

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: P1427656

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

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1427656
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-L940-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, 90 CRI LEDS
Ballast/Driver: -

Summary

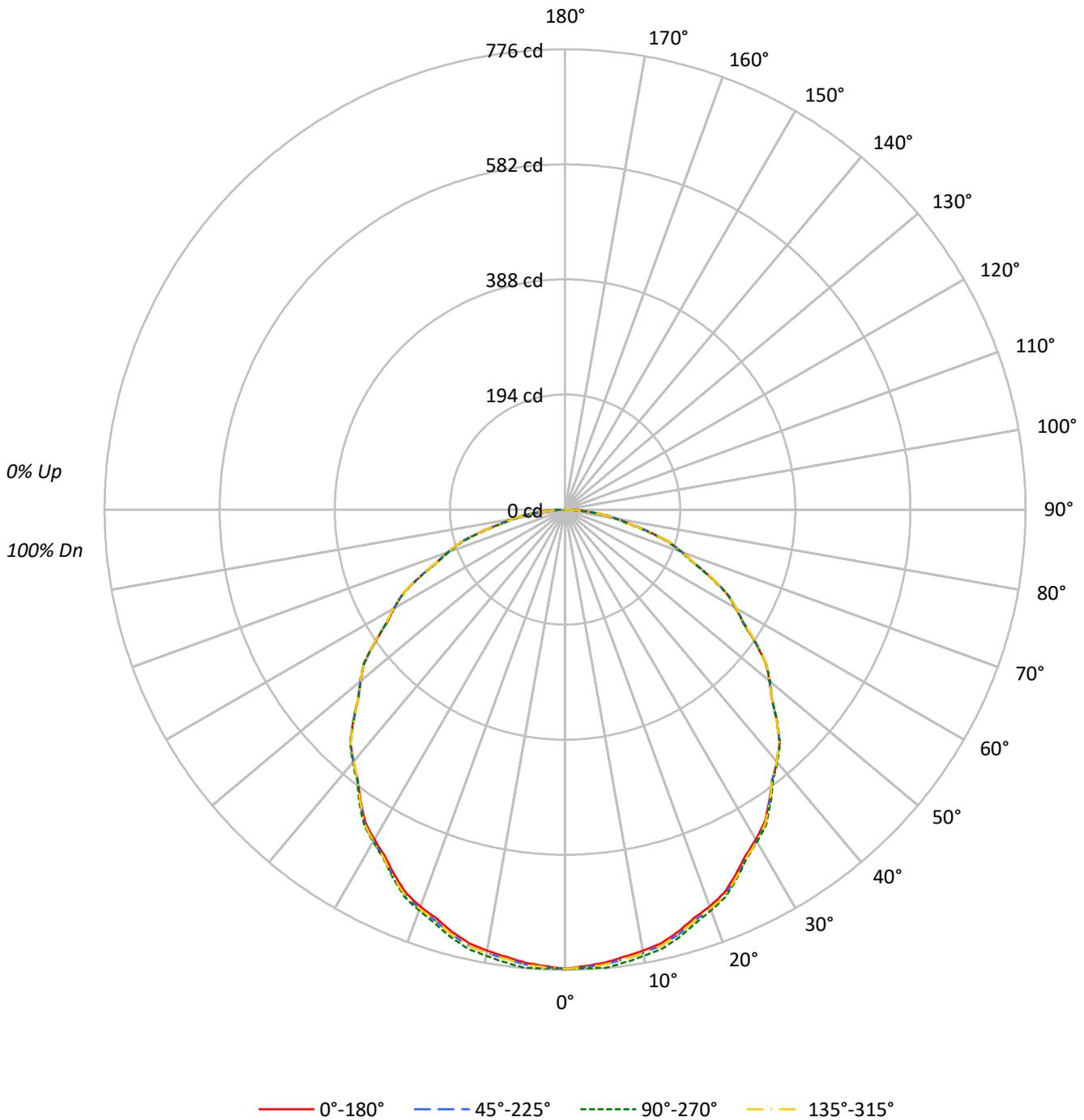
Lumens per Lamp: N/A
Luminaire Lumens: 2179.5 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84	
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70	70	70	70	
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58	58	
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50	50	50	50	
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43	
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38	38	38	38	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33	33	
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30	30	30	30	
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27	
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24	24	24	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12503	12503	12503	12503
5°	12428	12569	12428	12569
10°	12383	12527	12383	12527
15°	12316	12471	12316	12471
20°	12239	12359	12239	12359
25°	12105	12212	12105	12212
30°	11976	12058	11976	12058
35°	11824	11899	11824	11899
40°	11689	11725	11689	11725
45°	11519	11519	11519	11519
50°	11288	11316	11288	11316
55°	11023	11037	11023	11037
60°	10724	10724	10724	10724
65°	10376	10334	10376	10334
70°	9885	9781	9885	9781
75°	9220	9014	9220	9014
80°	8210	7810	8210	7810
85°	6558	5557	6558	5557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.4
10°-20°	209.4	9.6
20°-30°	315.2	14.5
30°-40°	376.9	17.3
40°-50°	389.2	17.9
50°-60°	351.0	16.1
60°-70°	268.9	12.3
70°-80°	155.4	7.1
80°-90°	40.4	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°	597.8	27.4
0°-40°	974.7	44.7
0°-60°	1714.9	78.7
0°-90°	2179.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	774	774	774	774	774	
5°	767	776	767	776	767	73
15°	737	746	737	746	737	208
25°	680	686	680	686	680	313
35°	600	604	600	604	600	375
45°	504	504	504	504	504	389
55°	392	392	392	392	392	350
65°	272	270	272	270	272	268
75°	148	144	148	144	148	156
85°	35	30	35	30	35	43
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°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	770.5	774.2	777.9	776.3	773.0	771.8	772.5	773.2	773.6	774.0	773.6
5°	766.8	771.6	776.5	774.8	770.9	769.2	769.7	770.7	773.1	775.5	773.1
7.5°	760.6	765.4	770.3	768.7	765.0	763.5	764.1	765.1	767.6	770.2	767.6
10°	755.3	760.2	765.0	763.3	759.5	758.0	759.0	760.2	762.1	764.1	762.1
12.5°	748.8	753.6	758.5	757.1	753.6	752.1	752.7	753.7	755.8	758.0	755.8
15°	736.8	741.6	746.5	745.2	741.8	740.4	741.2	742.2	744.1	746.1	744.1
17.5°	722.3	726.8	731.4	730.2	727.0	725.9	726.7	727.7	729.4	731.1	729.4
20°	712.3	716.6	721.0	719.7	716.6	715.1	715.3	715.9	717.6	719.3	717.6
22.5°	700.0	704.4	708.8	707.6	704.7	702.9	702.4	702.5	704.6	706.7	704.6
25°	679.5	683.9	688.3	687.3	684.7	683.0	682.3	682.1	683.8	685.5	683.8
27.5°	658.1	661.8	665.4	664.7	662.4	661.1	660.6	660.5	661.7	662.9	661.7
30°	642.4	646.1	649.7	648.8	646.4	644.9	644.4	644.4	645.6	646.8	645.6
32.5°	625.9	629.3	632.7	631.5	628.7	627.2	627.1	627.4	628.8	630.2	628.8
35°	599.9	602.8	605.7	604.4	601.8	600.6	600.8	601.3	602.5	603.7	602.5
37.5°	573.8	576.1	578.3	577.0	574.5	573.3	573.2	573.4	574.5	575.5	574.5
40°	554.6	557.1	559.5	558.1	555.4	554.0	553.7	553.9	555.1	556.3	555.1
42.5°	535.0	536.8	538.7	537.4	535.2	534.1	534.2	534.5	535.1	535.8	535.1
45°	504.5	506.2	507.9	506.6	504.5	503.4	503.4	503.5	504.0	504.5	504.0
47.5°	472.5	473.8	475.1	474.2	472.5	471.5	471.2	471.2	471.9	472.7	471.9
50°	449.4	451.1	452.8	451.9	450.2	449.1	448.7	448.5	449.5	450.5	449.5
52.5°	426.7	428.6	430.5	429.7	428.0	426.8	426.1	425.8	426.6	427.4	426.6
55°	391.6	393.8	395.9	395.4	393.9	392.7	391.8	391.1	391.6	392.1	391.6
57.5°	355.7	357.8	360.0	359.5	358.3	357.1	355.9	355.2	355.9	356.6	355.9
60°	332.1	334.1	336.0	335.4	333.9	332.7	331.8	331.2	331.6	332.1	331.6
62.5°	308.1	310.1	312.0	311.3	309.6	308.3	307.3	306.7	307.2	307.7	307.2
65°	271.6	273.3	275.0	274.3	272.9	271.7	270.7	270.0	270.3	270.5	270.3
67.5°	234.7	236.2	237.6	236.9	235.5	234.1	232.7	231.8	232.2	232.5	232.2
70°	209.4	210.9	212.3	211.8	210.6	209.4	208.1	207.2	207.2	207.2	207.2
72.5°	185.0	186.2	187.5	186.8	185.4	184.2	183.1	182.4	182.4	182.4	182.4
75°	147.8	148.5	149.2	148.9	148.2	147.2	146.0	145.0	144.8	144.5	144.8
77.5°	111.9	111.9	111.9	111.2	110.3	109.4	108.5	107.7	107.4	107.1	107.4
80°	88.3	88.3	88.3	87.8	87.1	86.3	85.6	85.0	84.5	84.0	84.5
82.5°	66.5	66.1	65.8	65.1	64.4	63.5	62.4	61.6	62.1	62.6	62.1
85°	35.4	35.0	34.5	33.8	33.1	32.2	31.3	30.5	30.2	30.0	30.2
87.5°	10.9	10.5	10.1	9.6	9.0	8.3	7.6	6.9	6.7	6.5	6.7
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	773.2	772.5	771.8	773.0	776.3	777.9	774.2	770.5	774.2	777.9	776.3
5°	770.7	769.7	769.2	770.9	774.8	776.5	771.6	766.8	771.6	776.5	774.8
7.5°	765.1	764.1	763.5	765.0	768.7	770.3	765.4	760.6	765.4	770.3	768.7
10°	760.2	759.0	758.0	759.5	763.3	765.0	760.2	755.3	760.2	765.0	763.3
12.5°	753.7	752.7	752.1	753.6	757.1	758.5	753.6	748.8	753.6	758.5	757.1
15°	742.2	741.2	740.4	741.8	745.2	746.5	741.6	736.8	741.6	746.5	745.2
17.5°	727.7	726.7	725.9	727.0	730.2	731.4	726.8	722.3	726.8	731.4	730.2
20°	715.9	715.3	715.1	716.6	719.7	721.0	716.6	712.3	716.6	721.0	719.7
22.5°	702.5	702.4	702.9	704.7	707.6	708.8	704.4	700.0	704.4	708.8	707.6
25°	682.1	682.3	683.0	684.7	687.3	688.3	683.9	679.5	683.9	688.3	687.3
27.5°	660.5	660.6	661.1	662.4	664.7	665.4	661.8	658.1	661.8	665.4	664.7
30°	644.4	644.4	644.9	646.4	648.8	649.7	646.1	642.4	646.1	649.7	648.8
32.5°	627.4	627.1	627.2	628.7	631.5	632.7	629.3	625.9	629.3	632.7	631.5
35°	601.3	600.8	600.6	601.8	604.4	605.7	602.8	599.9	602.8	605.7	604.4
37.5°	573.4	573.2	573.3	574.5	577.0	578.3	576.1	573.8	576.1	578.3	577.0
40°	553.9	553.7	554.0	555.4	558.1	559.5	557.1	554.6	557.1	559.5	558.1
42.5°	534.5	534.2	534.1	535.2	537.4	538.7	536.8	535.0	536.8	538.7	537.4
45°	503.5	503.4	503.4	504.5	506.6	507.9	506.2	504.5	506.2	507.9	506.6
47.5°	471.2	471.2	471.5	472.5	474.2	475.1	473.8	472.5	473.8	475.1	474.2
50°	448.5	448.7	449.1	450.2	451.9	452.8	451.1	449.4	451.1	452.8	451.9
52.5°	425.8	426.1	426.8	428.0	429.7	430.5	428.6	426.7	428.6	430.5	429.7
55°	391.1	391.8	392.7	393.9	395.4	395.9	393.8	391.6	393.8	395.9	395.4
57.5°	355.2	355.9	357.1	358.3	359.5	360.0	357.8	355.7	357.8	360.0	359.5
60°	331.2	331.8	332.7	333.9	335.4	336.0	334.1	332.1	334.1	336.0	335.4
62.5°	306.7	307.3	308.3	309.6	311.3	312.0	310.1	308.1	310.1	312.0	311.3
65°	270.0	270.7	271.7	272.9	274.3	275.0	273.3	271.6	273.3	275.0	274.3
67.5°	231.8	232.7	234.1	235.5	236.9	237.6	236.2	234.7	236.2	237.6	236.9
70°	207.2	208.1	209.4	210.6	211.8	212.3	210.9	209.4	210.9	212.3	211.8
72.5°	182.4	183.1	184.2	185.4	186.8	187.5	186.2	185.0	186.2	187.5	186.8
75°	145.0	146.0	147.2	148.2	148.9	149.2	148.5	147.8	148.5	149.2	148.9
77.5°	107.7	108.5	109.4	110.3	111.2	111.9	111.9	111.9	111.9	111.9	111.2
80°	85.0	85.6	86.3	87.1	87.8	88.3	88.3	88.3	88.3	88.3	87.8
82.5°	61.6	62.4	63.5	64.4	65.1	65.8	66.1	66.5	66.1	65.8	65.1
85°	30.5	31.3	32.2	33.1	33.8	34.5	35.0	35.4	35.0	34.5	33.8
87.5°	6.9	7.6	8.3	9.0	9.6	10.1	10.5	10.9	10.5	10.1	9.6
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°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	773.0	771.8	772.5	773.2	773.6	774.0	773.6	773.2	772.5	771.8	773.0
5°	770.9	769.2	769.7	770.7	773.1	775.5	773.1	770.7	769.7	769.2	770.9
7.5°	765.0	763.5	764.1	765.1	767.6	770.2	767.6	765.1	764.1	763.5	765.0
10°	759.5	758.0	759.0	760.2	762.1	764.1	762.1	760.2	759.0	758.0	759.5
12.5°	753.6	752.1	752.7	753.7	755.8	758.0	755.8	753.7	752.7	752.1	753.6
15°	741.8	740.4	741.2	742.2	744.1	746.1	744.1	742.2	741.2	740.4	741.8
17.5°	727.0	725.9	726.7	727.7	729.4	731.1	729.4	727.7	726.7	725.9	727.0
20°	716.6	715.1	715.3	715.9	717.6	719.3	717.6	715.9	715.3	715.1	716.6
22.5°	704.7	702.9	702.4	702.5	704.6	706.7	704.6	702.5	702.4	702.9	704.7
25°	684.7	683.0	682.3	682.1	683.8	685.5	683.8	682.1	682.3	683.0	684.7
27.5°	662.4	661.1	660.6	660.5	661.7	662.9	661.7	660.5	660.6	661.1	662.4
30°	646.4	644.9	644.4	644.4	645.6	646.8	645.6	644.4	644.4	644.9	646.4
32.5°	628.7	627.2	627.1	627.4	628.8	630.2	628.8	627.4	627.1	627.2	628.7
35°	601.8	600.6	600.8	601.3	602.5	603.7	602.5	601.3	600.8	600.6	601.8
37.5°	574.5	573.3	573.2	573.4	574.5	575.5	574.5	573.4	573.2	573.3	574.5
40°	555.4	554.0	553.7	553.9	555.1	556.3	555.1	553.9	553.7	554.0	555.4
42.5°	535.2	534.1	534.2	534.5	535.1	535.8	535.1	534.5	534.2	534.1	535.2
45°	504.5	503.4	503.4	503.5	504.0	504.5	504.0	503.5	503.4	503.4	504.5
47.5°	472.5	471.5	471.2	471.2	471.9	472.7	471.9	471.2	471.2	471.5	472.5
50°	450.2	449.1	448.7	448.5	449.5	450.5	449.5	448.5	448.7	449.1	450.2
52.5°	428.0	426.8	426.1	425.8	426.6	427.4	426.6	425.8	426.1	426.8	428.0
55°	393.9	392.7	391.8	391.1	391.6	392.1	391.6	391.1	391.8	392.7	393.9
57.5°	358.3	357.1	355.9	355.2	355.9	356.6	355.9	355.2	355.9	357.1	358.3
60°	333.9	332.7	331.8	331.2	331.6	332.1	331.6	331.2	331.8	332.7	333.9
62.5°	309.6	308.3	307.3	306.7	307.2	307.7	307.2	306.7	307.3	308.3	309.6
65°	272.9	271.7	270.7	270.0	270.3	270.5	270.3	270.0	270.7	271.7	272.9
67.5°	235.5	234.1	232.7	231.8	232.2	232.5	232.2	231.8	232.7	234.1	235.5
70°	210.6	209.4	208.1	207.2	207.2	207.2	207.2	207.2	208.1	209.4	210.6
72.5°	185.4	184.2	183.1	182.4	182.4	182.4	182.4	182.4	183.1	184.2	185.4
75°	148.2	147.2	146.0	145.0	144.8	144.5	144.8	145.0	146.0	147.2	148.2
77.5°	110.3	109.4	108.5	107.7	107.4	107.1	107.4	107.7	108.5	109.4	110.3
80°	87.1	86.3	85.6	85.0	84.5	84.0	84.5	85.0	85.6	86.3	87.1
82.5°	64.4	63.5	62.4	61.6	62.1	62.6	62.1	61.6	62.4	63.5	64.4
85°	33.1	32.2	31.3	30.5	30.2	30.0	30.2	30.5	31.3	32.2	33.1
87.5°	9.0	8.3	7.6	6.9	6.7	6.5	6.7	6.9	7.6	8.3	9.0
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: P1427656

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	774.4	774.4	774.4	774.4
2.5°	776.3	777.9	774.2	770.5
5°	774.8	776.5	771.6	766.8
7.5°	768.7	770.3	765.4	760.6
10°	763.3	765.0	760.2	755.3
12.5°	757.1	758.5	753.6	748.8
15°	745.2	746.5	741.6	736.8
17.5°	730.2	731.4	726.8	722.3
20°	719.7	721.0	716.6	712.3
22.5°	707.6	708.8	704.4	700.0
25°	687.3	688.3	683.9	679.5
27.5°	664.7	665.4	661.8	658.1
30°	648.8	649.7	646.1	642.4
32.5°	631.5	632.7	629.3	625.9
35°	604.4	605.7	602.8	599.9
37.5°	577.0	578.3	576.1	573.8
40°	558.1	559.5	557.1	554.6
42.5°	537.4	538.7	536.8	535.0
45°	506.6	507.9	506.2	504.5
47.5°	474.2	475.1	473.8	472.5
50°	451.9	452.8	451.1	449.4
52.5°	429.7	430.5	428.6	426.7
55°	395.4	395.9	393.8	391.6
57.5°	359.5	360.0	357.8	355.7
60°	335.4	336.0	334.1	332.1
62.5°	311.3	312.0	310.1	308.1
65°	274.3	275.0	273.3	271.6
67.5°	236.9	237.6	236.2	234.7
70°	211.8	212.3	210.9	209.4
72.5°	186.8	187.5	186.2	185.0
75°	148.9	149.2	148.5	147.8
77.5°	111.2	111.9	111.9	111.9
80°	87.8	88.3	88.3	88.3
82.5°	65.1	65.8	66.1	66.5
85°	33.8	34.5	35.0	35.4
87.5°	9.6	10.1	10.5	10.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427656
 CATALOG NUMBER: SQ2W-F-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	20.44	22.08	20.80	22.40	22.71	20.35	22.00	20.72	22.31	22.62
	3H	22.28	23.77	22.66	24.09	24.45	22.18	23.66	22.55	23.99	24.35
	4H	23.01	24.41	23.41	24.76	25.13	22.90	24.30	23.29	24.64	25.02
	6H	23.48	24.78	23.90	25.15	25.54	23.34	24.64	23.75	25.01	25.40
	8H	23.67	24.91	24.09	25.30	25.69	23.51	24.75	23.94	25.14	25.54
	12H	23.78	24.96	24.20	25.35	25.77	23.60	24.79	24.03	25.17	25.60
4H	2H	21.10	22.50	21.50	22.85	23.23	21.04	22.44	21.44	22.79	23.16
	3H	23.19	24.37	23.60	24.76	25.16	23.10	24.27	23.51	24.67	25.07
	4H	24.04	25.10	24.47	25.51	25.95	23.93	24.99	24.36	25.40	25.84
	6H	24.63	25.56	25.09	26.00	26.46	24.49	25.42	24.95	25.86	26.32
	8H	24.87	25.74	25.33	26.18	26.64	24.71	25.58	25.17	26.02	26.48
	12H	25.02	25.80	25.50	26.27	26.74	24.83	25.61	25.31	26.09	26.56
8H	4H	24.34	25.21	24.80	25.66	26.12	24.25	25.12	24.71	25.56	26.02
	6H	25.07	25.79	25.56	26.28	26.75	24.94	25.66	25.43	26.15	26.62
	8H	25.38	26.03	25.89	26.53	27.02	25.22	25.87	25.73	26.38	26.86
	12H	25.60	26.17	26.10	26.66	27.22	25.41	25.98	25.91	26.47	27.03
12H	4H	24.38	25.16	24.85	25.63	26.10	24.28	25.07	24.76	25.54	26.01
	6H	25.12	25.77	25.63	26.28	26.77	25.00	25.65	25.51	26.16	26.64
	8H	25.50	26.07	26.00	26.56	27.12	25.34	25.92	25.85	26.41	26.97