

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: P1427896

Luminaire Tested: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427896  
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-L940-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, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

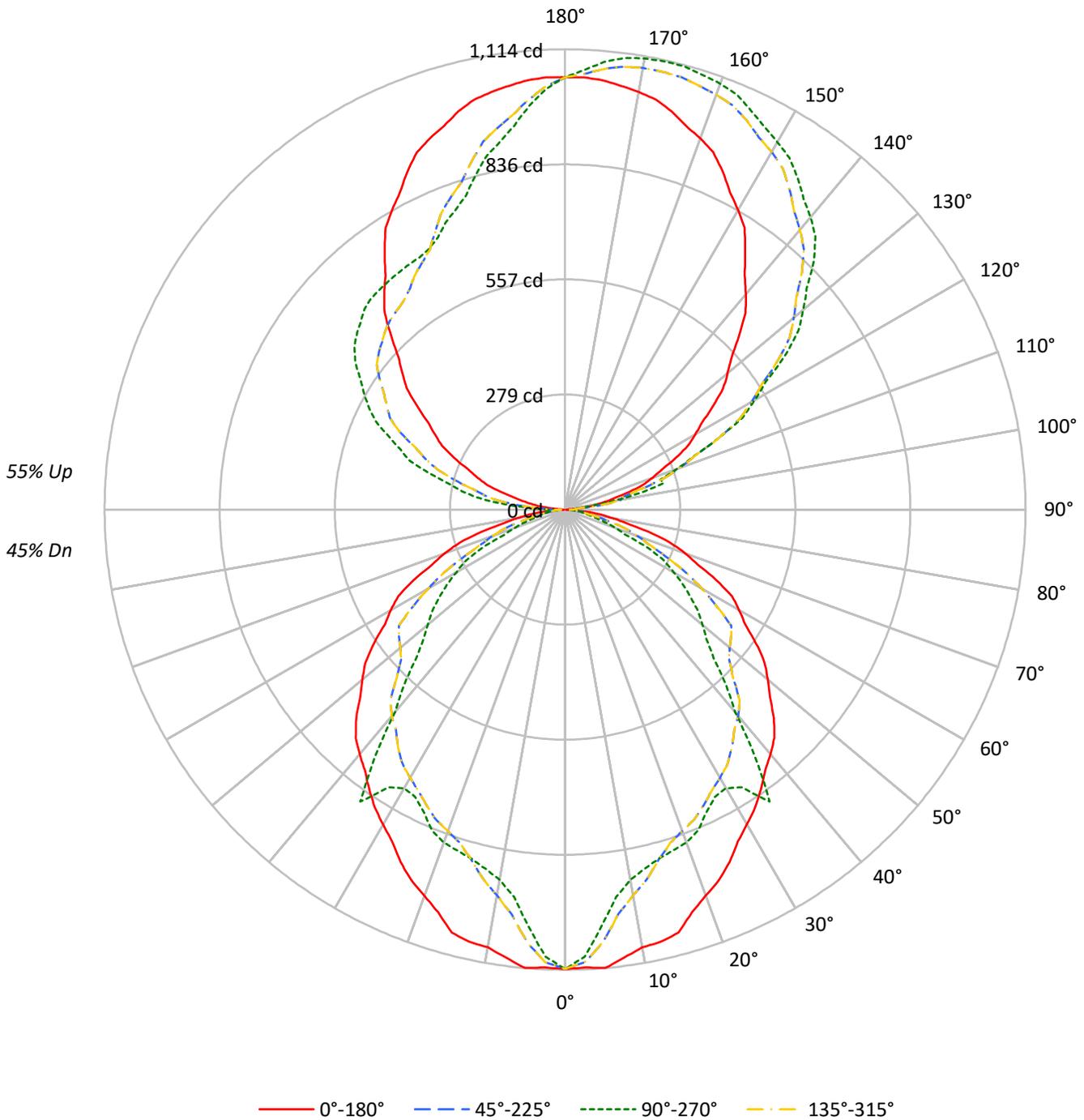
Lumens per Lamp: N/A  
Luminaire Lumens: 5516.9 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	17949	17949	17949	17949
5°	18052	16407	18052	16407
10°	17637	14914	17637	14914
15°	17716	14622	17716	14622
20°	17084	14740	17084	14740
25°	16771	14396	16771	14396
30°	16408	14514	16408	14514
35°	16282	17012	16282	17012
40°	16296	13489	16296	13489
45°	16303	11618	16303	11618
50°	16076	10894	16076	10894
55°	15870	10452	15870	10452
60°	15713	9804	15713	9804
65°	15438	8527	15438	8527
70°	14582	6090	14582	6090
75°	13000	4616	13000	4616
80°	10618	4324	10618	4324
85°	6669	2945	6669	2945

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16303 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	1.8
10°-20°	257.3	4.7
20°-30°	377.2	6.8
30°-40°	456.8	8.3
40°-50°	449.2	8.1
50°-60°	390.7	7.1
60°-70°	271.7	4.9
70°-80°	128.9	2.3
80°-90°	32.7	0.6
90°-100°	83.3	1.5
100°-110°	242.8	4.4
110°-120°	396.2	7.2
120°-130°	502.8	9.1
130°-140°	538.0	9.8
140°-150°	502.4	9.1
150°-160°	413.4	7.5
160°-170°	277.2	5.0
170°-180°	98.4	1.8
0°-30°	732.4	13.3
0°-40°	1189.2	21.6
0°-60°	2029.1	36.8
0°-90°	2462.4	44.6
90°-120°	722.3	13.1
90°-150°	2265.4	41.1
90°-180°	3054.0	55.4
0°-180°	5516.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1112	1112	1112	1112	1112	
5°	1114	1012	1114	1012	1114	105
15°	1060	875	1060	875	1060	295
25°	941	808	941	808	941	433
35°	826	863	826	863	826	517
45°	714	509	714	509	714	549
55°	564	371	564	371	564	504
65°	404	223	404	223	404	397
75°	208	74	208	74	208	221
85°	36	16	36	16	36	48
90°	3	23	3	45	3	4
95°	33	24	33	143	33	40
105°	154	247	154	340	154	164
115°	296	410	296	505	296	292
125°	438	650	438	619	438	391
135°	595	851	595	686	595	460
145°	760	981	760	701	760	475
155°	902	1065	902	727	902	415
165°	998	1111	998	837	998	281
175°	1043	1087	1043	982	1043	99
180°	1046	1046	1046	1046	1046	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1109.2	1114.4	1119.7	1112.3	1100.6	1092.5	1088.0	1084.5	1083.7	1083.0	1083.7
5°	1113.8	1113.4	1112.9	1090.9	1061.8	1039.9	1025.3	1014.2	1013.2	1012.3	1013.2
7.5°	1093.5	1079.0	1064.4	1034.9	1000.3	975.1	959.0	946.7	946.0	945.2	946.0
10°	1075.8	1053.7	1031.6	998.2	961.0	935.2	920.6	909.7	909.7	909.7	909.7
12.5°	1071.5	1036.6	1001.8	965.2	928.0	904.1	893.3	885.7	888.0	890.2	888.0
15°	1059.9	1007.2	954.6	917.4	885.5	868.1	865.3	864.4	869.6	874.8	869.6
17.5°	1021.4	964.7	908.0	875.3	850.7	841.4	847.4	853.4	859.5	865.5	859.5
20°	994.3	938.4	882.4	852.2	830.6	825.4	836.7	846.6	852.2	857.9	852.2
22.5°	971.5	914.8	858.1	831.3	814.6	812.4	824.9	834.9	837.9	840.9	837.9
25°	941.4	877.5	813.5	794.0	789.3	792.4	803.2	811.0	809.6	808.1	809.6
27.5°	905.5	838.7	771.9	759.4	765.0	771.0	777.6	782.8	783.6	784.4	783.6
30°	880.1	813.3	746.6	736.6	745.5	753.3	759.8	766.3	772.4	778.5	772.4
32.5°	855.5	786.5	717.5	710.3	723.8	738.3	753.9	769.1	783.1	797.1	783.1
35°	826.1	754.2	682.3	676.6	693.1	714.2	740.1	771.0	817.1	863.1	817.1
37.5°	795.2	718.1	641.0	638.5	660.8	683.0	705.3	725.7	740.4	755.0	740.4
40°	773.2	692.4	611.5	611.4	638.2	665.9	694.6	707.7	673.8	640.0	673.8
42.5°	749.5	668.7	587.8	585.4	609.2	639.8	677.1	690.8	633.7	576.5	633.7
45°	714.0	629.8	545.7	542.6	566.6	583.5	593.4	590.6	549.7	508.8	549.7
47.5°	672.1	591.9	511.7	511.0	536.9	538.8	516.7	496.1	480.1	464.2	480.1
50°	640.0	564.3	488.6	491.9	521.5	518.7	483.4	454.4	444.0	433.7	444.0
52.5°	608.6	536.7	464.8	473.5	509.2	503.5	456.6	419.7	412.7	405.8	412.7
55°	563.8	494.7	425.6	445.3	494.7	487.2	422.8	374.1	372.7	371.3	372.7
57.5°	516.2	450.8	385.5	399.2	439.3	431.4	375.5	334.2	336.7	339.1	336.7
60°	486.6	423.1	359.6	361.4	384.9	377.4	338.8	309.2	306.4	303.6	306.4
62.5°	455.3	394.8	334.4	325.6	334.0	325.2	299.1	278.8	275.9	273.1	275.9
65°	404.1	349.1	294.1	277.5	273.7	261.0	239.4	223.2	223.2	223.2	223.2
67.5°	347.8	299.8	251.9	233.3	224.6	212.0	195.5	180.4	169.1	157.8	169.1
70°	308.9	266.6	224.2	204.9	193.1	178.1	159.7	144.1	136.6	129.0	136.6
72.5°	267.4	231.1	194.8	175.0	160.6	145.9	131.0	117.6	108.9	100.3	108.9
75°	208.4	179.2	150.1	130.8	114.8	100.0	86.4	75.9	75.0	74.0	75.0
77.5°	150.6	129.4	108.1	92.5	78.8	68.5	61.6	56.5	56.6	56.7	56.6
80°	114.2	98.3	82.3	67.7	53.6	46.3	45.8	45.6	46.1	46.5	46.1
82.5°	80.4	68.5	56.7	47.4	38.9	35.0	35.7	36.2	36.3	36.4	36.3
85°	36.0	30.3	24.7	22.6	21.6	20.2	18.3	16.8	16.3	15.9	16.3
87.5°	8.2	8.7	9.4	9.3	8.8	8.5	8.5	8.7	8.9	8.9	8.9
90°	3.2	7.4	12.7	16.9	20.1	21.1	21.1	22.2	23.2	23.2	23.2
92.5°	11.6	18.4	18.6	18.6	22.6	24.5	26.2	26.4	27.5	27.5	27.5
95°	32.8	35.9	53.9	52.8	35.9	28.5	24.3	24.3	24.3	24.3	24.3
97.5°	62.6	67.2	70.2	94.0	99.3	95.9	78.2	65.7	58.8	55.6	58.8
100°	88.8	90.9	97.2	98.3	124.7	150.0	137.4	121.5	116.2	113.1	116.2
102.5°	115.0	116.2	126.0	130.4	136.5	150.9	194.9	190.0	186.4	185.8	186.4
105°	154.3	155.3	173.3	181.7	186.0	186.0	184.9	206.1	239.9	247.3	239.9
107.5°	196.3	201.2	222.3	244.9	249.8	251.1	245.6	242.4	241.1	242.0	241.1
110°	225.1	232.5	257.8	286.4	293.8	295.9	293.8	290.6	288.5	288.5	288.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	253.0	263.7	292.5	325.2	337.7	344.1	339.4	337.1	335.0	336.7	335.0
115°	295.9	311.7	349.8	383.6	408.9	412.1	411.0	411.0	410.0	410.0	410.0
117.5°	335.6	361.0	403.7	443.0	472.3	480.8	485.0	483.7	482.5	484.6	482.5
120°	363.5	393.1	441.7	486.1	514.6	527.3	531.5	529.4	531.5	529.4	531.5
122.5°	393.1	429.4	477.2	523.3	556.9	571.2	576.3	576.7	577.2	575.9	577.2
125°	437.5	481.8	537.8	585.4	620.3	637.2	641.4	642.5	644.6	649.9	644.6
127.5°	482.3	532.6	594.1	639.9	675.6	696.1	702.7	705.0	709.5	711.8	709.5
130°	513.5	570.6	632.9	676.3	711.1	733.3	745.0	748.1	753.4	752.4	753.4
132.5°	546.5	606.1	669.3	714.3	746.6	770.5	780.5	789.5	791.5	792.9	791.5
135°	594.9	659.4	722.8	767.1	797.8	821.0	833.7	842.2	847.5	850.6	847.5
137.5°	645.8	713.9	774.8	814.3	845.1	865.2	879.6	888.5	893.9	896.5	893.9
140°	680.5	746.0	805.2	846.4	873.9	893.9	906.6	917.2	923.5	923.5	923.5
142.5°	713.5	778.1	835.6	876.8	900.9	919.3	932.8	940.9	948.0	948.0	948.0
145°	759.7	824.2	877.0	918.3	938.3	955.2	970.0	976.4	980.6	980.6	980.6
147.5°	808.1	865.2	913.4	952.9	969.8	989.7	1001.3	1006.4	1011.7	1009.3	1011.7
150°	836.9	889.7	936.2	973.2	990.1	1009.1	1020.7	1025.0	1030.3	1027.1	1030.3
152.5°	864.8	915.1	957.3	991.8	1006.2	1025.2	1038.5	1042.7	1046.3	1044.0	1046.3
155°	902.4	946.8	985.9	1017.6	1030.3	1048.2	1060.9	1066.2	1070.4	1065.1	1070.4
157.5°	936.0	974.3	1008.3	1037.4	1051.0	1066.4	1078.2	1084.8	1089.0	1086.7	1089.0
160°	956.3	991.2	1021.8	1049.3	1062.0	1075.7	1088.4	1095.8	1100.0	1096.8	1100.0
162.5°	973.2	1004.7	1033.6	1058.6	1069.6	1081.6	1096.8	1103.4	1107.6	1103.6	1107.6
165°	997.5	1022.9	1048.2	1069.4	1078.9	1088.4	1104.2	1111.6	1114.8	1110.6	1114.8
167.5°	1015.9	1035.3	1055.8	1074.0	1081.0	1090.3	1106.1	1112.3	1116.3	1111.0	1116.3
170°	1026.0	1042.9	1060.9	1075.7	1081.0	1089.4	1105.3	1110.6	1113.7	1108.5	1113.7
172.5°	1034.5	1047.2	1061.7	1074.9	1077.6	1084.4	1099.4	1104.6	1107.0	1102.5	1107.0
175°	1042.9	1050.3	1060.9	1069.4	1068.3	1072.5	1085.2	1089.4	1093.7	1087.3	1093.7
177.5°	1047.0	1050.3	1053.7	1058.8	1055.4	1055.4	1064.7	1067.2	1068.1	1064.7	1068.1
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1084.5	1088.0	1092.5	1100.6	1112.3	1119.7	1114.4	1109.2	1114.4	1119.7	1112.3
5°	1014.2	1025.3	1039.9	1061.8	1090.9	1112.9	1113.4	1113.8	1113.4	1112.9	1090.9
7.5°	946.7	959.0	975.1	1000.3	1034.9	1064.4	1079.0	1093.5	1079.0	1064.4	1034.9
10°	909.7	920.6	935.2	961.0	998.2	1031.6	1053.7	1075.8	1053.7	1031.6	998.2
12.5°	885.7	893.3	904.1	928.0	965.2	1001.8	1036.6	1071.5	1036.6	1001.8	965.2
15°	864.4	865.3	868.1	885.5	917.4	954.6	1007.2	1059.9	1007.2	954.6	917.4
17.5°	853.4	847.4	841.4	850.7	875.3	908.0	964.7	1021.4	964.7	908.0	875.3
20°	846.6	836.7	825.4	830.6	852.2	882.4	938.4	994.3	938.4	882.4	852.2
22.5°	834.9	824.9	812.4	814.6	831.3	858.1	914.8	971.5	914.8	858.1	831.3
25°	811.0	803.2	792.4	789.3	794.0	813.5	877.5	941.4	877.5	813.5	794.0
27.5°	782.8	777.6	771.0	765.0	759.4	771.9	838.7	905.5	838.7	771.9	759.4
30°	766.3	759.8	753.3	745.5	736.6	746.6	813.3	880.1	813.3	746.6	736.6
32.5°	769.1	753.9	738.3	723.8	710.3	717.5	786.5	855.5	786.5	717.5	710.3
35°	771.0	740.1	714.2	693.1	676.6	682.3	754.2	826.1	754.2	682.3	676.6
37.5°	725.7	705.3	683.0	660.8	638.5	641.0	718.1	795.2	718.1	641.0	638.5
40°	707.7	694.6	665.9	638.2	611.4	611.5	692.4	773.2	692.4	611.5	611.4
42.5°	690.8	677.1	639.8	609.2	585.4	587.8	668.7	749.5	668.7	587.8	585.4
45°	590.6	593.4	583.5	566.6	542.6	545.7	629.8	714.0	629.8	545.7	542.6
47.5°	496.1	516.7	538.8	536.9	511.0	511.7	591.9	672.1	591.9	511.7	511.0
50°	454.4	483.4	518.7	521.5	491.9	488.6	564.3	640.0	564.3	488.6	491.9
52.5°	419.7	456.6	503.5	509.2	473.5	464.8	536.7	608.6	536.7	464.8	473.5
55°	374.1	422.8	487.2	494.7	445.3	425.6	494.7	563.8	494.7	425.6	445.3
57.5°	334.2	375.5	431.4	439.3	399.2	385.5	450.8	516.2	450.8	385.5	399.2
60°	309.2	338.8	377.4	384.9	361.4	359.6	423.1	486.6	423.1	359.6	361.4
62.5°	278.8	299.1	325.2	334.0	325.6	334.4	394.8	455.3	394.8	334.4	325.6
65°	223.2	239.4	261.0	273.7	277.5	294.1	349.1	404.1	349.1	294.1	277.5
67.5°	180.4	195.5	212.0	224.6	233.3	251.9	299.8	347.8	299.8	251.9	233.3
70°	144.1	159.7	178.1	193.1	204.9	224.2	266.6	308.9	266.6	224.2	204.9
72.5°	117.6	131.0	145.9	160.6	175.0	194.8	231.1	267.4	231.1	194.8	175.0
75°	75.9	86.4	100.0	114.8	130.8	150.1	179.2	208.4	179.2	150.1	130.8
77.5°	56.5	61.6	68.5	78.8	92.5	108.1	129.4	150.6	129.4	108.1	92.5
80°	45.6	45.8	46.3	53.6	67.7	82.3	98.3	114.2	98.3	82.3	67.7
82.5°	36.2	35.7	35.0	38.9	47.4	56.7	68.5	80.4	68.5	56.7	47.4
85°	16.8	18.3	20.2	21.6	22.6	24.7	30.3	36.0	30.3	24.7	22.6
87.5°	8.7	8.5	8.5	8.8	9.3	9.4	8.7	8.2	8.7	9.2	9.7
90°	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4	11.6	19.0
92.5°	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1	28.5	41.0
95°	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5	65.5	82.4
97.5°	65.7	78.2	95.9	99.3	94.0	70.2	67.2	62.6	85.2	104.0	131.2
100°	121.5	137.4	150.0	124.7	98.3	97.2	90.9	88.8	113.1	131.0	157.4
102.5°	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3	164.0	186.2
105°	206.1	184.9	186.0	186.0	181.7	173.3	155.3	154.3	181.7	210.3	237.8
107.5°	242.4	245.6	251.1	249.8	244.9	222.3	201.2	196.3	221.1	255.3	285.5
110°	290.6	293.8	295.9	293.8	286.4	257.8	232.5	225.1	247.3	283.2	315.9



TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	337.1	339.4	344.1	337.7	325.2	292.5	263.7	253.0	275.2	311.9	345.5
115°	411.0	411.0	412.1	408.9	383.6	349.8	311.7	295.9	314.9	348.7	385.7
117.5°	483.7	485.0	480.8	472.3	443.0	403.7	361.0	335.6	350.6	386.3	424.4
120°	529.4	531.5	527.3	514.6	486.1	441.7	393.1	363.5	375.1	410.0	448.0
122.5°	576.7	576.3	571.2	556.9	523.3	477.2	429.4	393.1	397.9	430.3	467.5
125°	642.5	641.4	637.2	620.3	585.4	537.8	481.8	437.5	431.1	458.6	496.6
127.5°	705.0	702.7	696.1	675.6	639.9	594.1	532.6	482.3	468.1	485.4	520.3
130°	748.1	745.0	733.3	711.1	676.3	632.9	570.6	513.5	493.5	504.0	534.7
132.5°	789.5	780.5	770.5	746.6	714.3	669.3	606.1	546.5	518.8	523.5	547.4
135°	842.2	833.7	821.0	797.8	767.1	722.8	659.4	594.9	556.9	552.6	566.4
137.5°	888.5	879.6	865.2	845.1	814.3	774.8	713.9	645.8	597.9	583.7	589.0
140°	917.2	906.6	893.9	873.9	846.4	805.2	746.0	680.5	626.6	606.5	603.4
142.5°	940.9	932.8	919.3	900.9	876.8	835.6	778.1	713.5	656.2	630.2	622.8
145°	976.4	970.0	955.2	938.3	918.3	877.0	824.2	759.7	702.7	668.9	653.0
147.5°	1006.4	1001.3	989.7	969.8	952.9	913.4	865.2	808.1	749.6	707.8	687.3
150°	1025.0	1020.7	1009.1	990.1	973.2	936.2	889.7	836.9	780.9	736.5	710.1
152.5°	1042.7	1038.5	1025.2	1006.2	991.8	957.3	915.1	864.8	807.9	763.6	736.3
155°	1066.2	1060.9	1048.2	1030.3	1017.6	985.9	946.8	902.4	853.8	807.3	776.7
157.5°	1084.8	1078.2	1066.4	1051.0	1037.4	1008.3	974.3	936.0	893.5	849.1	817.9
160°	1095.8	1088.4	1075.7	1062.0	1049.3	1021.8	991.2	956.3	917.2	877.0	843.2
162.5°	1103.4	1096.8	1081.6	1069.6	1058.6	1033.6	1004.7	973.2	938.3	903.2	872.0
165°	1111.6	1104.2	1088.4	1078.9	1069.4	1048.2	1022.9	997.5	967.9	939.4	914.0
167.5°	1112.3	1106.1	1090.3	1081.0	1074.0	1055.8	1035.3	1015.9	992.9	970.5	949.3
170°	1110.6	1105.3	1089.4	1081.0	1075.7	1060.9	1042.9	1026.0	1008.1	989.0	972.1
172.5°	1104.6	1099.4	1084.4	1077.6	1074.9	1061.7	1047.2	1034.5	1019.1	1005.1	991.6
175°	1089.4	1085.2	1072.5	1068.3	1069.4	1060.9	1050.3	1042.9	1033.4	1025.0	1017.6
177.5°	1067.2	1064.7	1055.4	1055.4	1058.8	1053.7	1050.3	1047.0	1042.7	1040.2	1037.7
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1100.6	1092.5	1088.0	1084.5	1083.7	1083.0	1083.7	1084.5	1088.0	1092.5	1100.6
5°	1061.8	1039.9	1025.3	1014.2	1013.2	1012.3	1013.2	1014.2	1025.3	1039.9	1061.8
7.5°	1000.3	975.1	959.0	946.7	946.0	945.2	946.0	946.7	959.0	975.1	1000.3
10°	961.0	935.2	920.6	909.7	909.7	909.7	909.7	909.7	920.6	935.2	961.0
12.5°	928.0	904.1	893.3	885.7	888.0	890.2	888.0	885.7	893.3	904.1	928.0
15°	885.5	868.1	865.3	864.4	869.6	874.8	869.6	864.4	865.3	868.1	885.5
17.5°	850.7	841.4	847.4	853.4	859.5	865.5	859.5	853.4	847.4	841.4	850.7
20°	830.6	825.4	836.7	846.6	852.2	857.9	852.2	846.6	836.7	825.4	830.6
22.5°	814.6	812.4	824.9	834.9	837.9	840.9	837.9	834.9	824.9	812.4	814.6
25°	789.3	792.4	803.2	811.0	809.6	808.1	809.6	811.0	803.2	792.4	789.3
27.5°	765.0	771.0	777.6	782.8	783.6	784.4	783.6	782.8	777.6	771.0	765.0
30°	745.5	753.3	759.8	766.3	772.4	778.5	772.4	766.3	759.8	753.3	745.5
32.5°	723.8	738.3	753.9	769.1	783.1	797.1	783.1	769.1	753.9	738.3	723.8
35°	693.1	714.2	740.1	771.0	817.1	863.1	817.1	771.0	740.1	714.2	693.1
37.5°	660.8	683.0	705.3	725.7	740.4	755.0	740.4	725.7	705.3	683.0	660.8
40°	638.2	665.9	694.6	707.7	673.8	640.0	673.8	707.7	694.6	665.9	638.2
42.5°	609.2	639.8	677.1	690.8	633.7	576.5	633.7	690.8	677.1	639.8	609.2
45°	566.6	583.5	593.4	590.6	549.7	508.8	549.7	590.6	593.4	583.5	566.6
47.5°	536.9	538.8	516.7	496.1	480.1	464.2	480.1	496.1	516.7	538.8	536.9
50°	521.5	518.7	483.4	454.4	444.0	433.7	444.0	454.4	483.4	518.7	521.5
52.5°	509.2	503.5	456.6	419.7	412.7	405.8	412.7	419.7	456.6	503.5	509.2
55°	494.7	487.2	422.8	374.1	372.7	371.3	372.7	374.1	422.8	487.2	494.7
57.5°	439.3	431.4	375.5	334.2	336.7	339.1	336.7	334.2	375.5	431.4	439.3
60°	384.9	377.4	338.8	309.2	306.4	303.6	306.4	309.2	338.8	377.4	384.9
62.5°	334.0	325.2	299.1	278.8	275.9	273.1	275.9	278.8	299.1	325.2	334.0
65°	273.7	261.0	239.4	223.2	223.2	223.2	223.2	223.2	239.4	261.0	273.7
67.5°	224.6	212.0	195.5	180.4	169.1	157.8	169.1	180.4	195.5	212.0	224.6
70°	193.1	178.1	159.7	144.1	136.6	129.0	136.6	144.1	159.7	178.1	193.1
72.5°	160.6	145.9	131.0	117.6	108.9	100.3	108.9	117.6	131.0	145.9	160.6
75°	114.8	100.0	86.4	75.9	75.0	74.0	75.0	75.9	86.4	100.0	114.8
77.5°	78.8	68.5	61.6	56.5	56.6	56.7	56.6	56.5	61.6	68.5	78.8
80°	53.6	46.3	45.8	45.6	46.1	46.5	46.1	45.6	45.8	46.3	53.6
82.5°	38.9	35.0	35.7	36.2	36.3	36.4	36.3	36.2	35.7	35.0	38.9
85°	21.6	20.2	18.3	16.8	16.3	15.9	16.3	16.8	18.3	20.2	21.6
87.5°	9.7	10.6	12.1	12.9	13.7	13.3	13.7	12.9	12.1	10.6	9.7
90°	24.3	31.7	39.1	43.3	47.6	45.4	47.6	43.3	39.1	31.7	24.3
92.5°	48.8	61.3	70.4	78.0	81.4	80.9	81.4	78.0	70.4	61.3	48.8
95°	98.3	113.1	127.9	138.4	144.8	142.7	144.8	138.4	127.9	113.1	98.3
97.5°	151.5	171.4	187.9	197.8	204.1	208.4	204.1	197.8	187.9	171.4	151.5
100°	187.0	206.1	225.1	236.7	247.3	251.5	247.3	236.7	225.1	206.1	187.0
102.5°	215.8	240.7	261.4	273.9	282.8	287.0	282.8	273.9	261.4	240.7	215.8
105°	263.1	289.5	311.7	327.6	337.1	340.2	337.1	327.6	311.7	289.5	263.1
107.5°	310.5	337.7	358.2	375.8	387.4	394.1	387.4	375.8	358.2	337.7	310.5
110°	347.6	369.8	392.0	407.9	419.5	423.7	419.5	407.9	392.0	369.8	347.6



TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	378.9	403.7	425.8	441.7	455.0	460.9	455.0	441.7	425.8	403.7	378.9
115°	422.7	455.4	475.5	490.3	499.8	505.1	499.8	490.3	475.5	455.4	422.7
117.5°	459.0	493.3	515.2	526.6	531.1	534.9	531.1	526.6	515.2	493.3	459.0
120°	481.8	513.5	538.9	553.7	559.0	561.1	559.0	553.7	538.9	513.5	481.8
122.5°	503.0	533.0	557.5	575.7	584.3	586.5	584.3	575.7	557.5	533.0	503.0
125°	532.6	561.1	586.5	604.4	613.9	619.2	613.9	604.4	586.5	561.1	532.6
127.5°	558.3	589.2	612.4	628.7	638.0	642.2	638.0	628.7	612.4	589.2	558.3
130°	572.7	604.4	627.7	645.6	654.1	658.3	654.1	645.6	627.7	604.4	572.7
132.5°	583.7	617.1	641.2	657.5	666.8	671.0	666.8	657.5	641.2	617.1	583.7
135°	597.0	631.9	657.3	673.1	681.6	685.8	681.6	673.1	657.3	631.9	597.0
137.5°	608.6	640.3	666.8	683.5	691.1	693.8	691.1	683.5	666.8	640.3	608.6
140°	617.1	644.6	671.0	686.8	695.3	696.3	695.3	686.8	671.0	644.6	617.1
142.5°	628.1	649.6	672.7	688.5	697.0	698.9	697.0	688.5	672.7	649.6	628.1
145°	647.7	660.4	676.3	691.1	698.5	700.6	698.5	691.1	676.3	660.4	647.7
147.5°	672.5	676.5	684.7	694.4	701.6	703.1	701.6	694.4	684.7	676.5	672.5
150°	691.1	690.0	693.2	699.5	705.9	704.8	705.9	699.5	693.2	690.0	691.1
152.5°	712.2	706.1	705.9	708.8	711.8	711.6	711.8	708.8	705.9	706.1	712.2
155°	748.1	736.5	730.2	728.0	728.0	727.0	728.0	728.0	730.2	736.5	748.1
157.5°	787.6	771.4	761.9	756.8	755.3	753.0	755.3	756.8	761.9	771.4	787.6
160°	814.7	796.7	787.2	778.8	775.6	772.4	775.6	778.8	787.2	796.7	814.7
162.5°	840.1	822.9	812.6	805.0	801.8	796.9	801.8	805.0	812.6	822.9	840.1
165°	881.3	863.3	851.7	845.3	841.1	836.9	841.1	845.3	851.7	863.3	881.3
167.5°	922.5	902.8	895.2	888.0	884.0	876.4	884.0	888.0	895.2	902.8	922.5
170°	947.8	929.9	925.6	919.3	911.9	903.5	911.9	919.3	925.6	929.9	947.8
172.5°	969.8	957.8	953.5	947.2	944.9	938.1	944.9	947.2	953.5	957.8	969.8
175°	1001.7	992.2	992.2	991.2	988.0	981.7	988.0	991.2	992.2	992.2	1001.7
177.5°	1028.4	1023.3	1026.7	1026.7	1025.8	1019.9	1025.8	1026.7	1026.7	1023.3	1028.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1111.7	1111.7	1111.7	1111.7
2.5°	1112.3	1119.7	1114.4	1109.2
5°	1090.9	1112.9	1113.4	1113.8
7.5°	1034.9	1064.4	1079.0	1093.5
10°	998.2	1031.6	1053.7	1075.8
12.5°	965.2	1001.8	1036.6	1071.5
15°	917.4	954.6	1007.2	1059.9
17.5°	875.3	908.0	964.7	1021.4
20°	852.2	882.4	938.4	994.3
22.5°	831.3	858.1	914.8	971.5
25°	794.0	813.5	877.5	941.4
27.5°	759.4	771.9	838.7	905.5
30°	736.6	746.6	813.3	880.1
32.5°	710.3	717.5	786.5	855.5
35°	676.6	682.3	754.2	826.1
37.5°	638.5	641.0	718.1	795.2
40°	611.4	611.5	692.4	773.2
42.5°	585.4	587.8	668.7	749.5
45°	542.6	545.7	629.8	714.0
47.5°	511.0	511.7	591.9	672.1
50°	491.9	488.6	564.3	640.0
52.5°	473.5	464.8	536.7	608.6
55°	445.3	425.6	494.7	563.8
57.5°	399.2	385.5	450.8	516.2
60°	361.4	359.6	423.1	486.6
62.5°	325.6	334.4	394.8	455.3
65°	277.5	294.1	349.1	404.1
67.5°	233.3	251.9	299.8	347.8
70°	204.9	224.2	266.6	308.9
72.5°	175.0	194.8	231.1	267.4
75°	130.8	150.1	179.2	208.4
77.5°	92.5	108.1	129.4	150.6
80°	67.7	82.3	98.3	114.2
82.5°	47.4	56.7	68.5	80.4
85°	22.6	24.7	30.3	36.0
87.5°	9.7	9.2	8.7	8.2
90°	19.0	11.6	7.4	3.2
92.5°	41.0	28.5	20.1	11.6
95°	82.4	65.5	46.5	32.8
97.5°	131.2	104.0	85.2	62.6
100°	157.4	131.0	113.1	88.8
102.5°	186.2	164.0	139.3	115.0
105°	237.8	210.3	181.7	154.3
107.5°	285.5	255.3	221.1	196.3
110°	315.9	283.2	247.3	225.1



TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	345.5	311.9	275.2	253.0
115°	385.7	348.7	314.9	295.9
117.5°	424.4	386.3	350.6	335.6
120°	448.0	410.0	375.1	363.5
122.5°	467.5	430.3	397.9	393.1
125°	496.6	458.6	431.1	437.5
127.5°	520.3	485.4	468.1	482.3
130°	534.7	504.0	493.5	513.5
132.5°	547.4	523.5	518.8	546.5
135°	566.4	552.6	556.9	594.9
137.5°	589.0	583.7	597.9	645.8
140°	603.4	606.5	626.6	680.5
142.5°	622.8	630.2	656.2	713.5
145°	653.0	668.9	702.7	759.7
147.5°	687.3	707.8	749.6	808.1
150°	710.1	736.5	780.9	836.9
152.5°	736.3	763.6	807.9	864.8
155°	776.7	807.3	853.8	902.4
157.5°	817.9	849.1	893.5	936.0
160°	843.2	877.0	917.2	956.3
162.5°	872.0	903.2	938.3	973.2
165°	914.0	939.4	967.9	997.5
167.5°	949.3	970.5	992.9	1015.9
170°	972.1	989.0	1008.1	1026.0
172.5°	991.6	1005.1	1019.1	1034.5
175°	1017.6	1025.0	1033.4	1042.9
177.5°	1037.7	1040.2	1042.7	1047.0
180°	1046.1	1046.1	1046.1	1046.1

TEST NUMBER: P1427896

CATALOG NUMBER: SQ2W-PH1-K-075U-050D-L940-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.39	17.20	17.39	18.21	19.56	15.22	16.02	16.22	17.04	18.38
	3H	18.56	19.28	19.57	20.30	21.67	16.26	16.99	17.28	18.01	19.38
	4H	19.37	20.05	20.40	21.08	22.45	16.50	17.19	17.53	18.21	19.59
	6H	19.83	20.46	20.87	21.49	22.88	16.64	17.27	17.68	18.30	19.69
	8H	19.98	20.58	21.03	21.63	23.01	16.70	17.30	17.74	18.35	19.73
	12H	20.04	20.61	21.09	21.65	23.06	16.71	17.28	17.76	18.32	19.73
4H	2H	16.82	17.50	17.85	18.53	19.90	15.89	16.58	16.93	17.60	18.98
	3H	19.06	19.63	20.11	20.69	22.08	17.12	17.69	18.16	18.74	20.13
	4H	19.93	20.46	20.98	21.50	22.91	17.41	17.93	18.46	18.97	20.39
	6H	20.49	20.94	21.55	22.01	23.41	17.60	18.05	18.66	19.12	20.53
	8H	20.69	21.11	21.75	22.17	23.59	17.69	18.11	18.75	19.17	20.59
	12H	20.77	21.15	21.85	22.23	23.65	17.71	18.09	18.79	19.17	20.59
8H	4H	19.95	20.37	21.01	21.43	22.85	17.63	18.05	18.69	19.11	20.53
	6H	20.58	20.93	21.66	22.03	23.45	17.90	18.24	18.98	19.35	20.76
	8H	20.84	21.15	21.93	22.23	23.67	18.04	18.35	19.13	19.43	20.87
	12H	20.97	21.24	22.06	22.32	23.80	18.11	18.37	19.20	19.45	20.93
12H	4H	19.90	20.28	20.98	21.36	22.78	17.63	18.00	18.70	19.08	20.51
	6H	20.56	20.86	21.65	21.95	23.38	17.93	18.24	19.02	19.32	20.76
	8H	20.83	21.09	21.92	22.17	23.65	18.09	18.36	19.19	19.44	20.92