

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: P1435939

Luminaire Tested: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435939  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

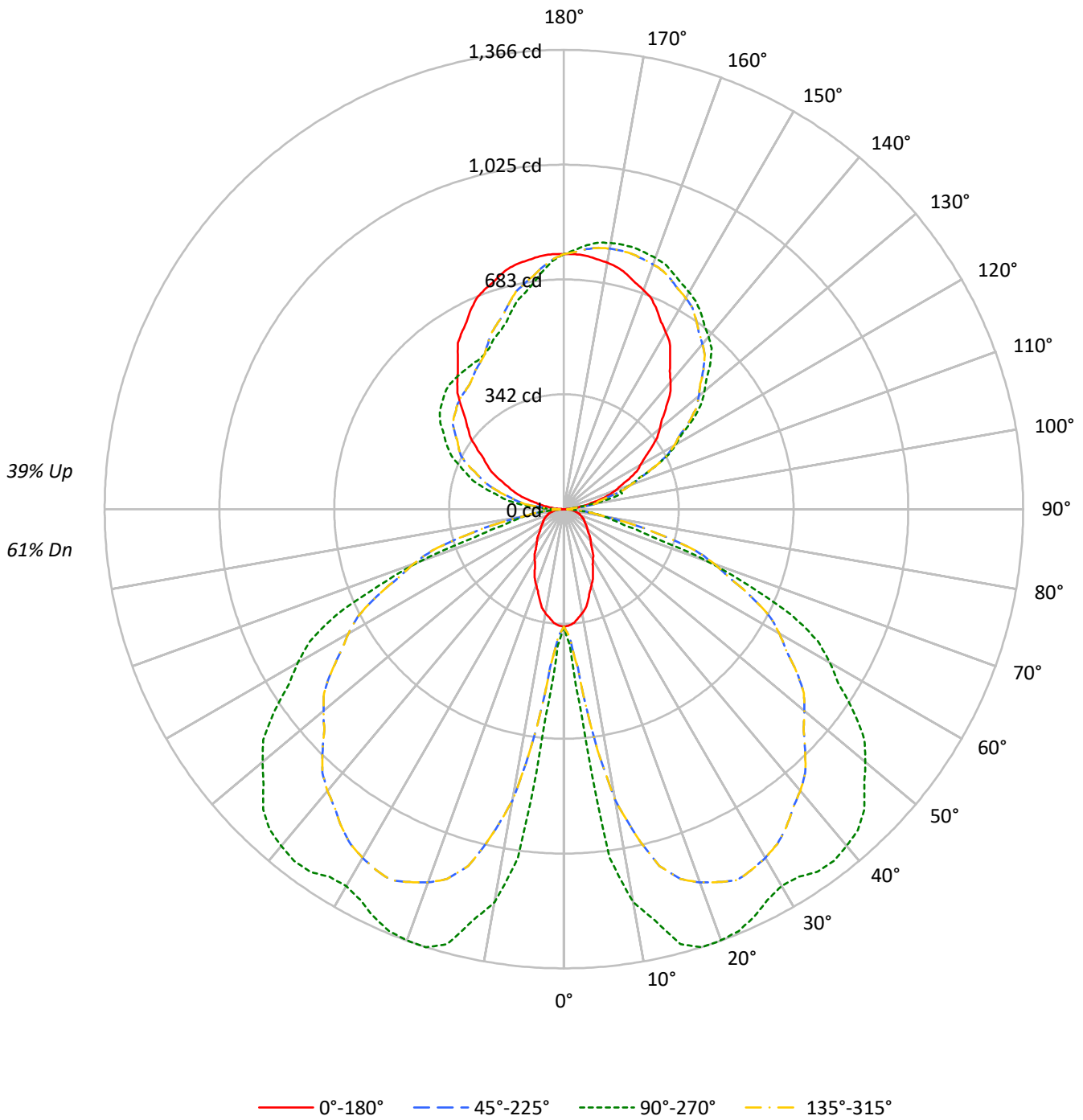
Lumens per Lamp: N/A  
Luminaire Lumens: 5671.9 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.6  
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-FB-K-050U-075D-L840-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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	91	88	93	89	86	83	78	76	73	68	66	64	58	57	55	51
2	91	83	76	71	85	78	72	67	68	64	60	59	56	53	51	48	46	42
3	82	72	65	58	77	68	61	55	59	54	50	52	47	44	44	41	38	35
4	75	64	55	49	70	60	52	46	52	46	42	46	41	37	39	36	33	29
5	69	56	48	41	64	53	45	39	46	40	36	40	36	32	35	31	28	25
6	63	50	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24	21
7	58	45	37	31	54	43	35	29	37	31	27	33	28	24	28	24	21	19
8	54	41	33	27	50	38	31	26	34	28	23	30	25	21	26	22	19	16
9	50	37	29	24	47	35	28	23	31	25	21	27	22	19	24	20	17	14
10	47	34	26	21	43	32	25	20	28	23	19	25	20	17	22	18	15	13

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

	0°	90°	180°	270°
0°	5646	5646	5646	5646
5°	5504	10000	5504	10000
10°	5154	19459	5154	19459
15°	4665	22397	4665	22397
20°	4130	23455	4130	23455
25°	3654	23840	3654	23840
30°	3229	24134	3229	24134
35°	2884	25946	2884	25946
40°	2622	27568	2622	27568
45°	2418	28866	2418	28866
50°	2281	29391	2281	29391
55°	2224	29624	2224	29624
60°	2280	29479	2280	29479
65°	2376	28645	2376	28645
70°	2459	21668	2459	21668
75°	2726	11959	2726	11959
80°	2817	11102	2817	11102
85°	2797	4668	2797	4668

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 29893 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	1.0
10°-20°	267.3	4.7
20°-30°	470.4	8.3
30°-40°	608.9	10.7
40°-50°	671.6	11.8
50°-60°	626.8	11.1
60°-70°	484.2	8.5
70°-80°	223.2	3.9
80°-90°	45.8	0.8
90°-100°	60.4	1.1
100°-110°	176.1	3.1
110°-120°	287.3	5.1
120°-130°	364.6	6.4
130°-140°	390.1	6.9
140°-150°	364.3	6.4
150°-160°	299.8	5.3
160°-170°	201.0	3.5
170°-180°	71.4	1.3
0°-30°	796.3	14.0
0°-40°	1405.2	24.8
0°-60°	2703.6	47.7
0°-90°	3456.8	60.9
90°-120°	523.8	9.2
90°-150°	1642.8	29.0
90°-180°	2215.0	39.1
0°-180°	5671.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	350	350	350	350	350	
5°	340	617	340	617	340	32
15°	279	1340	279	1340	279	78
25°	205	1338	205	1338	205	94
35°	146	1316	146	1316	146	92
45°	106	1264	106	1264	106	82
55°	79	1052	79	1052	79	71
65°	62	750	62	750	62	61
75°	44	192	44	192	44	45
85°	15	25	15	25	15	16
90°	2	17	2	33	2	3
95°	24	18	24	103	24	29
105°	112	179	112	247	112	119
115°	215	297	215	366	215	211
125°	317	471	317	449	317	284
135°	431	617	431	497	431	333
145°	551	711	551	508	551	345
155°	654	772	654	527	654	301
165°	723	805	723	607	723	204
175°	756	788	756	712	756	72
180°	759	759	759	759	759	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	347.0	353.6	360.1	367.2	374.3	382.1	390.5	397.7	401.2	404.8	401.2
5°	339.6	362.0	384.4	416.9	452.8	493.5	539.1	578.1	597.6	617.0	597.6
7.5°	326.5	372.1	417.6	514.2	627.8	745.7	867.9	969.3	1008.2	1047.0	1008.2
10°	314.4	377.9	441.4	605.2	802.5	954.2	1060.3	1145.1	1166.0	1186.9	1166.0
12.5°	300.9	387.2	473.4	675.6	916.5	1074.2	1148.6	1209.8	1231.3	1252.8	1231.3
15°	279.1	402.4	525.6	754.3	1018.0	1180.2	1240.7	1292.1	1316.0	1339.9	1316.0
17.5°	256.5	420.6	584.7	818.0	1074.2	1232.3	1292.3	1340.5	1353.5	1366.5	1353.5
20°	240.4	433.2	626.0	859.6	1107.0	1256.4	1308.0	1348.7	1356.9	1365.1	1356.9
22.5°	225.6	441.1	656.6	890.6	1130.7	1270.3	1309.3	1340.8	1349.6	1358.4	1349.6
25°	205.1	447.9	690.8	924.1	1154.2	1281.6	1306.3	1326.3	1332.2	1338.2	1332.2
27.5°	185.3	441.9	698.4	928.8	1150.4	1269.3	1285.4	1299.0	1304.8	1310.7	1304.8
30°	173.2	433.9	694.7	923.0	1140.4	1255.1	1267.1	1278.1	1286.3	1294.5	1286.3
32.5°	162.4	424.4	686.3	911.8	1125.0	1237.3	1248.7	1261.6	1279.4	1297.2	1279.4
35°	146.3	404.0	661.8	884.9	1096.3	1211.0	1228.9	1250.6	1283.5	1316.4	1283.5
37.5°	132.5	378.0	623.5	844.3	1056.8	1181.8	1219.3	1255.4	1287.0	1318.7	1287.0
40°	124.4	359.8	595.1	814.3	1028.0	1159.8	1209.9	1254.2	1281.1	1308.0	1281.1
42.5°	116.3	339.2	562.0	779.3	994.8	1131.7	1190.2	1240.7	1267.6	1294.5	1267.6
45°	105.9	306.2	506.4	721.8	942.2	1086.8	1155.5	1213.4	1238.8	1264.2	1238.8
47.5°	96.2	270.1	444.1	660.4	890.8	1042.5	1115.4	1174.7	1193.3	1211.8	1193.3
50°	90.8	246.2	401.6	618.7	856.3	1011.0	1082.7	1140.2	1155.2	1170.1	1155.2
52.5°	85.4	222.9	360.4	577.9	822.1	977.9	1045.5	1099.6	1113.3	1127.1	1113.3
55°	79.0	191.1	303.2	518.4	767.9	922.2	981.3	1028.5	1040.5	1052.4	1040.5
57.5°	73.3	163.7	254.1	462.5	710.3	859.4	909.7	949.9	959.7	969.4	959.7
60°	70.6	149.1	227.5	427.6	668.2	811.3	856.8	893.5	903.2	912.9	903.2
62.5°	66.6	134.9	203.2	392.6	622.4	758.4	800.4	834.1	843.2	852.4	843.2
65°	62.2	117.5	172.8	343.5	552.7	674.9	710.0	737.9	743.8	749.8	743.8
67.5°	56.2	103.1	150.0	298.6	481.0	583.2	605.0	618.6	607.4	596.1	607.4
70°	52.1	95.5	138.8	271.2	433.4	518.2	525.6	523.2	491.1	459.0	491.1
72.5°	49.4	88.0	126.5	241.2	381.2	443.0	426.6	399.0	338.2	277.4	338.2
75°	43.7	75.1	106.5	192.8	297.4	313.8	242.1	188.7	190.2	191.7	190.2
77.5°	35.6	59.1	82.6	135.6	198.5	211.0	173.0	144.9	146.3	147.6	146.3
80°	30.3	48.9	67.6	88.5	110.2	120.3	118.8	117.9	118.6	119.4	118.6
82.5°	24.9	38.8	52.7	65.2	77.3	84.1	85.6	86.5	85.4	84.4	85.4
85°	15.1	23.3	31.6	36.4	40.2	39.0	33.1	28.2	26.7	25.2	26.7
87.5°	5.8	9.4	13.2	12.8	10.8	9.8	9.8	9.9	10.1	10.1	10.1
90°	2.3	5.4	9.2	12.3	14.6	15.3	15.3	16.1	16.9	16.9	16.9
92.5°	8.4	13.3	13.5	13.5	16.4	17.8	19.0	19.2	19.9	19.9	19.9
95°	23.8	26.1	39.1	38.3	26.1	20.7	17.6	17.6	17.6	17.6	17.6
97.5°	45.4	48.7	50.9	68.2	72.0	69.6	56.7	47.7	42.6	40.3	42.6
100°	64.4	65.9	70.5	71.3	90.4	108.8	99.6	88.1	84.3	82.0	84.3
102.5°	83.4	84.3	91.3	94.6	99.0	109.4	141.3	137.8	135.2	134.7	135.2
105°	111.9	112.6	125.7	131.8	134.9	134.9	134.1	149.4	173.9	179.3	173.9
107.5°	142.4	145.9	161.2	177.6	181.1	182.1	178.1	175.8	174.9	175.5	174.9
110°	163.2	168.6	187.0	207.7	213.0	214.6	213.0	210.7	209.2	209.2	209.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	183.4	191.3	212.1	235.9	244.9	249.5	246.1	244.4	242.9	244.1	242.9
115°	214.6	226.1	253.6	278.2	296.6	298.8	298.1	298.1	297.3	297.3	297.3
117.5°	243.4	261.8	292.7	321.2	342.5	348.7	351.7	350.8	349.9	351.4	349.9
120°	263.6	285.1	320.3	352.5	373.2	382.4	385.4	383.9	385.4	383.9	385.4
122.5°	285.1	311.4	346.1	379.5	403.8	414.3	417.9	418.2	418.5	417.6	418.5
125°	317.2	349.4	390.0	424.5	449.8	462.1	465.1	465.9	467.4	471.3	467.4
127.5°	349.7	386.2	430.8	464.1	490.0	504.8	509.6	511.3	514.5	516.2	514.5
130°	372.4	413.8	459.0	490.4	515.7	531.8	540.2	542.5	546.4	545.6	546.4
132.5°	396.3	439.5	485.4	518.0	541.5	558.8	566.0	572.6	573.9	575.0	573.9
135°	431.4	478.2	524.1	556.3	578.5	595.4	604.6	610.7	614.6	616.9	614.6
137.5°	468.4	517.7	561.8	590.5	612.9	627.4	637.9	644.3	648.3	650.1	648.3
140°	493.5	541.0	583.9	613.8	633.7	648.3	657.5	665.1	669.7	669.7	669.7
142.5°	517.4	564.3	606.0	635.9	653.3	666.7	676.5	682.3	687.5	687.5	687.5
145°	551.0	597.7	636.0	665.9	680.5	692.7	703.4	708.0	711.1	711.1	711.1
147.5°	586.1	627.4	662.4	691.0	703.3	717.7	726.1	729.8	733.6	732.0	733.6
150°	606.9	645.2	678.9	705.7	718.0	731.8	740.2	743.3	747.1	744.8	747.1
152.5°	627.1	663.6	694.2	719.2	729.7	743.4	753.1	756.2	758.8	757.1	758.8
155°	654.4	686.6	714.9	737.9	747.1	760.1	769.3	773.2	776.2	772.4	776.2
157.5°	678.8	706.5	731.2	752.3	762.1	773.3	781.9	786.7	789.7	788.0	789.7
160°	693.5	718.8	741.0	760.9	770.1	780.1	789.3	794.6	797.7	795.4	797.7
162.5°	705.7	728.6	749.6	767.7	775.6	784.4	795.4	800.1	803.2	800.3	803.2
165°	723.4	741.8	760.1	775.5	782.4	789.3	800.8	806.1	808.4	805.4	808.4
167.5°	736.7	750.8	765.7	778.8	783.9	790.6	802.1	806.6	809.5	805.7	809.5
170°	744.1	756.3	769.3	780.1	783.9	790.0	801.5	805.4	807.7	803.8	807.7
172.5°	750.2	759.4	770.0	779.5	781.5	786.4	797.2	801.1	802.8	799.5	802.8
175°	756.3	761.7	769.3	775.5	774.7	777.8	787.0	790.0	793.1	788.5	793.1
177.5°	759.2	761.7	764.1	767.8	765.4	765.4	772.1	773.9	774.6	772.1	774.6
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	397.7	390.5	382.1	374.3	367.2	360.1	353.6	347.0	353.6	360.1	367.2
5°	578.1	539.1	493.5	452.8	416.9	384.4	362.0	339.6	362.0	384.4	416.9
7.5°	969.3	867.9	745.7	627.8	514.2	417.6	372.1	326.5	372.1	417.6	514.2
10°	1145.1	1060.3	954.2	802.5	605.2	441.4	377.9	314.4	377.9	441.4	605.2
12.5°	1209.8	1148.6	1074.2	916.5	675.6	473.4	387.2	300.9	387.2	473.4	675.6
15°	1292.1	1240.7	1180.2	1018.0	754.3	525.6	402.4	279.1	402.4	525.6	754.3
17.5°	1340.5	1292.3	1232.3	1074.2	818.0	584.7	420.6	256.5	420.6	584.7	818.0
20°	1348.7	1308.0	1256.4	1107.0	859.6	626.0	433.2	240.4	433.2	626.0	859.6
22.5°	1340.8	1309.3	1270.3	1130.7	890.6	656.6	441.1	225.6	441.1	656.6	890.6
25°	1326.3	1306.3	1281.6	1154.2	924.1	690.8	447.9	205.1	447.9	690.8	924.1
27.5°	1299.0	1285.4	1269.3	1150.4	928.8	698.4	441.9	185.3	441.9	698.4	928.8
30°	1278.1	1267.1	1255.1	1140.4	923.0	694.7	433.9	173.2	433.9	694.7	923.0
32.5°	1261.6	1248.7	1237.3	1125.0	911.8	686.3	424.4	162.4	424.4	686.3	911.8
35°	1250.6	1228.9	1211.0	1096.3	884.9	661.8	404.0	146.3	404.0	661.8	884.9
37.5°	1255.4	1219.3	1181.8	1056.8	844.3	623.5	378.0	132.5	378.0	623.5	844.3
40°	1254.2	1209.9	1159.8	1028.0	814.3	595.1	359.8	124.4	359.8	595.1	814.3
42.5°	1240.7	1190.2	1131.7	994.8	779.3	562.0	339.2	116.3	339.2	562.0	779.3
45°	1213.4	1155.5	1086.8	942.2	721.8	506.4	306.2	105.9	306.2	506.4	721.8
47.5°	1174.7	1115.4	1042.5	890.8	660.4	444.1	270.1	96.2	270.1	444.1	660.4
50°	1140.2	1082.7	1011.0	856.3	618.7	401.6	246.2	90.8	246.2	401.6	618.7
52.5°	1099.6	1045.5	977.9	822.1	577.9	360.4	222.9	85.4	222.9	360.4	577.9
55°	1028.5	981.3	922.2	767.9	518.4	303.2	191.1	79.0	191.1	303.2	518.4
57.5°	949.9	909.7	859.4	710.3	462.5	254.1	163.7	73.3	163.7	254.1	462.5
60°	893.5	856.8	811.3	668.2	427.6	227.5	149.1	70.6	149.1	227.5	427.6
62.5°	834.1	800.4	758.4	622.4	392.6	203.2	134.9	66.6	134.9	203.2	392.6
65°	737.9	710.0	674.9	552.7	343.5	172.8	117.5	62.2	117.5	172.8	343.5
67.5°	618.6	605.0	583.2	481.0	298.6	150.0	103.1	56.2	103.1	150.0	298.6
70°	523.2	525.6	518.2	433.4	271.2	138.8	95.5	52.1	95.5	138.8	271.2
72.5°	399.0	426.6	443.0	381.2	241.2	126.5	88.0	49.4	88.0	126.5	241.2
75°	188.7	242.1	313.8	297.4	192.8	106.5	75.1	43.7	75.1	106.5	192.8
77.5°	144.9	173.0	211.0	198.5	135.6	82.6	59.1	35.6	59.1	82.6	135.6
80°	117.9	118.8	120.3	110.2	88.5	67.6	48.9	30.3	48.9	67.6	88.5
82.5°	86.5	85.6	84.1	77.3	65.2	52.7	38.8	24.9	38.8	52.7	65.2
85°	28.2	33.1	39.0	40.2	36.4	31.6	23.3	15.1	23.3	31.6	36.4
87.5°	9.9	9.8	9.8	10.8	12.8	13.2	9.4	5.8	9.4	13.0	13.1
90°	16.1	15.3	15.3	14.6	12.3	9.2	5.4	2.3	5.4	8.4	13.8
92.5°	19.2	19.0	17.8	16.4	13.5	13.5	13.3	8.4	14.6	20.7	29.7
95°	17.6	17.6	20.7	26.1	38.3	39.1	26.1	23.8	33.7	47.5	59.8
97.5°	47.7	56.7	69.6	72.0	68.2	50.9	48.7	45.4	61.8	75.4	95.2
100°	88.1	99.6	108.8	90.4	71.3	70.5	65.9	64.4	82.0	95.0	114.2
102.5°	137.8	141.3	109.4	99.0	94.6	91.3	84.3	83.4	101.0	118.9	135.0
105°	149.4	134.1	134.9	134.9	131.8	125.7	112.6	111.9	131.8	152.5	172.4
107.5°	175.8	178.1	182.1	181.1	177.6	161.2	145.9	142.4	160.3	185.1	207.0
110°	210.7	213.0	214.6	213.0	207.7	187.0	168.6	163.2	179.3	205.4	229.1



TEST NUMBER: P1435939

CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	244.4	246.1	249.5	244.9	235.9	212.1	191.3	183.4	199.5	226.2	250.6
115°	298.1	298.1	298.8	296.6	278.2	253.6	226.1	214.6	228.4	252.9	279.7
117.5°	350.8	351.7	348.7	342.5	321.2	292.7	261.8	243.4	254.3	280.2	307.7
120°	383.9	385.4	382.4	373.2	352.5	320.3	285.1	263.6	272.0	297.3	324.9
122.5°	418.2	417.9	414.3	403.8	379.5	346.1	311.4	285.1	288.6	312.0	339.0
125°	465.9	465.1	462.1	449.8	424.5	390.0	349.4	317.2	312.6	332.6	360.2
127.5°	511.3	509.6	504.8	490.0	464.1	430.8	386.2	349.7	339.5	352.0	377.3
130°	542.5	540.2	531.8	515.7	490.4	459.0	413.8	372.4	357.9	365.5	387.7
132.5°	572.6	566.0	558.8	541.5	518.0	485.4	439.5	396.3	376.2	379.6	396.9
135°	610.7	604.6	595.4	578.5	556.3	524.1	478.2	431.4	403.8	400.8	410.7
137.5°	644.3	637.9	627.4	612.9	590.5	561.8	517.7	468.4	433.6	423.3	427.1
140°	665.1	657.5	648.3	633.7	613.8	583.9	541.0	493.5	454.4	439.8	437.5
142.5°	682.3	676.5	666.7	653.3	635.9	606.0	564.3	517.4	475.9	457.0	451.6
145°	708.0	703.4	692.7	680.5	665.9	636.0	597.7	551.0	509.6	485.1	473.6
147.5°	729.8	726.1	717.7	703.3	691.0	662.4	627.4	586.1	543.6	513.3	498.4
150°	743.3	740.2	731.8	718.0	705.7	678.9	645.2	606.9	566.3	534.1	514.9
152.5°	756.2	753.1	743.4	729.7	719.2	694.2	663.6	627.1	585.9	553.7	533.9
155°	773.2	769.3	760.1	747.1	737.9	714.9	686.6	654.4	619.2	585.4	563.2
157.5°	786.7	781.9	773.3	762.1	752.3	731.2	706.5	678.8	648.0	615.8	593.1
160°	794.6	789.3	780.1	770.1	760.9	741.0	718.8	693.5	665.1	636.0	611.5
162.5°	800.1	795.4	784.4	775.6	767.7	749.6	728.6	705.7	680.5	655.0	632.3
165°	806.1	800.8	789.3	782.4	775.5	760.1	741.8	723.4	701.9	681.2	662.8
167.5°	806.6	802.1	790.6	783.9	778.8	765.7	750.8	736.7	720.0	703.8	688.4
170°	805.4	801.5	790.0	783.9	780.1	769.3	756.3	744.1	731.0	717.2	705.0
172.5°	801.1	797.2	786.4	781.5	779.5	770.0	759.4	750.2	739.0	728.9	719.1
175°	790.0	787.0	777.8	774.7	775.5	769.3	761.7	756.3	749.4	743.3	737.9
177.5°	773.9	772.1	765.4	765.4	767.8	764.1	761.7	759.2	756.2	754.3	752.5
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6

TEST NUMBER: P1435939

CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	374.3	382.1	390.5	397.7	401.2	404.8	401.2	397.7	390.5	382.1	374.3
5°	452.8	493.5	539.1	578.1	597.6	617.0	597.6	578.1	539.1	493.5	452.8
7.5°	627.8	745.7	867.9	969.3	1008.2	1047.0	1008.2	969.3	867.9	745.7	627.8
10°	802.5	954.2	1060.3	1145.1	1166.0	1186.9	1166.0	1145.1	1060.3	954.2	802.5
12.5°	916.5	1074.2	1148.6	1209.8	1231.3	1252.8	1231.3	1209.8	1148.6	1074.2	916.5
15°	1018.0	1180.2	1240.7	1292.1	1316.0	1339.9	1316.0	1292.1	1240.7	1180.2	1018.0
17.5°	1074.2	1232.3	1292.3	1340.5	1353.5	1366.5	1353.5	1340.5	1292.3	1232.3	1074.2
20°	1107.0	1256.4	1308.0	1348.7	1356.9	1365.1	1356.9	1348.7	1308.0	1256.4	1107.0
22.5°	1130.7	1270.3	1309.3	1340.8	1349.6	1358.4	1349.6	1340.8	1309.3	1270.3	1130.7
25°	1154.2	1281.6	1306.3	1326.3	1332.2	1338.2	1332.2	1326.3	1306.3	1281.6	1154.2
27.5°	1150.4	1269.3	1285.4	1299.0	1304.8	1310.7	1304.8	1299.0	1285.4	1269.3	1150.4
30°	1140.4	1255.1	1267.1	1278.1	1286.3	1294.5	1286.3	1278.1	1267.1	1255.1	1140.4
32.5°	1125.0	1237.3	1248.7	1261.6	1279.4	1297.2	1279.4	1261.6	1248.7	1237.3	1125.0
35°	1096.3	1211.0	1228.9	1250.6	1283.5	1316.4	1283.5	1250.6	1228.9	1211.0	1096.3
37.5°	1056.8	1181.8	1219.3	1255.4	1287.0	1318.7	1287.0	1255.4	1219.3	1181.8	1056.8
40°	1028.0	1159.8	1209.9	1254.2	1281.1	1308.0	1281.1	1254.2	1209.9	1159.8	1028.0
42.5°	994.8	1131.7	1190.2	1240.7	1267.6	1294.5	1267.6	1240.7	1190.2	1131.7	994.8
45°	942.2	1086.8	1155.5	1213.4	1238.8	1264.2	1238.8	1213.4	1155.5	1086.8	942.2
47.5°	890.8	1042.5	1115.4	1174.7	1193.3	1211.8	1193.3	1174.7	1115.4	1042.5	890.8
50°	856.3	1011.0	1082.7	1140.2	1155.2	1170.1	1155.2	1140.2	1082.7	1011.0	856.3
52.5°	822.1	977.9	1045.5	1099.6	1113.3	1127.1	1113.3	1099.6	1045.5	977.9	822.1
55°	767.9	922.2	981.3	1028.5	1040.5	1052.4	1040.5	1028.5	981.3	922.2	767.9
57.5°	710.3	859.4	909.7	949.9	959.7	969.4	959.7	949.9	909.7	859.4	710.3
60°	668.2	811.3	856.8	893.5	903.2	912.9	903.2	893.5	856.8	811.3	668.2
62.5°	622.4	758.4	800.4	834.1	843.2	852.4	843.2	834.1	800.4	758.4	622.4
65°	552.7	674.9	710.0	737.9	743.8	749.8	743.8	737.9	710.0	674.9	552.7
67.5°	481.0	583.2	605.0	618.6	607.4	596.1	607.4	618.6	605.0	583.2	481.0
70°	433.4	518.2	525.6	523.2	491.1	459.0	491.1	523.2	525.6	518.2	433.4
72.5°	381.2	443.0	426.6	399.0	338.2	277.4	338.2	399.0	426.6	443.0	381.2
75°	297.4	313.8	242.1	188.7	190.2	191.7	190.2	188.7	242.1	313.8	297.4
77.5°	198.5	211.0	173.0	144.9	146.3	147.6	146.3	144.9	173.0	211.0	198.5
80°	110.2	120.3	118.8	117.9	118.6	119.4	118.6	117.9	118.8	120.3	110.2
82.5°	77.3	84.1	85.6	86.5	85.4	84.4	85.4	86.5	85.6	84.1	77.3
85°	40.2	39.0	33.1	28.2	26.7	25.2	26.7	28.2	33.1	39.0	40.2
87.5°	11.4	11.3	12.4	13.0	13.6	13.3	13.6	13.0	12.4	11.3	11.4
90°	17.6	23.0	28.4	31.4	34.5	33.0	34.5	31.4	28.4	23.0	17.6
92.5°	35.4	44.4	51.0	56.6	59.0	58.7	59.0	56.6	51.0	44.4	35.4
95°	71.3	82.0	92.7	100.4	105.0	103.4	105.0	100.4	92.7	82.0	71.3
97.5°	109.9	124.3	136.2	143.4	148.0	151.1	148.0	143.4	136.2	124.3	109.9
100°	135.6	149.4	163.2	171.6	179.3	182.4	179.3	171.6	163.2	149.4	135.6
102.5°	156.5	174.6	189.6	198.6	205.1	208.1	205.1	198.6	189.6	174.6	156.5
105°	190.8	210.0	226.1	237.5	244.4	246.7	244.4	237.5	226.1	210.0	190.8
107.5°	225.1	244.9	259.8	272.5	280.9	285.8	280.9	272.5	259.8	244.9	225.1
110°	252.1	268.2	284.3	295.8	304.2	307.3	304.2	295.8	284.3	268.2	252.1



TEST NUMBER: P1435939

CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	274.8	292.7	308.8	320.3	330.0	334.3	330.0	320.3	308.8	292.7	274.8
115°	306.5	330.3	344.8	355.6	362.5	366.3	362.5	355.6	344.8	330.3	306.5
117.5°	332.9	357.7	373.6	381.9	385.1	387.9	385.1	381.9	373.6	357.7	332.9
120°	349.4	372.4	390.8	401.5	405.4	406.9	405.4	401.5	390.8	372.4	349.4
122.5°	364.7	386.5	404.3	417.5	423.8	425.3	423.8	417.5	404.3	386.5	364.7
125°	386.2	406.9	425.3	438.3	445.2	449.0	445.2	438.3	425.3	406.9	386.2
127.5°	404.9	427.3	444.1	455.9	462.7	465.7	462.7	455.9	444.1	427.3	404.9
130°	415.3	438.3	455.2	468.2	474.3	477.4	474.3	468.2	455.2	438.3	415.3
132.5°	423.3	447.5	465.0	476.8	483.5	486.6	483.5	476.8	465.0	447.5	423.3
135°	432.9	458.2	476.6	488.1	494.3	497.3	494.3	488.1	476.6	458.2	432.9
137.5°	441.4	464.4	483.5	495.6	501.1	503.1	501.1	495.6	483.5	464.4	441.4
140°	447.5	467.4	486.6	498.1	504.2	505.0	504.2	498.1	486.6	467.4	447.5
142.5°	455.5	471.1	487.8	499.3	505.4	506.8	505.4	499.3	487.8	471.1	455.5
145°	469.7	478.9	490.4	501.1	506.5	508.0	506.5	501.1	490.4	478.9	469.7
147.5°	487.7	490.6	496.5	503.6	508.8	509.9	508.8	503.6	496.5	490.6	487.7
150°	501.1	500.4	502.7	507.3	511.9	511.1	511.9	507.3	502.7	500.4	501.1
152.5°	516.5	512.0	511.9	514.0	516.2	516.0	516.2	514.0	511.9	512.0	516.5
155°	542.5	534.1	529.5	528.0	528.0	527.2	528.0	528.0	529.5	534.1	542.5
157.5°	571.2	559.4	552.5	548.8	547.7	546.1	547.7	548.8	552.5	559.4	571.2
160°	590.8	577.8	570.9	564.7	562.4	560.2	562.4	564.7	570.9	577.8	590.8
162.5°	609.2	596.8	589.3	583.8	581.5	577.9	581.5	583.8	589.3	596.8	609.2
165°	639.1	626.1	617.6	613.0	610.0	606.9	610.0	613.0	617.6	626.1	639.1
167.5°	669.0	654.7	649.2	644.0	641.1	635.6	641.1	644.0	649.2	654.7	669.0
170°	687.4	674.3	671.3	666.7	661.3	655.2	661.3	666.7	671.3	674.3	687.4
172.5°	703.3	694.6	691.5	686.9	685.2	680.3	685.2	686.9	691.5	694.6	703.3
175°	726.4	719.5	719.5	718.8	716.5	711.9	716.5	718.8	719.5	719.5	726.4
177.5°	745.7	742.1	744.5	744.5	743.9	739.6	743.9	744.5	744.5	742.1	745.7
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1435939

CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	349.7	349.7	349.7	349.7
2.5°	367.2	360.1	353.6	347.0
5°	416.9	384.4	362.0	339.6
7.5°	514.2	417.6	372.1	326.5
10°	605.2	441.4	377.9	314.4
12.5°	675.6	473.4	387.2	300.9
15°	754.3	525.6	402.4	279.1
17.5°	818.0	584.7	420.6	256.5
20°	859.6	626.0	433.2	240.4
22.5°	890.6	656.6	441.1	225.6
25°	924.1	690.8	447.9	205.1
27.5°	928.8	698.4	441.9	185.3
30°	923.0	694.7	433.9	173.2
32.5°	911.8	686.3	424.4	162.4
35°	884.9	661.8	404.0	146.3
37.5°	844.3	623.5	378.0	132.5
40°	814.3	595.1	359.8	124.4
42.5°	779.3	562.0	339.2	116.3
45°	721.8	506.4	306.2	105.9
47.5°	660.4	444.1	270.1	96.2
50°	618.7	401.6	246.2	90.8
52.5°	577.9	360.4	222.9	85.4
55°	518.4	303.2	191.1	79.0
57.5°	462.5	254.1	163.7	73.3
60°	427.6	227.5	149.1	70.6
62.5°	392.6	203.2	134.9	66.6
65°	343.5	172.8	117.5	62.2
67.5°	298.6	150.0	103.1	56.2
70°	271.2	138.8	95.5	52.1
72.5°	241.2	126.5	88.0	49.4
75°	192.8	106.5	75.1	43.7
77.5°	135.6	82.6	59.1	35.6
80°	88.5	67.6	48.9	30.3
82.5°	65.2	52.7	38.8	24.9
85°	36.4	31.6	23.3	15.1
87.5°	13.1	13.0	9.4	5.8
90°	13.8	8.4	5.4	2.3
92.5°	29.7	20.7	14.6	8.4
95°	59.8	47.5	33.7	23.8
97.5°	95.2	75.4	61.8	45.4
100°	114.2	95.0	82.0	64.4
102.5°	135.0	118.9	101.0	83.4
105°	172.4	152.5	131.8	111.9
107.5°	207.0	185.1	160.3	142.4
110°	229.1	205.4	179.3	163.2

TEST NUMBER: P1435939

CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	250.6	226.2	199.5	183.4
115°	279.7	252.9	228.4	214.6
117.5°	307.7	280.2	254.3	243.4
120°	324.9	297.3	272.0	263.6
122.5°	339.0	312.0	288.6	285.1
125°	360.2	332.6	312.6	317.2
127.5°	377.3	352.0	339.5	349.7
130°	387.7	365.5	357.9	372.4
132.5°	396.9	379.6	376.2	396.3
135°	410.7	400.8	403.8	431.4
137.5°	427.1	423.3	433.6	468.4
140°	437.5	439.8	454.4	493.5
142.5°	451.6	457.0	475.9	517.4
145°	473.6	485.1	509.6	551.0
147.5°	498.4	513.3	543.6	586.1
150°	514.9	534.1	566.3	606.9
152.5°	533.9	553.7	585.9	627.1
155°	563.2	585.4	619.2	654.4
157.5°	593.1	615.8	648.0	678.8
160°	611.5	636.0	665.1	693.5
162.5°	632.3	655.0	680.5	705.7
165°	662.8	681.2	701.9	723.4
167.5°	688.4	703.8	720.0	736.7
170°	705.0	717.2	731.0	744.1
172.5°	719.1	728.9	739.0	750.2
175°	737.9	743.3	749.4	756.3
177.5°	752.5	754.3	756.2	759.2
180°	758.6	758.6	758.6	758.6



TEST NUMBER: P1435939  
 CATALOG NUMBER: SQ2W-FB-K-050U-075D-L840-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	13.13	14.13	13.98	15.01	16.12	22.73	23.73	23.58	24.61	25.71
	3H	14.08	14.98	14.95	15.87	17.00	24.35	25.25	25.21	26.13	27.26
	4H	14.49	15.34	15.37	16.23	17.37	24.53	25.38	25.41	26.27	27.41
	6H	14.75	15.53	15.64	16.43	17.59	24.61	25.40	25.50	26.30	27.45
	8H	14.85	15.59	15.75	16.51	17.66	24.63	25.38	25.53	26.30	27.45
	12H	14.90	15.61	15.81	16.52	17.70	24.62	25.33	25.52	26.24	27.42
4H	2H	17.87	18.72	18.75	19.61	20.75	23.11	23.96	24.00	24.86	26.00
	3H	19.01	19.72	19.91	20.65	21.80	25.01	25.72	25.91	26.65	27.80
	4H	19.30	19.95	20.21	20.87	22.05	25.24	25.89	26.15	26.81	27.99
	6H	19.44	20.00	20.37	20.95	22.13	25.38	25.94	26.30	26.89	28.07
	8H	19.49	20.01	20.41	20.95	22.14	25.43	25.95	26.36	26.89	28.09
	12H	19.50	19.97	20.44	20.92	22.13	25.42	25.89	26.37	26.85	28.05
8H	4H	20.51	21.03	21.43	21.97	23.16	25.34	25.87	26.27	26.81	28.00
	6H	20.77	21.20	21.72	22.18	23.38	25.55	25.98	26.50	26.96	28.16
	8H	20.87	21.25	21.83	22.22	23.43	25.64	26.02	26.60	26.99	28.21
	12H	20.92	21.25	21.89	22.22	23.48	25.65	25.99	26.62	26.95	28.21
12H	4H	20.54	21.01	21.48	21.96	23.17	25.30	25.77	26.25	26.73	27.93
	6H	20.88	21.26	21.84	22.23	23.44	25.53	25.91	26.50	26.89	28.10
	8H	21.02	21.36	21.99	22.32	23.58	25.64	25.98	26.61	26.94	28.20