

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427654

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427654  
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-0U-050D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL 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**

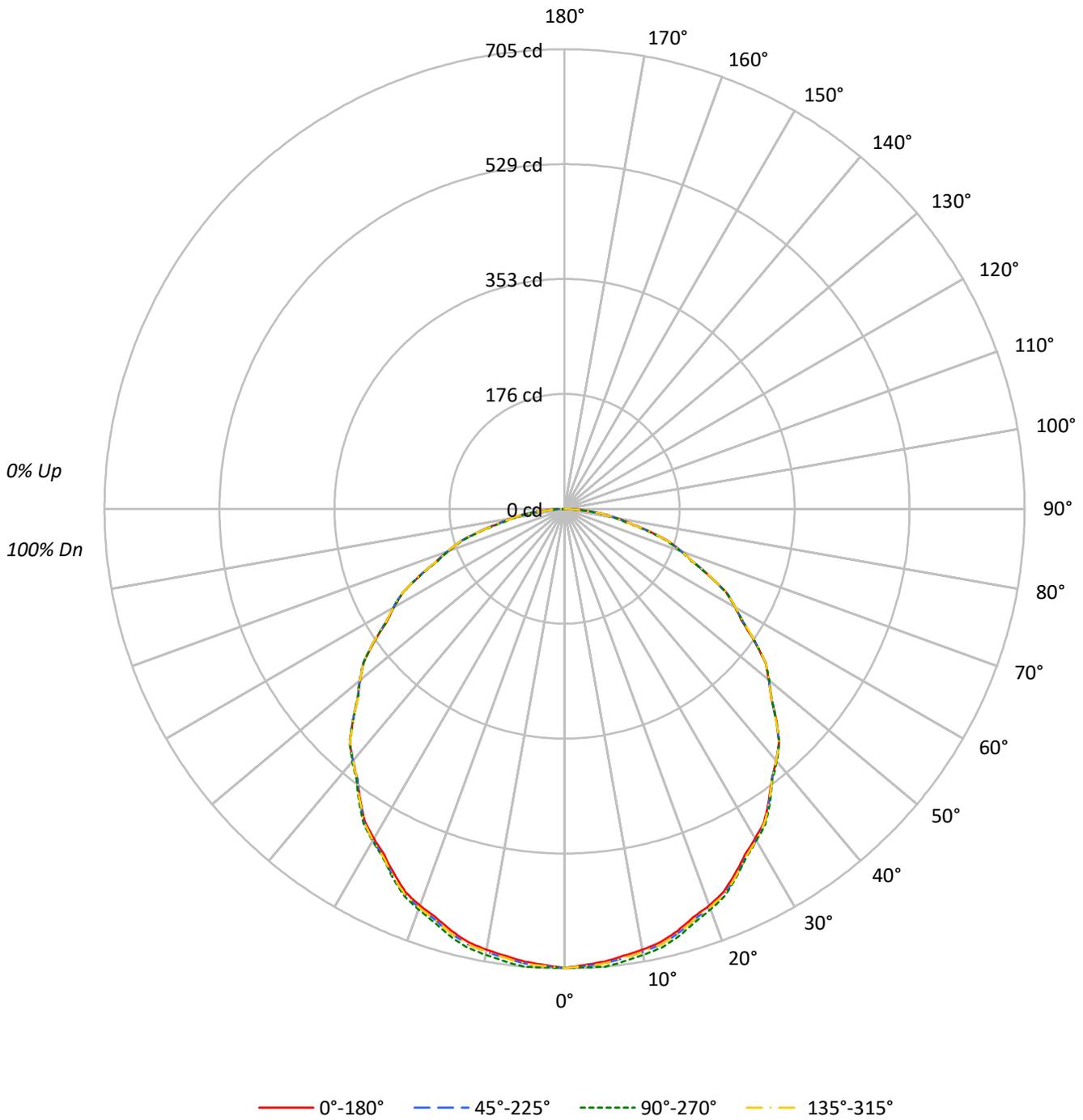
Lumens per Lamp: N/A  
Luminaire Lumens: 1981.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
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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CATALOG NUMBER: SQ2W-F-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	90°	180°	270°
0°	11370	11370	11370	11370
5°	11300	11429	11300	11429
10°	11260	11389	11260	11389
15°	11197	11340	11197	11340
20°	11127	11239	11127	11239
25°	11008	11104	11008	11104
30°	10891	10964	10891	10964
35°	10752	10819	10752	10819
40°	10629	10661	10629	10661
45°	10474	10474	10474	10474
50°	10263	10288	10263	10288
55°	10021	10035	10021	10035
60°	9752	9752	9752	9752
65°	9436	9398	9436	9398
70°	8988	8894	8988	8894
75°	8384	8197	8384	8197
80°	7466	7104	7466	7104
85°	5965	5057	5965	5057

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10544 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.4
10°-20°	190.4	9.6
20°-30°	286.6	14.5
30°-40°	342.7	17.3
40°-50°	353.9	17.9
50°-60°	319.2	16.1
60°-70°	244.5	12.3
70°-80°	141.3	7.1
80°-90°	36.7	1.9
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°	543.6	27.4
0°-40°	886.2	44.7
0°-60°	1559.3	78.7
0°-90°	1981.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	704	704	704	704	704	
5°	697	705	697	705	697	66
15°	670	678	670	678	670	189
25°	618	623	618	623	618	285
35°	546	549	546	549	546	341
45°	459	459	459	459	459	353
55°	356	356	356	356	356	318
65°	247	246	247	246	247	244
75°	134	131	134	131	134	142
85°	32	27	32	27	32	39
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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	700.6	703.9	707.3	705.9	702.9	701.7	702.4	703.1	703.4	703.8	703.4
5°	697.2	701.6	706.0	704.5	701.0	699.4	699.9	700.7	702.9	705.2	702.9
7.5°	691.6	696.0	700.4	699.0	695.6	694.2	694.7	695.7	698.0	700.3	698.0
10°	686.8	691.2	695.6	694.1	690.6	689.2	690.1	691.2	693.0	694.7	693.0
12.5°	680.9	685.3	689.7	688.4	685.2	683.9	684.4	685.3	687.2	689.2	687.2
15°	669.9	674.4	678.8	677.5	674.5	673.3	673.9	674.8	676.6	678.4	676.6
17.5°	656.8	660.9	665.0	663.9	661.1	660.0	660.8	661.7	663.2	664.8	663.2
20°	647.6	651.6	655.6	654.4	651.5	650.2	650.4	651.0	652.5	654.1	652.5
22.5°	636.5	640.5	644.5	643.4	640.7	639.2	638.7	638.8	640.7	642.6	640.7
25°	617.9	621.8	625.8	625.0	622.6	621.0	620.4	620.2	621.8	623.3	621.8
27.5°	598.4	601.7	605.0	604.4	602.3	601.1	600.7	600.6	601.7	602.8	601.7
30°	584.2	587.5	590.8	589.9	587.7	586.4	586.0	585.9	587.0	588.1	587.0
32.5°	569.1	572.2	575.3	574.2	571.6	570.3	570.2	570.5	571.8	573.0	571.8
35°	545.5	548.1	550.8	549.6	547.2	546.1	546.3	546.7	547.8	548.9	547.8
37.5°	521.8	523.8	525.8	524.6	522.4	521.3	521.2	521.4	522.3	523.3	522.3
40°	504.3	506.5	508.7	507.5	505.0	503.7	503.5	503.6	504.7	505.8	504.7
42.5°	486.5	488.1	489.8	488.7	486.6	485.6	485.8	486.0	486.6	487.2	486.6
45°	458.7	460.2	461.8	460.7	458.7	457.7	457.7	457.8	458.3	458.7	458.3
47.5°	429.6	430.8	432.0	431.2	429.6	428.7	428.4	428.4	429.1	429.8	429.1
50°	408.6	410.2	411.7	410.9	409.4	408.4	408.0	407.8	408.7	409.6	408.7
52.5°	388.0	389.7	391.4	390.7	389.2	388.1	387.5	387.2	387.9	388.6	387.9
55°	356.0	358.0	360.0	359.5	358.2	357.1	356.2	355.7	356.1	356.5	356.1
57.5°	323.4	325.4	327.3	326.9	325.8	324.7	323.6	323.0	323.6	324.2	323.6
60°	302.0	303.8	305.5	305.0	303.6	302.5	301.7	301.1	301.6	302.0	301.6
62.5°	280.2	281.9	283.7	283.0	281.5	280.3	279.4	278.9	279.3	279.8	279.3
65°	247.0	248.5	250.0	249.4	248.1	247.0	246.1	245.5	245.7	246.0	245.7
67.5°	213.4	214.8	216.1	215.4	214.2	212.9	211.6	210.7	211.1	211.4	211.1
70°	190.4	191.7	193.1	192.6	191.5	190.4	189.3	188.4	188.4	188.4	188.4
72.5°	168.2	169.4	170.5	169.8	168.5	167.4	166.5	165.8	165.8	165.8	165.8
75°	134.4	135.0	135.7	135.4	134.7	133.8	132.7	131.9	131.6	131.4	131.6
77.5°	101.8	101.8	101.8	101.1	100.3	99.5	98.6	97.9	97.7	97.4	97.7
80°	80.3	80.3	80.3	79.8	79.2	78.5	77.9	77.2	76.8	76.4	76.8
82.5°	60.5	60.1	59.8	59.2	58.5	57.7	56.7	56.0	56.5	56.9	56.5
85°	32.2	31.8	31.4	30.7	30.1	29.3	28.4	27.7	27.5	27.3	27.5
87.5°	9.9	9.6	9.2	8.7	8.2	7.6	6.9	6.3	6.1	6.0	6.1
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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	703.1	702.4	701.7	702.9	705.9	707.3	703.9	700.6	703.9	707.3	705.9
5°	700.7	699.9	699.4	701.0	704.5	706.0	701.6	697.2	701.6	706.0	704.5
7.5°	695.7	694.7	694.2	695.6	699.0	700.4	696.0	691.6	696.0	700.4	699.0
10°	691.2	690.1	689.2	690.6	694.1	695.6	691.2	686.8	691.2	695.6	694.1
12.5°	685.3	684.4	683.9	685.2	688.4	689.7	685.3	680.9	685.3	689.7	688.4
15°	674.8	673.9	673.3	674.5	677.5	678.8	674.4	669.9	674.4	678.8	677.5
17.5°	661.7	660.8	660.0	661.1	663.9	665.0	660.9	656.8	660.9	665.0	663.9
20°	651.0	650.4	650.2	651.5	654.4	655.6	651.6	647.6	651.6	655.6	654.4
22.5°	638.8	638.7	639.2	640.7	643.4	644.5	640.5	636.5	640.5	644.5	643.4
25°	620.2	620.4	621.0	622.6	625.0	625.8	621.8	617.9	621.8	625.8	625.0
27.5°	600.6	600.7	601.1	602.3	604.4	605.0	601.7	598.4	601.7	605.0	604.4
30°	585.9	586.0	586.4	587.7	589.9	590.8	587.5	584.2	587.5	590.8	589.9
32.5°	570.5	570.2	570.3	571.6	574.2	575.3	572.2	569.1	572.2	575.3	574.2
35°	546.7	546.3	546.1	547.2	549.6	550.8	548.1	545.5	548.1	550.8	549.6
37.5°	521.4	521.2	521.3	522.4	524.6	525.8	523.8	521.8	523.8	525.8	524.6
40°	503.6	503.5	503.7	505.0	507.5	508.7	506.5	504.3	506.5	508.7	507.5
42.5°	486.0	485.8	485.6	486.6	488.7	489.8	488.1	486.5	488.1	489.8	488.7
45°	457.8	457.7	457.7	458.7	460.7	461.8	460.2	458.7	460.2	461.8	460.7
47.5°	428.4	428.4	428.7	429.6	431.2	432.0	430.8	429.6	430.8	432.0	431.2
50°	407.8	408.0	408.4	409.4	410.9	411.7	410.2	408.6	410.2	411.7	410.9
52.5°	387.2	387.5	388.1	389.2	390.7	391.4	389.7	388.0	389.7	391.4	390.7
55°	355.7	356.2	357.1	358.2	359.5	360.0	358.0	356.0	358.0	360.0	359.5
57.5°	323.0	323.6	324.7	325.8	326.9	327.3	325.4	323.4	325.4	327.3	326.9
60°	301.1	301.7	302.5	303.6	305.0	305.5	303.8	302.0	303.8	305.5	305.0
62.5°	278.9	279.4	280.3	281.5	283.0	283.7	281.9	280.2	281.9	283.7	283.0
65°	245.5	246.1	247.0	248.1	249.4	250.0	248.5	247.0	248.5	250.0	249.4
67.5°	210.7	211.6	212.9	214.2	215.4	216.1	214.8	213.4	214.8	216.1	215.4
70°	188.4	189.3	190.4	191.5	192.6	193.1	191.7	190.4	191.7	193.1	192.6
72.5°	165.8	166.5	167.4	168.5	169.8	170.5	169.4	168.2	169.4	170.5	169.8
75°	131.9	132.7	133.8	134.7	135.4	135.7	135.0	134.4	135.0	135.7	135.4
77.5°	97.9	98.6	99.5	100.3	101.1	101.8	101.8	101.8	101.8	101.8	101.1
80°	77.2	77.9	78.5	79.2	79.8	80.3	80.3	80.3	80.3	80.3	79.8
82.5°	56.0	56.7	57.7	58.5	59.2	59.8	60.1	60.5	60.1	59.8	59.2
85°	27.7	28.4	29.3	30.1	30.7	31.4	31.8	32.2	31.8	31.4	30.7
87.5°	6.3	6.9	7.6	8.2	8.7	9.2	9.6	9.9	9.6	9.2	8.7
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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	702.9	701.7	702.4	703.1	703.4	703.8	703.4	703.1	702.4	701.7	702.9
5°	701.0	699.4	699.9	700.7	702.9	705.2	702.9	700.7	699.9	699.4	701.0
7.5°	695.6	694.2	694.7	695.7	698.0	700.3	698.0	695.7	694.7	694.2	695.6
10°	690.6	689.2	690.1	691.2	693.0	694.7	693.0	691.2	690.1	689.2	690.6
12.5°	685.2	683.9	684.4	685.3	687.2	689.2	687.2	685.3	684.4	683.9	685.2
15°	674.5	673.3	673.9	674.8	676.6	678.4	676.6	674.8	673.9	673.3	674.5
17.5°	661.1	660.0	660.8	661.7	663.2	664.8	663.2	661.7	660.8	660.0	661.1
20°	651.5	650.2	650.4	651.0	652.5	654.1	652.5	651.0	650.4	650.2	651.5
22.5°	640.7	639.2	638.7	638.8	640.7	642.6	640.7	638.8	638.7	639.2	640.7
25°	622.6	621.0	620.4	620.2	621.8	623.3	621.8	620.2	620.4	621.0	622.6
27.5°	602.3	601.1	600.7	600.6	601.7	602.8	601.7	600.6	600.7	601.1	602.3
30°	587.7	586.4	586.0	585.9	587.0	588.1	587.0	585.9	586.0	586.4	587.7
32.5°	571.6	570.3	570.2	570.5	571.8	573.0	571.8	570.5	570.2	570.3	571.6
35°	547.2	546.1	546.3	546.7	547.8	548.9	547.8	546.7	546.3	546.1	547.2
37.5°	522.4	521.3	521.2	521.4	522.3	523.3	522.3	521.4	521.2	521.3	522.4
40°	505.0	503.7	503.5	503.6	504.7	505.8	504.7	503.6	503.5	503.7	505.0
42.5°	486.6	485.6	485.8	486.0	486.6	487.2	486.6	486.0	485.8	485.6	486.6
45°	458.7	457.7	457.7	457.8	458.3	458.7	458.3	457.8	457.7	457.7	458.7
47.5°	429.6	428.7	428.4	428.4	429.1	429.8	429.1	428.4	428.4	428.7	429.6
50°	409.4	408.4	408.0	407.8	408.7	409.6	408.7	407.8	408.0	408.4	409.4
52.5°	389.2	388.1	387.5	387.2	387.9	388.6	387.9	387.2	387.5	388.1	389.2
55°	358.2	357.1	356.2	355.7	356.1	356.5	356.1	355.7	356.2	357.1	358.2
57.5°	325.8	324.7	323.6	323.0	323.6	324.2	323.6	323.0	323.6	324.7	325.8
60°	303.6	302.5	301.7	301.1	301.6	302.0	301.6	301.1	301.7	302.5	303.6
62.5°	281.5	280.3	279.4	278.9	279.3	279.8	279.3	278.9	279.4	280.3	281.5
65°	248.1	247.0	246.1	245.5	245.7	246.0	245.7	245.5	246.1	247.0	248.1
67.5°	214.2	212.9	211.6	210.7	211.1	211.4	211.1	210.7	211.6	212.9	214.2
70°	191.5	190.4	189.3	188.4	188.4	188.4	188.4	188.4	189.3	190.4	191.5
72.5°	168.5	167.4	166.5	165.8	165.8	165.8	165.8	165.8	166.5	167.4	168.5
75°	134.7	133.8	132.7	131.9	131.6	131.4	131.6	131.9	132.7	133.8	134.7
77.5°	100.3	99.5	98.6	97.9	97.7	97.4	97.7	97.9	98.6	99.5	100.3
80°	79.2	78.5	77.9	77.2	76.8	76.4	76.8	77.2	77.9	78.5	79.2
82.5°	58.5	57.7	56.7	56.0	56.5	56.9	56.5	56.0	56.7	57.7	58.5
85°	30.1	29.3	28.4	27.7	27.5	27.3	27.5	27.7	28.4	29.3	30.1
87.5°	8.2	7.6	6.9	6.3	6.1	6.0	6.1	6.3	6.9	7.6	8.2
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: P1427654

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	704.2	704.2	704.2	704.2
2.5°	705.9	707.3	703.9	700.6
5°	704.5	706.0	701.6	697.2
7.5°	699.0	700.4	696.0	691.6
10°	694.1	695.6	691.2	686.8
12.5°	688.4	689.7	685.3	680.9
15°	677.5	678.8	674.4	669.9
17.5°	663.9	665.0	660.9	656.8
20°	654.4	655.6	651.6	647.6
22.5°	643.4	644.5	640.5	636.5
25°	625.0	625.8	621.8	617.9
27.5°	604.4	605.0	601.7	598.4
30°	589.9	590.8	587.5	584.2
32.5°	574.2	575.3	572.2	569.1
35°	549.6	550.8	548.1	545.5
37.5°	524.6	525.8	523.8	521.8
40°	507.5	508.7	506.5	504.3
42.5°	488.7	489.8	488.1	486.5
45°	460.7	461.8	460.2	458.7
47.5°	431.2	432.0	430.8	429.6
50°	410.9	411.7	410.2	408.6
52.5°	390.7	391.4	389.7	388.0
55°	359.5	360.0	358.0	356.0
57.5°	326.9	327.3	325.4	323.4
60°	305.0	305.5	303.8	302.0
62.5°	283.0	283.7	281.9	280.2
65°	249.4	250.0	248.5	247.0
67.5°	215.4	216.1	214.8	213.4
70°	192.6	193.1	191.7	190.4
72.5°	169.8	170.5	169.4	168.2
75°	135.4	135.7	135.0	134.4
77.5°	101.1	101.8	101.8	101.8
80°	79.8	80.3	80.3	80.3
82.5°	59.2	59.8	60.1	60.5
85°	30.7	31.4	31.8	32.2
87.5°	8.7	9.2	9.6	9.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427654  
 CATALOG NUMBER: SQ2W-F-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	20.11	21.75	20.47	22.06	22.38	20.02	21.67	20.39	21.98	22.29
	3H	21.95	23.44	22.33	23.76	24.12	21.85	23.33	22.22	23.66	24.02
	4H	22.68	24.08	23.08	24.43	24.80	22.56	23.96	22.96	24.31	24.69
	6H	23.15	24.45	23.57	24.82	25.21	23.01	24.31	23.42	24.68	25.07
	8H	23.34	24.58	23.76	24.97	25.36	23.18	24.42	23.60	24.81	25.21
	12H	23.45	24.63	23.87	25.02	25.44	23.27	24.46	23.70	24.84	25.27
4H	2H	20.77	22.17	21.17	22.52	22.90	20.71	22.11	21.11	22.46	22.83
	3H	22.86	24.04	23.27	24.43	24.83	22.77	23.94	23.18	24.34	24.74
	4H	23.71	24.77	24.14	25.18	25.62	23.60	24.66	24.03	25.07	25.51
	6H	24.30	25.23	24.76	25.67	26.13	24.16	25.09	24.61	25.53	25.99
	8H	24.54	25.41	25.00	25.85	26.31	24.38	25.25	24.84	25.69	26.15
	12H	24.69	25.47	25.17	25.94	26.41	24.50	25.28	24.98	25.76	26.23
8H	4H	24.01	24.88	24.47	25.33	25.79	23.92	24.79	24.37	25.23	25.69
	6H	24.74	25.46	25.23	25.95	26.42	24.60	25.33	25.10	25.82	26.29
	8H	25.05	25.70	25.56	26.20	26.69	24.89	25.54	25.40	26.05	26.53
	12H	25.27	25.84	25.77	26.33	26.89	25.08	25.65	25.58	26.14	26.70
12H	4H	24.04	24.83	24.52	25.30	25.77	23.95	24.73	24.43	25.21	25.68
	6H	24.79	25.44	25.30	25.95	26.43	24.67	25.32	25.18	25.82	26.31
	8H	25.16	25.74	25.67	26.23	26.79	25.01	25.59	25.52	26.08	26.64