

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1435778

Luminaire Tested: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435778  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

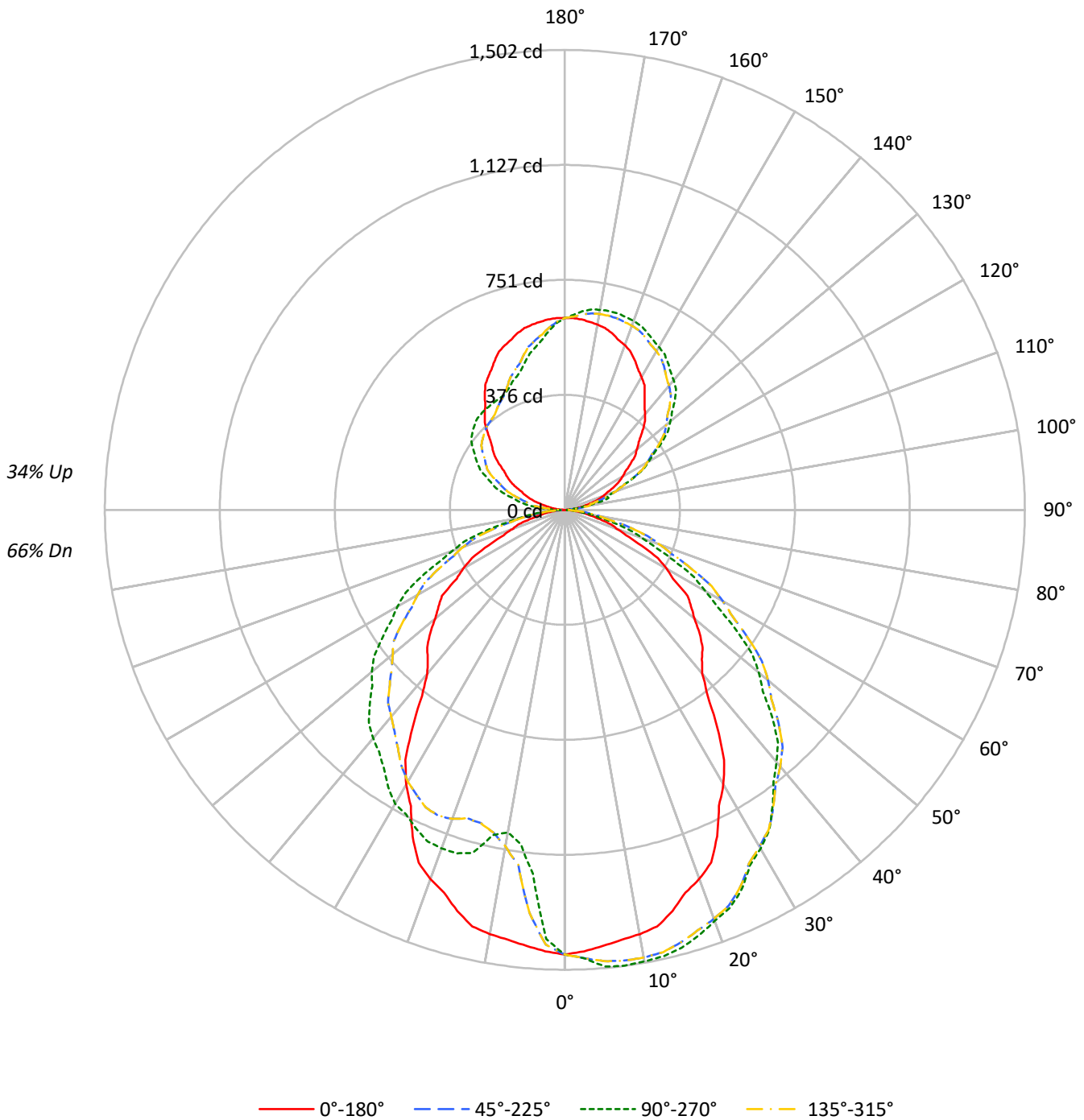
Lumens per Lamp: N/A  
Luminaire Lumens: 5436.8 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.5  
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-FA-K-050U-100D-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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60	56
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	49	46	43	40
4	77	66	58	52	73	63	55	50	56	50	46	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	66	53	45	39	62	50	43	37	45	39	34	41	35	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

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

	0°	90°	180°	270°
0°	23445	23445	23445	23445
5°	23170	24264	23170	19338
10°	23069	24544	23069	17532
15°	22672	24742	22672	19379
20°	22049	24563	22049	20211
25°	20955	24365	20955	20455
30°	19307	23819	19307	20672
35°	17085	23295	17085	20301
40°	14709	22657	14709	20522
45°	14522	21847	14522	20561
50°	13855	20783	13855	20639
55°	13785	19169	13785	20439
60°	12358	17085	12358	20356
65°	10537	15052	10537	19782
70°	8502	12755	8502	18335
75°	7374	10530	7374	16856
80°	6276	7847	6276	13603
85°	4168	4168	4168	8336

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 22532 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	2.4
10°-20°	365.1	6.7
20°-30°	554.4	10.2
30°-40°	650.9	12.0
40°-50°	660.6	12.1
50°-60°	578.6	10.6
60°-70°	410.4	7.5
70°-80°	211.3	3.9
80°-90°	46.9	0.9
90°-100°	49.8	0.9
100°-110°	145.3	2.7
110°-120°	237.1	4.4
120°-130°	300.9	5.5
130°-140°	322.0	5.9
140°-150°	300.7	5.5
150°-160°	247.4	4.6
160°-170°	165.9	3.1
170°-180°	58.9	1.1
0°-30°	1050.1	19.3
0°-40°	1701.1	31.3
0°-60°	2940.2	54.1
0°-90°	3608.8	66.4
90°-120°	432.3	8.0
90°-150°	1355.8	24.9
90°-180°	1828.0	33.6
0°-180°	5436.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1452	1452	1452	1452	1452	
5°	1430	1497	1430	1193	1430	136
15°	1356	1480	1356	1159	1356	381
25°	1176	1368	1176	1148	1176	537
35°	867	1182	867	1030	867	540
45°	636	957	636	900	636	486
55°	490	681	490	726	490	424
65°	276	394	276	518	276	275
75°	118	169	118	270	118	128
85°	22	22	22	45	22	28
90°	2	14	2	27	2	2
95°	20	14	20	85	20	24
105°	92	148	92	204	92	98
115°	177	245	177	302	177	175
125°	262	389	262	371	262	234
135°	356	509	356	410	356	275
145°	455	587	455	419	455	285
155°	540	638	540	435	540	248
165°	597	665	597	501	597	168
175°	624	651	624	588	624	59
180°	626	626	626	626	626	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1443.1	1453.1	1463.1	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
5°	1429.6	1447.1	1464.6	1472.7	1477.7	1481.5	1484.0	1487.1	1492.1	1497.1	1492.1
7.5°	1416.1	1439.6	1463.1	1474.6	1482.1	1488.1	1492.6	1496.6	1499.1	1501.6	1499.1
10°	1407.1	1434.6	1462.1	1474.6	1482.1	1487.1	1489.6	1492.1	1494.6	1497.1	1494.6
12.5°	1393.6	1423.1	1452.6	1467.1	1476.6	1482.6	1485.1	1487.6	1490.1	1492.6	1490.1
15°	1356.4	1396.4	1436.5	1452.1	1459.6	1465.9	1470.9	1475.2	1477.7	1480.2	1477.7
17.5°	1310.3	1358.8	1407.3	1427.0	1437.0	1444.2	1448.7	1452.6	1454.6	1456.6	1454.6
20°	1283.3	1335.8	1388.3	1409.0	1419.0	1425.2	1427.7	1429.6	1429.6	1429.6	1429.6
22.5°	1247.2	1305.8	1364.3	1386.4	1396.4	1401.7	1402.2	1403.1	1405.1	1407.1	1405.1
25°	1176.3	1243.9	1311.4	1339.5	1354.5	1360.8	1358.3	1357.7	1362.7	1367.7	1362.7
27.5°	1089.6	1174.7	1259.7	1288.5	1298.5	1304.8	1307.3	1309.1	1309.1	1309.1	1309.1
30°	1035.6	1130.7	1225.7	1257.0	1267.0	1273.2	1275.7	1277.6	1277.6	1277.6	1277.6
32.5°	968.1	1081.1	1194.2	1228.5	1236.5	1240.7	1241.2	1241.6	1241.6	1241.6	1241.6
35°	866.8	1004.3	1141.9	1180.1	1185.1	1187.6	1187.6	1186.9	1184.4	1181.9	1184.4
37.5°	765.4	921.5	1077.6	1122.3	1129.8	1131.8	1128.3	1125.0	1122.5	1120.0	1122.5
40°	697.9	868.0	1038.1	1086.3	1093.8	1093.8	1086.3	1080.0	1077.5	1075.0	1077.5
42.5°	661.9	830.0	998.1	1045.7	1053.2	1052.2	1042.7	1035.0	1032.5	1030.0	1032.5
45°	636.0	786.1	936.2	979.3	986.8	985.6	975.6	966.8	961.8	956.8	961.8
47.5°	596.6	728.7	860.8	903.2	915.7	914.4	899.4	886.9	881.9	876.9	881.9
50°	551.6	681.7	811.7	853.6	866.1	864.9	849.9	837.4	832.4	827.4	832.4
52.5°	520.1	642.1	764.2	802.6	813.1	809.9	792.8	778.8	773.8	768.8	773.8
55°	489.7	592.2	694.8	726.1	733.6	728.6	711.0	696.0	688.5	681.0	688.5
57.5°	418.7	516.3	613.9	644.3	652.3	646.3	626.2	609.1	600.6	592.1	600.6
60°	382.7	470.3	557.8	587.2	597.2	592.2	572.2	554.1	541.6	529.1	541.6
62.5°	342.2	419.7	497.3	527.2	541.2	538.2	518.2	500.0	487.5	475.0	487.5
65°	275.8	343.3	410.9	440.9	458.4	457.1	437.1	419.0	406.5	394.0	406.5
67.5°	216.1	274.2	332.2	361.7	381.7	380.7	358.7	339.7	329.7	319.7	329.7
70°	180.1	230.1	280.2	307.7	327.7	327.7	307.7	290.2	280.2	270.2	280.2
72.5°	157.6	195.6	233.6	259.7	281.7	281.7	259.7	241.1	233.1	225.1	233.1
75°	118.2	140.7	163.2	187.6	212.6	215.1	195.1	178.9	173.9	168.8	173.9
77.5°	85.6	96.1	106.6	125.7	147.7	150.2	133.2	119.9	117.9	115.9	117.9
80°	67.5	70.0	72.5	88.2	108.2	110.7	95.7	84.4	84.4	84.4	84.4
82.5°	45.0	47.5	50.0	61.2	75.2	76.7	65.7	56.9	54.9	52.9	54.9
85°	22.5	22.5	22.5	26.3	31.3	31.3	26.3	22.5	22.5	22.5	22.5
87.5°	4.9	5.4	6.0	8.0	10.4	10.5	8.5	7.2	7.3	7.3	7.3
90°	1.9	4.4	7.6	10.1	12.0	12.6	12.6	13.3	13.9	13.9	13.9
92.5°	7.0	11.0	11.1	11.1	13.5	14.7	15.7	15.8	16.4	16.4	16.4
95°	19.6	21.5	32.3	31.6	21.5	17.1	14.5	14.5	14.5	14.5	14.5
97.5°	37.4	40.2	42.0	56.3	59.4	57.4	46.8	39.3	35.2	33.3	35.2
100°	53.1	54.4	58.2	58.8	74.6	89.8	82.2	72.7	69.6	67.7	69.6
102.5°	68.8	69.6	75.4	78.0	81.7	90.3	116.6	113.7	111.6	111.2	111.6
105°	92.3	93.0	103.7	108.8	111.3	111.3	110.7	123.3	143.6	148.0	143.6
107.5°	117.5	120.4	133.1	146.6	149.5	150.3	147.0	145.1	144.3	144.8	144.3
110°	134.7	139.1	154.3	171.4	175.8	177.1	175.8	173.9	172.6	172.6	172.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	151.4	157.8	175.0	194.7	202.1	205.9	203.1	201.7	200.5	201.5	200.5
115°	177.1	186.6	209.3	229.6	244.7	246.6	246.0	246.0	245.4	245.4	245.4
117.5°	200.9	216.0	241.6	265.1	282.7	287.7	290.3	289.5	288.8	290.0	288.8
120°	217.5	235.3	264.3	290.9	308.0	315.6	318.1	316.8	318.1	316.8	318.1
122.5°	235.3	257.0	285.6	313.2	333.3	341.9	344.9	345.2	345.4	344.7	345.4
125°	261.8	288.4	321.9	350.4	371.2	381.3	383.9	384.5	385.8	388.9	385.8
127.5°	288.6	318.7	355.5	383.0	404.4	416.6	420.5	421.9	424.6	426.0	424.6
130°	307.3	341.5	378.8	404.7	425.6	438.9	445.8	447.7	450.9	450.3	450.9
132.5°	327.1	362.7	400.6	427.5	446.9	461.2	467.1	472.5	473.7	474.6	473.7
135°	356.0	394.6	432.6	459.1	477.5	491.4	499.0	504.0	507.2	509.1	507.2
137.5°	386.5	427.3	463.7	487.3	505.8	517.8	526.4	531.7	535.0	536.5	535.0
140°	407.3	446.5	481.9	506.6	523.0	535.0	542.6	548.9	552.7	552.7	552.7
142.5°	427.0	465.7	500.1	524.8	539.2	550.2	558.3	563.1	567.4	567.4	567.4
145°	454.7	493.3	524.9	549.6	561.6	571.7	580.5	584.3	586.9	586.9	586.9
147.5°	483.7	517.8	546.7	570.3	580.4	592.3	599.3	602.3	605.5	604.1	605.5
150°	500.9	532.5	560.3	582.4	592.6	603.9	610.9	613.4	616.6	614.7	616.6
152.5°	517.6	547.7	573.0	593.6	602.2	613.6	621.5	624.1	626.2	624.8	626.2
155°	540.1	566.6	590.0	609.0	616.6	627.3	634.9	638.1	640.6	637.5	640.6
157.5°	560.2	583.1	603.4	620.9	629.0	638.2	645.3	649.2	651.8	650.4	651.8
160°	572.3	593.2	611.5	628.0	635.6	643.8	651.4	655.8	658.3	656.4	658.3
162.5°	582.4	601.3	618.6	633.5	640.1	647.3	656.4	660.4	662.9	660.5	662.9
165°	597.0	612.2	627.3	640.0	645.7	651.4	660.9	665.3	667.2	664.7	667.2
167.5°	608.0	619.6	631.9	642.8	647.0	652.5	662.0	665.7	668.1	664.9	668.1
170°	614.1	624.2	634.9	643.8	647.0	652.0	661.5	664.7	666.6	663.4	666.6
172.5°	619.1	626.7	635.4	643.3	644.9	649.0	658.0	661.1	662.5	659.9	662.5
175°	624.2	628.6	634.9	640.0	639.4	641.9	649.5	652.0	654.5	650.7	654.5
177.5°	626.6	628.6	630.6	633.7	631.6	631.6	637.2	638.7	639.2	637.2	639.2
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1465.6	1465.6	1465.6	1465.6	1465.6	1463.1	1453.1	1443.1	1443.1	1443.1	1435.6
5°	1487.1	1484.0	1481.5	1477.7	1472.7	1464.6	1447.1	1429.6	1422.1	1414.6	1382.7
7.5°	1496.6	1492.6	1488.1	1482.1	1474.6	1463.1	1439.6	1416.1	1382.6	1349.0	1278.0
10°	1492.1	1489.6	1487.1	1482.1	1474.6	1462.1	1434.6	1407.1	1339.5	1272.0	1204.5
12.5°	1487.6	1485.1	1482.6	1476.6	1467.1	1452.6	1423.1	1393.6	1298.0	1202.5	1141.4
15°	1475.2	1470.9	1465.9	1459.6	1452.1	1436.5	1396.4	1356.4	1248.9	1141.3	1090.0
17.5°	1452.6	1448.7	1444.2	1437.0	1427.0	1407.3	1358.8	1310.3	1197.7	1085.1	1052.1
20°	1429.6	1427.7	1425.2	1419.0	1409.0	1388.3	1335.8	1283.3	1170.7	1058.1	1043.1
22.5°	1403.1	1402.2	1401.7	1396.4	1386.4	1364.3	1305.8	1247.2	1136.7	1026.1	1026.6
25°	1357.7	1358.3	1360.8	1354.5	1339.5	1311.4	1243.9	1176.3	1078.8	981.2	998.1
27.5°	1309.1	1307.3	1304.8	1298.5	1288.5	1259.7	1174.7	1089.6	1012.6	935.5	963.6
30°	1277.6	1275.7	1273.2	1267.0	1257.0	1225.7	1130.7	1035.6	970.6	905.5	938.1
32.5°	1241.6	1241.2	1240.7	1236.5	1228.5	1194.2	1081.1	968.1	921.0	874.0	908.0
35°	1186.9	1187.6	1187.6	1185.1	1180.1	1141.9	1004.3	866.8	846.7	826.7	866.8
37.5°	1125.0	1128.3	1131.8	1129.8	1122.3	1077.6	921.5	765.4	772.0	778.5	827.0
40°	1080.0	1086.3	1093.8	1093.8	1086.3	1038.1	868.0	697.9	720.4	742.9	795.5
42.5°	1035.0	1042.7	1052.2	1053.2	1045.7	998.1	830.0	661.9	686.4	710.9	765.4
45°	966.8	975.6	985.6	986.8	979.3	936.2	786.1	636.0	651.0	666.0	718.5
47.5°	886.9	899.4	914.4	915.7	903.2	860.8	728.7	596.6	607.6	618.6	672.4
50°	837.4	849.9	864.9	866.1	853.6	811.7	681.7	551.6	566.6	581.6	637.9
52.5°	778.8	792.8	809.9	813.1	802.6	764.2	642.1	520.1	529.1	538.1	598.9
55°	696.0	711.0	728.6	733.6	726.1	694.8	592.2	489.7	482.2	474.7	536.6
57.5°	609.1	626.2	646.3	652.3	644.3	613.9	516.3	418.7	412.2	405.7	472.8
60°	554.1	572.2	592.2	597.2	587.2	557.8	470.3	382.7	370.2	357.7	427.8
62.5°	500.0	518.2	538.2	541.2	527.2	497.3	419.7	342.2	333.7	325.2	393.2
65°	419.0	437.1	457.1	458.4	440.9	410.9	343.3	275.8	280.8	285.8	347.1
67.5°	339.7	358.7	380.7	381.7	361.7	332.2	274.2	216.1	232.6	249.1	304.3
70°	290.2	307.7	327.7	327.7	307.7	280.2	230.1	180.1	202.6	225.1	275.8
72.5°	241.1	259.7	281.7	281.7	259.7	233.6	195.6	157.6	180.1	202.6	244.3
75°	178.9	195.1	215.1	212.6	187.6	163.2	140.7	118.2	140.7	163.2	195.1
77.5°	119.9	133.2	150.2	147.7	125.7	106.6	96.1	85.6	104.1	122.6	144.8
80°	84.4	95.7	110.7	108.2	88.2	72.5	70.0	67.5	80.0	92.6	108.8
82.5°	56.9	65.7	76.7	75.2	61.2	50.0	47.5	45.0	55.5	66.0	77.3
85°	22.5	26.3	31.3	31.3	26.3	22.5	22.5	22.5	27.5	32.5	37.5
87.5°	7.2	8.5	10.5	10.4	8.0	6.0	5.4	4.9	7.4	9.9	11.3
90°	13.3	12.6	12.6	12.0	10.1	7.6	4.4	1.9	4.4	7.0	11.4
92.5°	15.8	15.7	14.7	13.5	11.1	11.1	11.0	7.0	12.0	17.1	24.5
95°	14.5	14.5	17.1	21.5	31.6	32.3	21.5	19.6	27.8	39.2	49.3
97.5°	39.3	46.8	57.4	59.4	56.3	42.0	40.2	37.4	51.0	62.2	78.5
100°	72.7	82.2	89.8	74.6	58.8	58.2	54.4	53.1	67.7	78.4	94.2
102.5°	113.7	116.6	90.3	81.7	78.0	75.4	69.6	68.8	83.4	98.1	111.4
105°	123.3	110.7	111.3	111.3	108.8	103.7	93.0	92.3	108.8	125.8	142.3
107.5°	145.1	147.0	150.3	149.5	146.6	133.1	120.4	117.5	132.3	152.8	170.9
110°	173.9	175.8	177.1	175.8	171.4	154.3	139.1	134.7	148.0	169.5	189.1



TEST NUMBER: P1435778

CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	201.7	203.1	205.9	202.1	194.7	175.0	157.8	151.4	164.7	186.7	206.8
115°	246.0	246.0	246.6	244.7	229.6	209.3	186.6	177.1	188.5	208.7	230.8
117.5°	289.5	290.3	287.7	282.7	265.1	241.6	216.0	200.9	209.8	231.2	254.0
120°	316.8	318.1	315.6	308.0	290.9	264.3	235.3	217.5	224.5	245.4	268.1
122.5°	345.2	344.9	341.9	333.3	313.2	285.6	257.0	235.3	238.2	257.5	279.8
125°	384.5	383.9	381.3	371.2	350.4	321.9	288.4	261.8	258.0	274.5	297.2
127.5°	421.9	420.5	416.6	404.4	383.0	355.5	318.7	288.6	280.2	290.5	311.4
130°	447.7	445.8	438.9	425.6	404.7	378.8	341.5	307.3	295.3	301.7	320.0
132.5°	472.5	467.1	461.2	446.9	427.5	400.6	362.7	327.1	310.5	313.3	327.6
135°	504.0	499.0	491.4	477.5	459.1	432.6	394.6	356.0	333.3	330.7	339.0
137.5°	531.7	526.4	517.8	505.8	487.3	463.7	427.3	386.5	357.8	349.3	352.5
140°	548.9	542.6	535.0	523.0	506.6	481.9	446.5	407.3	375.0	363.0	361.1
142.5°	563.1	558.3	550.2	539.2	524.8	500.1	465.7	427.0	392.7	377.2	372.7
145°	584.3	580.5	571.7	561.6	549.6	524.9	493.3	454.7	420.5	400.3	390.8
147.5°	602.3	599.3	592.3	580.4	570.3	546.7	517.8	483.7	448.6	423.6	411.3
150°	613.4	610.9	603.9	592.6	582.4	560.3	532.5	500.9	467.3	440.8	425.0
152.5°	624.1	621.5	613.6	602.2	593.6	573.0	547.7	517.6	483.5	457.0	440.7
155°	638.1	634.9	627.3	616.6	609.0	590.0	566.6	540.1	511.0	483.2	464.8
157.5°	649.2	645.3	638.2	629.0	620.9	603.4	583.1	560.2	534.8	508.2	489.5
160°	655.8	651.4	643.8	635.6	628.0	611.5	593.2	572.3	548.9	524.9	504.7
162.5°	660.4	656.4	647.3	640.1	633.5	618.6	601.3	582.4	561.6	540.6	521.9
165°	665.3	660.9	651.4	645.7	640.0	627.3	612.2	597.0	579.3	562.2	547.0
167.5°	665.7	662.0	652.5	647.0	642.8	631.9	619.6	608.0	594.2	580.8	568.2
170°	664.7	661.5	652.0	647.0	643.8	634.9	624.2	614.1	603.3	591.9	581.8
172.5°	661.1	658.0	649.0	644.9	643.3	635.4	626.7	619.1	609.9	601.5	593.4
175°	652.0	649.5	641.9	639.4	640.0	634.9	628.6	624.2	618.5	613.4	609.0
177.5°	638.7	637.2	631.6	631.6	633.7	630.6	628.6	626.6	624.1	622.5	621.0
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1435778

CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1425.6	1417.6	1411.6	1406.6	1404.6	1402.6	1404.6	1406.6	1411.6	1417.6	1425.6
5°	1342.7	1300.1	1255.1	1218.2	1205.7	1193.2	1205.7	1218.2	1255.1	1300.1	1342.7
7.5°	1194.5	1143.2	1124.2	1108.9	1104.9	1100.9	1104.9	1108.9	1124.2	1143.2	1194.5
10°	1136.9	1095.6	1080.6	1069.4	1069.4	1069.4	1069.4	1069.4	1080.6	1095.6	1136.9
12.5°	1091.9	1066.6	1065.6	1067.4	1077.4	1087.4	1077.4	1067.4	1065.6	1066.6	1091.9
15°	1057.5	1061.2	1101.3	1134.4	1146.9	1159.4	1146.9	1134.4	1101.3	1061.2	1057.5
17.5°	1045.6	1067.1	1116.7	1156.3	1166.3	1176.3	1166.3	1156.3	1116.7	1067.1	1045.6
20°	1060.6	1088.1	1125.7	1156.3	1166.3	1176.3	1166.3	1156.3	1125.7	1088.1	1060.6
22.5°	1064.1	1097.6	1127.2	1151.8	1161.8	1171.8	1161.8	1151.8	1127.2	1097.6	1064.1
25°	1053.1	1093.1	1118.2	1138.2	1143.2	1148.2	1143.2	1138.2	1118.2	1093.1	1053.1
27.5°	1026.6	1070.6	1095.6	1115.3	1118.8	1122.3	1118.8	1115.3	1095.6	1070.6	1026.6
30°	1003.1	1048.1	1073.1	1093.8	1101.3	1108.8	1101.3	1093.8	1073.1	1048.1	1003.1
32.5°	969.1	1015.1	1046.1	1069.8	1071.3	1072.8	1071.3	1069.8	1046.1	1015.1	969.1
35°	926.8	974.3	1009.3	1035.0	1032.5	1030.0	1032.5	1035.0	1009.3	974.3	926.8
37.5°	889.5	936.0	966.6	990.2	993.2	996.2	993.2	990.2	966.6	936.0	889.5
40°	858.0	905.5	938.1	963.7	968.7	973.7	968.7	963.7	938.1	905.5	858.0
42.5°	830.0	878.5	911.0	936.7	941.7	946.7	941.7	936.7	911.0	878.5	830.0
45°	783.6	833.6	868.6	895.5	898.0	900.5	898.0	895.5	868.6	833.6	783.6
47.5°	740.4	790.7	823.2	848.2	850.7	853.3	850.7	848.2	823.2	790.7	740.4
50°	707.9	759.2	791.7	816.7	819.2	821.7	819.2	816.7	791.7	759.2	707.9
52.5°	676.9	730.2	758.7	780.7	783.2	785.7	783.2	780.7	758.7	730.2	676.9
55°	621.6	677.9	705.4	726.1	726.1	726.1	726.1	705.4	677.9	621.6	621.6
57.5°	564.3	622.1	646.1	664.9	667.9	670.9	667.9	664.9	646.1	622.1	564.3
60°	525.3	584.1	604.1	620.4	625.4	630.4	625.4	620.4	604.1	584.1	525.3
62.5°	486.8	543.6	563.6	579.3	582.3	585.3	582.3	579.3	563.6	543.6	486.8
65°	427.1	477.2	497.2	512.8	515.3	517.8	515.3	512.8	497.2	477.2	427.1
67.5°	372.3	413.4	427.4	438.4	440.4	442.4	440.4	438.4	427.4	413.4	372.3
70°	335.8	370.8	380.8	388.4	388.4	388.4	388.4	380.8	370.8	335.8	335.8
72.5°	292.3	321.3	331.3	339.3	341.3	343.3	341.3	339.3	331.3	321.3	292.3
75°	230.1	251.4	258.9	265.2	267.7	270.2	267.7	265.2	258.9	251.4	230.1
77.5°	168.3	182.4	186.9	190.9	193.4	195.9	193.4	190.9	186.9	182.4	168.3
80°	126.3	136.3	138.8	141.3	143.8	146.3	143.8	141.3	138.8	136.3	126.3
82.5°	88.8	95.8	98.3	100.3	100.8	101.3	100.8	100.3	98.3	95.8	88.8
85°	42.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	42.5
87.5°	11.9	12.8	13.7	14.2	14.7	14.4	14.7	14.2	13.7	12.8	11.9
90°	14.5	19.0	23.4	25.9	28.5	27.2	28.5	25.9	23.4	19.0	14.5
92.5°	29.2	36.7	42.1	46.7	48.7	48.4	48.7	46.7	42.1	36.7	29.2
95°	58.8	67.7	76.5	82.8	86.6	85.4	86.6	82.8	76.5	67.7	58.8
97.5°	90.7	102.6	112.4	118.4	122.2	124.7	122.2	118.4	112.4	102.6	90.7
100°	111.9	123.3	134.7	141.7	148.0	150.5	148.0	141.7	134.7	123.3	111.9
102.5°	129.1	144.1	156.5	163.9	169.2	171.8	169.2	163.9	156.5	144.1	129.1
105°	157.5	173.3	186.6	196.0	201.7	203.6	201.7	196.0	186.6	173.3	157.5
107.5°	185.8	202.1	214.4	224.9	231.8	235.9	231.8	224.9	214.4	202.1	185.8
110°	208.1	221.3	234.6	244.1	251.1	253.6	251.1	244.1	234.6	221.3	208.1



TEST NUMBER: P1435778

CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	226.8	241.6	254.9	264.3	272.3	275.9	272.3	264.3	254.9	241.6	226.8
115°	253.0	272.6	284.6	293.4	299.1	302.3	299.1	293.4	284.6	272.6	253.0
117.5°	274.7	295.2	308.4	315.2	317.8	320.1	317.8	315.2	308.4	295.2	274.7
120°	288.4	307.3	322.5	331.4	334.5	335.8	334.5	331.4	322.5	307.3	288.4
122.5°	301.0	319.0	333.7	344.5	349.7	351.0	349.7	344.5	333.7	319.0	301.0
125°	318.7	335.8	351.0	361.7	367.4	370.6	367.4	361.7	351.0	335.8	318.7
127.5°	334.2	352.6	366.5	376.3	381.8	384.4	381.8	376.3	366.5	352.6	334.2
130°	342.8	361.7	375.6	386.4	391.5	394.0	391.5	386.4	375.6	361.7	342.8
132.5°	349.3	369.3	383.7	393.5	399.0	401.6	399.0	393.5	383.7	369.3	349.3
135°	357.3	378.2	393.4	402.8	407.9	410.4	407.9	402.8	393.4	378.2	357.3
137.5°	364.3	383.2	399.0	409.0	413.6	415.2	413.6	409.0	399.0	383.2	364.3
140°	369.3	385.8	401.6	411.1	416.1	416.8	416.1	411.1	401.6	385.8	369.3
142.5°	375.9	388.8	402.6	412.1	417.1	418.3	417.1	412.1	402.6	388.8	375.9
145°	387.7	395.3	404.7	413.6	418.0	419.3	418.0	413.6	404.7	395.3	387.7
147.5°	402.5	404.9	409.8	415.6	419.9	420.8	419.9	415.6	409.8	404.9	402.5
150°	413.6	413.0	414.9	418.7	422.4	421.8	422.4	418.7	414.9	413.0	413.6
152.5°	426.2	422.6	422.4	424.2	426.0	425.9	426.0	424.2	422.4	422.6	426.2
155°	447.7	440.8	437.0	435.7	435.7	435.1	435.7	435.7	437.0	440.8	447.7
157.5°	471.4	461.7	456.0	452.9	452.0	450.7	452.0	452.9	456.0	461.7	471.4
160°	487.6	476.8	471.1	466.1	464.2	462.3	464.2	466.1	471.1	476.8	487.6
162.5°	502.8	492.5	486.3	481.8	479.9	477.0	479.9	481.8	486.3	492.5	502.8
165°	527.4	516.7	509.7	505.9	503.4	500.9	503.4	505.9	509.7	516.7	527.4
167.5°	552.1	540.3	535.8	531.5	529.1	524.5	529.1	531.5	535.8	540.3	552.1
170°	567.3	556.5	554.0	550.2	545.8	540.7	545.8	550.2	554.0	556.5	567.3
172.5°	580.4	573.2	570.7	566.9	565.5	561.4	565.5	566.9	570.7	573.2	580.4
175°	599.5	593.8	593.8	593.2	591.3	587.5	591.3	593.2	593.8	593.8	599.5
177.5°	615.5	612.4	614.4	614.4	613.9	610.4	613.9	614.4	614.4	612.4	615.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1435778

CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1452.1	1452.1	1452.1	1452.1
2.5°	1435.6	1443.1	1443.1	1443.1
5°	1382.7	1414.6	1422.1	1429.6
7.5°	1278.0	1349.0	1382.6	1416.1
10°	1204.5	1272.0	1339.5	1407.1
12.5°	1141.4	1202.5	1298.0	1393.6
15°	1090.0	1141.3	1248.9	1356.4
17.5°	1052.1	1085.1	1197.7	1310.3
20°	1043.1	1058.1	1170.7	1283.3
22.5°	1026.6	1026.1	1136.7	1247.2
25°	998.1	981.2	1078.8	1176.3
27.5°	963.6	935.5	1012.6	1089.6
30°	938.1	905.5	970.6	1035.6
32.5°	908.0	874.0	921.0	968.1
35°	866.8	826.7	846.7	866.8
37.5°	827.0	778.5	772.0	765.4
40°	795.5	742.9	720.4	697.9
42.5°	765.4	710.9	686.4	661.9
45°	718.5	666.0	651.0	636.0
47.5°	672.4	618.6	607.6	596.6
50°	637.9	581.6	566.6	551.6
52.5°	598.9	538.1	529.1	520.1
55°	536.6	474.7	482.2	489.7
57.5°	472.8	405.7	412.2	418.7
60°	427.8	357.7	370.2	382.7
62.5°	393.2	325.2	333.7	342.2
65°	347.1	285.8	280.8	275.8
67.5°	304.3	249.1	232.6	216.1
70°	275.8	225.1	202.6	180.1
72.5°	244.3	202.6	180.1	157.6
75°	195.1	163.2	140.7	118.2
77.5°	144.8	122.6	104.1	85.6
80°	108.8	92.6	80.0	67.5
82.5°	77.3	66.0	55.5	45.0
85°	37.5	32.5	27.5	22.5
87.5°	11.3	9.9	7.4	4.9
90°	11.4	7.0	4.4	1.9
92.5°	24.5	17.1	12.0	7.0
95°	49.3	39.2	27.8	19.6
97.5°	78.5	62.2	51.0	37.4
100°	94.2	78.4	67.7	53.1
102.5°	111.4	98.1	83.4	68.8
105°	142.3	125.8	108.8	92.3
107.5°	170.9	152.8	132.3	117.5
110°	189.1	169.5	148.0	134.7

TEST NUMBER: P1435778

CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	206.8	186.7	164.7	151.4
115°	230.8	208.7	188.5	177.1
117.5°	254.0	231.2	209.8	200.9
120°	268.1	245.4	224.5	217.5
122.5°	279.8	257.5	238.2	235.3
125°	297.2	274.5	258.0	261.8
127.5°	311.4	290.5	280.2	288.6
130°	320.0	301.7	295.3	307.3
132.5°	327.6	313.3	310.5	327.1
135°	339.0	330.7	333.3	356.0
137.5°	352.5	349.3	357.8	386.5
140°	361.1	363.0	375.0	407.3
142.5°	372.7	377.2	392.7	427.0
145°	390.8	400.3	420.5	454.7
147.5°	411.3	423.6	448.6	483.7
150°	425.0	440.8	467.3	500.9
152.5°	440.7	457.0	483.5	517.6
155°	464.8	483.2	511.0	540.1
157.5°	489.5	508.2	534.8	560.2
160°	504.7	524.9	548.9	572.3
162.5°	521.9	540.6	561.6	582.4
165°	547.0	562.2	579.3	597.0
167.5°	568.2	580.8	594.2	608.0
170°	581.8	591.9	603.3	614.1
172.5°	593.4	601.5	609.9	619.1
175°	609.0	613.4	618.5	624.2
177.5°	621.0	622.5	624.1	626.6
180°	626.1	626.1	626.1	626.1



TEST NUMBER: P1435778  
 CATALOG NUMBER: SQ2W-FA-K-050U-100D-L930-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	18.73	19.76	19.53	20.58	21.60	19.93	20.96	20.73	21.78	22.80
	3H	19.83	20.75	20.65	21.59	22.63	21.18	22.11	22.00	22.94	23.99
	4H	20.19	21.06	21.02	21.90	22.96	21.58	22.45	22.41	23.29	24.35
	6H	20.36	21.16	21.21	22.01	23.08	21.75	22.55	22.60	23.40	24.47
	8H	20.40	21.16	21.25	22.03	23.10	21.78	22.54	22.63	23.41	24.48
	12H	20.40	21.13	21.26	21.99	23.09	21.77	22.50	22.63	23.36	24.46
4H	2H	19.62	20.49	20.45	21.33	22.39	20.53	21.40	21.37	22.24	23.30
	3H	21.02	21.75	21.87	22.62	23.69	22.01	22.74	22.86	23.61	24.68
	4H	21.48	22.14	22.35	23.02	24.11	22.49	23.15	23.36	24.03	25.13
	6H	21.72	22.29	22.60	23.19	24.29	22.73	23.29	23.60	24.19	25.29
	8H	21.78	22.32	22.66	23.21	24.32	22.78	23.31	23.66	24.20	25.32
	12H	21.79	22.27	22.69	23.18	24.30	22.77	23.25	23.68	24.16	25.29
8H	4H	21.88	22.41	22.76	23.30	24.42	22.70	23.23	23.58	24.13	25.24
	6H	22.24	22.68	23.15	23.61	24.73	23.02	23.46	23.93	24.40	25.51
	8H	22.36	22.75	23.28	23.67	24.81	23.12	23.51	24.04	24.44	25.57
	12H	22.40	22.74	23.32	23.66	24.85	23.14	23.49	24.07	24.40	25.59
12H	4H	21.89	22.37	22.79	23.28	24.40	22.68	23.16	23.58	24.07	25.19
	6H	22.31	22.70	23.23	23.63	24.76	23.04	23.43	23.96	24.36	25.49
	8H	22.46	22.81	23.38	23.72	24.91	23.16	23.51	24.09	24.43	25.61