

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: P1427893

Luminaire Tested: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427893  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX 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**

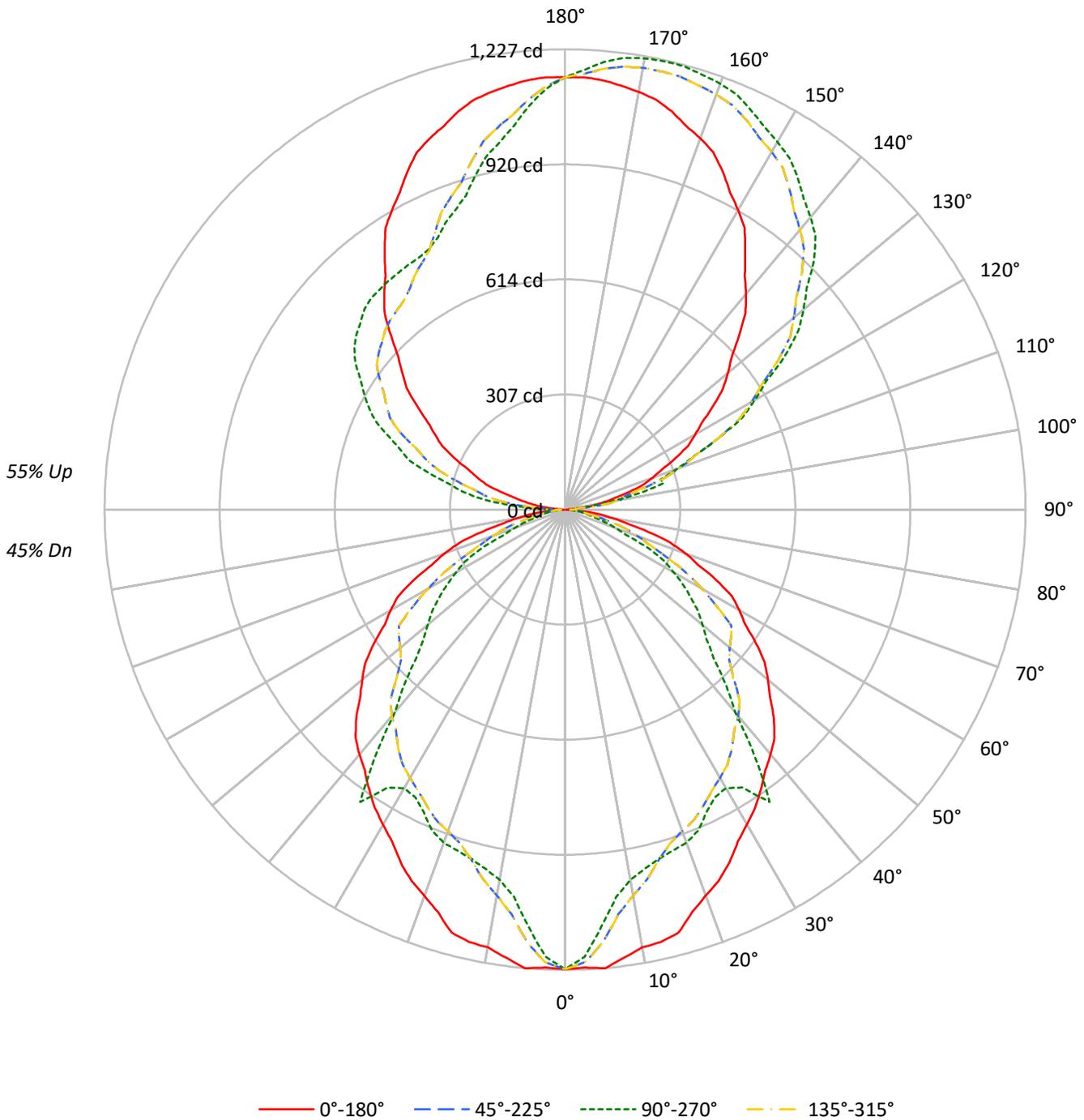
Lumens per Lamp: N/A  
Luminaire Lumens: 6078.3 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1427893

CATALOG NUMBER: SQ2W-PH1-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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	58	73	66	59	54	55	50	46	45	42	39	36	33	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	39	34	39	34	30	32	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	19775	19775	19775	19775
5°	19890	18076	19890	18076
10°	19431	16432	19431	16432
15°	19518	16110	19518	16110
20°	18823	16238	18823	16238
25°	18477	15862	18477	15862
30°	18077	15990	18077	15990
35°	17940	18744	17940	18744
40°	17955	14861	17955	14861
45°	17963	12800	17963	12800
50°	17711	12001	17711	12001
55°	17486	11516	17486	11516
60°	17311	10801	17311	10801
65°	17008	9394	17008	9394
70°	16064	6713	16064	6713
75°	14323	5090	14323	5090
80°	11706	4770	11706	4770
85°	7336	3242	7336	3242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17963 cd/sqm



TEST NUMBER: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	1.8
10°-20°	283.5	4.7
20°-30°	415.6	6.8
30°-40°	503.3	8.3
40°-50°	494.9	8.1
50°-60°	430.5	7.1
60°-70°	299.4	4.9
70°-80°	142.0	2.3
80°-90°	36.1	0.6
90°-100°	91.7	1.5
100°-110°	267.5	4.4
110°-120°	436.5	7.2
120°-130°	553.9	9.1
130°-140°	592.7	9.8
140°-150°	553.5	9.1
150°-160°	455.4	7.5
160°-170°	305.4	5.0
170°-180°	108.5	1.8
0°-30°	806.9	13.3
0°-40°	1310.2	21.6
0°-60°	2235.5	36.8
0°-90°	2713.0	44.6
90°-120°	795.8	13.1
90°-150°	2495.9	41.1
90°-180°	3365.0	55.4
0°-180°	6078.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1225	1225	1225	1225	1225	
5°	1227	1115	1227	1115	1227	115
15°	1168	964	1168	964	1168	326
25°	1037	890	1037	890	1037	477
35°	910	951	910	951	910	570
45°	787	561	787	561	787	605
55°	621	409	621	409	621	555
65°	445	246	445	246	445	437
75°	230	82	230	82	230	243
85°	40	18	40	18	40	53
90°	4	26	4	50	4	4
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: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1222.0	1227.9	1233.7	1225.5	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0
5°	1227.2	1226.7	1226.1	1201.9	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3
7.5°	1204.8	1188.7	1172.7	1140.2	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2
10°	1185.2	1160.9	1136.5	1099.8	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3
12.5°	1180.6	1142.1	1103.7	1063.4	1022.5	996.1	984.2	975.8	978.3	980.8	978.3
15°	1167.7	1109.7	1051.7	1010.8	975.6	956.4	953.3	952.4	958.1	963.8	958.1
17.5°	1125.3	1062.9	1000.4	964.4	937.3	927.0	933.6	940.3	946.9	953.5	946.9
20°	1095.5	1033.8	972.2	938.9	915.1	909.4	921.8	932.7	938.9	945.1	938.9
22.5°	1070.3	1007.8	945.4	915.9	897.5	895.1	908.8	919.9	923.2	926.5	923.2
25°	1037.2	966.8	896.3	874.8	869.7	873.0	884.9	893.5	891.9	890.4	891.9
27.5°	997.6	924.0	850.5	836.7	842.8	849.5	856.7	862.4	863.3	864.3	863.3
30°	969.6	896.1	822.5	811.5	821.4	829.9	837.2	844.3	851.0	857.7	851.0
32.5°	942.6	866.5	790.5	782.6	797.4	813.4	830.6	847.4	862.8	878.3	862.8
35°	910.2	830.9	751.7	745.5	763.6	786.9	815.4	849.5	900.2	951.0	900.2
37.5°	876.2	791.2	706.3	703.4	728.0	752.5	777.1	799.5	815.7	831.9	815.7
40°	851.9	762.8	673.7	673.6	703.1	733.7	765.3	779.7	742.4	705.1	742.4
42.5°	825.8	736.7	647.6	645.0	671.2	704.9	746.0	761.1	698.1	635.1	698.1
45°	786.7	693.9	601.2	597.9	624.3	642.9	653.8	650.7	605.6	560.6	605.6
47.5°	740.5	652.1	563.8	563.0	591.5	593.6	569.3	546.6	529.0	511.4	529.0
50°	705.1	621.7	538.3	541.9	574.5	571.4	532.6	500.6	489.2	477.8	489.2
52.5°	670.6	591.3	512.1	521.7	561.0	554.8	503.1	462.4	454.7	447.1	454.7
55°	621.2	545.0	468.9	490.6	545.0	536.7	465.8	412.2	410.6	409.1	410.6
57.5°	568.7	496.7	424.7	439.8	484.0	475.3	413.7	368.2	370.9	373.6	370.9
60°	536.1	466.2	396.2	398.2	424.1	415.8	373.3	340.7	337.6	334.5	337.6
62.5°	501.6	435.0	368.4	358.7	368.0	358.3	329.5	307.1	304.0	300.9	304.0
65°	445.2	384.6	324.0	305.7	301.6	287.6	263.8	245.9	245.9	245.9	245.9
67.5°	383.2	330.4	277.5	257.1	247.5	233.6	215.4	198.7	186.3	173.9	186.3
70°	340.3	293.7	247.1	225.7	212.8	196.2	176.0	158.8	150.5	142.2	150.5
72.5°	294.6	254.6	214.6	192.8	176.9	160.7	144.3	129.5	120.0	110.5	120.0
75°	229.6	197.5	165.4	144.1	126.5	110.2	95.2	83.7	82.6	81.6	82.6
77.5°	166.0	142.5	119.1	101.9	86.8	75.5	67.9	62.3	62.4	62.5	62.4
80°	125.9	108.3	90.6	74.6	59.0	51.0	50.5	50.2	50.8	51.3	50.8
82.5°	88.6	75.5	62.5	52.2	42.9	38.6	39.3	39.9	40.0	40.1	40.0
85°	39.6	33.4	27.2	24.9	23.8	22.3	20.2	18.5	18.0	17.5	18.0
87.5°	9.1	9.6	10.4	10.3	9.7	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: P1427893

CATALOG NUMBER: SQ2W-PH1-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: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1194.8	1198.7	1203.7	1212.6	1225.5	1233.7	1227.9	1222.0	1227.9	1233.7	1225.5
5°	1117.4	1129.7	1145.7	1169.8	1201.9	1226.1	1226.7	1227.2	1226.7	1226.1	1201.9
7.5°	1043.1	1056.6	1074.3	1102.1	1140.2	1172.7	1188.7	1204.8	1188.7	1172.7	1140.2
10°	1002.3	1014.3	1030.4	1058.8	1099.8	1136.5	1160.9	1185.2	1160.9	1136.5	1099.8
12.5°	975.8	984.2	996.1	1022.5	1063.4	1103.7	1142.1	1180.6	1142.1	1103.7	1063.4
15°	952.4	953.3	956.4	975.6	1010.8	1051.7	1109.7	1167.7	1109.7	1051.7	1010.8
17.5°	940.3	933.6	927.0	937.3	964.4	1000.4	1062.9	1125.3	1062.9	1000.4	964.4
20°	932.7	921.8	909.4	915.1	938.9	972.2	1033.8	1095.5	1033.8	972.2	938.9
22.5°	919.9	908.8	895.1	897.5	915.9	945.4	1007.8	1070.3	1007.8	945.4	915.9
25°	893.5	884.9	873.0	869.7	874.8	896.3	966.8	1037.2	966.8	896.3	874.8
27.5°	862.4	856.7	849.5	842.8	836.7	850.5	924.0	997.6	924.0	850.5	836.7
30°	844.3	837.2	829.9	821.4	811.5	822.5	896.1	969.6	896.1	822.5	811.5
32.5°	847.4	830.6	813.4	797.4	782.6	790.5	866.5	942.6	866.5	790.5	782.6
35°	849.5	815.4	786.9	763.6	745.5	751.7	830.9	910.2	830.9	751.7	745.5
37.5°	799.5	777.1	752.5	728.0	703.4	706.3	791.2	876.2	791.2	706.3	703.4
40°	779.7	765.3	733.7	703.1	673.6	673.7	762.8	851.9	762.8	673.7	673.6
42.5°	761.1	746.0	704.9	671.2	645.0	647.6	736.7	825.8	736.7	647.6	645.0
45°	650.7	653.8	642.9	624.3	597.9	601.2	693.9	786.7	693.9	601.2	597.9
47.5°	546.6	569.3	593.6	591.5	563.0	563.8	652.1	740.5	652.1	563.8	563.0
50°	500.6	532.6	571.4	574.5	541.9	538.3	621.7	705.1	621.7	538.3	541.9
52.5°	462.4	503.1	554.8	561.0	521.7	512.1	591.3	670.6	591.3	512.1	521.7
55°	412.2	465.8	536.7	545.0	490.6	468.9	545.0	621.2	545.0	468.9	490.6
57.5°	368.2	413.7	475.3	484.0	439.8	424.7	496.7	568.7	496.7	424.7	439.8
60°	340.7	373.3	415.8	424.1	398.2	396.2	466.2	536.1	466.2	396.2	398.2
62.5°	307.1	329.5	358.3	368.0	358.7	368.4	435.0	501.6	435.0	368.4	358.7
65°	245.9	263.8	287.6	301.6	305.7	324.0	384.6	445.2	384.6	324.0	305.7
67.5°	198.7	215.4	233.6	247.5	257.1	277.5	330.4	383.2	330.4	277.5	257.1
70°	158.8	176.0	196.2	212.8	225.7	247.1	293.7	340.3	293.7	247.1	225.7
72.5°	129.5	144.3	160.7	176.9	192.8	214.6	254.6	294.6	254.6	214.6	192.8
75°	83.7	95.2	110.2	126.5	144.1	165.4	197.5	229.6	197.5	165.4	144.1
77.5°	62.3	67.9	75.5	86.8	101.9	119.1	142.5	166.0	142.5	119.1	101.9
80°	50.2	50.5	51.0	59.0	74.6	90.6	108.3	125.9	108.3	90.6	74.6
82.5°	39.9	39.3	38.6	42.9	52.2	62.5	75.5	88.6	75.5	62.5	52.2
85°	18.5	20.2	22.3	23.8	24.9	27.2	33.4	39.6	33.4	27.2	24.9
87.5°	9.6	9.3	9.3	9.7	10.3	10.4	9.6	9.1	9.6	10.1	10.7
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: P1427893

CATALOG NUMBER: SQ2W-PH1-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: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0	1194.8	1198.7	1203.7	1212.6
5°	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3	1117.4	1129.7	1145.7	1169.8
7.5°	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2	1043.1	1056.6	1074.3	1102.1
10°	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3	1002.3	1014.3	1030.4	1058.8
12.5°	1022.5	996.1	984.2	975.8	978.3	980.8	978.3	975.8	984.2	996.1	1022.5
15°	975.6	956.4	953.3	952.4	958.1	963.8	958.1	952.4	953.3	956.4	975.6
17.5°	937.3	927.0	933.6	940.3	946.9	953.5	946.9	940.3	933.6	927.0	937.3
20°	915.1	909.4	921.8	932.7	938.9	945.1	938.9	932.7	921.8	909.4	915.1
22.5°	897.5	895.1	908.8	919.9	923.2	926.5	923.2	919.9	908.8	895.1	897.5
25°	869.7	873.0	884.9	893.5	891.9	890.4	891.9	893.5	884.9	873.0	869.7
27.5°	842.8	849.5	856.7	862.4	863.3	864.3	863.3	862.4	856.7	849.5	842.8
30°	821.4	829.9	837.2	844.3	851.0	857.7	851.0	844.3	837.2	829.9	821.4
32.5°	797.4	813.4	830.6	847.4	862.8	878.3	862.8	847.4	830.6	813.4	797.4
35°	763.6	786.9	815.4	849.5	900.2	951.0	900.2	849.5	815.4	786.9	763.6
37.5°	728.0	752.5	777.1	799.5	815.7	831.9	815.7	799.5	777.1	752.5	728.0
40°	703.1	733.7	765.3	779.7	742.4	705.1	742.4	779.7	765.3	733.7	703.1
42.5°	671.2	704.9	746.0	761.1	698.1	635.1	698.1	761.1	746.0	704.9	671.2
45°	624.3	642.9	653.8	650.7	605.6	560.6	605.6	650.7	653.8	642.9	624.3
47.5°	591.5	593.6	569.3	546.6	529.0	511.4	529.0	546.6	569.3	593.6	591.5
50°	574.5	571.4	532.6	500.6	489.2	477.8	489.2	500.6	532.6	571.4	574.5
52.5°	561.0	554.8	503.1	462.4	454.7	447.1	454.7	462.4	503.1	554.8	561.0
55°	545.0	536.7	465.8	412.2	410.6	409.1	410.6	412.2	465.8	536.7	545.0
57.5°	484.0	475.3	413.7	368.2	370.9	373.6	370.9	368.2	413.7	475.3	484.0
60°	424.1	415.8	373.3	340.7	337.6	334.5	337.6	340.7	373.3	415.8	424.1
62.5°	368.0	358.3	329.5	307.1	304.0	300.9	304.0	307.1	329.5	358.3	368.0
65°	301.6	287.6	263.8	245.9	245.9	245.9	245.9	245.9	263.8	287.6	301.6
67.5°	247.5	233.6	215.4	198.7	186.3	173.9	186.3	198.7	215.4	233.6	247.5
70°	212.8	196.2	176.0	158.8	150.5	142.2	150.5	158.8	176.0	196.2	212.8
72.5°	176.9	160.7	144.3	129.5	120.0	110.5	120.0	129.5	144.3	160.7	176.9
75°	126.5	110.2	95.2	83.7	82.6	81.6	82.6	83.7	95.2	110.2	126.5
77.5°	86.8	75.5	67.9	62.3	62.4	62.5	62.4	62.3	67.9	75.5	86.8
80°	59.0	51.0	50.5	50.2	50.8	51.3	50.8	50.2	50.5	51.0	59.0
82.5°	42.9	38.6	39.3	39.9	40.0	40.1	40.0	39.9	39.3	38.6	42.9
85°	23.8	22.3	20.2	18.5	18.0	17.5	18.0	18.5	20.2	22.3	23.8
87.5°	10.6	11.6	13.3	14.2	15.1	14.7	15.1	14.2	13.3	11.6	10.6
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: P1427893

CATALOG NUMBER: SQ2W-PH1-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: P1427893

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1224.8	1224.8	1224.8	1224.8
2.5°	1225.5	1233.7	1227.9	1222.0
5°	1201.9	1226.1	1226.7	1227.2
7.5°	1140.2	1172.7	1188.7	1204.8
10°	1099.8	1136.5	1160.9	1185.2
12.5°	1063.4	1103.7	1142.1	1180.6
15°	1010.8	1051.7	1109.7	1167.7
17.5°	964.4	1000.4	1062.9	1125.3
20°	938.9	972.2	1033.8	1095.5
22.5°	915.9	945.4	1007.8	1070.3
25°	874.8	896.3	966.8	1037.2
27.5°	836.7	850.5	924.0	997.6
30°	811.5	822.5	896.1	969.6
32.5°	782.6	790.5	866.5	942.6
35°	745.5	751.7	830.9	910.2
37.5°	703.4	706.3	791.2	876.2
40°	673.6	673.7	762.8	851.9
42.5°	645.0	647.6	736.7	825.8
45°	597.9	601.2	693.9	786.7
47.5°	563.0	563.8	652.1	740.5
50°	541.9	538.3	621.7	705.1
52.5°	521.7	512.1	591.3	670.6
55°	490.6	468.9	545.0	621.2
57.5°	439.8	424.7	496.7	568.7
60°	398.2	396.2	466.2	536.1
62.5°	358.7	368.4	435.0	501.6
65°	305.7	324.0	384.6	445.2
67.5°	257.1	277.5	330.4	383.2
70°	225.7	247.1	293.7	340.3
72.5°	192.8	214.6	254.6	294.6
75°	144.1	165.4	197.5	229.6
77.5°	101.9	119.1	142.5	166.0
80°	74.6	90.6	108.3	125.9
82.5°	52.2	62.5	75.5	88.6
85°	24.9	27.2	33.4	39.6
87.5°	10.7	10.1	9.6	9.1
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: P1427893

CATALOG NUMBER: SQ2W-PH1-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: P1427893  
 CATALOG NUMBER: SQ2W-PH1-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	16.72	17.53	17.73	18.55	19.89	15.55	16.36	16.56	17.37	18.72
	3H	18.90	19.62	19.91	20.64	22.01	16.60	17.32	17.61	18.35	19.71
	4H	19.71	20.39	20.73	21.42	22.79	16.84	17.53	17.87	18.55	19.93
	6H	20.17	20.80	21.21	21.83	23.22	16.98	17.61	18.02	18.64	20.03
	8H	20.32	20.92	21.36	21.97	23.35	17.04	17.64	18.08	18.68	20.07
	12H	20.38	20.95	21.43	21.99	23.40	17.05	17.62	18.09	18.66	20.06
4H	2H	17.15	17.84	18.19	18.86	20.24	16.23	16.92	17.26	17.94	19.32
	3H	19.40	19.97	20.44	21.02	22.41	17.46	18.03	18.50	19.08	20.47
	4H	20.27	20.79	21.32	21.84	23.25	17.74	18.27	18.79	19.31	20.72
	6H	20.83	21.28	21.89	22.34	23.75	17.94	18.39	19.00	19.46	20.86
	8H	21.03	21.45	22.09	22.51	23.93	18.03	18.45	19.09	19.51	20.93
	12H	21.11	21.49	22.19	22.56	23.99	18.05	18.43	19.13	19.50	20.93
8H	4H	20.29	20.71	21.35	21.77	23.19	17.97	18.39	19.03	19.45	20.87
	6H	20.92	21.26	22.00	22.36	23.78	18.24	18.58	19.32	19.68	21.10
	8H	21.18	21.48	22.27	22.57	24.01	18.38	18.68	19.47	19.77	21.21
	12H	21.31	21.57	22.40	22.66	24.13	18.44	18.71	19.54	19.79	21.27
12H	4H	20.24	20.62	21.32	21.69	23.12	17.96	18.34	19.04	19.42	20.84
	6H	20.89	21.20	21.98	22.28	23.72	18.27	18.57	19.36	19.66	21.10
	8H	21.16	21.43	22.26	22.51	23.99	18.43	18.70	19.52	19.78	21.26