

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: P1427705

Luminaire Tested: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427705  
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-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

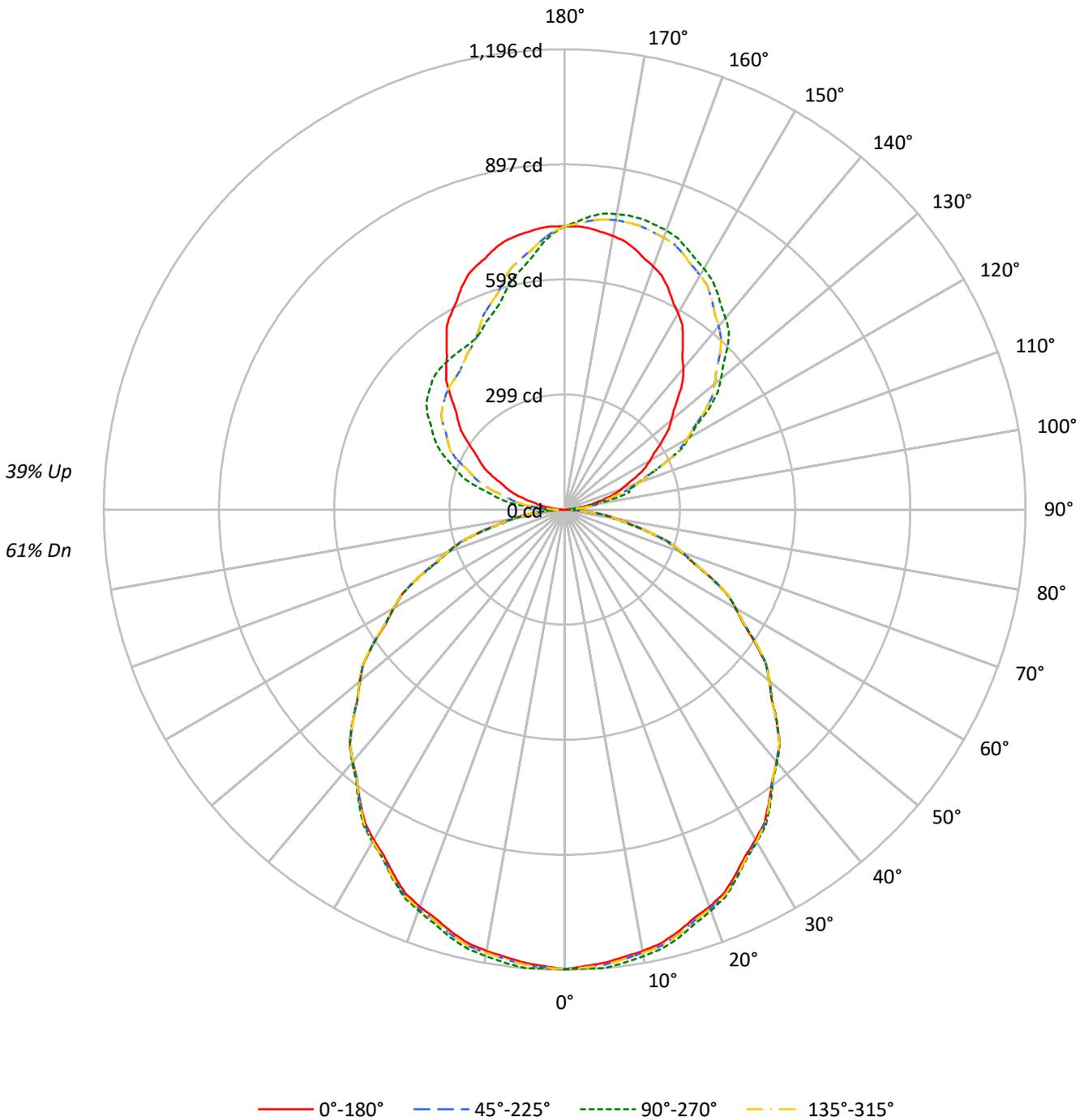
Lumens per Lamp: N/A  
Luminaire Lumens: 5512.7 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.6  
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: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	83	77	71	85	78	72	68	68	64	60	59	56	53	51	49	46	42
3	83	73	65	59	77	69	62	56	60	55	50	52	48	45	45	42	39	36
4	76	65	56	50	70	61	53	48	53	47	43	46	42	38	40	37	34	30
5	69	57	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	35	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	29	25	33	27	23	29	24	20	25	21	18	16
10	48	35	28	23	45	34	27	22	30	24	20	27	22	18	23	19	17	15

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

	0°	90°	180°	270°
0°	19279	19279	19279	19279
5°	19163	19381	19163	19381
10°	19095	19315	19095	19315
15°	18990	19229	18990	19229
20°	18871	19058	18871	19058
25°	18666	18832	18666	18832
30°	18468	18593	18468	18593
35°	18232	18348	18232	18348
40°	18025	18079	18025	18079
45°	17762	17762	17762	17762
50°	17404	17447	17404	17447
55°	16996	17019	16996	17019
60°	16536	16536	16536	16536
65°	16000	15935	16000	15935
70°	15243	15087	15243	15087
75°	14217	13899	14217	13899
80°	12664	12041	12664	12041
85°	10133	8577	10133	8577

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 17881 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	2.0
10°-20°	322.8	5.9
20°-30°	486.0	8.8
30°-40°	581.1	10.5
40°-50°	600.1	10.9
50°-60°	541.2	9.8
60°-70°	414.6	7.5
70°-80°	239.6	4.3
80°-90°	65.3	1.2
90°-100°	58.6	1.1
100°-110°	170.8	3.1
110°-120°	278.8	5.1
120°-130°	353.7	6.4
130°-140°	378.5	6.9
140°-150°	353.4	6.4
150°-160°	290.8	5.3
160°-170°	195.1	3.5
170°-180°	69.3	1.3
0°-30°	921.8	16.7
0°-40°	1502.9	27.3
0°-60°	2644.2	48.0
0°-90°	3363.8	61.0
90°-120°	508.2	9.2
90°-150°	1593.8	28.9
90°-180°	2149.0	39.0
0°-180°	5512.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1194	1194	1194	1194	1194	
5°	1182	1196	1182	1196	1182	112
15°	1136	1150	1136	1150	1136	320
25°	1048	1057	1048	1057	1048	483
35°	925	931	925	931	925	579
45°	778	778	778	778	778	599
55°	604	605	604	605	604	539
65°	419	417	419	417	419	414
75°	228	223	228	223	228	241
85°	55	46	55	46	55	64
90°	2	16	2	32	2	4
95°	23	17	23	100	23	28
105°	108	174	108	239	108	115
115°	208	288	208	355	208	205
125°	308	457	308	436	308	275
135°	418	598	418	482	418	323
145°	534	690	534	493	534	334
155°	635	749	635	512	635	292
165°	702	781	702	589	702	198
175°	734	765	734	691	734	70
180°	736	736	736	736	736	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1188.1	1193.8	1199.4	1197.0	1192.0	1190.0	1191.2	1192.3	1192.9	1193.5	1192.9
5°	1182.4	1189.8	1197.3	1194.7	1188.7	1186.1	1186.8	1188.3	1192.1	1195.8	1192.1
7.5°	1172.8	1180.2	1187.7	1185.3	1179.6	1177.2	1178.1	1179.8	1183.7	1187.6	1183.7
10°	1164.7	1172.2	1179.6	1177.0	1171.0	1168.8	1170.3	1172.2	1175.2	1178.1	1175.2
12.5°	1154.6	1162.1	1169.6	1167.4	1162.0	1159.8	1160.7	1162.2	1165.4	1168.7	1165.4
15°	1136.1	1143.6	1151.1	1149.0	1143.8	1141.7	1142.8	1144.4	1147.4	1150.4	1147.4
17.5°	1113.7	1120.8	1127.8	1125.9	1121.0	1119.2	1120.5	1122.1	1124.7	1127.4	1124.7
20°	1098.3	1105.0	1111.7	1109.8	1104.9	1102.6	1103.0	1104.0	1106.6	1109.2	1106.6
22.5°	1079.4	1086.1	1092.9	1091.1	1086.6	1083.9	1083.1	1083.3	1086.5	1089.7	1086.5
25°	1047.8	1054.5	1061.3	1059.9	1055.7	1053.1	1052.0	1051.8	1054.4	1057.1	1054.4
27.5°	1014.8	1020.4	1026.1	1024.9	1021.4	1019.3	1018.6	1018.5	1020.4	1022.2	1020.4
30°	990.6	996.2	1001.8	1000.4	996.7	994.4	993.7	993.6	995.5	997.3	995.5
32.5°	965.1	970.4	975.7	973.7	969.4	967.2	967.0	967.4	969.6	971.8	969.6
35°	925.0	929.5	934.0	932.0	927.9	926.1	926.4	927.2	929.0	930.9	929.0
37.5°	884.8	888.3	891.7	889.7	885.9	884.0	883.9	884.2	885.8	887.4	885.8
40°	855.2	859.0	862.7	860.6	856.4	854.2	853.8	854.0	855.9	857.8	855.9
42.5°	825.0	827.8	830.6	828.7	825.2	823.6	823.8	824.2	825.2	826.1	825.2
45°	777.9	780.5	783.1	781.2	777.9	776.2	776.2	776.4	777.1	777.9	777.1
47.5°	728.6	730.6	732.6	731.2	728.5	727.0	726.6	726.5	727.7	728.9	727.7
50°	692.9	695.5	698.2	696.9	694.2	692.6	691.8	691.6	693.1	694.6	693.1
52.5°	657.9	660.9	663.8	662.5	659.9	658.1	657.0	656.6	657.8	659.0	657.8
55°	603.8	607.2	610.5	609.7	607.4	605.6	604.1	603.1	603.9	604.6	603.9
57.5°	548.5	551.7	555.0	554.4	552.5	550.6	548.8	547.7	548.8	549.8	548.8
60°	512.1	515.1	518.1	517.2	514.9	513.1	511.6	510.6	511.4	512.1	511.4
62.5°	475.1	478.1	481.1	479.9	477.4	475.4	473.9	473.0	473.7	474.5	473.7
65°	418.8	421.4	424.0	423.0	420.7	418.9	417.4	416.4	416.7	417.1	416.7
67.5°	361.9	364.2	366.4	365.4	363.2	361.0	358.9	357.4	358.0	358.6	358.0
70°	322.9	325.2	327.4	326.6	324.7	322.8	321.0	319.6	319.6	319.6	319.6
72.5°	285.2	287.2	289.1	288.0	285.8	284.0	282.4	281.2	281.2	281.2	281.2
75°	227.9	229.0	230.1	229.6	228.5	227.0	225.1	223.6	223.2	222.8	223.2
77.5°	172.6	172.6	172.6	171.5	170.1	168.7	167.2	166.1	165.6	165.2	165.6
80°	136.2	136.2	136.2	135.4	134.3	133.1	132.0	131.0	130.3	129.5	130.3
82.5°	102.6	102.0	101.4	100.4	99.3	97.9	96.1	95.0	95.8	96.5	95.8
85°	54.7	53.9	53.2	52.1	51.0	49.7	48.2	47.0	46.6	46.3	46.6
87.5°	17.3	17.3	17.4	17.2	16.7	15.8	14.6	13.8	13.7	13.4	13.7
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.2	18.4	18.6	19.3	19.3	19.3
95°	23.0	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.0	47.3	49.4	66.2	69.9	67.5	55.0	46.2	41.3	39.1	41.3
100°	62.4	63.9	68.4	69.1	87.7	105.6	96.6	85.5	81.8	79.5	81.8
102.5°	80.9	81.8	88.6	91.7	96.1	106.2	137.1	133.7	131.1	130.7	131.1
105°	108.5	109.3	121.9	127.9	130.8	130.8	130.1	145.0	168.8	174.0	168.8
107.5°	138.1	141.5	156.4	172.3	175.7	176.6	172.8	170.5	169.6	170.2	169.6
110°	158.3	163.6	181.4	201.5	206.7	208.2	206.7	204.4	203.0	203.0	203.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.0	185.6	205.8	228.8	237.6	242.1	238.8	237.2	235.7	236.9	235.7
115°	208.2	219.3	246.1	269.9	287.7	289.9	289.2	289.2	288.4	288.4	288.4
117.5°	236.1	254.0	284.0	311.6	332.3	338.3	341.2	340.3	339.4	340.9	339.4
120°	255.7	276.6	310.8	342.0	362.0	371.0	373.9	372.5	373.9	372.5	373.9
122.5°	276.6	302.1	335.7	368.1	391.8	401.9	405.5	405.8	406.1	405.2	406.1
125°	307.8	339.0	378.4	411.9	436.4	448.3	451.3	452.0	453.5	457.2	453.5
127.5°	339.3	374.7	418.0	450.2	475.3	489.8	494.4	496.0	499.1	500.8	499.1
130°	361.3	401.4	445.3	475.8	500.3	515.9	524.1	526.3	530.1	529.3	530.1
132.5°	384.5	426.4	470.9	502.6	525.3	542.1	549.1	555.5	556.8	557.9	556.8
135°	418.5	463.9	508.5	539.7	561.3	577.6	586.6	592.5	596.2	598.5	596.2
137.5°	454.4	502.3	545.1	572.9	594.6	608.7	618.8	625.1	628.9	630.7	628.9
140°	478.8	524.9	566.5	595.5	614.8	628.9	637.9	645.3	649.8	649.8	649.8
142.5°	502.0	547.5	587.9	616.9	633.8	646.8	656.3	661.9	667.0	667.0	667.0
145°	534.5	579.9	617.0	646.0	660.2	672.1	682.5	686.9	689.9	689.9	689.9
147.5°	568.6	608.7	642.6	670.4	682.3	696.3	704.5	708.0	711.8	710.1	711.8
150°	588.8	626.0	658.7	684.7	696.6	710.0	718.1	721.1	724.8	722.6	724.8
152.5°	608.4	643.8	673.5	697.8	707.9	721.3	730.6	733.6	736.1	734.5	736.1
155°	634.9	666.1	693.6	715.9	724.8	737.5	746.4	750.1	753.1	749.4	753.1
157.5°	658.5	685.4	709.4	729.9	739.4	750.3	758.6	763.2	766.2	764.5	766.2
160°	672.8	697.3	718.9	738.2	747.1	756.8	765.7	770.9	773.9	771.7	773.9
162.5°	684.7	706.8	727.2	744.8	752.5	761.0	771.7	776.3	779.3	776.4	779.3
165°	701.8	719.6	737.5	752.3	759.0	765.7	776.9	782.1	784.3	781.3	784.3
167.5°	714.7	728.4	742.8	755.6	760.5	767.1	778.2	782.5	785.4	781.6	785.4
170°	721.9	733.8	746.4	756.8	760.5	766.5	777.6	781.3	783.6	779.9	783.6
172.5°	727.8	736.7	747.0	756.2	758.1	762.9	773.5	777.2	778.8	775.7	778.8
175°	733.8	739.0	746.4	752.3	751.6	754.6	763.5	766.5	769.4	765.0	769.4
177.5°	736.6	739.0	741.3	744.9	742.5	742.5	749.1	750.9	751.5	749.1	751.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1192.3	1191.2	1190.0	1192.0	1197.0	1199.4	1193.8	1188.1	1193.8	1199.4	1197.0
5°	1188.3	1186.8	1186.1	1188.7	1194.7	1197.3	1189.8	1182.4	1189.8	1197.3	1194.7
7.5°	1179.8	1178.1	1177.2	1179.6	1185.3	1187.7	1180.2	1172.8	1180.2	1187.7	1185.3
10°	1172.2	1170.3	1168.8	1171.0	1177.0	1179.6	1172.2	1164.7	1172.2	1179.6	1177.0
12.5°	1162.2	1160.7	1159.8	1162.0	1167.4	1169.6	1162.1	1154.6	1162.1	1169.6	1167.4
15°	1144.4	1142.8	1141.7	1143.8	1149.0	1151.1	1143.6	1136.1	1143.6	1151.1	1149.0
17.5°	1122.1	1120.5	1119.2	1121.0	1125.9	1127.8	1120.8	1113.7	1120.8	1127.8	1125.9
20°	1104.0	1103.0	1102.6	1104.9	1109.8	1111.7	1105.0	1098.3	1105.0	1111.7	1109.8
22.5°	1083.3	1083.1	1083.9	1086.6	1091.1	1092.9	1086.1	1079.4	1086.1	1092.9	1091.1
25°	1051.8	1052.0	1053.1	1055.7	1059.9	1061.3	1054.5	1047.8	1054.5	1061.3	1059.9
27.5°	1018.5	1018.6	1019.3	1021.4	1024.9	1026.1	1020.4	1014.8	1020.4	1026.1	1024.9
30°	993.6	993.7	994.4	996.7	1000.4	1001.8	996.2	990.6	996.2	1001.8	1000.4
32.5°	967.4	967.0	967.2	969.4	973.7	975.7	970.4	965.1	970.4	975.7	973.7
35°	927.2	926.4	926.1	927.9	932.0	934.0	929.5	925.0	929.5	934.0	932.0
37.5°	884.2	883.9	884.0	885.9	889.7	891.7	888.3	884.8	888.3	891.7	889.7
40°	854.0	853.8	854.2	856.4	860.6	862.7	859.0	855.2	859.0	862.7	860.6
42.5°	824.2	823.8	823.6	825.2	828.7	830.6	827.8	825.0	827.8	830.6	828.7
45°	776.4	776.2	776.2	777.9	781.2	783.1	780.5	777.9	780.5	783.1	781.2
47.5°	726.5	726.6	727.0	728.5	731.2	732.6	730.6	728.6	730.6	732.6	731.2
50°	691.6	691.8	692.6	694.2	696.9	698.2	695.5	692.9	695.5	698.2	696.9
52.5°	656.6	657.0	658.1	659.9	662.5	663.8	660.9	657.9	660.9	663.8	662.5
55°	603.1	604.1	605.6	607.4	609.7	610.5	607.2	603.8	607.2	610.5	609.7
57.5°	547.7	548.8	550.6	552.5	554.4	555.0	551.7	548.5	551.7	555.0	554.4
60°	510.6	511.6	513.1	514.9	517.2	518.1	515.1	512.1	515.1	518.1	517.2
62.5°	473.0	473.9	475.4	477.4	479.9	481.1	478.1	475.1	478.1	481.1	479.9
65°	416.4	417.4	418.9	420.7	423.0	424.0	421.4	418.8	421.4	424.0	423.0
67.5°	357.4	358.9	361.0	363.2	365.4	366.4	364.2	361.9	364.2	366.4	365.4
70°	319.6	321.0	322.8	324.7	326.6	327.4	325.2	322.9	325.2	327.4	326.6
72.5°	281.2	282.4	284.0	285.8	288.0	289.1	287.2	285.2	287.2	289.1	288.0
75°	223.6	225.1	227.0	228.5	229.6	230.1	229.0	227.9	229.0	230.1	229.6
77.5°	166.1	167.2	168.7	170.1	171.5	172.6	172.6	172.6	172.6	172.6	171.5
80°	131.0	132.0	133.1	134.3	135.4	136.2	136.2	136.2	136.2	136.2	135.4
82.5°	95.0	96.1	97.9	99.3	100.4	101.4	102.0	102.6	102.0	101.4	100.4
85°	47.0	48.2	49.7	51.0	52.1	53.2	53.9	54.7	53.9	53.2	52.1
87.5°	13.8	14.6	15.8	16.7	17.2	17.4	17.3	17.3	17.3	17.3	17.5
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.2	238.8	242.1	237.6	228.8	205.8	185.6	178.0	193.6	219.5	243.1
115°	289.2	289.2	289.9	287.7	269.9	246.1	219.3	208.2	221.5	245.3	271.4
117.5°	340.3	341.2	338.3	332.3	311.6	284.0	254.0	236.1	246.7	271.8	298.6
120°	372.5	373.9	371.0	362.0	342.0	310.8	276.6	255.7	263.9	288.4	315.2
122.5°	405.8	405.5	401.9	391.8	368.1	335.7	302.1	276.6	280.0	302.7	328.9
125°	452.0	451.3	448.3	436.4	411.9	378.4	339.0	307.8	303.3	322.6	349.4
127.5°	496.0	494.4	489.8	475.3	450.2	418.0	374.7	339.3	329.3	341.5	366.1
130°	526.3	524.1	515.9	500.3	475.8	445.3	401.4	361.3	347.2	354.6	376.2
132.5°	555.5	549.1	542.1	525.3	502.6	470.9	426.4	384.5	365.0	368.3	385.1
135°	592.5	586.6	577.6	561.3	539.7	508.5	463.9	418.5	391.8	388.8	398.5
137.5°	625.1	618.8	608.7	594.6	572.9	545.1	502.3	454.4	420.6	410.7	414.4
140°	645.3	637.9	628.9	614.8	595.5	566.5	524.9	478.8	440.9	426.7	424.5
142.5°	661.9	656.3	646.8	633.8	616.9	587.9	547.5	502.0	461.7	443.4	438.2
145°	686.9	682.5	672.1	660.2	646.0	617.0	579.9	534.5	494.4	470.6	459.4
147.5°	708.0	704.5	696.3	682.3	670.4	642.6	608.7	568.6	527.4	497.9	483.5
150°	721.1	718.1	710.0	696.6	684.7	658.7	626.0	588.8	549.4	518.2	499.6
152.5°	733.6	730.6	721.3	707.9	697.8	673.5	643.8	608.4	568.4	537.2	518.0
155°	750.1	746.4	737.5	724.8	715.9	693.6	666.1	634.9	600.7	568.0	546.4
157.5°	763.2	758.6	750.3	739.4	729.9	709.4	685.4	658.5	628.6	597.4	575.4
160°	770.9	765.7	756.8	747.1	738.2	718.9	697.3	672.8	645.3	617.0	593.3
162.5°	776.3	771.7	761.0	752.5	744.8	727.2	706.8	684.7	660.2	635.5	613.5
165°	782.1	776.9	765.7	759.0	752.3	737.5	719.6	701.8	681.0	660.9	643.1
167.5°	782.5	778.2	767.1	760.5	755.6	742.8	728.4	714.7	698.5	682.8	667.9
170°	781.3	777.6	766.5	760.5	756.8	746.4	733.8	721.9	709.2	695.8	684.0
172.5°	777.2	773.5	762.9	758.1	756.2	747.0	736.7	727.8	717.0	707.1	697.6
175°	766.5	763.5	754.6	751.6	752.3	746.4	739.0	733.8	727.1	721.1	715.9
177.5°	750.9	749.1	742.5	742.5	744.9	741.3	739.0	736.6	733.6	731.8	730.0
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1192.0	1190.0	1191.2	1192.3	1192.9	1193.5	1192.9	1192.3	1191.2	1190.0	1192.0
5°	1188.7	1186.1	1186.8	1188.3	1192.1	1195.8	1192.1	1188.3	1186.8	1186.1	1188.7
7.5°	1179.6	1177.2	1178.1	1179.8	1183.7	1187.6	1183.7	1179.8	1178.1	1177.2	1179.6
10°	1171.0	1168.8	1170.3	1172.2	1175.2	1178.1	1175.2	1172.2	1170.3	1168.8	1171.0
12.5°	1162.0	1159.8	1160.7	1162.2	1165.4	1168.7	1165.4	1162.2	1160.7	1159.8	1162.0
15°	1143.8	1141.7	1142.8	1144.4	1147.4	1150.4	1147.4	1144.4	1142.8	1141.7	1143.8
17.5°	1121.0	1119.2	1120.5	1122.1	1124.7	1127.4	1124.7	1122.1	1120.5	1119.2	1121.0
20°	1104.9	1102.6	1103.0	1104.0	1106.6	1109.2	1106.6	1104.0	1103.0	1102.6	1104.9
22.5°	1086.6	1083.9	1083.1	1083.3	1086.5	1089.7	1086.5	1083.3	1083.1	1083.9	1086.6
25°	1055.7	1053.1	1052.0	1051.8	1054.4	1057.1	1054.4	1051.8	1052.0	1053.1	1055.7
27.5°	1021.4	1019.3	1018.6	1018.5	1020.4	1022.2	1020.4	1018.5	1018.6	1019.3	1021.4
30°	996.7	994.4	993.7	993.6	995.5	997.3	995.5	993.6	993.7	994.4	996.7
32.5°	969.4	967.2	967.0	967.4	969.6	971.8	969.6	967.4	967.0	967.2	969.4
35°	927.9	926.1	926.4	927.2	929.0	930.9	929.0	927.2	926.4	926.1	927.9
37.5°	885.9	884.0	883.9	884.2	885.8	887.4	885.8	884.2	883.9	884.0	885.9
40°	856.4	854.2	853.8	854.0	855.9	857.8	855.9	854.0	853.8	854.2	856.4
42.5°	825.2	823.6	823.8	824.2	825.2	826.1	825.2	824.2	823.8	823.6	825.2
45°	777.9	776.2	776.2	776.4	777.1	777.9	777.1	776.4	776.2	776.2	777.9
47.5°	728.5	727.0	726.6	726.5	727.7	728.9	727.7	726.5	726.6	727.0	728.5
50°	694.2	692.6	691.8	691.6	693.1	694.6	693.1	691.6	691.8	692.6	694.2
52.5°	659.9	658.1	657.0	656.6	657.8	659.0	657.8	656.6	657.0	658.1	659.9
55°	607.4	605.6	604.1	603.1	603.9	604.6	603.9	603.1	604.1	605.6	607.4
57.5°	552.5	550.6	548.8	547.7	548.8	549.8	548.8	547.7	548.8	550.6	552.5
60°	514.9	513.1	511.6	510.6	511.4	512.1	511.4	510.6	511.6	513.1	514.9
62.5°	477.4	475.4	473.9	473.0	473.7	474.5	473.7	473.0	473.9	475.4	477.4
65°	420.7	418.9	417.4	416.4	416.7	417.1	416.7	416.4	417.4	418.9	420.7
67.5°	363.2	361.0	358.9	357.4	358.0	358.6	358.0	357.4	358.9	361.0	363.2
70°	324.7	322.8	321.0	319.6	319.6	319.6	319.6	319.6	321.0	322.8	324.7
72.5°	285.8	284.0	282.4	281.2	281.2	281.2	281.2	281.2	282.4	284.0	285.8
75°	228.5	227.0	225.1	223.6	223.2	222.8	223.2	223.6	225.1	227.0	228.5
77.5°	170.1	168.7	167.2	166.1	165.6	165.2	165.6	166.1	167.2	168.7	170.1
80°	134.3	133.1	132.0	131.0	130.3	129.5	130.3	131.0	132.0	133.1	134.3
82.5°	99.3	97.9	96.1	95.0	95.8	96.5	95.8	95.0	96.1	97.9	99.3
85°	51.0	49.7	48.2	47.0	46.6	46.3	46.6	47.0	48.2	49.7	51.0
87.5°	17.3	17.3	17.2	16.8	17.1	16.5	17.1	16.8	17.2	17.3	17.3
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	27.5	22.3	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	54.9	49.5	43.1	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.6	284.0	299.6	310.8	320.1	324.3	320.1	310.8	299.6	284.0	266.6
115°	297.4	320.4	334.5	344.9	351.6	355.4	351.6	344.9	334.5	320.4	297.4
117.5°	322.9	347.0	362.5	370.5	373.6	376.3	373.6	370.5	362.5	347.0	322.9
120°	339.0	361.3	379.1	389.6	393.3	394.8	393.3	389.6	379.1	361.3	339.0
122.5°	353.9	375.0	392.2	405.0	411.1	412.6	411.1	405.0	392.2	375.0	353.9
125°	374.7	394.8	412.6	425.2	431.9	435.6	431.9	425.2	412.6	394.8	374.7
127.5°	392.8	414.5	430.9	442.3	448.9	451.9	448.9	442.3	430.9	414.5	392.8
130°	402.9	425.2	441.6	454.2	460.2	463.2	460.2	454.2	441.6	425.2	402.9
132.5°	410.7	434.2	451.1	462.6	469.1	472.1	469.1	462.6	451.1	434.2	410.7
135°	420.0	444.6	462.4	473.6	479.5	482.5	479.5	473.6	462.4	444.6	420.0
137.5°	428.2	450.5	469.1	480.8	486.2	488.1	486.2	480.8	469.1	450.5	428.2
140°	434.2	453.5	472.1	483.2	489.2	489.9	489.2	483.2	472.1	453.5	434.2
142.5°	441.9	457.1	473.3	484.4	490.4	491.7	490.4	484.4	473.3	457.1	441.9
145°	455.7	464.6	475.8	486.2	491.4	492.9	491.4	486.2	475.8	464.6	455.7
147.5°	473.1	475.9	481.7	488.6	493.6	494.7	493.6	488.6	481.7	475.9	473.1
150°	486.2	485.5	487.7	492.1	496.6	495.9	496.6	492.1	487.7	485.5	486.2
152.5°	501.1	496.8	496.6	498.7	500.8	500.6	500.8	498.7	496.6	496.8	501.1
155°	526.3	518.2	513.7	512.2	512.2	511.5	512.2	512.2	513.7	518.2	526.3
157.5°	554.1	542.7	536.0	532.4	531.4	529.8	531.4	532.4	536.0	542.7	554.1
160°	573.2	560.5	553.9	547.9	545.7	543.4	545.7	547.9	553.9	560.5	573.2
162.5°	591.0	579.0	571.7	566.3	564.1	560.7	564.1	566.3	571.7	579.0	591.0
165°	620.0	607.4	599.2	594.7	591.8	588.8	591.8	594.7	599.2	607.4	620.0
167.5°	649.0	635.2	629.8	624.8	621.9	616.6	621.9	624.8	629.8	635.2	649.0
170°	666.9	654.2	651.2	646.8	641.6	635.6	641.6	646.8	651.2	654.2	666.9
172.5°	682.3	673.8	670.9	666.4	664.8	660.0	664.8	666.4	670.9	673.8	682.3
175°	704.8	698.1	698.1	697.3	695.1	690.6	695.1	697.3	698.1	698.1	704.8
177.5°	723.5	719.9	722.3	722.3	721.7	717.6	721.7	722.3	722.3	719.9	723.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1194.1	1194.1	1194.1	1194.1
2.5°	1197.0	1199.4	1193.8	1188.1
5°	1194.7	1197.3	1189.8	1182.4
7.5°	1185.3	1187.7	1180.2	1172.8
10°	1177.0	1179.6	1172.2	1164.7
12.5°	1167.4	1169.6	1162.1	1154.6
15°	1149.0	1151.1	1143.6	1136.1
17.5°	1125.9	1127.8	1120.8	1113.7
20°	1109.8	1111.7	1105.0	1098.3
22.5°	1091.1	1092.9	1086.1	1079.4
25°	1059.9	1061.3	1054.5	1047.8
27.5°	1024.9	1026.1	1020.4	1014.8
30°	1000.4	1001.8	996.2	990.6
32.5°	973.7	975.7	970.4	965.1
35°	932.0	934.0	929.5	925.0
37.5°	889.7	891.7	888.3	884.8
40°	860.6	862.7	859.0	855.2
42.5°	828.7	830.6	827.8	825.0
45°	781.2	783.1	780.5	777.9
47.5°	731.2	732.6	730.6	728.6
50°	696.9	698.2	695.5	692.9
52.5°	662.5	663.8	660.9	657.9
55°	609.7	610.5	607.2	603.8
57.5°	554.4	555.0	551.7	548.5
60°	517.2	518.1	515.1	512.1
62.5°	479.9	481.1	478.1	475.1
65°	423.0	424.0	421.4	418.8
67.5°	365.4	366.4	364.2	361.9
70°	326.6	327.4	325.2	322.9
72.5°	288.0	289.1	287.2	285.2
75°	229.6	230.1	229.0	227.9
77.5°	171.5	172.6	172.6	172.6
80°	135.4	136.2	136.2	136.2
82.5°	100.4	101.4	102.0	102.6
85°	52.1	53.2	53.9	54.7
87.5°	17.5	17.3	17.3	17.3
90°	13.4	8.2	5.2	2.2
92.5°	28.8	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.0
97.5°	92.3	73.2	59.9	44.0
100°	110.8	92.2	79.5	62.4
102.5°	131.0	115.4	98.0	80.9
105°	167.3	147.9	127.9	108.5
107.5°	200.9	179.6	155.5	138.1
110°	222.3	199.2	174.0	158.3



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	243.1	219.5	193.6	178.0
115°	271.4	245.3	221.5	208.2
117.5°	298.6	271.8	246.7	236.1
120°	315.2	288.4	263.9	255.7
122.5°	328.9	302.7	280.0	276.6
125°	349.4	322.6	303.3	307.8
127.5°	366.1	341.5	329.3	339.3
130°	376.2	354.6	347.2	361.3
132.5°	385.1	368.3	365.0	384.5
135°	398.5	388.8	391.8	418.5
137.5°	414.4	410.7	420.6	454.4
140°	424.5	426.7	440.9	478.8
142.5°	438.2	443.4	461.7	502.0
145°	459.4	470.6	494.4	534.5
147.5°	483.5	497.9	527.4	568.6
150°	499.6	518.2	549.4	588.8
152.5°	518.0	537.2	568.4	608.4
155°	546.4	568.0	600.7	634.9
157.5°	575.4	597.4	628.6	658.5
160°	593.3	617.0	645.3	672.8
162.5°	613.5	635.5	660.2	684.7
165°	643.1	660.9	681.0	701.8
167.5°	667.9	682.8	698.5	714.7
170°	684.0	695.8	709.2	721.9
172.5°	697.6	707.1	717.0	727.8
175°	715.9	721.1	727.1	733.8
177.5°	730.0	731.8	733.6	736.6
180°	736.0	736.0	736.0	736.0



TEST NUMBER: P1427705

CATALOG NUMBER: SQ2W-F-K-050U-075D-L830-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.10	20.08	19.95	20.96	22.06	19.01	20.00	19.87	20.88	21.98
	3H	20.90	21.78	21.76	22.67	23.80	20.79	21.68	21.66	22.57	23.70
	4H	21.60	22.43	22.48	23.33	24.47	21.48	22.32	22.37	23.21	24.35
	6H	22.04	22.81	22.94	23.71	24.87	21.90	22.67	22.79	23.57	24.73
	8H	22.21	22.94	23.11	23.86	25.01	22.05	22.79	22.95	23.70	24.86
	12H	22.29	23.00	23.20	23.91	25.09	22.12	22.82	23.03	23.73	24.91
4H	2H	19.69	20.53	20.58	21.42	22.56	19.63	20.46	20.51	21.36	22.50
	3H	21.73	22.43	22.62	23.35	24.51	21.63	22.33	22.53	23.26	24.41
	4H	22.54	23.18	23.45	24.10	25.28	22.43	23.07	23.34	23.99	25.17
	6H	23.10	23.66	24.03	24.60	25.78	22.96	23.52	23.89	24.46	25.64
	8H	23.32	23.84	24.25	24.78	25.97	23.16	23.68	24.09	24.62	25.81
	12H	23.44	23.91	24.39	24.86	26.07	23.26	23.72	24.20	24.68	25.88
8H	4H	22.80	23.31	23.73	24.25	25.45	22.70	23.22	23.63	24.16	25.35
	6H	23.49	23.92	24.45	24.90	26.10	23.36	23.79	24.32	24.77	25.97
	8H	23.80	24.18	24.76	25.15	26.36	23.64	24.02	24.61	24.99	26.21
	12H	23.99	24.32	24.95	25.29	26.55	23.80	24.13	24.76	25.09	26.36
12H	4H	22.80	23.26	23.75	24.22	25.42	22.71	23.17	23.65	24.13	25.33
	6H	23.54	23.92	24.51	24.89	26.11	23.42	23.80	24.38	24.77	25.98
	8H	23.88	24.22	24.85	25.18	26.44	23.73	24.07	24.70	25.03	26.29