

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: P1427653

Luminaire Tested: SQ2W-F-0U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427653  
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-L840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

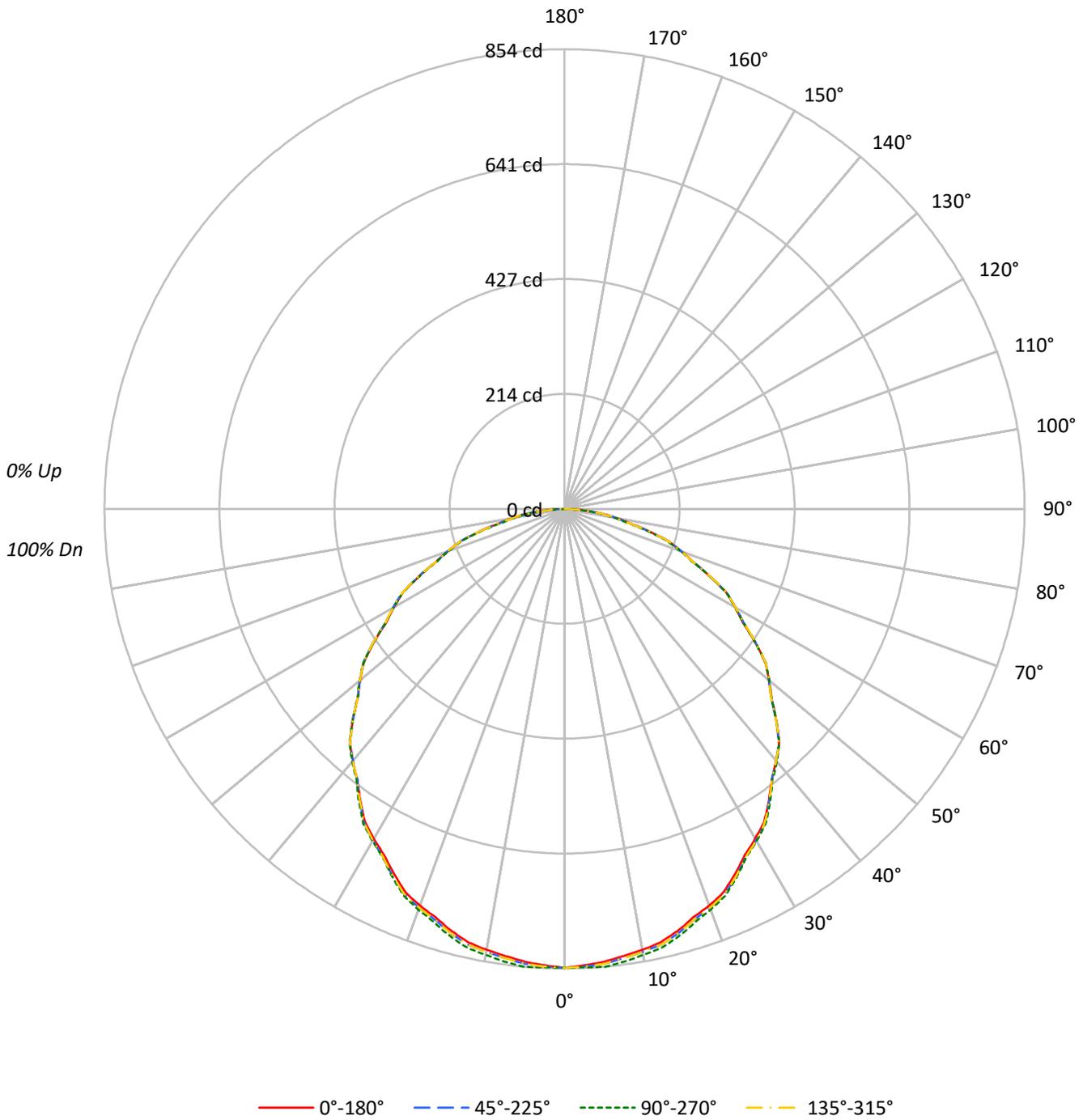
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2401.3 lumens  
Efficiency: N/A  
Efficacy: 134.9 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-L840-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	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°	13775	13775	13775	13775
5°	13692	13847	13692	13847
10°	13644	13801	13644	13801
15°	13569	13740	13569	13740
20°	13483	13617	13483	13617
25°	13338	13455	13338	13455
30°	13196	13285	13196	13285
35°	13026	13111	13026	13111
40°	12880	12918	12880	12918
45°	12691	12691	12691	12691
50°	12436	12466	12436	12466
55°	12143	12160	12143	12160
60°	11815	11815	11815	11815
65°	11431	11385	11431	11385
70°	10891	10777	10891	10777
75°	10156	9931	10156	9931
80°	9047	8601	9047	8601
85°	7243	6113	7243	6113

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12775 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	3.4
10°-20°	230.7	9.6
20°-30°	347.2	14.5
30°-40°	415.2	17.3
40°-50°	428.8	17.9
50°-60°	386.7	16.1
60°-70°	296.2	12.3
70°-80°	171.2	7.1
80°-90°	44.5	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°	658.6	27.4
0°-40°	1073.9	44.7
0°-60°	1889.3	78.7
0°-90°	2401.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	853	853	853	853	853	
5°	845	854	845	854	845	80
15°	812	822	812	822	812	229
25°	749	755	749	755	749	345
35°	661	665	661	665	661	414
45°	556	556	556	556	556	428
55°	431	432	431	432	431	385
65°	299	298	299	298	299	296
75°	163	159	163	159	163	172
85°	39	33	39	33	39	47
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°	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2
2.5°	848.9	853.0	857.0	855.3	851.7	850.3	851.1	851.9	852.3	852.7	852.3
5°	844.8	850.2	855.5	853.6	849.4	847.5	848.0	849.1	851.8	854.4	851.8
7.5°	838.0	843.3	848.6	846.9	842.9	841.2	841.8	843.0	845.8	848.5	845.8
10°	832.2	837.5	842.9	841.0	836.7	835.1	836.2	837.5	839.7	841.8	839.7
12.5°	825.0	830.3	835.7	834.1	830.3	828.7	829.3	830.4	832.7	835.1	832.7
15°	811.8	817.1	822.4	821.0	817.2	815.8	816.6	817.7	819.8	822.0	819.8
17.5°	795.8	800.8	805.8	804.5	801.0	799.7	800.6	801.8	803.6	805.5	803.6
20°	784.7	789.5	794.3	792.9	789.5	787.9	788.1	788.8	790.7	792.5	790.7
22.5°	771.3	776.1	780.9	779.6	776.4	774.5	773.9	774.0	776.3	778.6	776.3
25°	748.7	753.5	758.3	757.3	754.3	752.5	751.7	751.5	753.4	755.3	753.4
27.5°	725.1	729.1	733.1	732.3	729.8	728.3	727.8	727.7	729.1	730.4	729.1
30°	707.8	711.8	715.8	714.8	712.2	710.6	710.0	710.0	711.3	712.6	711.3
32.5°	689.5	693.3	697.1	695.8	692.7	691.1	691.0	691.3	692.8	694.4	692.8
35°	660.9	664.2	667.4	666.0	663.0	661.7	662.0	662.5	663.8	665.2	663.8
37.5°	632.2	634.7	637.1	635.7	633.0	631.6	631.5	631.8	632.9	634.0	632.9
40°	611.1	613.7	616.4	614.9	611.9	610.3	610.1	610.2	611.5	612.9	611.5
42.5°	589.4	591.5	593.5	592.1	589.6	588.4	588.6	588.9	589.6	590.3	589.6
45°	555.8	557.7	559.5	558.2	555.8	554.6	554.6	554.7	555.3	555.8	555.3
47.5°	520.6	522.0	523.5	522.4	520.6	519.5	519.1	519.1	520.0	520.8	520.0
50°	495.1	497.0	498.8	497.9	496.0	494.8	494.3	494.2	495.2	496.3	495.2
52.5°	470.1	472.2	474.3	473.4	471.5	470.2	469.5	469.1	470.0	470.8	470.0
55°	431.4	433.8	436.2	435.6	434.0	432.7	431.6	431.0	431.5	432.0	431.5
57.5°	391.9	394.2	396.6	396.1	394.7	393.4	392.1	391.3	392.1	392.8	392.1
60°	365.9	368.1	370.2	369.5	367.9	366.6	365.5	364.9	365.4	365.9	365.4
62.5°	339.5	341.6	343.8	342.9	341.1	339.7	338.6	337.9	338.5	339.0	338.5
65°	299.2	301.1	303.0	302.2	300.6	299.3	298.2	297.5	297.8	298.0	297.8
67.5°	258.6	260.2	261.8	261.1	259.5	258.0	256.4	255.4	255.8	256.2	255.8
70°	230.7	232.3	233.9	233.3	232.0	230.7	229.3	228.3	228.3	228.3	228.3
72.5°	203.8	205.2	206.6	205.8	204.2	202.9	201.8	200.9	200.9	200.9	200.9
75°	162.8	163.6	164.4	164.0	163.2	162.2	160.8	159.8	159.5	159.2	159.5
77.5°	123.3	123.3	123.3	122.5	121.5	120.5	119.5	118.7	118.3	118.0	118.3
80°	97.3	97.3	97.3	96.7	95.9	95.1	94.3	93.6	93.1	92.5	93.1
82.5°	73.3	72.9	72.5	71.7	70.9	69.9	68.7	67.9	68.4	69.0	68.4
85°	39.1	38.5	38.0	37.3	36.5	35.5	34.4	33.6	33.3	33.0	33.3
87.5°	12.0	11.6	11.2	10.6	9.9	9.2	8.3	7.6	7.4	7.2	7.4
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2
2.5°	851.9	851.1	850.3	851.7	855.3	857.0	853.0	848.9	853.0	857.0	855.3
5°	849.1	848.0	847.5	849.4	853.6	855.5	850.2	844.8	850.2	855.5	853.6
7.5°	843.0	841.8	841.2	842.9	846.9	848.6	843.3	838.0	843.3	848.6	846.9
10°	837.5	836.2	835.1	836.7	841.0	842.9	837.5	832.2	837.5	842.9	841.0
12.5°	830.4	829.3	828.7	830.3	834.1	835.7	830.3	825.0	830.3	835.7	834.1
15°	817.7	816.6	815.8	817.2	821.0	822.4	817.1	811.8	817.1	822.4	821.0
17.5°	801.8	800.6	799.7	801.0	804.5	805.8	800.8	795.8	800.8	805.8	804.5
20°	788.8	788.1	787.9	789.5	792.9	794.3	789.5	784.7	789.5	794.3	792.9
22.5°	774.0	773.9	774.5	776.4	779.6	780.9	776.1	771.3	776.1	780.9	779.6
25°	751.5	751.7	752.5	754.3	757.3	758.3	753.5	748.7	753.5	758.3	757.3
27.5°	727.7	727.8	728.3	729.8	732.3	733.1	729.1	725.1	729.1	733.1	732.3
30°	710.0	710.0	710.6	712.2	714.8	715.8	711.8	707.8	711.8	715.8	714.8
32.5°	691.3	691.0	691.1	692.7	695.8	697.1	693.3	689.5	693.3	697.1	695.8
35°	662.5	662.0	661.7	663.0	666.0	667.4	664.2	660.9	664.2	667.4	666.0
37.5°	631.8	631.5	631.6	633.0	635.7	637.1	634.7	632.2	634.7	637.1	635.7
40°	610.2	610.1	610.3	611.9	614.9	616.4	613.7	611.1	613.7	616.4	614.9
42.5°	588.9	588.6	588.4	589.6	592.1	593.5	591.5	589.4	591.5	593.5	592.1
45°	554.7	554.6	554.6	555.8	558.2	559.5	557.7	555.8	557.7	559.5	558.2
47.5°	519.1	519.1	519.5	520.6	522.4	523.5	522.0	520.6	522.0	523.5	522.4
50°	494.2	494.3	494.8	496.0	497.9	498.8	497.0	495.1	497.0	498.8	497.9
52.5°	469.1	469.5	470.2	471.5	473.4	474.3	472.2	470.1	472.2	474.3	473.4
55°	431.0	431.6	432.7	434.0	435.6	436.2	433.8	431.4	433.8	436.2	435.6
57.5°	391.3	392.1	393.4	394.7	396.1	396.6	394.2	391.9	394.2	396.6	396.1
60°	364.9	365.5	366.6	367.9	369.5	370.2	368.1	365.9	368.1	370.2	369.5
62.5°	337.9	338.6	339.7	341.1	342.9	343.8	341.6	339.5	341.6	343.8	342.9
65°	297.5	298.2	299.3	300.6	302.2	303.0	301.1	299.2	301.1	303.0	302.2
67.5°	255.4	256.4	258.0	259.5	261.1	261.8	260.2	258.6	260.2	261.8	261.1
70°	228.3	229.3	230.7	232.0	233.3	233.9	232.3	230.7	232.3	233.9	233.3
72.5°	200.9	201.8	202.9	204.2	205.8	206.6	205.2	203.8	205.2	206.6	205.8
75°	159.8	160.8	162.2	163.2	164.0	164.4	163.6	162.8	163.6	164.4	164.0
77.5°	118.7	119.5	120.5	121.5	122.5	123.3	123.3	123.3	123.3	123.3	122.5
80°	93.6	94.3	95.1	95.9	96.7	97.3	97.3	97.3	97.3	97.3	96.7
82.5°	67.9	68.7	69.9	70.9	71.7	72.5	72.9	73.3	72.9	72.5	71.7
85°	33.6	34.4	35.5	36.5	37.3	38.0	38.5	39.1	38.5	38.0	37.3
87.5°	7.6	8.3	9.2	9.9	10.6	11.2	11.6	12.0	11.6	11.2	10.6
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°	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2
2.5°	851.7	850.3	851.1	851.9	852.3	852.7	852.3	851.9	851.1	850.3	851.7
5°	849.4	847.5	848.0	849.1	851.8	854.4	851.8	849.1	848.0	847.5	849.4
7.5°	842.9	841.2	841.8	843.0	845.8	848.5	845.8	843.0	841.8	841.2	842.9
10°	836.7	835.1	836.2	837.5	839.7	841.8	839.7	837.5	836.2	835.1	836.7
12.5°	830.3	828.7	829.3	830.4	832.7	835.1	832.7	830.4	829.3	828.7	830.3
15°	817.2	815.8	816.6	817.7	819.8	822.0	819.8	817.7	816.6	815.8	817.2
17.5°	801.0	799.7	800.6	801.8	803.6	805.5	803.6	801.8	800.6	799.7	801.0
20°	789.5	787.9	788.1	788.8	790.7	792.5	790.7	788.8	788.1	787.9	789.5
22.5°	776.4	774.5	773.9	774.0	776.3	778.6	776.3	774.0	773.9	774.5	776.4
25°	754.3	752.5	751.7	751.5	753.4	755.3	753.4	751.5	751.7	752.5	754.3
27.5°	729.8	728.3	727.8	727.7	729.1	730.4	729.1	727.7	727.8	728.3	729.8
30°	712.2	710.6	710.0	710.0	711.3	712.6	711.3	710.0	710.0	710.6	712.2
32.5°	692.7	691.1	691.0	691.3	692.8	694.4	692.8	691.3	691.0	691.1	692.7
35°	663.0	661.7	662.0	662.5	663.8	665.2	663.8	662.5	662.0	661.7	663.0
37.5°	633.0	631.6	631.5	631.8	632.9	634.0	632.9	631.8	631.5	631.6	633.0
40°	611.9	610.3	610.1	610.2	611.5	612.9	611.5	610.2	610.1	610.3	611.9
42.5°	589.6	588.4	588.6	588.9	589.6	590.3	589.6	588.9	588.6	588.4	589.6
45°	555.8	554.6	554.6	554.7	555.3	555.8	555.3	554.7	554.6	554.6	555.8
47.5°	520.6	519.5	519.1	519.1	520.0	520.8	520.0	519.1	519.1	519.5	520.6
50°	496.0	494.8	494.3	494.2	495.2	496.3	495.2	494.2	494.3	494.8	496.0
52.5°	471.5	470.2	469.5	469.1	470.0	470.8	470.0	469.1	469.5	470.2	471.5
55°	434.0	432.7	431.6	431.0	431.5	432.0	431.5	431.0	431.6	432.7	434.0
57.5°	394.7	393.4	392.1	391.3	392.1	392.8	392.1	391.3	392.1	393.4	394.7
60°	367.9	366.6	365.5	364.9	365.4	365.9	365.4	364.9	365.5	366.6	367.9
62.5°	341.1	339.7	338.6	337.9	338.5	339.0	338.5	337.9	338.6	339.7	341.1
65°	300.6	299.3	298.2	297.5	297.8	298.0	297.8	297.5	298.2	299.3	300.6
67.5°	259.5	258.0	256.4	255.4	255.8	256.2	255.8	255.4	256.4	258.0	259.5
70°	232.0	230.7	229.3	228.3	228.3	228.3	228.3	228.3	229.3	230.7	232.0
72.5°	204.2	202.9	201.8	200.9	200.9	200.9	200.9	200.9	201.8	202.9	204.2
75°	163.2	162.2	160.8	159.8	159.5	159.2	159.5	159.8	160.8	162.2	163.2
77.5°	121.5	120.5	119.5	118.7	118.3	118.0	118.3	118.7	119.5	120.5	121.5
80°	95.9	95.1	94.3	93.6	93.1	92.5	93.1	93.6	94.3	95.1	95.9
82.5°	70.9	69.9	68.7	67.9	68.4	69.0	68.4	67.9	68.7	69.9	70.9
85°	36.5	35.5	34.4	33.6	33.3	33.0	33.3	33.6	34.4	35.5	36.5
87.5°	9.9	9.2	8.3	7.6	7.4	7.2	7.4	7.6	8.3	9.2	9.9
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: P1427653

CATALOG NUMBER: SQ2W-F-0U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	853.2	853.2	853.2	853.2
2.5°	855.3	857.0	853.0	848.9
5°	853.6	855.5	850.2	844.8
7.5°	846.9	848.6	843.3	838.0
10°	841.0	842.9	837.5	832.2
12.5°	834.1	835.7	830.3	825.0
15°	821.0	822.4	817.1	811.8
17.5°	804.5	805.8	800.8	795.8
20°	792.9	794.3	789.5	784.7
22.5°	779.6	780.9	776.1	771.3
25°	757.3	758.3	753.5	748.7
27.5°	732.3	733.1	729.1	725.1
30°	714.8	715.8	711.8	707.8
32.5°	695.8	697.1	693.3	689.5
35°	666.0	667.4	664.2	660.9
37.5°	635.7	637.1	634.7	632.2
40°	614.9	616.4	613.7	611.1
42.5°	592.1	593.5	591.5	589.4
45°	558.2	559.5	557.7	555.8
47.5°	522.4	523.5	522.0	520.6
50°	497.9	498.8	497.0	495.1
52.5°	473.4	474.3	472.2	470.1
55°	435.6	436.2	433.8	431.4
57.5°	396.1	396.6	394.2	391.9
60°	369.5	370.2	368.1	365.9
62.5°	342.9	343.8	341.6	339.5
65°	302.2	303.0	301.1	299.2
67.5°	261.1	261.8	260.2	258.6
70°	233.3	233.9	232.3	230.7
72.5°	205.8	206.6	205.2	203.8
75°	164.0	164.4	163.6	162.8
77.5°	122.5	123.3	123.3	123.3
80°	96.7	97.3	97.3	97.3
82.5°	71.7	72.5	72.9	73.3
85°	37.3	38.0	38.5	39.1
87.5°	10.6	11.2	11.6	12.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427653  
 CATALOG NUMBER: SQ2W-F-0U-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	20.78	22.42	21.14	22.73	23.05	20.69	22.33	21.05	22.65	22.96
	3H	22.62	24.10	22.99	24.43	24.79	22.51	24.00	22.89	24.33	24.69
	4H	23.35	24.75	23.74	25.09	25.47	23.23	24.63	23.63	24.98	25.35
	6H	23.82	25.12	24.23	25.48	25.87	23.68	24.98	24.09	25.34	25.73
	8H	24.00	25.24	24.43	25.63	26.03	23.85	25.09	24.27	25.48	25.87
	12H	24.11	25.30	24.54	25.68	26.11	23.94	25.12	24.36	25.51	25.93
4H	2H	21.44	22.84	21.84	23.19	23.56	21.37	22.77	21.77	23.12	23.50
	3H	23.53	24.70	23.94	25.10	25.50	23.44	24.61	23.84	25.01	25.41
	4H	24.37	25.44	24.80	25.85	26.29	24.26	25.33	24.69	25.74	26.17
	6H	24.97	25.90	25.42	26.34	26.79	24.83	25.76	25.28	26.20	26.65
	8H	25.20	26.07	25.66	26.51	26.98	25.04	25.91	25.50	26.36	26.82
	12H	25.35	26.14	25.83	26.61	27.08	25.17	25.95	25.65	26.43	26.89
8H	4H	24.68	25.55	25.14	25.99	26.46	24.58	25.45	25.04	25.89	26.36
	6H	25.40	26.13	25.89	26.61	27.09	25.27	26.00	25.76	26.48	26.96
	8H	25.72	26.37	26.22	26.87	27.36	25.56	26.21	26.07	26.72	27.20
	12H	25.94	26.51	26.44	27.00	27.56	25.74	26.32	26.25	26.81	27.37
12H	4H	24.71	25.49	25.19	25.97	26.44	24.62	25.40	25.10	25.88	26.35
	6H	25.46	26.11	25.97	26.62	27.10	25.33	25.99	25.84	26.49	26.98
	8H	25.83	26.41	26.34	26.90	27.46	25.68	26.26	26.19	26.75	27.31