.6	1993.8
160°	1750.8	1814.7	1870.8	1921.1	1944.3	1969.5	1992.7	2006.2	2014.0	2008.2	2014.0
162.5°	1781.8	1839.5	1892.5	1938.1	1958.2	1980.3	2008.2	2020.2	2027.9	2020.5	2027.9
165°	1826.3	1872.7	1919.2	1957.9	1975.3	1992.7	2021.7	2035.2	2041.0	2033.3	2041.0
167.5°	1860.0	1895.6	1933.1	1966.4	1979.1	1996.2	2025.2	2036.4	2043.8	2034.1	2043.8
170°	1878.5	1909.5	1942.4	1969.5	1979.1	1994.6	2023.6	2033.3	2039.1	2029.4	2039.1
172.5°	1894.0	1917.2	1943.9	1967.9	1972.9	1985.3	2012.8	2022.5	2026.7	2018.6	2026.7
175°	1909.5	1923.0	1942.4	1957.9	1955.9	1963.7	1986.9	1994.6	2002.4	1990.7	2002.4
177.5°	1916.8	1923.0	1929.2	1938.5	1932.3	1932.3	1949.3	1954.0	1955.5	1949.3	1955.5
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8
2.5°	1455.0	1454.3	1453.8	1456.2	1461.7	1463.6	1455.2	1446.9	1455.2	1463.6	1461.7
5°	1455.5	1453.6	1453.0	1455.5	1461.0	1462.6	1452.1	1441.6	1452.1	1462.6	1461.0
7.5°	1454.9	1451.9	1449.8	1450.9	1455.1	1455.6	1445.0	1434.4	1445.0	1455.6	1455.1
10°	1452.5	1449.0	1445.9	1446.2	1449.9	1449.9	1438.8	1427.7	1438.8	1449.9	1449.9
12.5°	1448.1	1444.2	1440.6	1440.2	1442.9	1442.0	1430.4	1418.8	1430.4	1442.0	1442.9
15°	1436.8	1432.8	1428.5	1426.6	1427.2	1424.6	1412.3	1400.0	1412.3	1424.6	1427.2
17.5°	1406.7	1405.5	1404.4	1404.3	1405.1	1402.7	1390.4	1378.0	1390.4	1402.7	1405.1
20°	1376.4	1379.6	1383.9	1387.0	1388.9	1387.2	1374.8	1362.5	1374.8	1387.2	1388.9
22.5°	1333.2	1343.0	1354.7	1362.7	1367.0	1366.9	1353.6	1340.3	1353.6	1366.9	1367.0
25°	1252.0	1272.3	1296.4	1314.6	1326.9	1332.9	1320.0	1307.0	1320.0	1332.9	1326.9
27.5°	1156.7	1185.6	1219.7	1249.0	1273.4	1289.1	1278.6	1268.2	1278.6	1289.1	1273.4
30°	1090.2	1121.5	1159.2	1195.8	1231.6	1256.4	1248.4	1240.4	1248.4	1256.4	1231.6
32.5°	1026.7	1059.4	1098.5	1140.3	1185.0	1217.7	1214.6	1211.5	1214.6	1217.7	1185.0
35°	933.6	966.1	1005.6	1053.4	1109.5	1153.0	1158.5	1164.1	1158.5	1153.0	1109.5
37.5°	840.1	874.3	915.6	966.2	1026.0	1075.0	1091.5	1108.0	1091.5	1075.0	1026.0
40°	777.9	812.1	853.5	905.2	967.5	1020.1	1043.5	1067.0	1043.5	1020.1	967.5
42.5°	719.0	753.3	794.6	846.4	908.7	962.8	992.1	1021.5	992.1	962.8	908.7
45°	632.2	665.5	705.6	757.4	820.9	877.2	911.7	946.3	911.7	877.2	820.9
47.5°	551.7	583.6	622.4	673.5	736.9	793.0	827.3	861.6	827.3	793.0	736.9
50°	498.9	531.4	570.3	619.9	680.3	734.0	767.3	800.6	767.3	734.0	680.3
52.5°	444.4	478.9	518.7	568.1	627.0	678.7	708.6	738.4	708.6	678.7	627.0
55°	362.3	398.2	442.6	492.6	548.1	596.8	625.1	653.5	625.1	596.8	548.1
57.5°	305.0	337.4	377.8	423.0	473.2	517.0	541.5	566.1	541.5	517.0	473.2
60°	273.9	301.5	335.5	376.8	425.5	467.4	489.0	510.6	489.0	467.4	425.5
62.5°	245.5	267.5	294.5	331.6	378.9	419.1	438.2	457.3	438.2	419.1	378.9
65°	205.2	223.4	245.6	276.4	315.9	349.0	363.2	377.4	363.2	349.0	315.9
67.5°	168.5	184.2	203.7	228.6	259.1	283.9	291.8	299.7	291.8	283.9	259.1
70°	147.7	160.5	176.5	197.8	224.3	244.8	247.3	249.7	247.3	244.8	224.3
72.5°	128.0	137.9	150.5	168.3	191.4	208.4	207.4	206.5	207.4	208.4	191.4
75°	101.0	107.8	116.4	129.0	145.7	156.9	152.0	147.1	152.0	156.9	145.7
77.5°	74.7	79.7	86.1	95.5	107.7	115.0	107.6	100.2	107.6	115.0	107.7
80°	58.3	62.0	66.9	74.0	83.2	88.3	80.9	73.5	80.9	88.3	83.2
82.5°	43.8	45.7	48.2	52.8	59.6	63.2	57.3	51.3	57.3	63.2	59.6
85°	17.9	20.8	24.5	27.6	30.1	31.1	28.1	25.0	28.1	31.1	30.1
87.5°	11.5	11.4	11.9	13.0	14.3	14.3	10.8	7.8	10.8	13.9	15.1
90°	40.6	38.7	38.7	36.8	31.0	23.2	13.5	5.8	13.5	21.3	34.8
92.5°	48.4	48.0	44.9	41.4	34.0	34.0	33.7	21.3	36.8	52.2	75.1
95°	44.5	44.5	52.2	65.8	96.7	98.7	65.8	60.0	85.1	119.9	150.9
97.5°	120.3	143.2	175.7	181.9	172.2	128.5	123.0	114.5	155.9	190.4	240.3
100°	222.5	251.5	274.7	228.3	179.9	178.0	166.4	162.5	207.0	239.9	288.3
102.5°	347.8	356.7	276.3	250.0	238.7	230.6	212.8	210.5	255.0	300.3	340.9
105°	377.3	338.6	340.5	340.5	332.8	317.3	284.4	282.5	332.8	385.0	435.3
107.5°	443.8	449.6	459.7	457.3	448.4	407.0	368.4	359.5	404.7	467.4	522.7
110°	532.0	537.8	541.7	537.8	524.3	472.1	425.6	412.1	452.7	518.5	578.5



TEST NUMBER: P1428476

CATALOG NUMBER: SQ2W-PW1-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	617.2	621.4	629.9	618.3	595.5	535.5	482.9	463.2	503.8	571.1	632.6
115°	752.6	752.6	754.5	748.7	702.3	640.4	570.7	541.7	576.5	638.4	706.1
117.5°	885.7	888.0	880.3	864.8	811.0	739.0	660.9	614.4	641.9	707.3	777.0
120°	969.3	973.1	965.4	942.2	889.9	808.7	719.7	665.5	686.8	750.6	820.3
122.5°	1055.9	1055.2	1045.9	1019.6	958.0	873.7	786.2	719.7	728.6	787.8	855.9
125°	1176.3	1174.3	1166.6	1135.6	1071.8	984.7	882.2	800.9	789.3	839.6	909.3
127.5°	1290.8	1286.5	1274.5	1237.0	1171.6	1087.7	975.1	883.0	857.0	888.8	952.6
130°	1369.7	1363.9	1342.6	1302.0	1238.2	1158.8	1044.7	940.2	903.5	922.8	978.9
132.5°	1445.6	1428.9	1410.7	1367.0	1307.8	1225.4	1109.7	1000.6	949.9	958.4	1002.1
135°	1541.9	1526.4	1503.2	1460.7	1404.5	1323.3	1207.2	1089.2	1019.6	1011.8	1037.0
137.5°	1626.6	1610.4	1584.1	1547.3	1490.8	1418.5	1307.0	1182.5	1094.6	1068.7	1078.4
140°	1679.3	1659.9	1636.7	1599.9	1549.6	1474.2	1365.9	1245.9	1147.2	1110.5	1104.7
142.5°	1722.6	1707.9	1683.1	1649.5	1605.4	1529.9	1424.7	1306.3	1201.4	1153.8	1140.3
145°	1787.6	1776.0	1748.9	1718.0	1681.2	1605.8	1509.0	1391.0	1286.5	1224.6	1195.6
147.5°	1842.6	1833.3	1812.0	1775.6	1744.7	1672.3	1584.1	1479.6	1372.4	1295.8	1258.3
150°	1876.6	1868.9	1847.6	1812.8	1781.8	1714.1	1629.0	1532.2	1429.7	1348.4	1300.1
152.5°	1909.1	1901.4	1877.0	1842.2	1815.9	1752.8	1675.4	1583.3	1479.2	1398.0	1348.1
155°	1952.1	1942.4	1919.2	1886.3	1863.1	1805.0	1733.4	1652.2	1563.2	1478.1	1422.0
157.5°	1986.1	1974.1	1952.4	1924.2	1899.4	1846.0	1783.7	1713.7	1635.9	1554.7	1497.4
160°	2006.2	1992.7	1969.5	1944.3	1921.1	1870.8	1814.7	1750.8	1679.3	1605.8	1543.8
162.5°	2020.2	2008.2	1980.3	1958.2	1938.1	1892.5	1839.5	1781.8	1718.0	1653.7	1596.5
165°	2035.2	2021.7	1992.7	1975.3	1957.9	1919.2	1872.7	1826.3	1772.1	1719.9	1673.5
167.5°	2036.4	2025.2	1996.2	1979.1	1966.4	1933.1	1895.6	1860.0	1817.8	1776.8	1738.1
170°	2033.3	2023.6	1994.6	1979.1	1969.5	1942.4	1909.5	1878.5	1845.6	1810.8	1779.9
172.5°	2022.5	2012.8	1985.3	1972.9	1967.9	1943.9	1917.2	1894.0	1865.8	1840.2	1815.5
175°	1994.6	1986.9	1963.7	1955.9	1957.9	1942.4	1923.0	1909.5	1892.1	1876.6	1863.1
177.5°	1954.0	1949.3	1932.3	1932.3	1938.5	1929.2	1923.0	1916.8	1909.1	1904.5	1899.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1428476

CATALOG NUMBER: SQ2W-PW1-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8	1456.8
2.5°	1456.2	1453.8	1454.3	1455.0	1456.5	1458.0	1456.5	1455.0	1454.3	1453.8	1456.2
5°	1455.5	1453.0	1453.6	1455.5	1461.0	1466.6	1461.0	1455.5	1453.6	1453.0	1455.5
7.5°	1450.9	1449.8	1451.9	1454.9	1460.3	1465.7	1460.3	1454.9	1451.9	1449.8	1450.9
10°	1446.2	1445.9	1449.0	1452.5	1457.5	1462.4	1457.5	1452.5	1449.0	1445.9	1446.2
12.5°	1440.2	1440.6	1444.2	1448.1	1453.0	1458.0	1453.0	1448.1	1444.2	1440.6	1440.2
15°	1426.6	1428.5	1432.8	1436.8	1439.9	1443.0	1439.9	1436.8	1432.8	1428.5	1426.6
17.5°	1404.3	1404.4	1405.5	1406.7	1408.2	1409.7	1408.2	1406.7	1405.5	1404.4	1404.3
20°	1387.0	1383.9	1379.6	1376.4	1376.4	1376.4	1376.4	1376.4	1379.6	1383.9	1387.0
22.5°	1362.7	1354.7	1343.0	1333.2	1329.3	1325.3	1329.3	1333.2	1343.0	1354.7	1362.7
25°	1314.6	1296.4	1272.3	1252.0	1242.7	1233.5	1242.7	1252.0	1272.3	1296.4	1314.6
27.5°	1249.0	1219.7	1185.6	1156.7	1143.9	1131.1	1143.9	1156.7	1185.6	1219.7	1249.0
30°	1195.8	1159.2	1121.5	1090.2	1077.9	1065.6	1077.9	1090.2	1121.5	1159.2	1195.8
32.5°	1140.3	1098.5	1059.4	1026.7	1013.4	1000.1	1013.4	1026.7	1059.4	1098.5	1140.3
35°	1053.4	1005.6	966.1	933.6	921.9	910.2	921.9	933.6	966.1	1005.6	1053.4
37.5°	966.2	915.6	874.3	840.1	827.1	814.2	827.1	840.1	874.3	915.6	966.2
40°	905.2	853.5	812.1	777.9	765.0	752.0	765.0	777.9	812.1	853.5	905.2
42.5°	846.4	794.6	753.3	719.0	705.5	692.1	705.5	719.0	753.3	794.6	846.4
45°	757.4	705.6	665.5	632.2	619.3	606.3	619.3	632.2	665.5	705.6	757.4
47.5°	673.5	622.4	583.6	551.7	540.6	529.5	540.6	551.7	583.6	622.4	673.5
50°	619.9	570.3	531.4	498.9	485.3	471.7	485.3	498.9	531.4	570.3	619.9
52.5°	568.1	518.7	478.9	444.4	425.9	407.4	425.9	444.4	478.9	518.7	568.1
55°	492.6	442.6	398.2	362.3	351.8	341.3	351.8	362.3	398.2	442.6	492.6
57.5°	423.0	377.8	337.4	305.0	296.4	287.8	296.4	305.0	337.4	377.8	423.0
60°	376.8	335.5	301.5	273.9	265.3	256.7	265.3	273.9	301.5	335.5	376.8
62.5°	331.6	294.5	267.5	245.5	238.3	231.2	238.3	245.5	267.5	294.5	331.6
65°	276.4	245.6	223.4	205.2	199.0	192.9	199.0	205.2	223.4	245.6	276.4
67.5°	228.6	203.7	184.2	168.5	164.5	160.4	164.5	168.5	184.2	203.7	228.6
70°	197.8	176.5	160.5	147.7	144.6	141.5	144.6	147.7	160.5	176.5	197.8
72.5°	168.3	150.5	137.9	128.0	125.9	123.8	125.9	128.0	137.9	150.5	168.3
75°	129.0	116.4	107.8	101.0	99.7	98.5	99.7	101.0	107.8	116.4	129.0
77.5°	95.5	86.1	79.7	74.7	73.7	72.7	73.7	74.7	79.7	86.1	95.5
80°	74.0	66.9	62.0	58.3	58.3	58.3	58.3	58.3	62.0	66.9	74.0
82.5°	52.8	48.2	45.7	43.8	43.8	43.8	43.8	43.8	45.7	48.2	52.8
85°	27.6	24.5	20.8	17.9	17.3	16.6	17.3	17.9	20.8	24.5	27.6
87.5°	14.6	15.8	18.0	19.2	20.7	20.0	20.7	19.2	18.0	15.8	14.6
90°	44.5	58.0	71.6	79.3	87.1	83.2	87.1	79.3	71.6	58.0	44.5
92.5°	89.4	112.2	128.8	142.8	149.0	148.2	149.0	142.8	128.8	112.2	89.4
95°	179.9	207.0	234.1	253.4	265.0	261.2	265.0	253.4	234.1	207.0	179.9
97.5°	277.4	313.8	344.0	362.2	373.8	381.5	373.8	362.2	344.0	313.8	277.4
100°	342.4	377.3	412.1	433.4	452.7	460.4	452.7	433.4	412.1	377.3	342.4
102.5°	395.1	440.7	478.6	501.5	517.7	525.4	517.7	501.5	478.6	440.7	395.1
105°	481.7	530.1	570.7	599.7	617.2	623.0	617.2	599.7	570.7	530.1	481.7
107.5°	568.4	618.3	655.8	688.0	709.2	721.6	709.2	688.0	655.8	618.3	568.4
110°	636.5	677.1	717.8	746.8	768.1	775.8	768.1	746.8	717.8	677.1	636.5



TEST NUMBER: P1428476

CATALOG NUMBER: SQ2W-PW1-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	693.8	739.0	779.7	808.7	833.1	843.9	833.1	808.7	779.7	739.0	693.8
115°	773.9	833.8	870.6	897.7	915.1	924.8	915.1	897.7	870.6	833.8	773.9
117.5°	840.4	903.1	943.3	964.2	972.4	979.3	972.4	964.2	943.3	903.1	840.4
120°	882.2	940.2	986.7	1013.8	1023.4	1027.3	1023.4	1013.8	986.7	940.2	882.2
122.5°	920.9	975.8	1020.7	1054.0	1069.9	1073.7	1069.9	1054.0	1020.7	975.8	920.9
125°	975.1	1027.3	1073.7	1106.6	1124.0	1133.7	1124.0	1106.6	1073.7	1027.3	975.1
127.5°	1022.3	1078.8	1121.3	1151.1	1168.1	1175.9	1168.1	1151.1	1121.3	1078.8	1022.3
130°	1048.6	1106.6	1149.2	1182.1	1197.5	1205.3	1197.5	1182.1	1149.2	1106.6	1048.6
132.5°	1068.7	1129.8	1173.9	1203.7	1220.8	1228.5	1220.8	1203.7	1173.9	1129.8	1068.7
135°	1093.1	1156.9	1203.3	1232.4	1247.8	1255.6	1247.8	1232.4	1203.3	1156.9	1093.1
137.5°	1114.4	1172.4	1220.8	1251.3	1265.3	1270.3	1265.3	1251.3	1220.8	1172.4	1114.4
140°	1129.8	1180.1	1228.5	1257.5	1273.0	1274.9	1273.0	1257.5	1228.5	1180.1	1129.8
142.5°	1150.0	1189.4	1231.6	1260.6	1276.1	1279.6	1276.1	1260.6	1231.6	1189.4	1150.0
145°	1185.9	1209.2	1238.2	1265.3	1278.8	1282.7	1278.8	1265.3	1238.2	1209.2	1185.9
147.5°	1231.2	1238.6	1253.6	1271.4	1284.6	1287.3	1284.6	1271.4	1253.6	1238.6	1231.2
150°	1265.3	1263.3	1269.1	1280.7	1292.3	1290.4	1292.3	1280.7	1269.1	1263.3	1265.3
152.5°	1303.9	1292.7	1292.3	1297.8	1303.2	1302.8	1303.2	1297.8	1292.3	1292.7	1303.9
155°	1369.7	1348.4	1336.8	1333.0	1333.0	1331.0	1333.0	1333.0	1336.8	1348.4	1369.7
157.5°	1442.1	1412.3	1394.9	1385.6	1382.9	1378.6	1382.9	1385.6	1394.9	1412.3	1442.1
160°	1491.6	1458.7	1441.3	1425.8	1420.0	1414.2	1420.0	1425.8	1441.3	1458.7	1491.6
162.5°	1538.0	1506.7	1487.7	1473.8	1468.0	1459.1	1468.0	1473.8	1487.7	1506.7	1538.0
165°	1613.5	1580.6	1559.3	1547.7	1540.0	1532.2	1540.0	1547.7	1559.3	1580.6	1613.5
167.5°	1688.9	1653.0	1639.0	1625.9	1618.5	1604.6	1618.5	1625.9	1639.0	1653.0	1688.9
170°	1735.4	1702.5	1694.7	1683.1	1669.6	1654.1	1669.6	1683.1	1694.7	1702.5	1735.4
172.5°	1775.6	1753.6	1745.8	1734.2	1730.0	1717.6	1730.0	1734.2	1745.8	1753.6	1775.6
175°	1834.0	1816.6	1816.6	1814.7	1808.9	1797.3	1808.9	1814.7	1816.6	1816.6	1834.0
177.5°	1882.8	1873.5	1879.7	1879.7	1878.1	1867.3	1878.1	1879.7	1879.7	1873.5	1882.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1428476

CATALOG NUMBER: SQ2W-PW1-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1456.8	1456.8	1456.8	1456.8
2.5°	1461.7	1463.6	1455.2	1446.9
5°	1461.0	1462.6	1452.1	1441.6
7.5°	1455.1	1455.6	1445.0	1434.4
10°	1449.9	1449.9	1438.8	1427.7
12.5°	1442.9	1442.0	1430.4	1418.8
15°	1427.2	1424.6	1412.3	1400.0
17.5°	1405.1	1402.7	1390.4	1378.0
20°	1388.9	1387.2	1374.8	1362.5
22.5°	1367.0	1366.9	1353.6	1340.3
25°	1326.9	1332.9	1320.0	1307.0
27.5°	1273.4	1289.1	1278.6	1268.2
30°	1231.6	1256.4	1248.4	1240.4
32.5°	1185.0	1217.7	1214.6	1211.5
35°	1109.5	1153.0	1158.5	1164.1
37.5°	1026.0	1075.0	1091.5	1108.0
40°	967.5	1020.1	1043.5	1067.0
42.5°	908.7	962.8	992.1	1021.5
45°	820.9	877.2	911.7	946.3
47.5°	736.9	793.0	827.3	861.6
50°	680.3	734.0	767.3	800.6
52.5°	627.0	678.7	708.6	738.4
55°	548.1	596.8	625.1	653.5
57.5°	473.2	517.0	541.5	566.1
60°	425.5	467.4	489.0	510.6
62.5°	378.9	419.1	438.2	457.3
65°	315.9	349.0	363.2	377.4
67.5°	259.1	283.9	291.8	299.7
70°	224.3	244.8	247.3	249.7
72.5°	191.4	208.4	207.4	206.5
75°	145.7	156.9	152.0	147.1
77.5°	107.7	115.0	107.6	100.2
80°	83.2	88.3	80.9	73.5
82.5°	59.6	63.2	57.3	51.3
85°	30.1	31.1	28.1	25.0
87.5°	15.1	13.9	10.8	7.8
90°	34.8	21.3	13.5	5.8
92.5°	75.1	52.2	36.8	21.3
95°	150.9	119.9	85.1	60.0
97.5°	240.3	190.4	155.9	114.5
100°	288.3	239.9	207.0	162.5
102.5°	340.9	300.3	255.0	210.5
105°	435.3	385.0	332.8	282.5
107.5°	522.7	467.4	404.7	359.5
110°	578.5	518.5	452.7	412.1



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	632.6	571.1	503.8	463.2
115°	706.1	638.4	576.5	541.7
117.5°	777.0	707.3	641.9	614.4
120°	820.3	750.6	686.8	665.5
122.5°	855.9	787.8	728.6	719.7
125°	909.3	839.6	789.3	800.9
127.5°	952.6	888.8	857.0	883.0
130°	978.9	922.8	903.5	940.2
132.5°	1002.1	958.4	949.9	1000.6
135°	1037.0	1011.8	1019.6	1089.2
137.5°	1078.4	1068.7	1094.6	1182.5
140°	1104.7	1110.5	1147.2	1245.9
142.5°	1140.3	1153.8	1201.4	1306.3
145°	1195.6	1224.6	1286.5	1391.0
147.5°	1258.3	1295.8	1372.4	1479.6
150°	1300.1	1348.4	1429.7	1532.2
152.5°	1348.1	1398.0	1479.2	1583.3
155°	1422.0	1478.1	1563.2	1652.2
157.5°	1497.4	1554.7	1635.9	1713.7
160°	1543.8	1605.8	1679.3	1750.8
162.5°	1596.5	1653.7	1718.0	1781.8
165°	1673.5	1719.9	1772.1	1826.3
167.5°	1738.1	1776.8	1817.8	1860.0
170°	1779.9	1810.8	1845.6	1878.5
172.5°	1815.5	1840.2	1865.8	1894.0
175°	1863.1	1876.6	1892.1	1909.5
177.5°	1899.8	1904.5	1909.1	1916.8
180°	1915.3	1915.3	1915.3	1915.3



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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	16.49	17.22	17.57	18.29	19.74	12.74	13.47	13.81	14.54	15.99
	3H	17.79	18.44	18.87	19.51	20.98	14.00	14.65	15.08	15.73	17.20
	4H	18.19	18.80	19.28	19.88	21.36	14.50	15.12	15.59	16.20	17.67
	6H	18.36	18.93	19.46	20.01	21.50	14.80	15.37	15.90	16.45	17.94
	8H	18.40	18.94	19.50	20.04	21.52	14.91	15.45	16.02	16.55	18.03
	12H	18.40	18.91	19.50	20.00	21.50	14.94	15.45	16.05	16.54	18.05
4H	2H	16.61	17.23	17.71	18.30	19.78	13.54	14.15	14.63	15.23	16.71
	3H	18.14	18.65	19.24	19.75	21.24	14.97	15.48	16.07	16.59	18.08
	4H	18.68	19.15	19.79	20.24	21.75	15.54	16.01	16.65	17.11	18.62
	6H	18.98	19.38	20.10	20.50	22.01	15.92	16.32	17.04	17.44	18.94
	8H	19.07	19.45	20.19	20.56	22.07	16.07	16.44	17.18	17.55	19.07
	12H	19.09	19.43	20.22	20.55	22.07	16.11	16.45	17.24	17.57	19.09
8H	4H	18.71	19.08	19.82	20.19	21.71	15.88	16.25	16.99	17.36	18.88
	6H	19.12	19.43	20.26	20.59	22.10	16.37	16.68	17.50	17.83	19.34
	8H	19.29	19.56	20.44	20.70	22.23	16.58	16.85	17.73	17.99	19.52
	12H	19.37	19.60	20.51	20.73	22.31	16.66	16.90	17.81	18.03	19.60
12H	4H	18.66	19.00	19.79	20.12	21.65	15.89	16.23	17.02	17.35	18.88
	6H	19.12	19.39	20.26	20.52	22.06	16.44	16.71	17.58	17.84	19.38
	8H	19.30	19.54	20.45	20.67	22.24	16.68	16.92	17.82	18.05	19.62