

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: P1435957

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435957  
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-075U-050D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

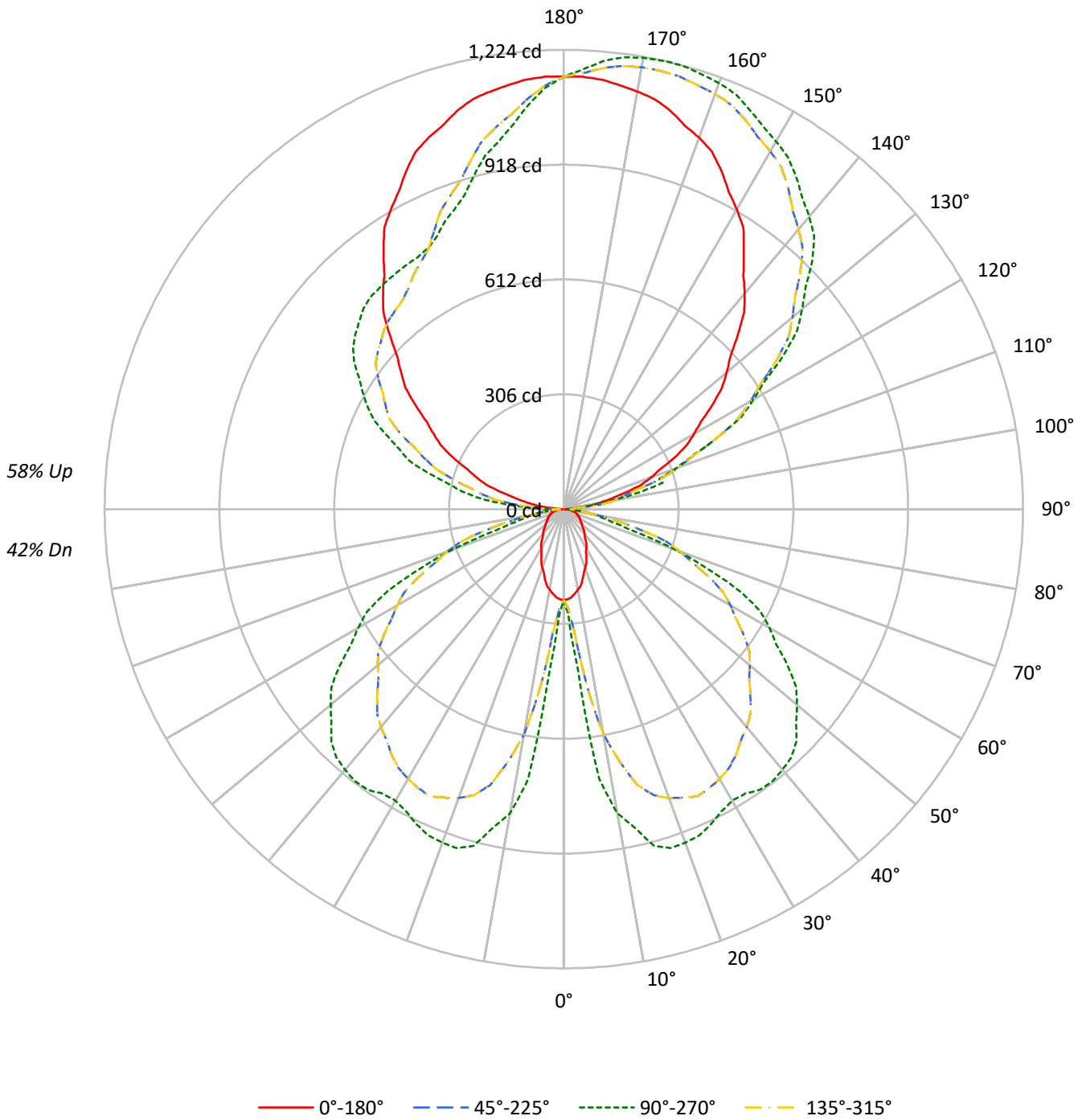
Lumens per Lamp: N/A  
Luminaire Lumens: 5764.1 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.4  
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

TEST NUMBER: P1435957

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1435957

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

**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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	91	87	84	87	83	80	77	69	66	64	55	53	52	43	41	41	35
2	87	79	73	68	79	73	67	63	60	56	53	48	45	43	37	35	34	29
3	79	69	62	56	72	64	57	52	52	48	44	42	39	36	32	30	28	24
4	72	61	53	47	65	56	49	44	46	41	37	37	33	30	29	26	24	20
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	20	17
6	60	48	40	34	55	44	37	32	37	31	27	30	25	22	23	20	18	15
7	56	43	35	30	50	40	33	28	33	27	23	27	23	19	21	18	15	13
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14	11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11	9

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

	0°	90°	180°	270°
0°	3914	3914	3914	3914
5°	3815	6932	3815	6932
10°	3572	13489	3572	13489
15°	3234	15525	3234	15525
20°	2864	16259	2864	16259
25°	2533	16527	2533	16527
30°	2237	16730	2237	16730
35°	1999	17985	1999	17985
40°	1817	19110	1817	19110
45°	1676	20011	1676	20011
50°	1580	20373	1580	20373
55°	1543	20535	1543	20535
60°	1579	20434	1579	20434
65°	1647	19858	1647	19858
70°	1704	15021	1704	15021
75°	1890	8291	1890	8291
80°	1953	7689	1953	7689
85°	1945	3242	1945	3242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 20722 cd/sqm

TEST NUMBER: P1435957

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.6	0.7
10°-20°	185.3	3.2
20°-30°	326.1	5.7
30°-40°	422.1	7.3
40°-50°	465.5	8.1
50°-60°	434.5	7.5
60°-70°	335.7	5.8
70°-80°	154.7	2.7
80°-90°	34.4	0.6
90°-100°	91.7	1.6
100°-110°	267.5	4.6
110°-120°	436.5	7.6
120°-130°	553.9	9.6
130°-140°	592.7	10.3
140°-150°	553.5	9.6
150°-160°	455.4	7.9
160°-170°	305.4	5.3
170°-180°	108.5	1.9
0°-30°	552.0	9.6
0°-40°	974.1	16.9
0°-60°	1874.1	32.5
0°-90°	2398.9	41.6
90°-120°	795.8	13.8
90°-150°	2495.9	43.3
90°-180°	3365.0	58.4
0°-180°	5764.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	242	242	242	242	242	
5°	235	428	235	428	235	22
15°	194	929	194	929	194	54
25°	142	928	142	928	142	65
35°	101	912	101	912	101	64
45°	73	876	73	876	73	57
55°	55	730	55	730	55	49
65°	43	520	43	520	43	42
75°	30	133	30	133	30	31
85°	10	18	10	18	10	11
90°	4	26	4	50	4	3
95°	36	27	36	157	36	44
105°	170	272	170	375	170	181
115°	326	452	326	556	326	321
125°	482	716	482	682	482	431
135°	655	937	655	756	655	506
145°	837	1080	837	772	837	524
155°	994	1174	994	801	994	457
165°	1099	1224	1099	922	1099	309
175°	1149	1198	1149	1082	1149	109
180°	1153	1153	1153	1153	1153	



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	240.5	245.1	249.7	254.5	259.5	264.9	270.7	275.7	278.1	280.6	278.1
5°	235.4	251.0	266.5	289.0	313.9	342.1	373.7	400.8	414.2	427.7	414.2
7.5°	226.3	257.9	289.5	356.5	435.2	516.9	601.7	671.9	698.9	725.8	698.9
10°	217.9	262.0	306.0	419.5	556.3	661.4	735.0	793.8	808.3	822.8	808.3
12.5°	208.6	268.4	328.2	468.3	635.3	744.6	796.2	838.6	853.5	868.5	853.5
15°	193.5	278.9	364.4	522.9	705.7	818.1	860.1	895.7	912.3	928.8	912.3
17.5°	177.8	291.6	405.3	567.0	744.7	854.3	895.8	929.2	938.2	947.2	938.2
20°	166.7	300.3	433.9	595.9	767.4	870.9	906.7	934.9	940.6	946.3	940.6
22.5°	156.4	305.8	455.2	617.4	783.8	880.6	907.6	929.4	935.5	941.7	935.5
25°	142.2	310.5	478.9	640.6	800.1	888.4	905.5	919.4	923.5	927.7	923.5
27.5°	128.4	306.3	484.2	643.9	797.5	879.9	891.1	900.5	904.5	908.6	904.5
30°	120.0	300.8	481.6	639.8	790.5	870.0	878.3	886.0	891.7	897.4	891.7
32.5°	112.6	294.2	475.8	632.0	779.9	857.7	865.6	874.6	886.9	899.2	886.9
35°	101.4	280.1	458.8	613.4	760.0	839.5	851.9	866.9	889.7	912.5	889.7
37.5°	91.8	262.0	432.2	585.3	732.6	819.2	845.2	870.2	892.2	914.1	892.2
40°	86.2	249.4	412.6	564.4	712.6	804.0	838.7	869.4	888.0	906.7	888.0
42.5°	80.6	235.1	389.6	540.2	689.6	784.5	825.0	860.1	878.7	897.4	878.7
45°	73.4	212.2	351.0	500.3	653.1	753.4	801.0	841.2	858.8	876.4	858.8
47.5°	66.7	187.2	307.8	457.8	617.5	722.7	773.2	814.3	827.2	840.0	827.2
50°	62.9	170.7	278.4	428.9	593.6	700.8	750.5	790.4	800.8	811.1	800.8
52.5°	59.2	154.5	249.8	400.6	569.9	677.9	724.7	762.2	771.8	781.3	771.8
55°	54.8	132.5	210.2	359.3	532.3	639.3	680.2	713.0	721.3	729.5	721.3
57.5°	50.8	113.5	176.2	320.6	492.4	595.7	630.6	658.5	665.2	672.0	665.2
60°	48.9	103.3	157.7	296.4	463.2	562.4	594.0	619.4	626.1	632.8	626.1
62.5°	46.2	93.5	140.8	272.2	431.5	525.7	554.8	578.2	584.5	590.9	584.5
65°	43.1	81.4	119.8	238.1	383.2	467.8	492.2	511.5	515.6	519.8	515.6
67.5°	38.9	71.5	104.0	207.0	333.5	404.3	419.4	428.8	421.0	413.3	421.0
70°	36.1	66.2	96.2	188.0	300.4	359.2	364.4	362.7	340.4	318.2	340.4
72.5°	34.3	61.0	87.7	167.2	264.3	307.1	295.7	276.6	234.5	192.3	234.5
75°	30.3	52.1	73.8	133.6	206.1	217.5	167.8	130.8	131.8	132.9	131.8
77.5°	24.7	41.0	57.2	94.0	137.6	146.3	120.0	100.5	101.4	102.3	101.4
80°	21.0	33.9	46.9	61.4	76.4	83.4	82.4	81.7	82.2	82.7	82.2
82.5°	17.2	26.9	36.5	45.2	53.6	58.3	59.4	60.0	59.2	58.5	59.2
85°	10.5	16.2	21.9	25.3	27.8	27.1	22.9	19.6	18.5	17.5	18.5
87.5°	4.4	7.4	10.7	10.9	9.9	9.3	9.3	9.6	9.8	9.8	9.8
90°	3.5	8.1	14.0	18.6	22.1	23.3	23.3	24.4	25.6	25.6	25.6
92.5°	12.8	20.3	20.5	20.5	24.9	27.0	28.9	29.1	30.3	30.3	30.3
95°	36.1	39.6	59.4	58.2	39.6	31.4	26.8	26.8	26.8	26.8	26.8
97.5°	68.9	74.0	77.3	103.6	109.4	105.7	86.2	72.4	64.7	61.2	64.7
100°	97.8	100.1	107.1	108.3	137.4	165.3	151.3	133.9	128.1	124.6	128.1
102.5°	126.7	128.1	138.8	143.7	150.4	166.2	214.7	209.3	205.4	204.7	205.4
105°	170.0	171.1	190.9	200.2	204.9	204.9	203.7	227.0	264.3	272.4	264.3
107.5°	216.3	221.7	244.9	269.9	275.2	276.6	270.6	267.1	265.7	266.6	265.7
110°	248.0	256.1	284.1	315.5	323.6	326.0	323.6	320.2	317.8	317.8	317.8



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	278.7	290.6	322.3	358.3	372.1	379.1	373.9	371.4	369.1	370.9	369.1
115°	326.0	343.4	385.4	422.6	450.5	454.0	452.9	452.9	451.7	451.7	451.7
117.5°	369.7	397.7	444.7	488.0	520.4	529.7	534.4	533.0	531.6	533.9	531.6
120°	400.5	433.1	486.6	535.5	567.0	580.9	585.6	583.3	585.6	583.3	585.6
122.5°	433.1	473.1	525.8	576.5	613.5	629.4	635.0	635.4	635.9	634.5	635.9
125°	482.0	530.9	592.6	645.0	683.4	702.0	706.7	707.8	710.2	716.0	710.2
127.5°	531.3	586.8	654.5	705.0	744.4	767.0	774.2	776.8	781.6	784.2	781.6
130°	565.8	628.7	697.4	745.1	783.5	808.0	820.8	824.3	830.1	828.9	830.1
132.5°	602.1	667.8	737.4	787.0	822.6	848.9	859.9	869.9	872.0	873.6	872.0
135°	655.4	726.5	796.3	845.2	879.0	904.6	918.6	927.9	933.7	937.2	933.7
137.5°	711.6	786.5	853.6	897.1	931.1	953.2	969.1	978.9	984.9	987.7	984.9
140°	749.7	821.9	887.1	932.5	962.8	984.9	998.9	1010.5	1017.5	1017.5	1017.5
142.5°	786.1	857.3	920.6	966.1	992.6	1012.9	1027.8	1036.6	1044.5	1044.5	1044.5
145°	837.1	908.1	966.3	1011.7	1033.8	1052.4	1068.7	1075.7	1080.4	1080.4	1080.4
147.5°	890.4	953.2	1006.3	1049.9	1068.5	1090.4	1103.2	1108.8	1114.6	1112.0	1114.6
150°	922.0	980.3	1031.5	1072.2	1090.9	1111.8	1124.6	1129.3	1135.1	1131.6	1135.1
152.5°	952.8	1008.2	1054.8	1092.7	1108.6	1129.5	1144.2	1148.8	1152.8	1150.2	1152.8
155°	994.2	1043.1	1086.2	1121.1	1135.1	1154.9	1168.9	1174.7	1179.3	1173.5	1179.3
157.5°	1031.2	1073.4	1110.9	1143.0	1157.9	1174.9	1187.9	1195.2	1199.8	1197.3	1199.8
160°	1053.6	1092.0	1125.8	1156.1	1170.0	1185.2	1199.1	1207.3	1211.9	1208.4	1211.9
162.5°	1072.2	1106.9	1138.8	1166.3	1178.4	1191.7	1208.4	1215.7	1220.3	1215.9	1220.3
165°	1099.0	1126.9	1154.9	1178.2	1188.6	1199.1	1216.6	1224.7	1228.2	1223.6	1228.2
167.5°	1119.3	1140.7	1163.3	1183.3	1191.0	1201.2	1218.7	1225.4	1229.9	1224.0	1229.9
170°	1130.4	1149.1	1168.9	1185.2	1191.0	1200.3	1217.8	1223.6	1227.1	1221.2	1227.1
172.5°	1139.8	1153.7	1169.8	1184.2	1187.3	1194.7	1211.2	1217.1	1219.6	1214.7	1219.6
175°	1149.1	1157.2	1168.9	1178.2	1177.0	1181.7	1195.6	1200.3	1204.9	1198.0	1204.9
177.5°	1153.5	1157.2	1160.9	1166.5	1162.8	1162.8	1173.0	1175.8	1176.8	1173.0	1176.8
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	275.7	270.7	264.9	259.5	254.5	249.7	245.1	240.5	245.1	249.7	254.5
5°	400.8	373.7	342.1	313.9	289.0	266.5	251.0	235.4	251.0	266.5	289.0
7.5°	671.9	601.7	516.9	435.2	356.5	289.5	257.9	226.3	257.9	289.5	356.5
10°	793.8	735.0	661.4	556.3	419.5	306.0	262.0	217.9	262.0	306.0	419.5
12.5°	838.6	796.2	744.6	635.3	468.3	328.2	268.4	208.6	268.4	328.2	468.3
15°	895.7	860.1	818.1	705.7	522.9	364.4	278.9	193.5	278.9	364.4	522.9
17.5°	929.2	895.8	854.3	744.7	567.0	405.3	291.6	177.8	291.6	405.3	567.0
20°	934.9	906.7	870.9	767.4	595.9	433.9	300.3	166.7	300.3	433.9	595.9
22.5°	929.4	907.6	880.6	783.8	617.4	455.2	305.8	156.4	305.8	455.2	617.4
25°	919.4	905.5	888.4	800.1	640.6	478.9	310.5	142.2	310.5	478.9	640.6
27.5°	900.5	891.1	879.9	797.5	643.9	484.2	306.3	128.4	306.3	484.2	643.9
30°	886.0	878.3	870.0	790.5	639.8	481.6	300.8	120.0	300.8	481.6	639.8
32.5°	874.6	865.6	857.7	779.9	632.0	475.8	294.2	112.6	294.2	475.8	632.0
35°	866.9	851.9	839.5	760.0	613.4	458.8	280.1	101.4	280.1	458.8	613.4
37.5°	870.2	845.2	819.2	732.6	585.3	432.2	262.0	91.8	262.0	432.2	585.3
40°	869.4	838.7	804.0	712.6	564.4	412.6	249.4	86.2	249.4	412.6	564.4
42.5°	860.1	825.0	784.5	689.6	540.2	389.6	235.1	80.6	235.1	389.6	540.2
45°	841.2	801.0	753.4	653.1	500.3	351.0	212.2	73.4	212.2	351.0	500.3
47.5°	814.3	773.2	722.7	617.5	457.8	307.8	187.2	66.7	187.2	307.8	457.8
50°	790.4	750.5	700.8	593.6	428.9	278.4	170.7	62.9	170.7	278.4	428.9
52.5°	762.2	724.7	677.9	569.9	400.6	249.8	154.5	59.2	154.5	249.8	400.6
55°	713.0	680.2	639.3	532.3	359.3	210.2	132.5	54.8	132.5	210.2	359.3
57.5°	658.5	630.6	595.7	492.4	320.6	176.2	113.5	50.8	113.5	176.2	320.6
60°	619.4	594.0	562.4	463.2	296.4	157.7	103.3	48.9	103.3	157.7	296.4
62.5°	578.2	554.8	525.7	431.5	272.2	140.8	93.5	46.2	93.5	140.8	272.2
65°	511.5	492.2	467.8	383.2	238.1	119.8	81.4	43.1	81.4	119.8	238.1
67.5°	428.8	419.4	404.3	333.5	207.0	104.0	71.5	38.9	71.5	104.0	207.0
70°	362.7	364.4	359.2	300.4	188.0	96.2	66.2	36.1	66.2	96.2	188.0
72.5°	276.6	295.7	307.1	264.3	167.2	87.7	61.0	34.3	61.0	87.7	167.2
75°	130.8	167.8	217.5	206.1	133.6	73.8	52.1	30.3	52.1	73.8	133.6
77.5°	100.5	120.0	146.3	137.6	94.0	57.2	41.0	24.7	41.0	57.2	94.0
80°	81.7	82.4	83.4	76.4	61.4	46.9	33.9	21.0	33.9	46.9	61.4
82.5°	60.0	59.4	58.3	53.6	45.2	36.5	26.9	17.2	26.9	36.5	45.2
85°	19.6	22.9	27.1	27.8	25.3	21.9	16.2	10.5	16.2	21.9	25.3
87.5°	9.6	9.3	9.3	9.9	10.9	10.7	7.4	4.4	7.4	10.4	11.3
90°	24.4	23.3	23.3	22.1	18.6	14.0	8.1	3.5	8.1	12.8	21.0
92.5°	29.1	28.9	27.0	24.9	20.5	20.5	20.3	12.8	22.1	31.4	45.2
95°	26.8	26.8	31.4	39.6	58.2	59.4	39.6	36.1	51.2	72.2	90.8
97.5°	72.4	86.2	105.7	109.4	103.6	77.3	74.0	68.9	93.8	114.6	144.6
100°	133.9	151.3	165.3	137.4	108.3	107.1	100.1	97.8	124.6	144.4	173.5
102.5°	209.3	214.7	166.2	150.4	143.7	138.8	128.1	126.7	153.4	180.7	205.1
105°	227.0	203.7	204.9	204.9	200.2	190.9	171.1	170.0	200.2	231.7	261.9
107.5°	267.1	270.6	276.6	275.2	269.9	244.9	221.7	216.3	243.6	281.3	314.6
110°	320.2	323.6	326.0	323.6	315.5	284.1	256.1	248.0	272.4	312.0	348.1



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	371.4	373.9	379.1	372.1	358.3	322.3	290.6	278.7	303.2	343.7	380.7
115°	452.9	452.9	454.0	450.5	422.6	385.4	343.4	326.0	346.9	384.2	424.9
117.5°	533.0	534.4	529.7	520.4	488.0	444.7	397.7	369.7	386.3	425.6	467.5
120°	583.3	585.6	580.9	567.0	535.5	486.6	433.1	400.5	413.3	451.7	493.6
122.5°	635.4	635.0	629.4	613.5	576.5	525.8	473.1	433.1	438.4	474.1	515.0
125°	707.8	706.7	702.0	683.4	645.0	592.6	530.9	482.0	475.0	505.3	547.2
127.5°	776.8	774.2	767.0	744.4	705.0	654.5	586.8	531.3	515.7	534.8	573.3
130°	824.3	820.8	808.0	783.5	745.1	697.4	628.7	565.8	543.7	555.3	589.1
132.5°	869.9	859.9	848.9	822.6	787.0	737.4	667.8	602.1	571.6	576.7	603.1
135°	927.9	918.6	904.6	879.0	845.2	796.3	726.5	655.4	613.5	608.9	624.0
137.5°	978.9	969.1	953.2	931.1	897.1	853.6	786.5	711.6	658.7	643.1	648.9
140°	1010.5	998.9	984.9	962.8	932.5	887.1	821.9	749.7	690.4	668.3	664.8
142.5°	1036.6	1027.8	1012.9	992.6	966.1	920.6	857.3	786.1	723.0	694.3	686.2
145°	1075.7	1068.7	1052.4	1033.8	1011.7	966.3	908.1	837.1	774.2	736.9	719.5
147.5°	1108.8	1103.2	1090.4	1068.5	1049.9	1006.3	953.2	890.4	825.9	779.8	757.2
150°	1129.3	1124.6	1111.8	1090.9	1072.2	1031.5	980.3	922.0	860.3	811.4	782.3
152.5°	1148.8	1144.2	1129.5	1108.6	1092.7	1054.8	1008.2	952.8	890.1	841.3	811.2
155°	1174.7	1168.9	1154.9	1135.1	1121.1	1086.2	1043.1	994.2	940.7	889.4	855.7
157.5°	1195.2	1187.9	1174.9	1157.9	1143.0	1110.9	1073.4	1031.2	984.4	935.6	901.1
160°	1207.3	1199.1	1185.2	1170.0	1156.1	1125.8	1092.0	1053.6	1010.5	966.3	929.0
162.5°	1215.7	1208.4	1191.7	1178.4	1166.3	1138.8	1106.9	1072.2	1033.8	995.2	960.7
165°	1224.7	1216.6	1199.1	1188.6	1178.2	1154.9	1126.9	1099.0	1066.4	1035.0	1007.0
167.5°	1225.4	1218.7	1201.2	1191.0	1183.3	1163.3	1140.7	1119.3	1093.9	1069.2	1045.9
170°	1223.6	1217.8	1200.3	1191.0	1185.2	1168.9	1149.1	1130.4	1110.6	1089.7	1071.1
172.5°	1217.1	1211.2	1194.7	1187.3	1184.2	1169.8	1153.7	1139.8	1122.8	1107.4	1092.5
175°	1200.3	1195.6	1181.7	1177.0	1178.2	1168.9	1157.2	1149.1	1138.6	1129.3	1121.1
177.5°	1175.8	1173.0	1162.8	1162.8	1166.5	1160.9	1157.2	1153.5	1148.8	1146.0	1143.2
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	259.5	264.9	270.7	275.7	278.1	280.6	278.1	275.7	270.7	264.9	259.5
5°	313.9	342.1	373.7	400.8	414.2	427.7	414.2	400.8	373.7	342.1	313.9
7.5°	435.2	516.9	601.7	671.9	698.9	725.8	698.9	671.9	601.7	516.9	435.2
10°	556.3	661.4	735.0	793.8	808.3	822.8	808.3	793.8	735.0	661.4	556.3
12.5°	635.3	744.6	796.2	838.6	853.5	868.5	853.5	838.6	796.2	744.6	635.3
15°	705.7	818.1	860.1	895.7	912.3	928.8	912.3	895.7	860.1	818.1	705.7
17.5°	744.7	854.3	895.8	929.2	938.2	947.2	938.2	929.2	895.8	854.3	744.7
20°	767.4	870.9	906.7	934.9	940.6	946.3	940.6	934.9	906.7	870.9	767.4
22.5°	783.8	880.6	907.6	929.4	935.5	941.7	935.5	929.4	907.6	880.6	783.8
25°	800.1	888.4	905.5	919.4	923.5	927.7	923.5	919.4	905.5	888.4	800.1
27.5°	797.5	879.9	891.1	900.5	904.5	908.6	904.5	900.5	891.1	879.9	797.5
30°	790.5	870.0	878.3	886.0	891.7	897.4	891.7	886.0	878.3	870.0	790.5
32.5°	779.9	857.7	865.6	874.6	886.9	899.2	886.9	874.6	865.6	857.7	779.9
35°	760.0	839.5	851.9	866.9	889.7	912.5	889.7	866.9	851.9	839.5	760.0
37.5°	732.6	819.2	845.2	870.2	892.2	914.1	892.2	870.2	845.2	819.2	732.6
40°	712.6	804.0	838.7	869.4	888.0	906.7	888.0	869.4	838.7	804.0	712.6
42.5°	689.6	784.5	825.0	860.1	878.7	897.4	878.7	860.1	825.0	784.5	689.6
45°	653.1	753.4	801.0	841.2	858.8	876.4	858.8	841.2	801.0	753.4	653.1
47.5°	617.5	722.7	773.2	814.3	827.2	840.0	827.2	814.3	773.2	722.7	617.5
50°	593.6	700.8	750.5	790.4	800.8	811.1	800.8	790.4	750.5	700.8	593.6
52.5°	569.9	677.9	724.7	762.2	771.8	781.3	771.8	762.2	724.7	677.9	569.9
55°	532.3	639.3	680.2	713.0	721.3	729.5	721.3	713.0	680.2	639.3	532.3
57.5°	492.4	595.7	630.6	658.5	665.2	672.0	665.2	658.5	630.6	595.7	492.4
60°	463.2	562.4	594.0	619.4	626.1	632.8	626.1	619.4	594.0	562.4	463.2
62.5°	431.5	525.7	554.8	578.2	584.5	590.9	584.5	578.2	554.8	525.7	431.5
65°	383.2	467.8	492.2	511.5	515.6	519.8	515.6	511.5	492.2	467.8	383.2
67.5°	333.5	404.3	419.4	428.8	421.0	413.3	421.0	428.8	419.4	404.3	333.5
70°	300.4	359.2	364.4	362.7	340.4	318.2	340.4	362.7	364.4	359.2	300.4
72.5°	264.3	307.1	295.7	276.6	234.5	192.3	234.5	276.6	295.7	307.1	264.3
75°	206.1	217.5	167.8	130.8	131.8	132.9	131.8	130.8	167.8	217.5	206.1
77.5°	137.6	146.3	120.0	100.5	101.4	102.3	101.4	100.5	120.0	146.3	137.6
80°	76.4	83.4	82.4	81.7	82.2	82.7	82.2	81.7	82.4	83.4	76.4
82.5°	53.6	58.3	59.4	60.0	59.2	58.5	59.2	60.0	59.4	58.3	53.6
85°	27.8	27.1	22.9	19.6	18.5	17.5	18.5	19.6	22.9	27.1	27.8
87.5°	10.8	11.6	13.3	14.2	15.1	14.7	15.1	14.2	13.3	11.6	10.8
90°	26.8	34.9	43.1	47.7	52.4	50.1	52.4	47.7	43.1	34.9	26.8
92.5°	53.8	67.5	77.5	85.9	89.6	89.2	89.6	85.9	77.5	67.5	53.8
95°	108.3	124.6	140.9	152.5	159.5	157.2	159.5	152.5	140.9	124.6	108.3
97.5°	166.9	188.8	207.0	217.9	224.9	229.6	224.9	217.9	207.0	188.8	166.9
100°	206.1	227.0	248.0	260.8	272.4	277.1	272.4	260.8	248.0	227.0	206.1
102.5°	237.7	265.2	288.0	301.8	311.5	316.2	311.5	301.8	288.0	265.2	237.7
105°	289.9	319.0	343.4	360.9	371.4	374.9	371.4	360.9	343.4	319.0	289.9
107.5°	342.0	372.1	394.7	414.0	426.8	434.2	426.8	414.0	394.7	372.1	342.0
110°	383.0	407.5	431.9	449.4	462.2	466.8	462.2	449.4	431.9	407.5	383.0



TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	417.5	444.7	469.2	486.6	501.3	507.8	501.3	486.6	469.2	444.7	417.5
115°	465.7	501.8	523.9	540.2	550.7	556.5	550.7	540.2	523.9	501.8	465.7
117.5°	505.7	543.4	567.7	580.2	585.1	589.3	585.1	580.2	567.7	543.4	505.7
120°	530.9	565.8	593.7	610.0	615.9	618.2	615.9	610.0	593.7	565.8	530.9
122.5°	554.2	587.2	614.2	634.3	643.8	646.1	643.8	634.3	614.2	587.2	554.2
125°	586.8	618.2	646.1	665.9	676.4	682.2	676.4	665.9	646.1	618.2	586.8
127.5°	615.2	649.2	674.8	692.7	702.9	707.6	702.9	692.7	674.8	649.2	615.2
130°	631.0	665.9	691.5	711.3	720.6	725.3	720.6	711.3	691.5	665.9	631.0
132.5°	643.1	679.9	706.4	724.4	734.6	739.3	734.6	724.4	706.4	679.9	643.1
135°	657.8	696.2	724.1	741.6	750.9	755.6	750.9	741.6	724.1	696.2	657.8
137.5°	670.6	705.5	734.6	753.0	761.4	764.4	761.4	753.0	734.6	705.5	670.6
140°	679.9	710.2	739.3	756.7	766.0	767.2	766.0	756.7	739.3	710.2	679.9
142.5°	692.0	715.7	741.1	758.6	767.9	770.0	767.9	758.6	741.1	715.7	692.0
145°	713.7	727.6	745.1	761.4	769.5	771.9	769.5	761.4	745.1	727.6	713.7
147.5°	740.9	745.3	754.4	765.1	773.0	774.7	773.0	765.1	754.4	745.3	740.9
150°	761.4	760.2	763.7	770.7	777.7	776.5	777.7	770.7	763.7	760.2	761.4
152.5°	784.7	777.9	777.7	780.9	784.2	784.0	784.2	780.9	777.7	777.9	784.7
155°	824.3	811.4	804.5	802.1	802.1	801.0	802.1	802.1	804.5	811.4	824.3
157.5°	867.8	849.9	839.4	833.8	832.2	829.6	832.2	833.8	839.4	849.9	867.8
160°	897.6	877.8	867.3	858.0	854.5	851.0	854.5	858.0	867.3	877.8	897.6
162.5°	925.5	906.7	895.3	886.9	883.4	878.0	883.4	886.9	895.3	906.7	925.5
165°	970.9	951.2	938.3	931.4	926.7	922.0	926.7	931.4	938.3	951.2	970.9
167.5°	1016.3	994.7	986.3	978.4	974.0	965.6	974.0	978.4	986.3	994.7	1016.3
170°	1044.3	1024.5	1019.8	1012.9	1004.7	995.4	1004.7	1012.9	1019.8	1024.5	1044.3
172.5°	1068.5	1055.2	1050.6	1043.6	1041.0	1033.6	1041.0	1043.6	1050.6	1055.2	1068.5
175°	1103.7	1093.2	1093.2	1092.0	1088.5	1081.5	1088.5	1092.0	1093.2	1093.2	1103.7
177.5°	1133.0	1127.4	1131.1	1131.1	1130.2	1123.7	1130.2	1131.1	1131.1	1127.4	1133.0
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6

TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	242.4	242.4	242.4	242.4
2.5°	254.5	249.7	245.1	240.5
5°	289.0	266.5	251.0	235.4
7.5°	356.5	289.5	257.9	226.3
10°	419.5	306.0	262.0	217.9
12.5°	468.3	328.2	268.4	208.6
15°	522.9	364.4	278.9	193.5
17.5°	567.0	405.3	291.6	177.8
20°	595.9	433.9	300.3	166.7
22.5°	617.4	455.2	305.8	156.4
25°	640.6	478.9	310.5	142.2
27.5°	643.9	484.2	306.3	128.4
30°	639.8	481.6	300.8	120.0
32.5°	632.0	475.8	294.2	112.6
35°	613.4	458.8	280.1	101.4
37.5°	585.3	432.2	262.0	91.8
40°	564.4	412.6	249.4	86.2
42.5°	540.2	389.6	235.1	80.6
45°	500.3	351.0	212.2	73.4
47.5°	457.8	307.8	187.2	66.7
50°	428.9	278.4	170.7	62.9
52.5°	400.6	249.8	154.5	59.2
55°	359.3	210.2	132.5	54.8
57.5°	320.6	176.2	113.5	50.8
60°	296.4	157.7	103.3	48.9
62.5°	272.2	140.8	93.5	46.2
65°	238.1	119.8	81.4	43.1
67.5°	207.0	104.0	71.5	38.9
70°	188.0	96.2	66.2	36.1
72.5°	167.2	87.7	61.0	34.3
75°	133.6	73.8	52.1	30.3
77.5°	94.0	57.2	41.0	24.7
80°	61.4	46.9	33.9	21.0
82.5°	45.2	36.5	26.9	17.2
85°	25.3	21.9	16.2	10.5
87.5°	11.3	10.4	7.4	4.4
90°	21.0	12.8	8.1	3.5
92.5°	45.2	31.4	22.1	12.8
95°	90.8	72.2	51.2	36.1
97.5°	144.6	114.6	93.8	68.9
100°	173.5	144.4	124.6	97.8
102.5°	205.1	180.7	153.4	126.7
105°	261.9	231.7	200.2	170.0
107.5°	314.6	281.3	243.6	216.3
110°	348.1	312.0	272.4	248.0

TEST NUMBER: P1435957

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	380.7	343.7	303.2	278.7
115°	424.9	384.2	346.9	326.0
117.5°	467.5	425.6	386.3	369.7
120°	493.6	451.7	413.3	400.5
122.5°	515.0	474.1	438.4	433.1
125°	547.2	505.3	475.0	482.0
127.5°	573.3	534.8	515.7	531.3
130°	589.1	555.3	543.7	565.8
132.5°	603.1	576.7	571.6	602.1
135°	624.0	608.9	613.5	655.4
137.5°	648.9	643.1	658.7	711.6
140°	664.8	668.3	690.4	749.7
142.5°	686.2	694.3	723.0	786.1
145°	719.5	736.9	774.2	837.1
147.5°	757.2	779.8	825.9	890.4
150°	782.3	811.4	860.3	922.0
152.5°	811.2	841.3	890.1	952.8
155°	855.7	889.4	940.7	994.2
157.5°	901.1	935.6	984.4	1031.2
160°	929.0	966.3	1010.5	1053.6
162.5°	960.7	995.2	1033.8	1072.2
165°	1007.0	1035.0	1066.4	1099.0
167.5°	1045.9	1069.2	1093.9	1119.3
170°	1071.1	1089.7	1110.6	1130.4
172.5°	1092.5	1107.4	1122.8	1139.8
175°	1121.1	1129.3	1138.6	1149.1
177.5°	1143.2	1146.0	1148.8	1153.5
180°	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435957  
 CATALOG NUMBER: SQ2W-FB-K-075U-050D-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	10.09	10.91	11.11	11.94	13.32	19.69	20.50	20.71	21.53	22.92
	3H	11.03	11.76	12.06	12.80	14.20	21.29	22.02	22.32	23.06	24.46
	4H	11.42	12.11	12.47	13.16	14.57	21.47	22.15	22.51	23.20	24.61
	6H	11.68	12.31	12.73	13.36	14.78	21.54	22.17	22.59	23.22	24.64
	8H	11.77	12.37	12.83	13.44	14.86	21.55	22.16	22.61	23.22	24.64
	12H	11.81	12.39	12.88	13.45	14.89	21.53	22.10	22.59	23.16	24.61
4H	2H	14.81	15.50	15.86	16.54	17.95	20.05	20.74	21.10	21.78	23.19
	3H	15.93	16.51	16.99	17.58	19.00	21.93	22.51	22.99	23.58	25.00
	4H	16.21	16.74	17.27	17.80	19.25	22.15	22.68	23.22	23.74	25.19
	6H	16.34	16.79	17.42	17.88	19.32	22.28	22.73	23.35	23.82	25.26
	8H	16.38	16.80	17.45	17.88	19.34	22.32	22.74	23.40	23.82	25.28
	12H	16.38	16.76	17.47	17.85	19.32	22.30	22.68	23.40	23.78	25.24
8H	4H	17.40	17.82	18.47	18.90	20.36	22.24	22.66	23.31	23.74	25.19
	6H	17.65	18.00	18.75	19.12	20.58	22.43	22.78	23.53	23.90	25.35
	8H	17.75	18.06	18.86	19.16	20.63	22.52	22.83	23.63	23.93	25.40
	12H	17.79	18.06	18.90	19.16	20.67	22.52	22.79	23.63	23.89	25.40
12H	4H	17.42	17.80	18.51	18.89	20.36	22.19	22.57	23.28	23.66	25.12
	6H	17.76	18.07	18.87	19.17	20.64	22.41	22.72	23.52	23.82	25.30
	8H	17.89	18.16	19.00	19.26	20.77	22.51	22.78	23.62	23.88	25.39