

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: P1427759

Luminaire Tested: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427759  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

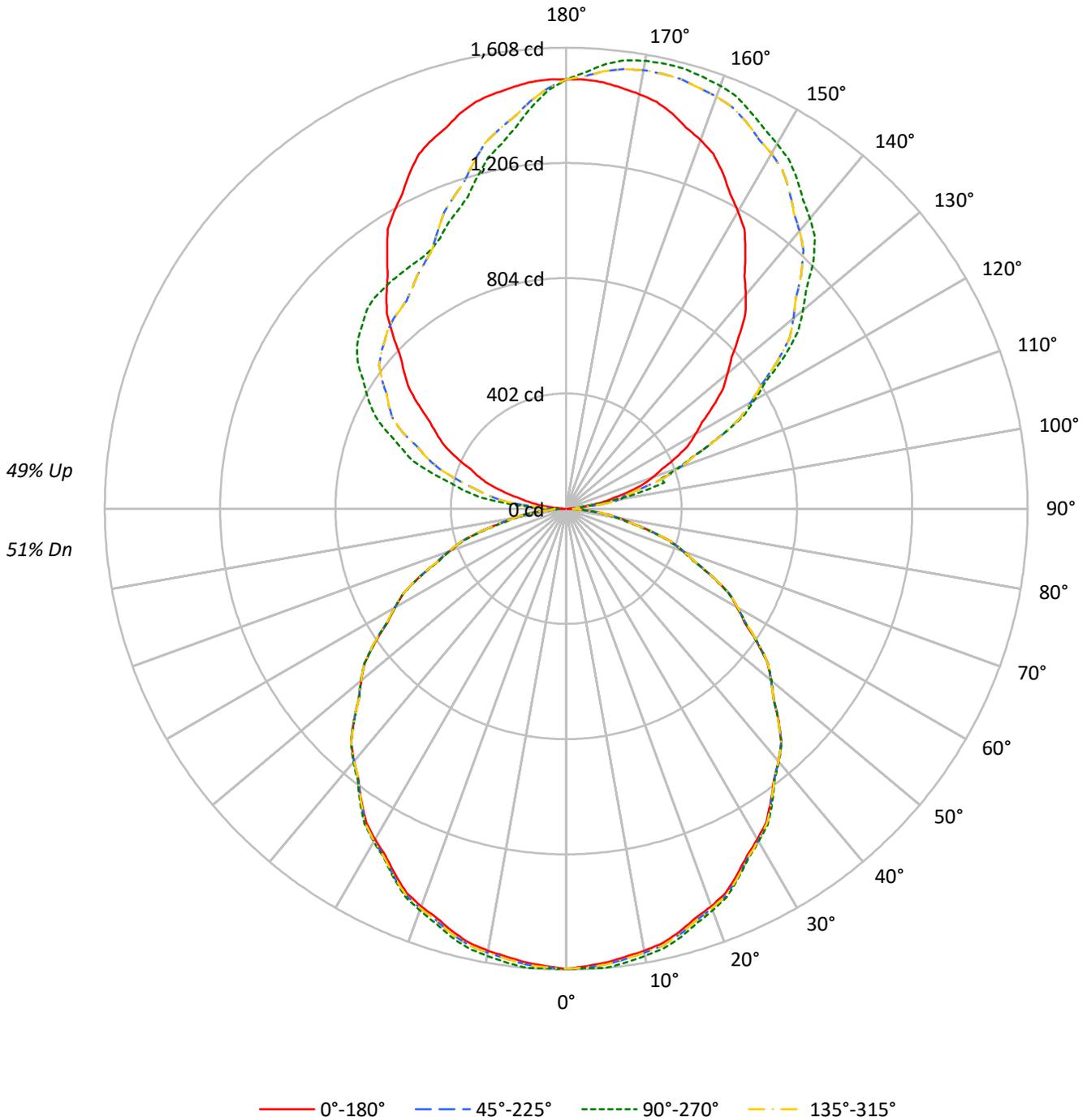
Lumens per Lamp: N/A  
Luminaire Lumens: 8896.1 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42				
2	89	81	75	70	82	75	70	65	64	60	56	53	51	48	44	42	40	35				
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	39	36	34	30				
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25				
5	68	56	48	42	62	52	45	39	45	39	34	38	33	30	31	28	25	22				
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19				
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	26	22	20	17				
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15				
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	14				
10	47	34	27	22	43	32	26	21	28	22	19	24	20	16	20	17	14	12				

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

	0°	90°	180°	270°
0°	25922	25922	25922	25922
5°	25765	26058	25765	26058
10°	25672	25969	25672	25969
15°	25532	25853	25532	25853
20°	25371	25623	25371	25623
25°	25097	25318	25097	25318
30°	24831	24999	24831	24999
35°	24513	24669	24513	24669
40°	24236	24308	24236	24308
45°	23879	23879	23879	23879
50°	23402	23458	23402	23458
55°	22851	22882	22851	22882
60°	22236	22236	22236	22236
65°	21512	21425	21512	21425
70°	20497	20280	20497	20280
75°	19114	18690	19114	18690
80°	17034	16188	17034	16188
85°	13616	11523	13616	11523

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 24041 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	1.7
10°-20°	434.1	4.9
20°-30°	653.4	7.3
30°-40°	781.3	8.8
40°-50°	806.8	9.1
50°-60°	727.7	8.2
60°-70°	557.5	6.3
70°-80°	322.2	3.6
80°-90°	89.9	1.0
90°-100°	119.2	1.3
100°-110°	347.5	3.9
110°-120°	567.1	6.4
120°-130°	719.6	8.1
130°-140°	770.0	8.7
140°-150°	719.0	8.1
150°-160°	591.6	6.7
160°-170°	396.8	4.5
170°-180°	140.9	1.6
0°-30°	1239.3	13.9
0°-40°	2020.7	22.7
0°-60°	3555.2	40.0
0°-90°	4524.7	50.9
90°-120°	1033.7	11.6
90°-150°	3242.2	36.4
90°-180°	4371.0	49.1
0°-180°	8896.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1590	1608	1590	1608	1590	151
15°	1528	1547	1528	1547	1528	431
25°	1409	1421	1409	1421	1409	649
35°	1244	1252	1244	1252	1244	778
45°	1046	1046	1046	1046	1046	806
55°	812	813	812	813	812	725
65°	563	561	563	561	563	557
75°	306	300	306	300	306	324
85°	74	62	74	62	74	86
90°	4	33	4	65	4	7
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1597.4	1605.0	1612.6	1609.4	1602.6	1600.0	1601.6	1603.0	1603.8	1604.6	1603.8
5°	1589.7	1599.7	1609.8	1606.3	1598.2	1594.7	1595.7	1597.7	1602.8	1607.8	1602.8
7.5°	1576.8	1586.8	1596.9	1593.7	1586.0	1582.8	1584.0	1586.2	1591.5	1596.7	1591.5
10°	1565.9	1576.0	1586.0	1582.5	1574.5	1571.5	1573.5	1576.0	1580.0	1584.0	1580.0
12.5°	1552.4	1562.4	1572.5	1569.6	1562.3	1559.3	1560.5	1562.5	1566.9	1571.4	1566.9
15°	1527.5	1537.6	1547.6	1544.8	1537.8	1535.0	1536.5	1538.7	1542.7	1546.7	1542.7
17.5°	1497.4	1506.9	1516.3	1513.8	1507.2	1504.8	1506.5	1508.7	1512.2	1515.7	1512.2
20°	1476.6	1485.7	1494.7	1492.1	1485.5	1482.5	1483.0	1484.3	1487.8	1491.3	1487.8
22.5°	1451.3	1460.3	1469.4	1467.0	1460.9	1457.3	1456.2	1456.4	1460.8	1465.1	1460.8
25°	1408.8	1417.8	1426.9	1425.0	1419.5	1415.9	1414.4	1414.2	1417.7	1421.2	1417.7
27.5°	1364.5	1372.0	1379.5	1378.0	1373.3	1370.5	1369.5	1369.4	1371.9	1374.4	1371.9
30°	1331.9	1339.4	1347.0	1345.1	1340.1	1337.0	1336.0	1335.9	1338.4	1340.9	1338.4
32.5°	1297.5	1304.7	1311.8	1309.2	1303.4	1300.4	1300.2	1300.7	1303.7	1306.6	1303.7
35°	1243.7	1249.7	1255.8	1253.1	1247.6	1245.1	1245.6	1246.6	1249.1	1251.6	1249.1
37.5°	1189.7	1194.3	1198.9	1196.2	1191.1	1188.5	1188.4	1188.8	1190.9	1193.1	1190.9
40°	1149.9	1154.9	1159.9	1157.0	1151.5	1148.5	1148.0	1148.2	1150.7	1153.3	1150.7
42.5°	1109.2	1113.0	1116.8	1114.2	1109.5	1107.3	1107.6	1108.1	1109.4	1110.7	1109.4
45°	1045.8	1049.4	1052.9	1050.4	1045.8	1043.6	1043.6	1043.8	1044.8	1045.8	1044.8
47.5°	979.6	982.3	985.0	983.1	979.5	977.5	976.9	976.8	978.4	980.0	978.4
50°	931.7	935.2	938.7	936.9	933.4	931.1	930.1	929.9	931.9	933.9	931.9
52.5°	884.6	888.5	892.5	890.8	887.3	884.8	883.4	882.8	884.4	886.0	884.4
55°	811.8	816.3	820.8	819.7	816.7	814.2	812.2	810.9	811.9	812.9	811.9
57.5°	737.4	741.8	746.3	745.4	742.8	740.3	737.9	736.4	737.8	739.2	737.8
60°	688.6	692.6	696.6	695.3	692.3	689.8	687.8	686.6	687.6	688.6	687.6
62.5°	638.8	642.8	646.9	645.3	641.9	639.2	637.2	635.9	636.9	637.9	636.9
65°	563.1	566.6	570.1	568.7	565.7	563.2	561.2	559.8	560.3	560.8	560.3
67.5°	486.6	489.6	492.7	491.2	488.3	485.4	482.5	480.5	481.3	482.1	481.3
70°	434.2	437.2	440.2	439.1	436.6	434.0	431.5	429.6	429.6	429.6	429.6
72.5°	383.5	386.1	388.7	387.2	384.3	381.8	379.7	378.1	378.1	378.1	378.1
75°	306.4	307.9	309.4	308.7	307.2	305.1	302.6	300.6	300.1	299.6	300.1
77.5°	232.0	232.0	232.0	230.6	228.7	226.8	224.8	223.3	222.7	222.1	222.7
80°	183.2	183.2	183.2	182.0	180.5	179.0	177.5	176.1	175.1	174.1	175.1
82.5°	137.9	137.1	136.3	135.0	133.5	131.6	129.3	127.8	128.8	129.8	128.8
85°	73.5	72.5	71.5	70.1	68.6	66.8	64.8	63.2	62.7	62.2	62.7
87.5°	23.5	23.9	24.6	24.7	24.4	23.3	21.7	20.7	20.6	20.2	20.6
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9

TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1603.0	1601.6	1600.0	1602.6	1609.4	1612.6	1605.0	1597.4	1605.0	1612.6	1609.4
5°	1597.7	1595.7	1594.7	1598.2	1606.3	1609.8	1599.7	1589.7	1599.7	1609.8	1606.3
7.5°	1586.2	1584.0	1582.8	1586.0	1593.7	1596.9	1586.8	1576.8	1586.8	1596.9	1593.7
10°	1576.0	1573.5	1571.5	1574.5	1582.5	1586.0	1576.0	1565.9	1576.0	1586.0	1582.5
12.5°	1562.5	1560.5	1559.3	1562.3	1569.6	1572.5	1562.4	1552.4	1562.4	1572.5	1569.6
15°	1538.7	1536.5	1535.0	1537.8	1544.8	1547.6	1537.6	1527.5	1537.6	1547.6	1544.8
17.5°	1508.7	1506.5	1504.8	1507.2	1513.8	1516.3	1506.9	1497.4	1506.9	1516.3	1513.8
20°	1484.3	1483.0	1482.5	1485.5	1492.1	1494.7	1485.7	1476.6	1485.7	1494.7	1492.1
22.5°	1456.4	1456.2	1457.3	1460.9	1467.0	1469.4	1460.3	1451.3	1460.3	1469.4	1467.0
25°	1414.2	1414.4	1415.9	1419.5	1425.0	1426.9	1417.8	1408.8	1417.8	1426.9	1425.0
27.5°	1369.4	1369.5	1370.5	1373.3	1378.0	1379.5	1372.0	1364.5	1372.0	1379.5	1378.0
30°	1335.9	1336.0	1337.0	1340.1	1345.1	1347.0	1339.4	1331.9	1339.4	1347.0	1345.1
32.5°	1300.7	1300.2	1300.4	1303.4	1309.2	1311.8	1304.7	1297.5	1304.7	1311.8	1309.2
35°	1246.6	1245.6	1245.1	1247.6	1253.1	1255.8	1249.7	1243.7	1249.7	1255.8	1253.1
37.5°	1188.8	1188.4	1188.5	1191.1	1196.2	1198.9	1194.3	1189.7	1194.3	1198.9	1196.2
40°	1148.2	1148.0	1148.5	1151.5	1157.0	1159.9	1154.9	1149.9	1154.9	1159.9	1157.0
42.5°	1108.1	1107.6	1107.3	1109.5	1114.2	1116.8	1113.0	1109.2	1113.0	1116.8	1114.2
45°	1043.8	1043.6	1043.6	1045.8	1050.4	1052.9	1049.4	1045.8	1049.4	1052.9	1050.4
47.5°	976.8	976.9	977.5	979.5	983.1	985.0	982.3	979.6	982.3	985.0	983.1
50°	929.9	930.1	931.1	933.4	936.9	938.7	935.2	931.7	935.2	938.7	936.9
52.5°	882.8	883.4	884.8	887.3	890.8	892.5	888.5	884.6	888.5	892.5	890.8
55°	810.9	812.2	814.2	816.7	819.7	820.8	816.3	811.8	816.3	820.8	819.7
57.5°	736.4	737.9	740.3	742.8	745.4	746.3	741.8	737.4	741.8	746.3	745.4
60°	686.6	687.8	689.8	692.3	695.3	696.6	692.6	688.6	692.6	696.6	695.3
62.5°	635.9	637.2	639.2	641.9	645.3	646.9	642.8	638.8	642.8	646.9	645.3
65°	559.8	561.2	563.2	565.7	568.7	570.1	566.6	563.1	566.6	570.1	568.7
67.5°	480.5	482.5	485.4	488.3	491.2	492.7	489.6	486.6	489.6	492.7	491.2
70°	429.6	431.5	434.0	436.6	439.1	440.2	437.2	434.2	437.2	440.2	439.1
72.5°	378.1	379.7	381.8	384.3	387.2	388.7	386.1	383.5	386.1	388.7	387.2
75°	300.6	302.6	305.1	307.2	308.7	309.4	307.9	306.4	307.9	309.4	308.7
77.5°	223.3	224.8	226.8	228.7	230.6	232.0	232.0	232.0	232.0	232.0	230.6
80°	176.1	177.5	179.0	180.5	182.0	183.2	183.2	183.2	183.2	183.2	182.0
82.5°	127.8	129.3	131.6	133.5	135.0	136.3	137.1	137.9	137.1	136.3	135.0
85°	63.2	64.8	66.8	68.6	70.1	71.5	72.5	73.5	72.5	71.5	70.1
87.5°	20.7	21.7	23.3	24.4	24.7	24.6	23.9	23.5	23.9	24.3	25.3
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1602.6	1600.0	1601.6	1603.0	1603.8	1604.6	1603.8	1603.0	1601.6	1600.0	1602.6
5°	1598.2	1594.7	1595.7	1597.7	1602.8	1607.8	1602.8	1597.7	1595.7	1594.7	1598.2
7.5°	1586.0	1582.8	1584.0	1586.2	1591.5	1596.7	1591.5	1586.2	1584.0	1582.8	1586.0
10°	1574.5	1571.5	1573.5	1576.0	1580.0	1584.0	1580.0	1576.0	1573.5	1571.5	1574.5
12.5°	1562.3	1559.3	1560.5	1562.5	1566.9	1571.4	1566.9	1562.5	1560.5	1559.3	1562.3
15°	1537.8	1535.0	1536.5	1538.7	1542.7	1546.7	1542.7	1538.7	1536.5	1535.0	1537.8
17.5°	1507.2	1504.8	1506.5	1508.7	1512.2	1515.7	1512.2	1508.7	1506.5	1504.8	1507.2
20°	1485.5	1482.5	1483.0	1484.3	1487.8	1491.3	1487.8	1484.3	1483.0	1482.5	1485.5
22.5°	1460.9	1457.3	1456.2	1456.4	1460.8	1465.1	1460.8	1456.4	1456.2	1457.3	1460.9
25°	1419.5	1415.9	1414.4	1414.2	1417.7	1421.2	1417.7	1414.2	1414.4	1415.9	1419.5
27.5°	1373.3	1370.5	1369.5	1369.4	1371.9	1374.4	1371.9	1369.4	1369.5	1370.5	1373.3
30°	1340.1	1337.0	1336.0	1335.9	1338.4	1340.9	1338.4	1335.9	1336.0	1337.0	1340.1
32.5°	1303.4	1300.4	1300.2	1300.7	1303.7	1306.6	1303.7	1300.7	1300.2	1300.4	1303.4
35°	1247.6	1245.1	1245.6	1246.6	1249.1	1251.6	1249.1	1246.6	1245.6	1245.1	1247.6
37.5°	1191.1	1188.5	1188.4	1188.8	1190.9	1193.1	1190.9	1188.8	1188.4	1188.5	1191.1
40°	1151.5	1148.5	1148.0	1148.2	1150.7	1153.3	1150.7	1148.2	1148.0	1148.5	1151.5
42.5°	1109.5	1107.3	1107.6	1108.1	1109.4	1110.7	1109.4	1108.1	1107.6	1107.3	1109.5
45°	1045.8	1043.6	1043.6	1043.8	1044.8	1045.8	1044.8	1043.8	1043.6	1043.6	1045.8
47.5°	979.5	977.5	976.9	976.8	978.4	980.0	978.4	976.8	976.9	977.5	979.5
50°	933.4	931.1	930.1	929.9	931.9	933.9	931.9	929.9	930.1	931.1	933.4
52.5°	887.3	884.8	883.4	882.8	884.4	886.0	884.4	882.8	883.4	884.8	887.3
55°	816.7	814.2	812.2	810.9	811.9	812.9	811.9	810.9	812.2	814.2	816.7
57.5°	742.8	740.3	737.9	736.4	737.8	739.2	737.8	736.4	737.9	740.3	742.8
60°	692.3	689.8	687.8	686.6	687.6	688.6	687.6	686.6	687.8	689.8	692.3
62.5°	641.9	639.2	637.2	635.9	636.9	637.9	636.9	635.9	637.2	639.2	641.9
65°	565.7	563.2	561.2	559.8	560.3	560.8	560.3	559.8	561.2	563.2	565.7
67.5°	488.3	485.4	482.5	480.5	481.3	482.1	481.3	480.5	482.5	485.4	488.3
70°	436.6	434.0	431.5	429.6	429.6	429.6	429.6	429.6	431.5	434.0	436.6
72.5°	384.3	381.8	379.7	378.1	378.1	378.1	378.1	378.1	379.7	381.8	384.3
75°	307.2	305.1	302.6	300.6	300.1	299.6	300.1	300.6	302.6	305.1	307.2
77.5°	228.7	226.8	224.8	223.3	222.7	222.1	222.7	223.3	224.8	226.8	228.7
80°	180.5	179.0	177.5	176.1	175.1	174.1	175.1	176.1	177.5	179.0	180.5
82.5°	133.5	131.6	129.3	127.8	128.8	129.8	128.8	127.8	129.3	131.6	133.5
85°	68.6	66.8	64.8	63.2	62.7	62.2	62.7	63.2	64.8	66.8	68.6
87.5°	25.6	26.4	26.9	26.8	27.6	26.6	27.6	26.8	26.9	26.4	25.6
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1605.5	1605.5	1605.5	1605.5
2.5°	1609.4	1612.6	1605.0	1597.4
5°	1606.3	1609.8	1599.7	1589.7
7.5°	1593.7	1596.9	1586.8	1576.8
10°	1582.5	1586.0	1576.0	1565.9
12.5°	1569.6	1572.5	1562.4	1552.4
15°	1544.8	1547.6	1537.6	1527.5
17.5°	1513.8	1516.3	1506.9	1497.4
20°	1492.1	1494.7	1485.7	1476.6
22.5°	1467.0	1469.4	1460.3	1451.3
25°	1425.0	1426.9	1417.8	1408.8
27.5°	1378.0	1379.5	1372.0	1364.5
30°	1345.1	1347.0	1339.4	1331.9
32.5°	1309.2	1311.8	1304.7	1297.5
35°	1253.1	1255.8	1249.7	1243.7
37.5°	1196.2	1198.9	1194.3	1189.7
40°	1157.0	1159.9	1154.9	1149.9
42.5°	1114.2	1116.8	1113.0	1109.2
45°	1050.4	1052.9	1049.4	1045.8
47.5°	983.1	985.0	982.3	979.6
50°	936.9	938.7	935.2	931.7
52.5°	890.8	892.5	888.5	884.6
55°	819.7	820.8	816.3	811.8
57.5°	745.4	746.3	741.8	737.4
60°	695.3	696.6	692.6	688.6
62.5°	645.3	646.9	642.8	638.8
65°	568.7	570.1	566.6	563.1
67.5°	491.2	492.7	489.6	486.6
70°	439.1	440.2	437.2	434.2
72.5°	387.2	388.7	386.1	383.5
75°	308.7	309.4	307.9	306.4
77.5°	230.6	232.0	232.0	232.0
80°	182.0	183.2	183.2	183.2
82.5°	135.0	136.3	137.1	137.9
85°	70.1	71.5	72.5	73.5
87.5°	25.3	24.3	23.9	23.5
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1427759

CATALOG NUMBER: SQ2W-F-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427759  
 CATALOG NUMBER: SQ2W-F-K-100U-100D-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	19.25	20.13	20.20	21.10	22.35	19.17	20.05	20.11	21.01	22.27
	3H	21.04	21.83	22.00	22.81	24.09	20.94	21.73	21.90	22.70	23.98
	4H	21.74	22.49	22.71	23.47	24.75	21.62	22.37	22.60	23.35	24.64
	6H	22.18	22.87	23.16	23.85	25.15	22.04	22.73	23.02	23.71	25.01
	8H	22.34	22.99	23.33	24.00	25.29	22.18	22.84	23.17	23.84	25.14
	12H	22.42	23.05	23.42	24.04	25.37	22.25	22.87	23.24	23.87	25.19
4H	2H	19.83	20.58	20.81	21.56	22.85	19.77	20.52	20.74	21.49	22.78
	3H	21.86	22.48	22.84	23.49	24.79	21.76	22.39	22.75	23.40	24.70
	4H	22.67	23.24	23.67	24.24	25.57	22.56	23.13	23.56	24.13	25.46
	6H	23.22	23.72	24.23	24.74	26.07	23.08	23.58	24.09	24.60	25.93
	8H	23.44	23.90	24.45	24.92	26.26	23.28	23.74	24.29	24.76	26.10
	12H	23.55	23.97	24.58	25.00	26.35	23.37	23.79	24.40	24.82	26.16
8H	4H	22.92	23.38	23.93	24.40	25.73	22.82	23.28	23.83	24.30	25.64
	6H	23.61	23.99	24.64	25.05	26.38	23.48	23.86	24.51	24.92	26.25
	8H	23.91	24.25	24.95	25.29	26.65	23.76	24.09	24.80	25.14	26.49
	12H	24.10	24.39	25.14	25.43	26.83	23.90	24.20	24.95	25.24	26.64
12H	4H	22.91	23.33	23.94	24.36	25.71	22.82	23.24	23.85	24.27	25.61
	6H	23.66	23.99	24.70	25.04	26.39	23.53	23.87	24.57	24.91	26.27
	8H	23.99	24.29	25.04	25.33	26.73	23.84	24.14	24.89	25.18	26.58