

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: P1427716

Luminaire Tested: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427716  
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-050U-100D-L940-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 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

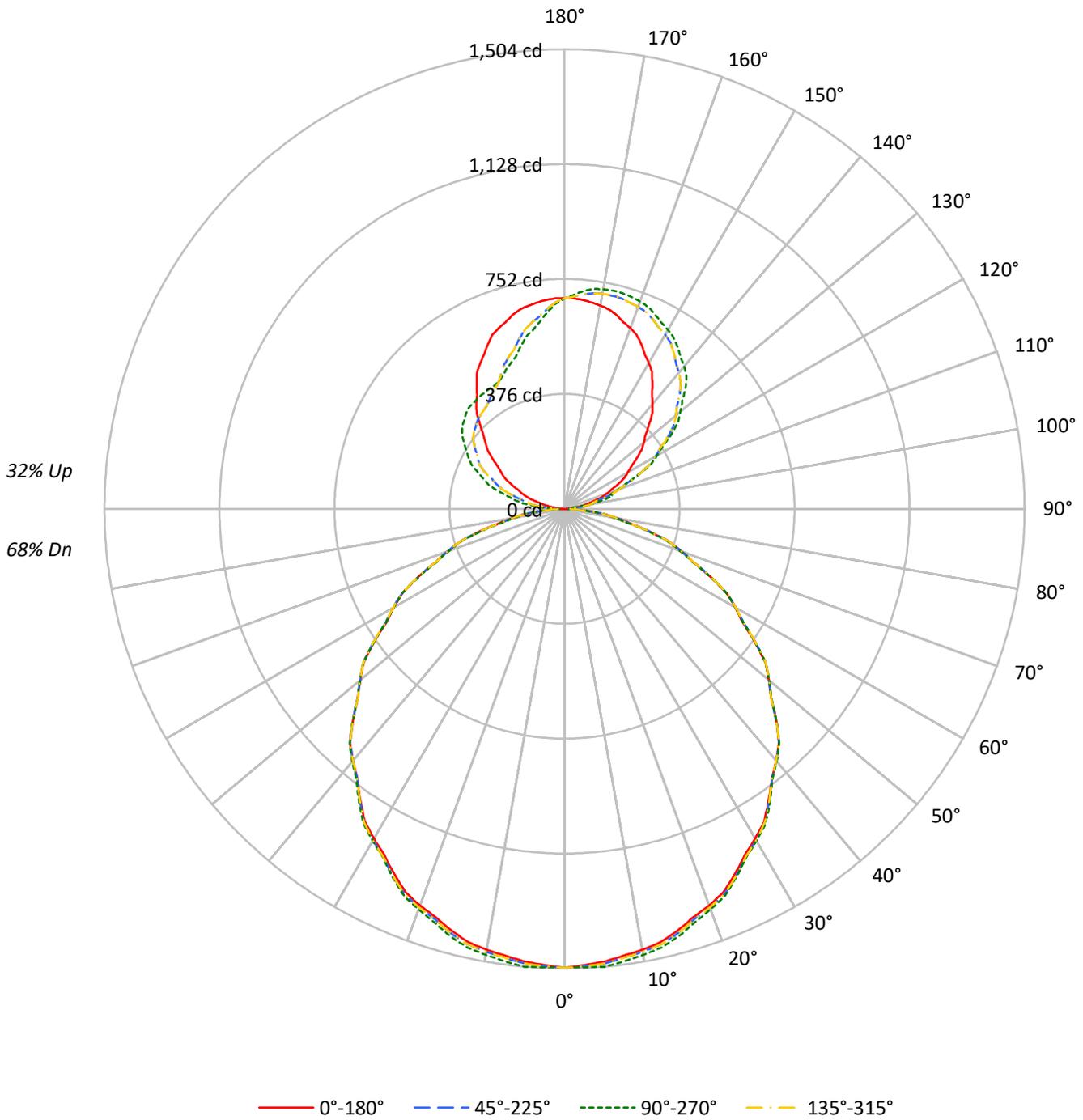
Lumens per Lamp: N/A  
Luminaire Lumens: 6240.6 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68				
1	102	97	93	89	96	92	88	85	82	79	76	72	70	68	64	62	61	57				
2	92	84	78	73	87	80	74	69	71	67	63	63	60	57	56	53	51	47				
3	84	74	66	60	79	70	63	58	63	57	53	56	51	48	49	46	43	40				
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34				
5	71	58	50	44	66	55	48	42	50	43	39	44	39	35	39	35	32	29				
6	65	52	44	38	61	50	42	36	45	38	34	40	35	31	36	31	28	26				
7	60	47	39	33	57	45	37	32	41	34	30	36	31	27	33	28	25	23				
8	56	43	35	29	53	41	34	28	37	31	26	33	28	24	30	26	22	20				
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	23	20	18				
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	26	21	18	16				

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

	0°	90°	180°	270°
0°	24251	24251	24251	24251
5°	24103	24377	24103	24377
10°	24018	24295	24018	24295
15°	23886	24187	23886	24187
20°	23735	23972	23735	23972
25°	23480	23686	23480	23686
30°	23231	23388	23231	23388
35°	22933	23079	22933	23079
40°	22672	22739	22672	22739
45°	22340	22340	22340	22340
50°	21893	21946	21893	21946
55°	21379	21407	21379	21407
60°	20802	20802	20802	20802
65°	20126	20045	20126	20045
70°	19175	18977	19175	18977
75°	17885	17486	17885	17486
80°	15937	15146	15937	15146
85°	12745	10782	12745	10782

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 22491 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	2.3
10°-20°	406.1	6.5
20°-30°	611.3	9.8
30°-40°	731.0	11.7
40°-50°	754.8	12.1
50°-60°	680.8	10.9
60°-70°	521.5	8.4
70°-80°	301.4	4.8
80°-90°	81.1	1.3
90°-100°	54.8	0.9
100°-110°	159.8	2.6
110°-120°	260.8	4.2
120°-130°	330.9	5.3
130°-140°	354.1	5.7
140°-150°	330.7	5.3
150°-160°	272.1	4.4
160°-170°	182.5	2.9
170°-180°	64.8	1.0
0°-30°	1159.5	18.6
0°-40°	1890.4	30.3
0°-60°	3326.1	53.3
0°-90°	4230.1	67.8
90°-120°	475.4	7.6
90°-150°	1491.1	23.9
90°-180°	2010.0	32.2
0°-180°	6240.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1502	1502	1502	1502	1502	
5°	1487	1504	1487	1504	1487	141
15°	1429	1447	1429	1447	1429	403
25°	1318	1330	1318	1330	1318	607
35°	1164	1171	1164	1171	1164	728
45°	978	978	978	978	978	754
55°	760	760	760	760	760	679
65°	527	525	527	525	527	521
75°	287	280	287	280	287	304
85°	69	58	69	58	69	80
90°	2	15	2	30	2	5
95°	22	16	22	94	22	26
105°	102	163	102	224	102	108
115°	195	270	195	332	195	192
125°	288	428	288	408	288	258
135°	392	560	392	451	392	303
145°	500	645	500	461	500	313
155°	594	701	594	478	594	273
165°	657	731	657	551	657	185
175°	686	716	686	646	686	65
180°	689	689	689	689	689	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1494.4	1501.6	1508.7	1505.7	1499.3	1496.9	1498.4	1499.7	1500.4	1501.2	1500.4
5°	1487.2	1496.6	1506.0	1502.7	1495.2	1491.9	1492.9	1494.7	1499.4	1504.1	1499.4
7.5°	1475.2	1484.6	1494.0	1491.0	1483.8	1480.8	1481.9	1484.0	1488.9	1493.8	1488.9
10°	1465.0	1474.4	1483.8	1480.5	1473.0	1470.2	1472.1	1474.4	1478.2	1481.9	1478.2
12.5°	1452.3	1461.7	1471.1	1468.4	1461.6	1458.8	1459.9	1461.8	1465.9	1470.1	1465.9
15°	1429.0	1438.4	1447.8	1445.3	1438.7	1436.1	1437.5	1439.5	1443.3	1447.0	1443.3
17.5°	1400.9	1409.7	1418.6	1416.2	1410.1	1407.8	1409.4	1411.5	1414.8	1418.0	1414.8
20°	1381.4	1389.9	1398.4	1395.9	1389.8	1387.0	1387.4	1388.6	1391.9	1395.2	1391.9
22.5°	1357.8	1366.2	1374.7	1372.5	1366.8	1363.4	1362.3	1362.6	1366.6	1370.7	1366.6
25°	1318.0	1326.4	1334.9	1333.1	1328.0	1324.7	1323.3	1323.0	1326.3	1329.6	1326.3
27.5°	1276.5	1283.6	1290.6	1289.1	1284.8	1282.2	1281.2	1281.1	1283.5	1285.8	1283.5
30°	1246.1	1253.1	1260.2	1258.4	1253.7	1250.9	1249.9	1249.8	1252.2	1254.5	1252.2
32.5°	1213.9	1220.6	1227.2	1224.8	1219.4	1216.6	1216.4	1216.9	1219.6	1222.4	1219.6
35°	1163.5	1169.2	1174.8	1172.4	1167.2	1164.8	1165.3	1166.2	1168.6	1170.9	1168.6
37.5°	1113.0	1117.3	1121.6	1119.1	1114.3	1111.9	1111.8	1112.2	1114.2	1116.2	1114.2
40°	1075.7	1080.5	1085.2	1082.4	1077.3	1074.5	1074.0	1074.2	1076.6	1078.9	1076.6
42.5°	1037.7	1041.2	1044.8	1042.4	1038.0	1035.9	1036.2	1036.7	1037.9	1039.2	1037.9
45°	978.4	981.7	985.0	982.7	978.4	976.3	976.3	976.6	977.5	978.4	977.5
47.5°	916.4	919.0	921.5	919.7	916.4	914.5	913.9	913.9	915.4	916.9	915.4
50°	871.6	874.9	878.2	876.5	873.2	871.1	870.2	870.0	871.8	873.7	871.8
52.5°	827.6	831.3	834.9	833.4	830.1	827.8	826.5	825.9	827.4	828.9	827.4
55°	759.5	763.7	767.9	766.9	764.1	761.7	759.8	758.7	759.6	760.5	759.6
57.5°	689.9	694.0	698.2	697.4	694.9	692.6	690.3	688.9	690.3	691.6	690.3
60°	644.2	647.9	651.7	650.5	647.7	645.4	643.5	642.3	643.2	644.2	643.2
62.5°	597.6	601.4	605.2	603.7	600.5	598.0	596.1	594.9	595.9	596.8	595.9
65°	526.8	530.1	533.3	532.1	529.2	526.9	525.0	523.7	524.2	524.7	524.2
67.5°	455.3	458.1	460.9	459.6	456.8	454.1	451.4	449.5	450.3	451.0	450.3
70°	406.2	409.0	411.8	410.8	408.4	406.1	403.7	402.0	402.0	402.0	402.0
72.5°	358.8	361.2	363.7	362.3	359.5	357.2	355.2	353.7	353.7	353.7	353.7
75°	286.7	288.1	289.5	288.8	287.4	285.5	283.1	281.2	280.8	280.3	280.8
77.5°	217.1	217.1	217.1	215.7	213.9	212.1	210.4	208.9	208.3	207.7	208.3
80°	171.4	171.4	171.4	170.3	168.9	167.5	166.1	164.8	163.8	162.9	163.8
82.5°	129.0	128.3	127.5	126.3	124.9	123.1	120.9	119.6	120.5	121.4	120.5
85°	68.8	67.8	66.9	65.6	64.2	62.5	60.6	59.1	58.6	58.2	58.6
87.5°	21.6	21.4	21.3	20.8	20.1	19.0	17.4	16.4	16.1	15.8	16.1
90°	2.1	4.9	8.3	11.1	13.2	13.9	13.9	14.6	15.3	15.3	15.3
92.5°	7.7	12.1	12.2	12.2	14.9	16.1	17.2	17.4	18.1	18.1	18.1
95°	21.6	23.6	35.5	34.8	23.6	18.8	16.0	16.0	16.0	16.0	16.0
97.5°	41.2	44.2	46.2	61.9	65.4	63.2	51.5	43.3	38.7	36.6	38.7
100°	58.4	59.8	64.0	64.7	82.1	98.8	90.4	80.0	76.5	74.4	76.5
102.5°	75.7	76.5	82.9	85.8	89.9	99.3	128.3	125.1	122.7	122.3	122.7
105°	101.5	102.2	114.1	119.6	122.4	122.4	121.7	135.6	157.9	162.7	157.9
107.5°	129.2	132.4	146.3	161.2	164.4	165.3	161.6	159.5	158.7	159.3	158.7
110°	148.1	153.0	169.7	188.5	193.4	194.7	193.4	191.3	189.9	189.9	189.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	166.5	173.6	192.5	214.1	222.3	226.5	223.4	221.9	220.5	221.6	220.5
115°	194.7	205.2	230.2	252.5	269.2	271.2	270.6	270.6	269.9	269.9	269.9
117.5°	220.9	237.6	265.7	291.6	310.9	316.5	319.2	318.4	317.6	319.0	317.6
120°	239.3	258.7	290.7	319.9	338.7	347.1	349.8	348.4	349.8	348.4	349.8
122.5°	258.7	282.7	314.1	344.4	366.5	376.0	379.3	379.6	379.9	379.1	379.9
125°	287.9	317.2	354.0	385.3	408.3	419.4	422.2	422.9	424.3	427.7	424.3
127.5°	317.4	350.5	391.0	421.2	444.7	458.2	462.5	464.0	467.0	468.5	467.0
130°	338.0	375.6	416.6	445.1	468.1	482.7	490.3	492.4	495.9	495.2	495.9
132.5°	359.7	398.9	440.5	470.2	491.4	507.2	513.7	519.7	520.9	521.9	520.9
135°	391.6	434.0	475.7	504.9	525.1	540.4	548.8	554.3	557.8	559.9	557.8
137.5°	425.1	469.9	509.9	536.0	556.3	569.5	578.9	584.8	588.4	590.1	588.4
140°	447.9	491.0	530.0	557.1	575.2	588.4	596.7	603.7	607.9	607.9	607.9
142.5°	469.6	512.2	550.0	577.1	593.0	605.1	614.0	619.3	624.0	624.0	624.0
145°	500.1	542.5	577.3	604.4	617.6	628.7	638.5	642.6	645.4	645.4	645.4
147.5°	531.9	569.5	601.2	627.2	638.3	651.4	659.1	662.4	665.9	664.3	665.9
150°	550.8	585.6	616.2	640.6	651.7	664.2	671.9	674.6	678.1	676.0	678.1
152.5°	569.2	602.3	630.1	652.8	662.3	674.8	683.5	686.3	688.7	687.2	688.7
155°	594.0	623.2	648.9	669.8	678.1	689.9	698.3	701.8	704.5	701.1	704.5
157.5°	616.1	641.3	663.7	682.8	691.8	701.9	709.7	714.0	716.8	715.3	716.8
160°	629.4	652.4	672.6	690.6	699.0	708.0	716.4	721.2	724.0	721.9	724.0
162.5°	640.6	661.3	680.3	696.8	704.0	711.9	721.9	726.2	729.0	726.4	729.0
165°	656.6	673.3	689.9	703.9	710.1	716.4	726.8	731.7	733.8	731.0	733.8
167.5°	668.7	681.5	695.0	706.9	711.5	717.6	728.1	732.1	734.7	731.3	734.7
170°	675.3	686.5	698.3	708.0	711.5	717.1	727.5	731.0	733.1	729.6	733.1
172.5°	680.9	689.2	698.8	707.5	709.3	713.7	723.6	727.1	728.6	725.7	728.6
175°	686.5	691.3	698.3	703.9	703.2	705.9	714.3	717.1	719.9	715.7	719.9
177.5°	689.1	691.3	693.6	696.9	694.7	694.7	700.8	702.5	703.0	700.8	703.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1499.7	1498.4	1496.9	1499.3	1505.7	1508.7	1501.6	1494.4	1501.6	1508.7	1505.7
5°	1494.7	1492.9	1491.9	1495.2	1502.7	1506.0	1496.6	1487.2	1496.6	1506.0	1502.7
7.5°	1484.0	1481.9	1480.8	1483.8	1491.0	1494.0	1484.6	1475.2	1484.6	1494.0	1491.0
10°	1474.4	1472.1	1470.2	1473.0	1480.5	1483.8	1474.4	1465.0	1474.4	1483.8	1480.5
12.5°	1461.8	1459.9	1458.8	1461.6	1468.4	1471.1	1461.7	1452.3	1461.7	1471.1	1468.4
15°	1439.5	1437.5	1436.1	1438.7	1445.3	1447.8	1438.4	1429.0	1438.4	1447.8	1445.3
17.5°	1411.5	1409.4	1407.8	1410.1	1416.2	1418.6	1409.7	1400.9	1409.7	1418.6	1416.2
20°	1388.6	1387.4	1387.0	1389.8	1395.9	1398.4	1389.9	1381.4	1389.9	1398.4	1395.9
22.5°	1362.6	1362.3	1363.4	1366.8	1372.5	1374.7	1366.2	1357.8	1366.2	1374.7	1372.5
25°	1323.0	1323.3	1324.7	1328.0	1333.1	1334.9	1326.4	1318.0	1326.4	1334.9	1333.1
27.5°	1281.1	1281.2	1282.2	1284.8	1289.1	1290.6	1283.6	1276.5	1283.6	1290.6	1289.1
30°	1249.8	1249.9	1250.9	1253.7	1258.4	1260.2	1253.1	1246.1	1253.1	1260.2	1258.4
32.5°	1216.9	1216.4	1216.6	1219.4	1224.8	1227.2	1220.6	1213.9	1220.6	1227.2	1224.8
35°	1166.2	1165.3	1164.8	1167.2	1172.4	1174.8	1169.2	1163.5	1169.2	1174.8	1172.4
37.5°	1112.2	1111.8	1111.9	1114.3	1119.1	1121.6	1117.3	1113.0	1117.3	1121.6	1119.1
40°	1074.2	1074.0	1074.5	1077.3	1082.4	1085.2	1080.5	1075.7	1080.5	1085.2	1082.4
42.5°	1036.7	1036.2	1035.9	1038.0	1042.4	1044.8	1041.2	1037.7	1041.2	1044.8	1042.4
45°	976.6	976.3	976.3	978.4	982.7	985.0	981.7	978.4	981.7	985.0	982.7
47.5°	913.9	913.9	914.5	916.4	919.7	921.5	919.0	916.4	919.0	921.5	919.7
50°	870.0	870.2	871.1	873.2	876.5	878.2	874.9	871.6	874.9	878.2	876.5
52.5°	825.9	826.5	827.8	830.1	833.4	834.9	831.3	827.6	831.3	834.9	833.4
55°	758.7	759.8	761.7	764.1	766.9	767.9	763.7	759.5	763.7	767.9	766.9
57.5°	688.9	690.3	692.6	694.9	697.4	698.2	694.0	689.9	694.0	698.2	697.4
60°	642.3	643.5	645.4	647.7	650.5	651.7	647.9	644.2	647.9	651.7	650.5
62.5°	594.9	596.1	598.0	600.5	603.7	605.2	601.4	597.6	601.4	605.2	603.7
65°	523.7	525.0	526.9	529.2	532.1	533.3	530.1	526.8	530.1	533.3	532.1
67.5°	449.5	451.4	454.1	456.8	459.6	460.9	458.1	455.3	458.1	460.9	459.6
70°	402.0	403.7	406.1	408.4	410.8	411.8	409.0	406.2	409.0	411.8	410.8
72.5°	353.7	355.2	357.2	359.5	362.3	363.7	361.2	358.8	361.2	363.7	362.3
75°	281.2	283.1	285.5	287.4	288.8	289.5	288.1	286.7	288.1	289.5	288.8
77.5°	208.9	210.4	212.1	213.9	215.7	217.1	217.1	217.1	217.1	217.1	215.7
80°	164.8	166.1	167.5	168.9	170.3	171.4	171.4	171.4	171.4	171.4	170.3
82.5°	119.6	120.9	123.1	124.9	126.3	127.5	128.3	129.0	128.3	127.5	126.3
85°	59.1	60.6	62.5	64.2	65.6	66.9	67.8	68.8	67.8	66.9	65.6
87.5°	16.4	17.4	19.0	20.1	20.8	21.3	21.4	21.6	21.4	21.2	21.1
90°	14.6	13.9	13.9	13.2	11.1	8.3	4.9	2.1	4.9	7.7	12.5
92.5°	17.4	17.2	16.1	14.9	12.2	12.2	12.1	7.7	13.2	18.8	27.0
95°	16.0	16.0	18.8	23.6	34.8	35.5	23.6	21.6	30.6	43.1	54.2
97.5°	43.3	51.5	63.2	65.4	61.9	46.2	44.2	41.2	56.1	68.4	86.4
100°	80.0	90.4	98.8	82.1	64.7	64.0	59.8	58.4	74.4	86.2	103.6
102.5°	125.1	128.3	99.3	89.9	85.8	82.9	76.5	75.7	91.7	107.9	122.5
105°	135.6	121.7	122.4	122.4	119.6	114.1	102.2	101.5	119.6	138.4	156.5
107.5°	159.5	161.6	165.3	164.4	161.2	146.3	132.4	129.2	145.5	168.0	187.9
110°	191.3	193.4	194.7	193.4	188.5	169.7	153.0	148.1	162.7	186.4	208.0



TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	221.9	223.4	226.5	222.3	214.1	192.5	173.6	166.5	181.1	205.3	227.4
115°	270.6	270.6	271.2	269.2	252.5	230.2	205.2	194.7	207.3	229.5	253.9
117.5°	318.4	319.2	316.5	310.9	291.6	265.7	237.6	220.9	230.8	254.3	279.3
120°	348.4	349.8	347.1	338.7	319.9	290.7	258.7	239.3	246.9	269.9	294.9
122.5°	379.6	379.3	376.0	366.5	344.4	314.1	282.7	258.7	261.9	283.2	307.7
125°	422.9	422.2	419.4	408.3	385.3	354.0	317.2	287.9	283.8	301.9	326.9
127.5°	464.0	462.5	458.2	444.7	421.2	391.0	350.5	317.4	308.1	319.5	342.5
130°	492.4	490.3	482.7	468.1	445.1	416.6	375.6	338.0	324.8	331.8	351.9
132.5°	519.7	513.7	507.2	491.4	470.2	440.5	398.9	359.7	341.5	344.6	360.3
135°	554.3	548.8	540.4	525.1	504.9	475.7	434.0	391.6	366.5	363.8	372.8
137.5°	584.8	578.9	569.5	556.3	536.0	509.9	469.9	425.1	393.5	384.2	387.7
140°	603.7	596.7	588.4	575.2	557.1	530.0	491.0	447.9	412.4	399.2	397.1
142.5°	619.3	614.0	605.1	593.0	577.1	550.0	512.2	469.6	431.9	414.8	409.9
145°	642.6	638.5	628.7	617.6	604.4	577.3	542.5	500.1	462.5	440.3	429.8
147.5°	662.4	659.1	651.4	638.3	627.2	601.2	569.5	531.9	493.4	465.9	452.4
150°	674.6	671.9	664.2	651.7	640.6	616.2	585.6	550.8	514.0	484.8	467.4
152.5°	686.3	683.5	674.8	662.3	652.8	630.1	602.3	569.2	531.8	502.6	484.6
155°	701.8	698.3	689.9	678.1	669.8	648.9	623.2	594.0	562.0	531.4	511.2
157.5°	714.0	709.7	701.9	691.8	682.8	663.7	641.3	616.1	588.1	558.9	538.3
160°	721.2	716.4	708.0	699.0	690.6	672.6	652.4	629.4	603.7	577.3	555.0
162.5°	726.2	721.9	711.9	704.0	696.8	680.3	661.3	640.6	617.6	594.5	573.9
165°	731.7	726.8	716.4	710.1	703.9	689.9	673.3	656.6	637.1	618.3	601.6
167.5°	732.1	728.1	717.6	711.5	706.9	695.0	681.5	668.7	653.5	638.8	624.8
170°	731.0	727.5	717.1	711.5	708.0	698.3	686.5	675.3	663.5	651.0	639.9
172.5°	727.1	723.6	713.7	709.3	707.5	698.8	689.2	680.9	670.7	661.6	652.7
175°	717.1	714.3	705.9	703.2	703.9	698.3	691.3	686.5	680.2	674.6	669.8
177.5°	702.5	700.8	694.7	694.7	696.9	693.6	691.3	689.1	686.3	684.7	683.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1499.3	1496.9	1498.4	1499.7	1500.4	1501.2	1500.4	1499.7	1498.4	1496.9	1499.3
5°	1495.2	1491.9	1492.9	1494.7	1499.4	1504.1	1499.4	1494.7	1492.9	1491.9	1495.2
7.5°	1483.8	1480.8	1481.9	1484.0	1488.9	1493.8	1488.9	1484.0	1481.9	1480.8	1483.8
10°	1473.0	1470.2	1472.1	1474.4	1478.2	1481.9	1478.2	1474.4	1472.1	1470.2	1473.0
12.5°	1461.6	1458.8	1459.9	1461.8	1465.9	1470.1	1465.9	1461.8	1459.9	1458.8	1461.6
15°	1438.7	1436.1	1437.5	1439.5	1443.3	1447.0	1443.3	1439.5	1437.5	1436.1	1438.7
17.5°	1410.1	1407.8	1409.4	1411.5	1414.8	1418.0	1414.8	1411.5	1409.4	1407.8	1410.1
20°	1389.8	1387.0	1387.4	1388.6	1391.9	1395.2	1391.9	1388.6	1387.4	1387.0	1389.8
22.5°	1366.8	1363.4	1362.3	1362.6	1366.6	1370.7	1366.6	1362.6	1362.3	1363.4	1366.8
25°	1328.0	1324.7	1323.3	1323.0	1326.3	1329.6	1326.3	1323.0	1323.3	1324.7	1328.0
27.5°	1284.8	1282.2	1281.2	1281.1	1283.5	1285.8	1283.5	1281.1	1281.2	1282.2	1284.8
30°	1253.7	1250.9	1249.9	1249.8	1252.2	1254.5	1252.2	1249.8	1249.9	1250.9	1253.7
32.5°	1219.4	1216.6	1216.4	1216.9	1219.6	1222.4	1219.6	1216.9	1216.4	1216.6	1219.4
35°	1167.2	1164.8	1165.3	1166.2	1168.6	1170.9	1168.6	1166.2	1165.3	1164.8	1167.2
37.5°	1114.3	1111.9	1111.8	1112.2	1114.2	1116.2	1114.2	1112.2	1111.8	1111.9	1114.3
40°	1077.3	1074.5	1074.0	1074.2	1076.6	1078.9	1076.6	1074.2	1074.0	1074.5	1077.3
42.5°	1038.0	1035.9	1036.2	1036.7	1037.9	1039.2	1037.9	1036.7	1036.2	1035.9	1038.0
45°	978.4	976.3	976.3	976.6	977.5	978.4	977.5	976.6	976.3	976.3	978.4
47.5°	916.4	914.5	913.9	913.9	915.4	916.9	915.4	913.9	913.9	914.5	916.4
50°	873.2	871.1	870.2	870.0	871.8	873.7	871.8	870.0	870.2	871.1	873.2
52.5°	830.1	827.8	826.5	825.9	827.4	828.9	827.4	825.9	826.5	827.8	830.1
55°	764.1	761.7	759.8	758.7	759.6	760.5	759.6	758.7	759.8	761.7	764.1
57.5°	694.9	692.6	690.3	688.9	690.3	691.6	690.3	688.9	690.3	692.6	694.9
60°	647.7	645.4	643.5	642.3	643.2	644.2	643.2	642.3	643.5	645.4	647.7
62.5°	600.5	598.0	596.1	594.9	595.9	596.8	595.9	594.9	596.1	598.0	600.5
65°	529.2	526.9	525.0	523.7	524.2	524.7	524.2	523.7	525.0	526.9	529.2
67.5°	456.8	454.1	451.4	449.5	450.3	451.0	450.3	449.5	451.4	454.1	456.8
70°	408.4	406.1	403.7	402.0	402.0	402.0	402.0	402.0	403.7	406.1	408.4
72.5°	359.5	357.2	355.2	353.7	353.7	353.7	353.7	353.7	355.2	357.2	359.5
75°	287.4	285.5	283.1	281.2	280.8	280.3	280.8	281.2	283.1	285.5	287.4
77.5°	213.9	212.1	210.4	208.9	208.3	207.7	208.3	208.9	210.4	212.1	213.9
80°	168.9	167.5	166.1	164.8	163.8	162.9	163.8	164.8	166.1	167.5	168.9
82.5°	124.9	123.1	120.9	119.6	120.5	121.4	120.5	119.6	120.9	123.1	124.9
85°	64.2	62.5	60.6	59.1	58.6	58.2	58.6	59.1	60.6	62.5	64.2
87.5°	20.7	20.3	19.8	19.1	19.3	18.7	19.3	19.1	19.8	20.3	20.7
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	25.7	20.9	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	46.3	40.3	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	84.2	74.4	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	123.7	112.8	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	148.1	135.6	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	172.1	158.4	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	205.2	190.6	173.2
107.5°	204.3	222.3	235.8	247.3	255.0	259.4	255.0	247.3	235.8	222.3	204.3
110°	228.8	243.4	258.0	268.5	276.1	278.9	276.1	268.5	258.0	243.4	228.8



TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	249.4	265.7	280.3	290.7	299.5	303.4	299.5	290.7	280.3	265.7	249.4
115°	278.2	299.8	313.0	322.7	329.0	332.5	329.0	322.7	313.0	299.8	278.2
117.5°	302.1	324.7	339.1	346.6	349.6	352.1	349.6	346.6	339.1	324.7	302.1
120°	317.2	338.0	354.7	364.4	367.9	369.3	367.9	364.4	354.7	338.0	317.2
122.5°	331.1	350.8	366.9	378.9	384.6	386.0	384.6	378.9	366.9	350.8	331.1
125°	350.5	369.3	386.0	397.8	404.1	407.6	404.1	397.8	386.0	369.3	350.5
127.5°	367.5	387.8	403.1	413.8	419.9	422.7	419.9	413.8	403.1	387.8	367.5
130°	377.0	397.8	413.1	425.0	430.5	433.3	430.5	425.0	413.1	397.8	377.0
132.5°	384.2	406.2	422.0	432.7	438.9	441.6	438.9	432.7	422.0	406.2	384.2
135°	393.0	415.9	432.6	443.0	448.6	451.4	448.6	443.0	432.6	415.9	393.0
137.5°	400.6	421.5	438.9	449.9	454.9	456.7	454.9	449.9	438.9	421.5	400.6
140°	406.2	424.3	441.6	452.1	457.6	458.3	457.6	452.1	441.6	424.3	406.2
142.5°	413.4	427.6	442.8	453.2	458.8	460.0	458.8	453.2	442.8	427.6	413.4
145°	426.3	434.7	445.1	454.9	459.7	461.1	459.7	454.9	445.1	434.7	426.3
147.5°	442.6	445.3	450.7	457.1	461.8	462.8	461.8	457.1	445.3	442.6	442.6
150°	454.9	454.2	456.3	460.4	464.6	463.9	464.6	460.4	456.3	454.2	454.9
152.5°	468.8	464.7	464.6	466.5	468.5	468.4	468.5	466.5	464.6	464.7	468.8
155°	492.4	484.8	480.6	479.2	479.2	478.5	479.2	479.2	480.6	484.8	492.4
157.5°	518.4	507.7	501.5	498.1	497.1	495.6	497.1	498.1	501.5	507.7	518.4
160°	536.2	524.4	518.2	512.6	510.5	508.4	510.5	512.6	518.2	524.4	536.2
162.5°	552.9	541.7	534.8	529.8	527.8	524.6	527.8	529.8	534.8	541.7	552.9
165°	580.1	568.2	560.6	556.4	553.6	550.8	553.6	556.4	560.6	568.2	580.1
167.5°	607.2	594.2	589.2	584.5	581.9	576.9	581.9	584.5	589.2	594.2	607.2
170°	623.9	612.0	609.3	605.1	600.2	594.7	600.2	605.1	609.3	612.0	623.9
172.5°	638.3	630.4	627.6	623.5	621.9	617.5	621.9	623.5	627.6	630.4	638.3
175°	659.3	653.1	653.1	652.4	650.3	646.1	650.3	652.4	653.1	653.1	659.3
177.5°	676.9	673.5	675.8	675.8	675.2	671.3	675.2	675.8	675.8	673.5	676.9
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1502.0	1502.0	1502.0	1502.0
2.5°	1505.7	1508.7	1501.6	1494.4
5°	1502.7	1506.0	1496.6	1487.2
7.5°	1491.0	1494.0	1484.6	1475.2
10°	1480.5	1483.8	1474.4	1465.0
12.5°	1468.4	1471.1	1461.7	1452.3
15°	1445.3	1447.8	1438.4	1429.0
17.5°	1416.2	1418.6	1409.7	1400.9
20°	1395.9	1398.4	1389.9	1381.4
22.5°	1372.5	1374.7	1366.2	1357.8
25°	1333.1	1334.9	1326.4	1318.0
27.5°	1289.1	1290.6	1283.6	1276.5
30°	1258.4	1260.2	1253.1	1246.1
32.5°	1224.8	1227.2	1220.6	1213.9
35°	1172.4	1174.8	1169.2	1163.5
37.5°	1119.1	1121.6	1117.3	1113.0
40°	1082.4	1085.2	1080.5	1075.7
42.5°	1042.4	1044.8	1041.2	1037.7
45°	982.7	985.0	981.7	978.4
47.5°	919.7	921.5	919.0	916.4
50°	876.5	878.2	874.9	871.6
52.5°	833.4	834.9	831.3	827.6
55°	766.9	767.9	763.7	759.5
57.5°	697.4	698.2	694.0	689.9
60°	650.5	651.7	647.9	644.2
62.5°	603.7	605.2	601.4	597.6
65°	532.1	533.3	530.1	526.8
67.5°	459.6	460.9	458.1	455.3
70°	410.8	411.8	409.0	406.2
72.5°	362.3	363.7	361.2	358.8
75°	288.8	289.5	288.1	286.7
77.5°	215.7	217.1	217.1	217.1
80°	170.3	171.4	171.4	171.4
82.5°	126.3	127.5	128.3	129.0
85°	65.6	66.9	67.8	68.8
87.5°	21.1	21.2	21.4	21.6
90°	12.5	7.7	4.9	2.1
92.5°	27.0	18.8	13.2	7.7
95°	54.2	43.1	30.6	21.6
97.5°	86.4	68.4	56.1	41.2
100°	103.6	86.2	74.4	58.4
102.5°	122.5	107.9	91.7	75.7
105°	156.5	138.4	119.6	101.5
107.5°	187.9	168.0	145.5	129.2
110°	208.0	186.4	162.7	148.1



TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	227.4	205.3	181.1	166.5
115°	253.9	229.5	207.3	194.7
117.5°	279.3	254.3	230.8	220.9
120°	294.9	269.9	246.9	239.3
122.5°	307.7	283.2	261.9	258.7
125°	326.9	301.9	283.8	287.9
127.5°	342.5	319.5	308.1	317.4
130°	351.9	331.8	324.8	338.0
132.5°	360.3	344.6	341.5	359.7
135°	372.8	363.8	366.5	391.6
137.5°	387.7	384.2	393.5	425.1
140°	397.1	399.2	412.4	447.9
142.5°	409.9	414.8	431.9	469.6
145°	429.8	440.3	462.5	500.1
147.5°	452.4	465.9	493.4	531.9
150°	467.4	484.8	514.0	550.8
152.5°	484.6	502.6	531.8	569.2
155°	511.2	531.4	562.0	594.0
157.5°	538.3	558.9	588.1	616.1
160°	555.0	577.3	603.7	629.4
162.5°	573.9	594.5	617.6	640.6
165°	601.6	618.3	637.1	656.6
167.5°	624.8	638.8	653.5	668.7
170°	639.9	651.0	663.5	675.3
172.5°	652.7	661.6	670.7	680.9
175°	669.8	674.6	680.2	686.5
177.5°	683.0	684.7	686.3	689.1
180°	688.6	688.6	688.6	688.6

TEST NUMBER: P1427716

CATALOG NUMBER: SQ2W-F-K-050U-100D-L940-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	20.43	21.50	21.22	22.31	23.30	20.35	21.41	21.13	22.22	23.21
	3H	22.24	23.19	23.04	24.01	25.03	22.13	23.09	22.93	23.91	24.93
	4H	22.94	23.85	23.76	24.67	25.71	22.83	23.73	23.64	24.56	25.59
	6H	23.39	24.23	24.22	25.06	26.11	23.25	24.08	24.08	24.92	25.96
	8H	23.56	24.35	24.39	25.21	26.25	23.40	24.20	24.24	25.05	26.10
	12H	23.65	24.41	24.49	25.25	26.33	23.47	24.23	24.31	25.08	26.15
4H	2H	21.04	21.94	21.86	22.77	23.80	20.97	21.87	21.79	22.70	23.73
	3H	23.08	23.83	23.91	24.69	25.74	22.98	23.74	23.81	24.60	25.65
	4H	23.90	24.59	24.74	25.45	26.52	23.79	24.48	24.63	25.34	26.41
	6H	24.46	25.06	25.32	25.94	27.02	24.32	24.92	25.18	25.80	26.88
	8H	24.68	25.24	25.55	26.12	27.21	24.52	25.08	25.39	25.96	27.05
	12H	24.81	25.31	25.69	26.21	27.31	24.62	25.12	25.50	26.02	27.12
8H	4H	24.16	24.72	25.02	25.60	26.69	24.06	24.62	24.93	25.50	26.59
	6H	24.86	25.32	25.75	26.24	27.33	24.73	25.19	25.62	26.11	27.20
	8H	25.16	25.58	26.07	26.49	27.60	25.01	25.42	25.91	26.33	27.44
	12H	25.36	25.72	26.26	26.62	27.79	25.17	25.53	26.07	26.43	27.59
12H	4H	24.16	24.67	25.05	25.57	26.66	24.07	24.57	24.96	25.47	26.57
	6H	24.91	25.32	25.81	26.23	27.34	24.78	25.20	25.69	26.11	27.22
	8H	25.25	25.62	26.16	26.52	27.68	25.10	25.46	26.01	26.37	27.53