

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: P1428577

Luminaire Tested: SQ2W-WBN-0U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428577  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBN-0U-050D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT N/A - DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

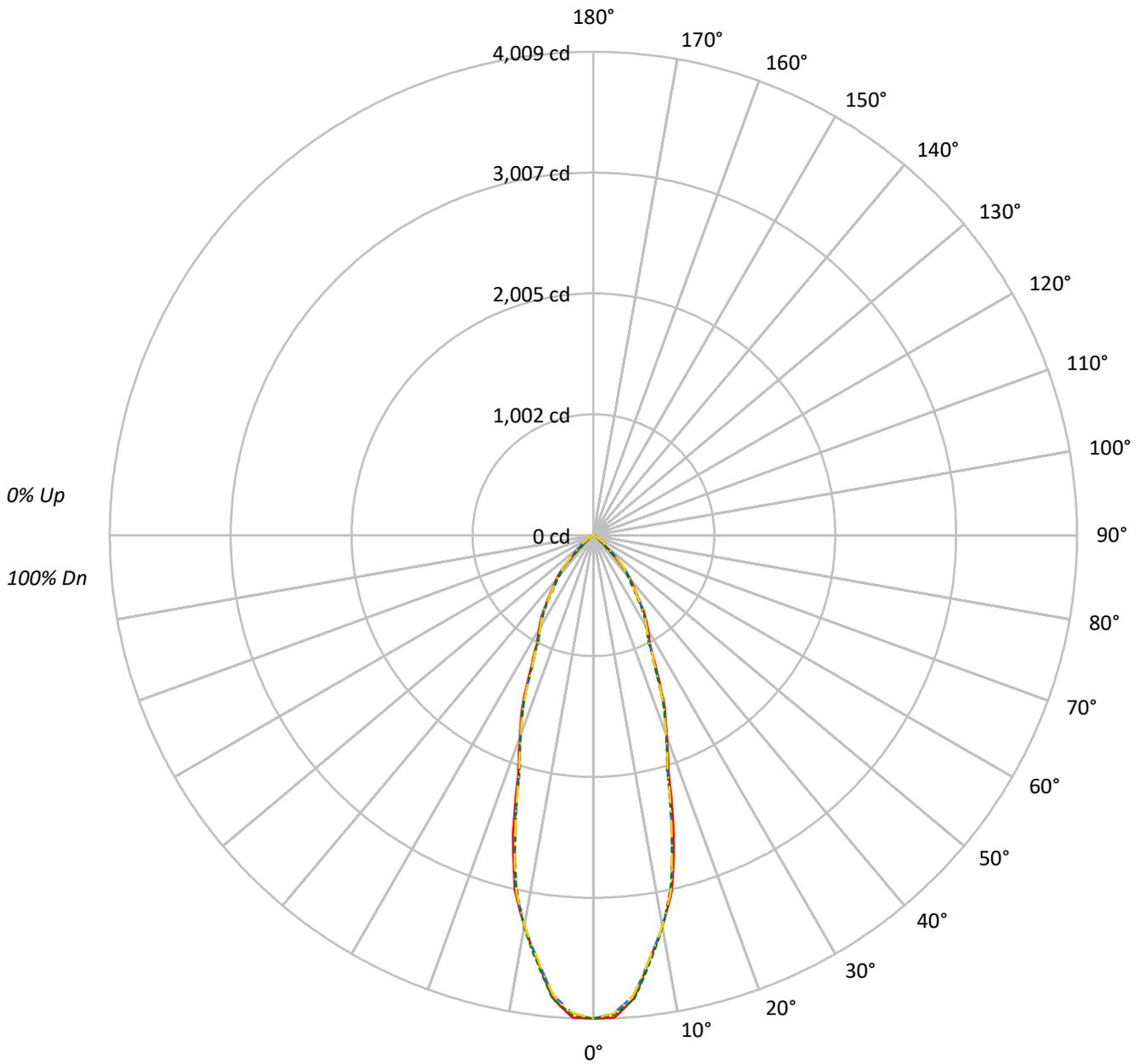
Lumens per Lamp: N/A  
Luminaire Lumens: 2327.9 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.1  
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-WBN-0U-050D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    - · - · - 90°-270°    - · - - 135°-315°



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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

	0°	90°	180°	270°
0°	64726	64726	64726	64726
5°	62495	62565	62495	62565
10°	54019	54147	54019	54147
15°	42985	41796	42985	41796
20°	30535	30353	30535	30353
25°	21969	21386	21969	21386
30°	16785	16294	16785	16294
35°	13176	12616	13176	12616
40°	9982	9369	9982	9369
45°	5585	4984	5585	4984
50°	1964	1733	1964	1733
55°	1202	1140	1202	1140
60°	917	849	917	849
65°	840	787	840	787
70°	807	736	807	736
75°	755	711	755	711
80°	660	660	660	660
85°	667	519	667	519

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 6624 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.0	14.9
10°-20°	691.6	29.7
20°-30°	572.8	24.6
30°-40°	412.0	17.7
40°-50°	209.9	9.0
50°-60°	54.6	2.3
60°-70°	22.7	1.0
70°-80°	12.6	0.5
80°-90°	3.7	0.2
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°	1612.4	69.3
0°-40°	2024.4	87.0
0°-60°	2288.9	98.3
0°-90°	2327.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4009	4009	4009	4009	4009	
5°	3856	3860	3856	3860	3856	348
15°	2572	2500	2572	2500	2572	698
25°	1233	1200	1233	1200	1233	580
35°	668	640	668	640	668	419
45°	245	218	245	218	245	195
55°	43	40	43	40	43	42
65°	22	21	22	21	22	22
75°	12	11	12	11	12	13
85°	4	3	4	3	4	4
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°	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9
2.5°	4002.6	3999.6	3996.6	3983.1	3966.2	3964.8	3978.9	3988.7	3985.1	3981.6	3985.1
5°	3856.0	3853.5	3850.9	3839.4	3824.9	3829.9	3854.6	3871.6	3865.9	3860.3	3865.9
7.5°	3553.2	3555.3	3557.5	3551.6	3543.0	3549.6	3571.4	3586.2	3580.1	3574.1	3580.1
10°	3294.9	3300.6	3306.2	3298.2	3285.5	3295.2	3327.1	3345.7	3324.2	3302.7	3324.2
12.5°	3009.8	3006.2	3002.5	2995.1	2986.5	2984.8	2989.9	2990.8	2978.9	2967.0	2978.9
15°	2571.6	2558.3	2545.1	2524.7	2501.9	2494.5	2502.4	2507.4	2504.0	2500.5	2504.0
17.5°	2071.4	2076.5	2081.6	2067.8	2047.7	2037.3	2036.5	2035.0	2031.1	2027.1	2031.1
20°	1777.2	1778.8	1780.4	1771.8	1759.8	1756.9	1763.2	1767.8	1767.2	1766.6	1767.2
22.5°	1540.5	1540.9	1541.2	1529.8	1514.5	1511.5	1520.9	1526.5	1520.8	1515.1	1520.8
25°	1233.2	1232.2	1231.3	1223.7	1213.9	1206.6	1201.9	1198.6	1199.5	1200.5	1199.5
27.5°	1011.3	1007.4	1003.5	997.0	989.6	987.6	990.7	992.5	990.2	987.8	990.2
30°	900.3	897.2	894.0	887.5	880.0	877.1	879.0	879.7	876.9	874.0	876.9
32.5°	800.8	800.9	801.0	795.2	787.3	783.0	782.1	780.9	778.8	776.7	778.8
35°	668.5	670.4	672.3	667.6	660.6	654.8	650.0	645.7	642.9	640.1	642.9
37.5°	550.4	552.2	554.0	550.0	544.1	537.7	530.8	525.0	522.6	520.2	522.6
40°	473.6	474.9	476.2	473.4	469.3	463.1	454.9	448.3	446.4	444.5	446.4
42.5°	390.0	395.3	400.6	398.9	394.8	388.9	381.1	374.3	370.1	366.0	370.1
45°	244.6	261.4	278.1	285.7	290.1	288.0	279.5	267.0	242.7	218.3	242.7
47.5°	123.7	146.9	170.1	186.8	201.3	196.7	173.0	149.2	125.3	101.4	125.3
50°	78.2	94.3	110.5	130.9	152.7	147.9	116.6	90.5	79.7	69.0	79.7
52.5°	60.0	68.3	76.6	96.0	119.0	116.8	89.3	67.2	61.3	55.3	61.3
55°	42.7	45.8	49.0	59.7	73.0	72.2	57.4	45.6	43.1	40.5	43.1
57.5°	33.0	34.8	36.5	40.5	45.3	44.8	39.2	34.6	33.0	31.4	33.0
60°	28.4	29.7	31.0	33.0	35.2	34.8	32.0	29.5	27.9	26.3	27.9
62.5°	25.6	26.4	27.1	28.0	29.0	28.5	26.7	25.2	24.6	24.0	24.6
65°	22.0	22.4	22.7	22.8	22.8	22.4	21.8	21.3	20.9	20.6	20.9
67.5°	18.8	19.1	19.4	19.4	19.4	19.2	18.9	18.6	18.2	17.9	18.2
70°	17.1	17.4	17.7	17.5	17.2	16.9	16.6	16.3	16.0	15.6	16.0
72.5°	14.8	15.1	15.4	15.3	15.0	14.8	14.7	14.6	14.3	13.9	14.3
75°	12.1	12.1	12.1	12.1	12.1	11.9	11.6	11.4	11.4	11.4	11.4
77.5°	9.4	9.5	9.5	9.3	9.0	8.8	8.8	8.8	8.5	8.2	8.5
80°	7.1	7.4	7.7	7.6	7.3	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	6.0	6.0	6.1	5.9	5.6	5.4	5.4	5.4	5.4	5.4	5.4
85°	3.6	3.6	3.6	3.3	3.0	3.0	3.3	3.5	3.2	2.8	3.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9
2.5°	3988.7	3978.9	3964.8	3966.2	3983.1	3996.6	3999.6	4002.6	3999.6	3996.6	3983.1
5°	3871.6	3854.6	3829.9	3824.9	3839.4	3850.9	3853.5	3856.0	3853.5	3850.9	3839.4
7.5°	3586.2	3571.4	3549.6	3543.0	3551.6	3557.5	3555.3	3553.2	3555.3	3557.5	3551.6
10°	3345.7	3327.1	3295.2	3285.5	3298.2	3306.2	3300.6	3294.9	3300.6	3306.2	3298.2
12.5°	2990.8	2989.9	2984.8	2986.5	2995.1	3002.5	3006.2	3009.8	3006.2	3002.5	2995.1
15°	2507.4	2502.4	2494.5	2501.9	2524.7	2545.1	2558.3	2571.6	2558.3	2545.1	2524.7
17.5°	2035.0	2036.5	2037.3	2047.7	2067.8	2081.6	2076.5	2071.4	2076.5	2081.6	2067.8
20°	1767.8	1763.2	1756.9	1759.8	1771.8	1780.4	1778.8	1777.2	1778.8	1780.4	1771.8
22.5°	1526.5	1520.9	1511.5	1514.5	1529.8	1541.2	1540.9	1540.5	1540.9	1541.2	1529.8
25°	1198.6	1201.9	1206.6	1213.9	1223.7	1231.3	1232.2	1233.2	1232.2	1231.3	1223.7
27.5°	992.5	990.7	987.6	989.6	997.0	1003.5	1007.4	1011.3	1007.4	1003.5	997.0
30°	879.7	879.0	877.1	880.0	887.5	894.0	897.2	900.3	897.2	894.0	887.5
32.5°	780.9	782.1	783.0	787.3	795.2	801.0	800.9	800.8	800.9	801.0	795.2
35°	645.7	650.0	654.8	660.6	667.6	672.3	670.4	668.5	670.4	672.3	667.6
37.5°	525.0	530.8	537.7	544.1	550.0	554.0	552.2	550.4	552.2	554.0	550.0
40°	448.3	454.9	463.1	469.3	473.4	476.2	474.9	473.6	474.9	476.2	473.4
42.5°	374.3	381.1	388.9	394.8	398.9	400.6	395.3	390.0	395.3	400.6	398.9
45°	267.0	279.5	288.0	290.1	285.7	278.1	261.4	244.6	261.4	278.1	285.7
47.5°	149.2	173.0	196.7	201.3	186.8	170.1	146.9	123.7	146.9	170.1	186.8
50°	90.5	116.6	147.9	152.7	130.9	110.5	94.3	78.2	94.3	110.5	130.9
52.5°	67.2	89.3	116.8	119.0	96.0	76.6	68.3	60.0	68.3	76.6	96.0
55°	45.6	57.4	72.2	73.0	59.7	49.0	45.8	42.7	45.8	49.0	59.7
57.5°	34.6	39.2	44.8	45.3	40.5	36.5	34.8	33.0	34.8	36.5	40.5
60°	29.5	32.0	34.8	35.2	33.0	31.0	29.7	28.4	29.7	31.0	33.0
62.5°	25.2	26.7	28.5	29.0	28.0	27.1	26.4	25.6	26.4	27.1	28.0
65°	21.3	21.8	22.4	22.8	22.8	22.7	22.4	22.0	22.4	22.7	22.8
67.5°	18.6	18.9	19.2	19.4	19.4	19.4	19.1	18.8	19.1	19.4	19.4
70°	16.3	16.6	16.9	17.2	17.5	17.7	17.4	17.1	17.4	17.7	17.5
72.5°	14.6	14.7	14.8	15.0	15.3	15.4	15.1	14.8	15.1	15.4	15.3
75°	11.4	11.6	11.9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
77.5°	8.8	8.8	8.8	9.0	9.3	9.5	9.5	9.4	9.5	9.5	9.3
80°	7.1	7.1	7.1	7.3	7.6	7.7	7.4	7.1	7.4	7.7	7.6
82.5°	5.4	5.4	5.4	5.6	5.9	6.1	6.0	6.0	6.0	6.1	5.9
85°	3.5	3.3	3.0	3.0	3.3	3.6	3.6	3.6	3.6	3.6	3.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9
2.5°	3966.2	3964.8	3978.9	3988.7	3985.1	3981.6	3985.1	3988.7	3978.9	3964.8	3966.2
5°	3824.9	3829.9	3854.6	3871.6	3865.9	3860.3	3865.9	3871.6	3854.6	3829.9	3824.9
7.5°	3543.0	3549.6	3571.4	3586.2	3580.1	3574.1	3580.1	3586.2	3571.4	3549.6	3543.0
10°	3285.5	3295.2	3327.1	3345.7	3324.2	3302.7	3324.2	3345.7	3327.1	3295.2	3285.5
12.5°	2986.5	2984.8	2989.9	2990.8	2978.9	2967.0	2978.9	2990.8	2989.9	2984.8	2986.5
15°	2501.9	2494.5	2502.4	2507.4	2504.0	2500.5	2504.0	2507.4	2502.4	2494.5	2501.9
17.5°	2047.7	2037.3	2036.5	2035.0	2031.1	2027.1	2031.1	2035.0	2036.5	2037.3	2047.7
20°	1759.8	1756.9	1763.2	1767.8	1767.2	1766.6	1767.2	1767.8	1763.2	1756.9	1759.8
22.5°	1514.5	1511.5	1520.9	1526.5	1520.8	1515.1	1520.8	1526.5	1520.9	1511.5	1514.5
25°	1213.9	1206.6	1201.9	1198.6	1199.5	1200.5	1199.5	1198.6	1201.9	1206.6	1213.9
27.5°	989.6	987.6	990.7	992.5	990.2	987.8	990.2	992.5	990.7	987.6	989.6
30°	880.0	877.1	879.0	879.7	876.9	874.0	876.9	879.7	879.0	877.1	880.0
32.5°	787.3	783.0	782.1	780.9	778.8	776.7	778.8	780.9	782.1	783.0	787.3
35°	660.6	654.8	650.0	645.7	642.9	640.1	642.9	645.7	650.0	654.8	660.6
37.5°	544.1	537.7	530.8	525.0	522.6	520.2	522.6	525.0	530.8	537.7	544.1
40°	469.3	463.1	454.9	448.3	446.4	444.5	446.4	448.3	454.9	463.1	469.3
42.5°	394.8	388.9	381.1	374.3	370.1	366.0	370.1	374.3	381.1	388.9	394.8
45°	290.1	288.0	279.5	267.0	242.7	218.3	242.7	267.0	279.5	288.0	290.1
47.5°	201.3	196.7	173.0	149.2	125.3	101.4	125.3	149.2	173.0	196.7	201.3
50°	152.7	147.9	116.6	90.5	79.7	69.0	79.7	90.5	116.6	147.9	152.7
52.5°	119.0	116.8	89.3	67.2	61.3	55.3	61.3	67.2	89.3	116.8	119.0
55°	73.0	72.2	57.4	45.6	43.1	40.5	43.1	45.6	57.4	72.2	73.0
57.5°	45.3	44.8	39.2	34.6	33.0	31.4	33.0	34.6	39.2	44.8	45.3
60°	35.2	34.8	32.0	29.5	27.9	26.3	27.9	29.5	32.0	34.8	35.2
62.5°	29.0	28.5	26.7	25.2	24.6	24.0	24.6	25.2	26.7	28.5	29.0
65°	22.8	22.4	21.8	21.3	20.9	20.6	20.9	21.3	21.8	22.4	22.8
67.5°	19.4	19.2	18.9	18.6	18.2	17.9	18.2	18.6	18.9	19.2	19.4
70°	17.2	16.9	16.6	16.3	16.0	15.6	16.0	16.3	16.6	16.9	17.2
72.5°	15.0	14.8	14.7	14.6	14.3	13.9	14.3	14.6	14.7	14.8	15.0
75°	12.1	11.9	11.6	11.4	11.4	11.4	11.4	11.4	11.6	11.9	12.1
77.5°	9.0	8.8	8.8	8.8	8.5	8.2	8.5	8.8	8.8	8.8	9.0
80°	7.3	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.3
82.5°	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.6
85°	3.0	3.0	3.3	3.5	3.2	2.8	3.2	3.5	3.3	3.0	3.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P1428577

CATALOG NUMBER: SQ2W-WBN-0U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	4008.9	4008.9	4008.9	4008.9
2.5°	3983.1	3996.6	3999.6	4002.6
5°	3839.4	3850.9	3853.5	3856.0
7.5°	3551.6	3557.5	3555.3	3553.2
10°	3298.2	3306.2	3300.6	3294.9
12.5°	2995.1	3002.5	3006.2	3009.8
15°	2524.7	2545.1	2558.3	2571.6
17.5°	2067.8	2081.6	2076.5	2071.4
20°	1771.8	1780.4	1778.8	1777.2
22.5°	1529.8	1541.2	1540.9	1540.5
25°	1223.7	1231.3	1232.2	1233.2
27.5°	997.0	1003.5	1007.4	1011.3
30°	887.5	894.0	897.2	900.3
32.5°	795.2	801.0	800.9	800.8
35°	667.6	672.3	670.4	668.5
37.5°	550.0	554.0	552.2	550.4
40°	473.4	476.2	474.9	473.6
42.5°	398.9	400.6	395.3	390.0
45°	285.7	278.1	261.4	244.6
47.5°	186.8	170.1	146.9	123.7
50°	130.9	110.5	94.3	78.2
52.5°	96.0	76.6	68.3	60.0
55°	59.7	49.0	45.8	42.7
57.5°	40.5	36.5	34.8	33.0
60°	33.0	31.0	29.7	28.4
62.5°	28.0	27.1	26.4	25.6
65°	22.8	22.7	22.4	22.0
67.5°	19.4	19.4	19.1	18.8
70°	17.5	17.7	17.4	17.1
72.5°	15.3	15.4	15.1	14.8
75°	12.1	12.1	12.1	12.1
77.5°	9.3	9.5	9.5	9.4
80°	7.6	7.7	7.4	7.1
82.5°	5.9	6.1	6.0	6.0
85°	3.3	3.6	3.6	3.6
87.5°	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P1428577

CATALOG NUMBER: SQ2W-WBN-0U-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	4.96	6.02	5.32	6.33	6.64	4.58	5.65	4.95	5.96	6.27
	3H	6.19	7.13	6.58	7.46	7.83	5.80	6.74	6.19	7.07	7.44
	4H	6.72	7.59	7.13	7.94	8.33	6.33	7.19	6.74	7.55	7.94
	6H	7.09	7.87	7.50	8.25	8.65	6.67	7.46	7.09	7.83	8.23
	8H	7.24	7.98	7.67	8.37	8.78	6.81	7.55	7.25	7.95	8.36
	12H	7.34	8.05	7.77	8.43	8.86	6.89	7.59	7.32	7.98	8.41
4H	2H	5.30	6.16	5.70	6.51	6.90	4.99	5.85	5.40	6.21	6.60
	3H	6.81	7.51	7.22	7.91	8.32	6.47	7.17	6.88	7.58	7.98
	4H	7.45	8.08	7.89	8.50	8.95	7.10	7.73	7.54	8.15	8.60
	6H	7.95	8.48	8.42	8.93	9.40	7.56	8.10	8.03	8.55	9.02
	8H	8.15	8.65	8.63	9.10	9.57	7.75	8.25	8.23	8.70	9.18
	12H	8.30	8.73	8.79	9.22	9.70	7.87	8.30	8.36	8.79	9.27
8H	4H	7.61	8.11	8.09	8.56	9.04	7.30	7.80	7.78	8.25	8.72
	6H	8.25	8.64	8.75	9.15	9.63	7.89	8.29	8.40	8.79	9.28
	8H	8.55	8.90	9.08	9.43	9.92	8.17	8.52	8.70	9.04	9.54
	12H	8.79	9.10	9.31	9.60	10.18	8.38	8.69	8.90	9.19	9.76
12H	4H	7.60	8.03	8.09	8.52	9.00	7.30	7.73	7.79	8.22	8.70
	6H	8.27	8.62	8.80	9.14	9.64	7.93	8.28	8.46	8.80	9.30
	8H	8.63	8.94	9.15	9.44	10.01	8.26	8.57	8.78	9.07	9.65