

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: P1427822

Luminaire Tested: SQ2W-PH1-0U-050D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427822  
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-PH1-0U-050D-L930-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 N/A - DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

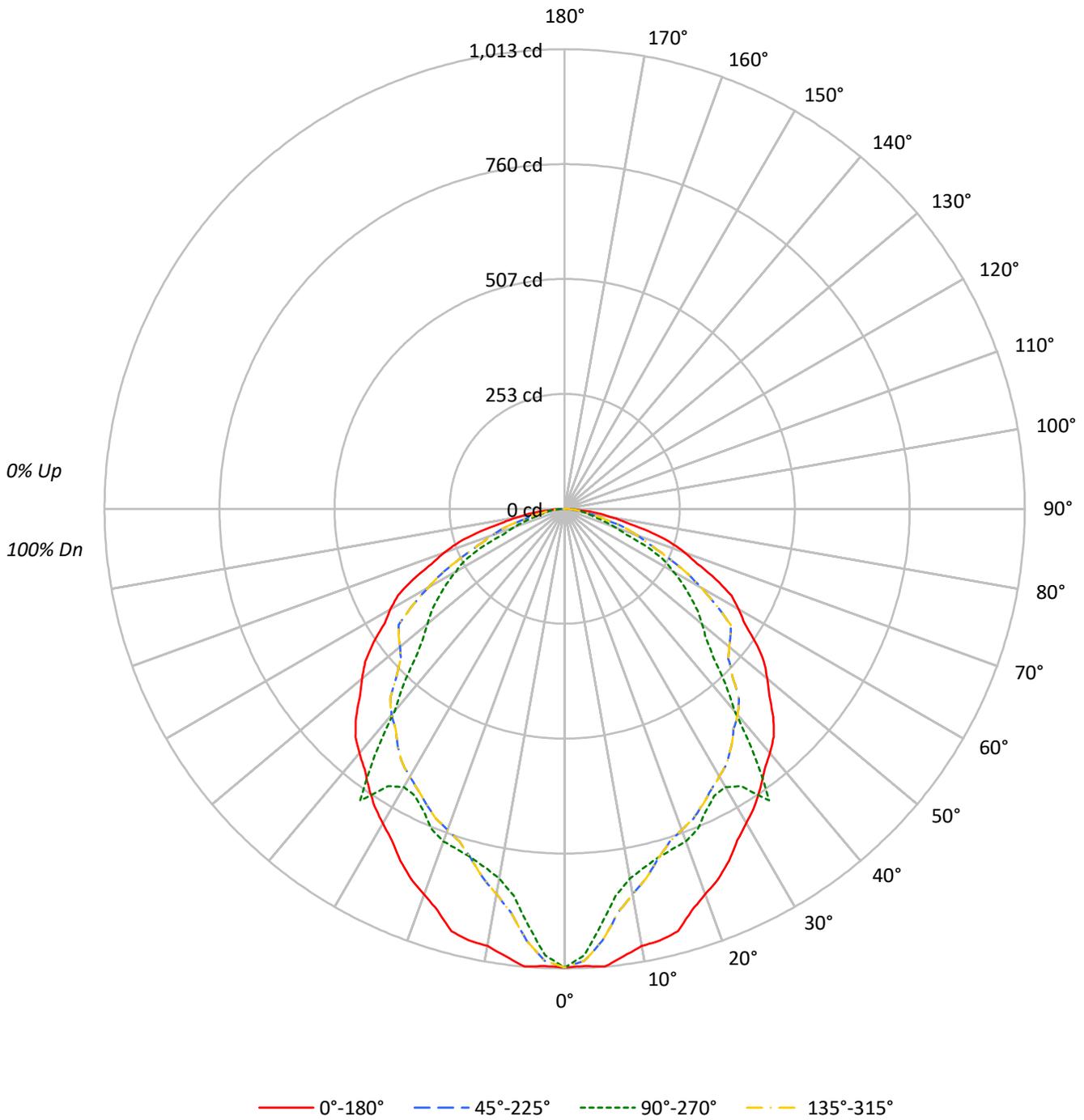
Lumens per Lamp: N/A  
Luminaire Lumens: 2235.1 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ2W-PH1-0U-050D-L930-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

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

	0°	90°	180°	270°
0°	16322	16322	16322	16322
5°	16415	14917	16415	14917
10°	16037	13562	16037	13562
15°	16108	13295	16108	13295
20°	15534	13402	15534	13402
25°	15249	13090	15249	13090
30°	14918	13198	14918	13198
35°	14806	15468	14806	15468
40°	14819	12264	14819	12264
45°	14823	10563	14823	10563
50°	14616	9904	14616	9904
55°	14429	9503	14429	9503
60°	14286	8912	14286	8912
65°	14036	7752	14036	7752
70°	13256	5537	13256	5537
75°	11821	4198	11821	4198
80°	9660	3933	9660	3933
85°	6058	2668	6058	2668

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14823 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	4.0
10°-20°	234.0	10.5
20°-30°	343.0	15.3
30°-40°	415.3	18.6
40°-50°	408.4	18.3
50°-60°	355.3	15.9
60°-70°	247.1	11.1
70°-80°	117.2	5.2
80°-90°	25.8	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	665.9	29.8
0°-40°	1081.3	48.4
0°-60°	1845.0	82.5
0°-90°	2235.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1013	920	1013	920	1013	95
15°	964	795	964	795	964	269
25°	856	735	856	735	856	394
35°	751	785	751	785	751	471
45°	649	463	649	463	649	499
55°	513	338	513	338	513	458
65°	367	203	367	203	367	361
75°	190	67	190	67	190	201
85°	33	14	33	14	33	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1008.5	1013.3	1018.1	1011.4	1000.8	993.4	989.3	986.1	985.4	984.7	985.4
5°	1012.8	1012.4	1011.9	991.9	965.4	945.6	932.3	922.2	921.3	920.4	921.3
7.5°	994.3	981.1	967.8	941.0	909.6	886.6	872.0	860.8	860.2	859.5	860.2
10°	978.2	958.1	938.0	907.6	873.9	850.3	837.1	827.2	827.2	827.2	827.2
12.5°	974.3	942.6	910.9	877.6	843.8	822.0	812.2	805.4	807.4	809.5	807.4
15°	963.7	915.9	868.0	834.2	805.1	789.3	786.8	786.0	790.7	795.4	790.7
17.5°	928.7	877.2	825.6	795.9	773.5	765.1	770.5	776.0	781.5	786.9	781.5
20°	904.1	853.2	802.4	774.9	755.2	750.5	760.8	769.8	774.9	780.0	774.9
22.5°	883.3	831.8	780.2	755.9	740.7	738.7	750.0	759.2	761.9	764.6	761.9
25°	856.0	797.9	739.7	722.0	717.7	720.5	730.3	737.4	736.1	734.8	736.1
27.5°	823.3	762.6	701.9	690.5	695.6	701.1	707.1	711.7	712.5	713.3	712.5
30°	800.2	739.5	678.8	669.7	677.9	684.9	690.9	696.8	702.3	707.9	702.3
32.5°	777.9	715.2	652.4	645.9	658.1	671.3	685.5	699.3	712.1	724.8	712.1
35°	751.2	685.8	620.4	615.2	630.2	649.4	672.9	701.0	742.9	784.8	742.9
37.5°	723.1	653.0	582.9	580.5	600.8	621.1	641.3	659.9	673.2	686.5	673.2
40°	703.1	629.6	556.0	555.9	580.3	605.5	631.6	643.4	612.7	581.9	612.7
42.5°	681.5	608.0	534.5	532.3	554.0	581.7	615.7	628.1	576.2	524.2	576.2
45°	649.2	572.7	496.2	493.4	515.2	530.6	539.6	537.0	499.8	462.6	499.8
47.5°	611.1	538.2	465.3	464.7	488.2	489.9	469.8	451.1	436.6	422.0	436.6
50°	581.9	513.1	444.2	447.2	474.2	471.6	439.5	413.1	403.7	394.3	403.7
52.5°	553.4	488.0	422.6	430.6	463.0	457.8	415.2	381.6	375.3	368.9	375.3
55°	512.6	449.8	387.0	404.9	449.8	443.0	384.4	340.2	338.9	337.6	338.9
57.5°	469.4	409.9	350.5	363.0	399.4	392.2	341.4	303.9	306.1	308.4	306.1
60°	442.4	384.7	327.0	328.6	350.0	343.2	308.1	281.2	278.6	276.0	278.6
62.5°	414.0	359.0	304.0	296.0	303.7	295.7	271.9	253.5	250.9	248.3	250.9
65°	367.4	317.4	267.4	252.3	248.9	237.4	217.7	202.9	202.9	202.9	202.9
67.5°	316.2	272.6	229.0	212.2	204.2	192.8	177.8	164.0	153.8	143.5	153.8
70°	280.8	242.4	203.9	186.3	175.6	161.9	145.2	131.0	124.2	117.3	124.2
72.5°	243.1	210.1	177.1	159.1	146.0	132.7	119.1	106.9	99.0	91.2	99.0
75°	189.5	163.0	136.5	118.9	104.4	90.9	78.5	69.0	68.2	67.3	68.2
77.5°	137.0	117.6	98.3	84.1	71.6	62.3	56.0	51.4	51.5	51.6	51.5
80°	103.9	89.3	74.8	61.6	48.7	42.1	41.7	41.5	41.9	42.3	41.9
82.5°	73.1	62.3	51.6	43.1	35.4	31.8	32.4	32.9	33.0	33.1	33.0
85°	32.7	27.6	22.4	20.5	19.7	18.4	16.7	15.3	14.9	14.4	14.9
87.5°	6.9	6.6	6.2	5.4	4.4	3.8	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	986.1	989.3	993.4	1000.8	1011.4	1018.1	1013.3	1008.5	1013.3	1018.1	1011.4
5°	922.2	932.3	945.6	965.4	991.9	1011.9	1012.4	1012.8	1012.4	1011.9	991.9
7.5°	860.8	872.0	886.6	909.6	941.0	967.8	981.1	994.3	981.1	967.8	941.0
10°	827.2	837.1	850.3	873.9	907.6	938.0	958.1	978.2	958.1	938.0	907.6
12.5°	805.4	812.2	822.0	843.8	877.6	910.9	942.6	974.3	942.6	910.9	877.6
15°	786.0	786.8	789.3	805.1	834.2	868.0	915.9	963.7	915.9	868.0	834.2
17.5°	776.0	770.5	765.1	773.5	795.9	825.6	877.2	928.7	877.2	825.6	795.9
20°	769.8	760.8	750.5	755.2	774.9	802.4	853.2	904.1	853.2	802.4	774.9
22.5°	759.2	750.0	738.7	740.7	755.9	780.2	831.8	883.3	831.8	780.2	755.9
25°	737.4	730.3	720.5	717.7	722.0	739.7	797.9	856.0	797.9	739.7	722.0
27.5°	711.7	707.1	701.1	695.6	690.5	701.9	762.6	823.3	762.6	701.9	690.5
30°	696.8	690.9	684.9	677.9	669.7	678.8	739.5	800.2	739.5	678.8	669.7
32.5°	699.3	685.5	671.3	658.1	645.9	652.4	715.2	777.9	715.2	652.4	645.9
35°	701.0	672.9	649.4	630.2	615.2	620.4	685.8	751.2	685.8	620.4	615.2
37.5°	659.9	641.3	621.1	600.8	580.5	582.9	653.0	723.1	653.0	582.9	580.5
40°	643.4	631.6	605.5	580.3	555.9	556.0	629.6	703.1	629.6	556.0	555.9
42.5°	628.1	615.7	581.7	554.0	532.3	534.5	608.0	681.5	608.0	534.5	532.3
45°	537.0	539.6	530.6	515.2	493.4	496.2	572.7	649.2	572.7	496.2	493.4
47.5°	451.1	469.8	489.9	488.2	464.7	465.3	538.2	611.1	538.2	465.3	464.7
50°	413.1	439.5	471.6	474.2	447.2	444.2	513.1	581.9	513.1	444.2	447.2
52.5°	381.6	415.2	457.8	463.0	430.6	422.6	488.0	553.4	488.0	422.6	430.6
55°	340.2	384.4	443.0	449.8	404.9	387.0	449.8	512.6	449.8	387.0	404.9
57.5°	303.9	341.4	392.2	399.4	363.0	350.5	409.9	469.4	409.9	350.5	363.0
60°	281.2	308.1	343.2	350.0	328.6	327.0	384.7	442.4	384.7	327.0	328.6
62.5°	253.5	271.9	295.7	303.7	296.0	304.0	359.0	414.0	359.0	304.0	296.0
65°	202.9	217.7	237.4	248.9	252.3	267.4	317.4	367.4	317.4	267.4	252.3
67.5°	164.0	177.8	192.8	204.2	212.2	229.0	272.6	316.2	272.6	229.0	212.2
70°	131.0	145.2	161.9	175.6	186.3	203.9	242.4	280.8	242.4	203.9	186.3
72.5°	106.9	119.1	132.7	146.0	159.1	177.1	210.1	243.1	210.1	177.1	159.1
75°	69.0	78.5	90.9	104.4	118.9	136.5	163.0	189.5	163.0	136.5	118.9
77.5°	51.4	56.0	62.3	71.6	84.1	98.3	117.6	137.0	117.6	98.3	84.1
80°	41.5	41.7	42.1	48.7	61.6	74.8	89.3	103.9	89.3	74.8	61.6
82.5°	32.9	32.4	31.8	35.4	43.1	51.6	62.3	73.1	62.3	51.6	43.1
85°	15.3	16.7	18.4	19.7	20.5	22.4	27.6	32.7	27.6	22.4	20.5
87.5°	3.8	3.8	3.8	4.4	5.4	6.2	6.6	6.9	6.6	6.2	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1000.8	993.4	989.3	986.1	985.4	984.7	985.4	986.1	989.3	993.4	1000.8
5°	965.4	945.6	932.3	922.2	921.3	920.4	921.3	922.2	932.3	945.6	965.4
7.5°	909.6	886.6	872.0	860.8	860.2	859.5	860.2	860.8	872.0	886.6	909.6
10°	873.9	850.3	837.1	827.2	827.2	827.2	827.2	827.2	837.1	850.3	873.9
12.5°	843.8	822.0	812.2	805.4	807.4	809.5	807.4	805.4	812.2	822.0	843.8
15°	805.1	789.3	786.8	786.0	790.7	795.4	790.7	786.0	786.8	789.3	805.1
17.5°	773.5	765.1	770.5	776.0	781.5	786.9	781.5	776.0	770.5	765.1	773.5
20°	755.2	750.5	760.8	769.8	774.9	780.0	774.9	769.8	760.8	750.5	755.2
22.5°	740.7	738.7	750.0	759.2	761.9	764.6	761.9	759.2	750.0	738.7	740.7
25°	717.7	720.5	730.3	737.4	736.1	734.8	736.1	737.4	730.3	720.5	717.7
27.5°	695.6	701.1	707.1	711.7	712.5	713.3	712.5	711.7	707.1	701.1	695.6
30°	677.9	684.9	690.9	696.8	702.3	707.9	702.3	696.8	690.9	684.9	677.9
32.5°	658.1	671.3	685.5	699.3	712.1	724.8	712.1	699.3	685.5	671.3	658.1
35°	630.2	649.4	672.9	701.0	742.9	784.8	742.9	701.0	672.9	649.4	630.2
37.5°	600.8	621.1	641.3	659.9	673.2	686.5	673.2	659.9	641.3	621.1	600.8
40°	580.3	605.5	631.6	643.4	612.7	581.9	612.7	643.4	631.6	605.5	580.3
42.5°	554.0	581.7	615.7	628.1	576.2	524.2	576.2	628.1	615.7	581.7	554.0
45°	515.2	530.6	539.6	537.0	499.8	462.6	499.8	537.0	539.6	530.6	515.2
47.5°	488.2	489.9	469.8	451.1	436.6	422.0	436.6	451.1	469.8	489.9	488.2
50°	474.2	471.6	439.5	413.1	403.7	394.3	403.7	413.1	439.5	471.6	474.2
52.5°	463.0	457.8	415.2	381.6	375.3	368.9	375.3	381.6	415.2	457.8	463.0
55°	449.8	443.0	384.4	340.2	338.9	337.6	338.9	340.2	384.4	443.0	449.8
57.5°	399.4	392.2	341.4	303.9	306.1	308.4	306.1	303.9	341.4	392.2	399.4
60°	350.0	343.2	308.1	281.2	278.6	276.0	278.6	281.2	308.1	343.2	350.0
62.5°	303.7	295.7	271.9	253.5	250.9	248.3	250.9	253.5	271.9	295.7	303.7
65°	248.9	237.4	217.7	202.9	202.9	202.9	202.9	202.9	217.7	237.4	248.9
67.5°	204.2	192.8	177.8	164.0	153.8	143.5	153.8	164.0	177.8	192.8	204.2
70°	175.6	161.9	145.2	131.0	124.2	117.3	124.2	131.0	145.2	161.9	175.6
72.5°	146.0	132.7	119.1	106.9	99.0	91.2	99.0	106.9	119.1	132.7	146.0
75°	104.4	90.9	78.5	69.0	68.2	67.3	68.2	69.0	78.5	90.9	104.4
77.5°	71.6	62.3	56.0	51.4	51.5	51.6	51.5	51.4	56.0	62.3	71.6
80°	48.7	42.1	41.7	41.5	41.9	42.3	41.9	41.5	41.7	42.1	48.7
82.5°	35.4	31.8	32.4	32.9	33.0	33.1	33.0	32.9	32.4	31.8	35.4
85°	19.7	18.4	16.7	15.3	14.9	14.4	14.9	15.3	16.7	18.4	19.7
87.5°	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1427822

CATALOG NUMBER: SQ2W-PH1-0U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1010.9	1010.9	1010.9	1010.9
2.5°	1011.4	1018.1	1013.3	1008.5
5°	991.9	1011.9	1012.4	1012.8
7.5°	941.0	967.8	981.1	994.3
10°	907.6	938.0	958.1	978.2
12.5°	877.6	910.9	942.6	974.3
15°	834.2	868.0	915.9	963.7
17.5°	795.9	825.6	877.2	928.7
20°	774.9	802.4	853.2	904.1
22.5°	755.9	780.2	831.8	883.3
25°	722.0	739.7	797.9	856.0
27.5°	690.5	701.9	762.6	823.3
30°	669.7	678.8	739.5	800.2
32.5°	645.9	652.4	715.2	777.9
35°	615.2	620.4	685.8	751.2
37.5°	580.5	582.9	653.0	723.1
40°	555.9	556.0	629.6	703.1
42.5°	532.3	534.5	608.0	681.5
45°	493.4	496.2	572.7	649.2
47.5°	464.7	465.3	538.2	611.1
50°	447.2	444.2	513.1	581.9
52.5°	430.6	422.6	488.0	553.4
55°	404.9	387.0	449.8	512.6
57.5°	363.0	350.5	409.9	469.4
60°	328.6	327.0	384.7	442.4
62.5°	296.0	304.0	359.0	414.0
65°	252.3	267.4	317.4	367.4
67.5°	212.2	229.0	272.6	316.2
70°	186.3	203.9	242.4	280.8
72.5°	159.1	177.1	210.1	243.1
75°	118.9	136.5	163.0	189.5
77.5°	84.1	98.3	117.6	137.0
80°	61.6	74.8	89.3	103.9
82.5°	43.1	51.6	62.3	73.1
85°	20.5	22.4	27.6	32.7
87.5°	5.4	6.2	6.6	6.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427822  
 CATALOG NUMBER: SQ2W-PH1-0U-050D-L930-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	20.42	22.01	20.79	22.33	22.64	19.25	20.84	19.62	21.16	21.47
	3H	22.65	24.08	23.03	24.41	24.77	20.35	21.78	20.73	22.11	22.47
	4H	23.50	24.84	23.89	25.19	25.56	20.63	21.98	21.03	22.32	22.70
	6H	24.00	25.24	24.41	25.61	26.00	20.81	22.05	21.22	22.42	22.81
	8H	24.17	25.36	24.60	25.75	26.14	20.89	22.07	21.31	22.46	22.86
	12H	24.25	25.39	24.68	25.77	26.20	20.92	22.06	21.35	22.44	22.87
4H	2H	20.94	22.29	21.34	22.64	23.01	20.02	21.36	20.42	21.71	22.09
	3H	23.26	24.38	23.67	24.78	25.18	21.31	22.43	21.72	22.83	23.23
	4H	24.16	25.17	24.59	25.58	26.02	21.64	22.64	22.07	23.06	23.50
	6H	24.76	25.64	25.22	26.08	26.54	21.87	22.75	22.33	23.19	23.65
	8H	24.98	25.80	25.44	26.24	26.71	21.98	22.80	22.44	23.24	23.71
	12H	25.10	25.83	25.58	26.31	26.78	22.04	22.77	22.52	23.25	23.72
8H	4H	24.24	25.06	24.70	25.50	25.97	21.92	22.74	22.38	23.18	23.65
	6H	24.90	25.58	25.39	26.07	26.54	22.22	22.90	22.71	23.39	23.86
	8H	25.17	25.78	25.68	26.28	26.77	22.37	22.98	22.88	23.49	23.97
	12H	25.33	25.87	25.84	26.36	26.92	22.47	23.00	22.97	23.49	24.06
12H	4H	24.23	24.96	24.71	25.44	25.91	21.95	22.68	22.43	23.16	23.63
	6H	24.88	25.49	25.39	26.00	26.48	22.26	22.87	22.77	23.37	23.86
	8H	25.19	25.72	25.69	26.21	26.78	22.45	22.99	22.96	23.48	24.04