

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: P1435885

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

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435885
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-0U-050D-L840-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING 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

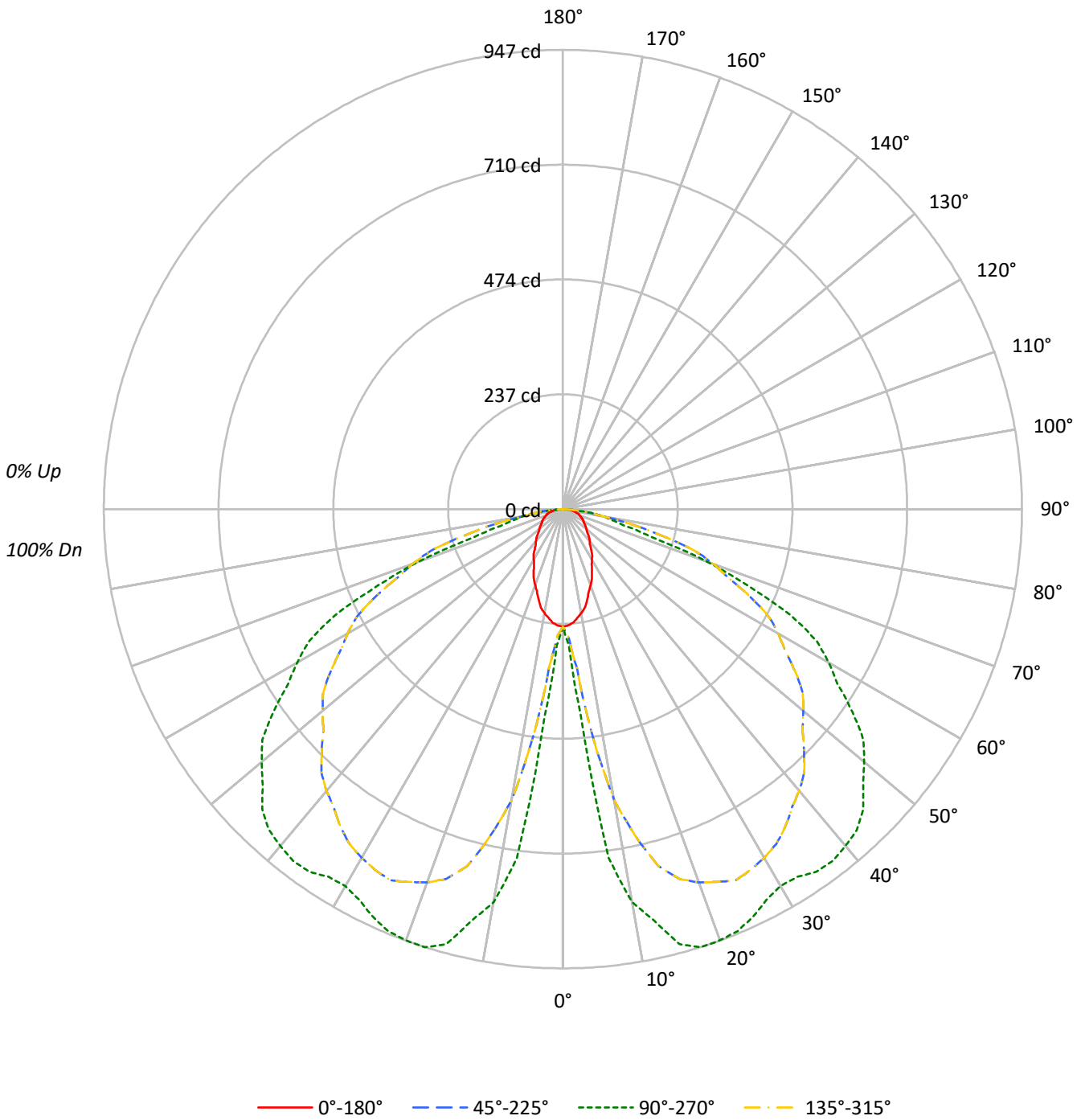
Lumens per Lamp: N/A
Luminaire Lumens: 2394.1 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				69
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57				57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31				31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27				27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3914	3914	3914	3914
5°	3815	6932	3815	6932
10°	3572	13489	3572	13489
15°	3234	15525	3234	15525
20°	2864	16259	2864	16259
25°	2533	16527	2533	16527
30°	2237	16730	2237	16730
35°	1999	17985	1999	17985
40°	1817	19110	1817	19110
45°	1676	20011	1676	20011
50°	1580	20373	1580	20373
55°	1543	20535	1543	20535
60°	1579	20434	1579	20434
65°	1647	19858	1647	19858
70°	1704	15021	1704	15021
75°	1890	8291	1890	8291
80°	1953	7689	1953	7689
85°	1945	3242	1945	3242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 20722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.7
10°-20°	185.3	7.7
20°-30°	326.1	13.6
30°-40°	422.1	17.6
40°-50°	465.5	19.4
50°-60°	434.5	18.1
60°-70°	335.7	14.0
70°-80°	154.7	6.5
80°-90°	29.6	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°	552.0	23.1
0°-40°	974.1	40.7
0°-60°	1874.1	78.3
0°-90°	2394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	242	242	242	242	242	
5°	235	428	235	428	235	22
15°	194	929	194	929	194	54
25°	142	928	142	928	142	65
35°	101	912	101	912	101	64
45°	73	876	73	876	73	57
55°	55	730	55	730	55	49
65°	43	520	43	520	43	42
75°	30	133	30	133	30	31
85°	10	18	10	18	10	11
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°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	240.5	245.1	249.7	254.5	259.5	264.9	270.7	275.7	278.1	280.6	278.1
5°	235.4	251.0	266.5	289.0	313.9	342.1	373.7	400.8	414.2	427.7	414.2
7.5°	226.3	257.9	289.5	356.5	435.2	516.9	601.7	671.9	698.9	725.8	698.9
10°	217.9	262.0	306.0	419.5	556.3	661.4	735.0	793.8	808.3	822.8	808.3
12.5°	208.6	268.4	328.2	468.3	635.3	744.6	796.2	838.6	853.5	868.5	853.5
15°	193.5	278.9	364.4	522.9	705.7	818.1	860.1	895.7	912.3	928.8	912.3
17.5°	177.8	291.6	405.3	567.0	744.7	854.3	895.8	929.2	938.2	947.2	938.2
20°	166.7	300.3	433.9	595.9	767.4	870.9	906.7	934.9	940.6	946.3	940.6
22.5°	156.4	305.8	455.2	617.4	783.8	880.6	907.6	929.4	935.5	941.7	935.5
25°	142.2	310.5	478.9	640.6	800.1	888.4	905.5	919.4	923.5	927.7	923.5
27.5°	128.4	306.3	484.2	643.9	797.5	879.9	891.1	900.5	904.5	908.6	904.5
30°	120.0	300.8	481.6	639.8	790.5	870.0	878.3	886.0	891.7	897.4	891.7
32.5°	112.6	294.2	475.8	632.0	779.9	857.7	865.6	874.6	886.9	899.2	886.9
35°	101.4	280.1	458.8	613.4	760.0	839.5	851.9	866.9	889.7	912.5	889.7
37.5°	91.8	262.0	432.2	585.3	732.6	819.2	845.2	870.2	892.2	914.1	892.2
40°	86.2	249.4	412.6	564.4	712.6	804.0	838.7	869.4	888.0	906.7	888.0
42.5°	80.6	235.1	389.6	540.2	689.6	784.5	825.0	860.1	878.7	897.4	878.7
45°	73.4	212.2	351.0	500.3	653.1	753.4	801.0	841.2	858.8	876.4	858.8
47.5°	66.7	187.2	307.8	457.8	617.5	722.7	773.2	814.3	827.2	840.0	827.2
50°	62.9	170.7	278.4	428.9	593.6	700.8	750.5	790.4	800.8	811.1	800.8
52.5°	59.2	154.5	249.8	400.6	569.9	677.9	724.7	762.2	771.8	781.3	771.8
55°	54.8	132.5	210.2	359.3	532.3	639.3	680.2	713.0	721.3	729.5	721.3
57.5°	50.8	113.5	176.2	320.6	492.4	595.7	630.6	658.5	665.2	672.0	665.2
60°	48.9	103.3	157.7	296.4	463.2	562.4	594.0	619.4	626.1	632.8	626.1
62.5°	46.2	93.5	140.8	272.2	431.5	525.7	554.8	578.2	584.5	590.9	584.5
65°	43.1	81.4	119.8	238.1	383.2	467.8	492.2	511.5	515.6	519.8	515.6
67.5°	38.9	71.5	104.0	207.0	333.5	404.3	419.4	428.8	421.0	413.3	421.0
70°	36.1	66.2	96.2	188.0	300.4	359.2	364.4	362.7	340.4	318.2	340.4
72.5°	34.3	61.0	87.7	167.2	264.3	307.1	295.7	276.6	234.5	192.3	234.5
75°	30.3	52.1	73.8	133.6	206.1	217.5	167.8	130.8	131.8	132.9	131.8
77.5°	24.7	41.0	57.2	94.0	137.6	146.3	120.0	100.5	101.4	102.3	101.4
80°	21.0	33.9	46.9	61.4	76.4	83.4	82.4	81.7	82.2	82.7	82.2
82.5°	17.2	26.9	36.5	45.2	53.6	58.3	59.4	60.0	59.2	58.5	59.2
85°	10.5	16.2	21.9	25.3	27.8	27.1	22.9	19.6	18.5	17.5	18.5
87.5°	3.7	5.8	7.9	7.1	5.5	4.7	4.7	4.7	4.7	4.7	4.7
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°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	275.7	270.7	264.9	259.5	254.5	249.7	245.1	240.5	245.1	249.7	254.5
5°	400.8	373.7	342.1	313.9	289.0	266.5	251.0	235.4	251.0	266.5	289.0
7.5°	671.9	601.7	516.9	435.2	356.5	289.5	257.9	226.3	257.9	289.5	356.5
10°	793.8	735.0	661.4	556.3	419.5	306.0	262.0	217.9	262.0	306.0	419.5
12.5°	838.6	796.2	744.6	635.3	468.3	328.2	268.4	208.6	268.4	328.2	468.3
15°	895.7	860.1	818.1	705.7	522.9	364.4	278.9	193.5	278.9	364.4	522.9
17.5°	929.2	895.8	854.3	744.7	567.0	405.3	291.6	177.8	291.6	405.3	567.0
20°	934.9	906.7	870.9	767.4	595.9	433.9	300.3	166.7	300.3	433.9	595.9
22.5°	929.4	907.6	880.6	783.8	617.4	455.2	305.8	156.4	305.8	455.2	617.4
25°	919.4	905.5	888.4	800.1	640.6	478.9	310.5	142.2	310.5	478.9	640.6
27.5°	900.5	891.1	879.9	797.5	643.9	484.2	306.3	128.4	306.3	484.2	643.9
30°	886.0	878.3	870.0	790.5	639.8	481.6	300.8	120.0	300.8	481.6	639.8
32.5°	874.6	865.6	857.7	779.9	632.0	475.8	294.2	112.6	294.2	475.8	632.0
35°	866.9	851.9	839.5	760.0	613.4	458.8	280.1	101.4	280.1	458.8	613.4
37.5°	870.2	845.2	819.2	732.6	585.3	432.2	262.0	91.8	262.0	432.2	585.3
40°	869.4	838.7	804.0	712.6	564.4	412.6	249.4	86.2	249.4	412.6	564.4
42.5°	860.1	825.0	784.5	689.6	540.2	389.6	235.1	80.6	235.1	389.6	540.2
45°	841.2	801.0	753.4	653.1	500.3	351.0	212.2	73.4	212.2	351.0	500.3
47.5°	814.3	773.2	722.7	617.5	457.8	307.8	187.2	66.7	187.2	307.8	457.8
50°	790.4	750.5	700.8	593.6	428.9	278.4	170.7	62.9	170.7	278.4	428.9
52.5°	762.2	724.7	677.9	569.9	400.6	249.8	154.5	59.2	154.5	249.8	400.6
55°	713.0	680.2	639.3	532.3	359.3	210.2	132.5	54.8	132.5	210.2	359.3
57.5°	658.5	630.6	595.7	492.4	320.6	176.2	113.5	50.8	113.5	176.2	320.6
60°	619.4	594.0	562.4	463.2	296.4	157.7	103.3	48.9	103.3	157.7	296.4
62.5°	578.2	554.8	525.7	431.5	272.2	140.8	93.5	46.2	93.5	140.8	272.2
65°	511.5	492.2	467.8	383.2	238.1	119.8	81.4	43.1	81.4	119.8	238.1
67.5°	428.8	419.4	404.3	333.5	207.0	104.0	71.5	38.9	71.5	104.0	207.0
70°	362.7	364.4	359.2	300.4	188.0	96.2	66.2	36.1	66.2	96.2	188.0
72.5°	276.6	295.7	307.1	264.3	167.2	87.7	61.0	34.3	61.0	87.7	167.2
75°	130.8	167.8	217.5	206.1	133.6	73.8	52.1	30.3	52.1	73.8	133.6
77.5°	100.5	120.0	146.3	137.6	94.0	57.2	41.0	24.7	41.0	57.2	94.0
80°	81.7	82.4	83.4	76.4	61.4	46.9	33.9	21.0	33.9	46.9	61.4
82.5°	60.0	59.4	58.3	53.6	45.2	36.5	26.9	17.2	26.9	36.5	45.2
85°	19.6	22.9	27.1	27.8	25.3	21.9	16.2	10.5	16.2	21.9	25.3
87.5°	4.7	4.7	4.7	5.5	7.1	7.9	5.8	3.7	5.8	7.9	7.1
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°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	259.5	264.9	270.7	275.7	278.1	280.6	278.1	275.7	270.7	264.9	259.5
5°	313.9	342.1	373.7	400.8	414.2	427.7	414.2	400.8	373.7	342.1	313.9
7.5°	435.2	516.9	601.7	671.9	698.9	725.8	698.9	671.9	601.7	516.9	435.2
10°	556.3	661.4	735.0	793.8	808.3	822.8	808.3	793.8	735.0	661.4	556.3
12.5°	635.3	744.6	796.2	838.6	853.5	868.5	853.5	838.6	796.2	744.6	635.3
15°	705.7	818.1	860.1	895.7	912.3	928.8	912.3	895.7	860.1	818.1	705.7
17.5°	744.7	854.3	895.8	929.2	938.2	947.2	938.2	929.2	895.8	854.3	744.7
20°	767.4	870.9	906.7	934.9	940.6	946.3	940.6	934.9	906.7	870.9	767.4
22.5°	783.8	880.6	907.6	929.4	935.5	941.7	935.5	929.4	907.6	880.6	783.8
25°	800.1	888.4	905.5	919.4	923.5	927.7	923.5	919.4	905.5	888.4	800.1
27.5°	797.5	879.9	891.1	900.5	904.5	908.6	904.5	900.5	891.1	879.9	797.5
30°	790.5	870.0	878.3	886.0	891.7	897.4	891.7	886.0	878.3	870.0	790.5
32.5°	779.9	857.7	865.6	874.6	886.9	899.2	886.9	874.6	865.6	857.7	779.9
35°	760.0	839.5	851.9	866.9	889.7	912.5	889.7	866.9	851.9	839.5	760.0
37.5°	732.6	819.2	845.2	870.2	892.2	914.1	892.2	870.2	845.2	819.2	732.6
40°	712.6	804.0	838.7	869.4	888.0	906.7	888.0	869.4	838.7	804.0	712.6
42.5°	689.6	784.5	825.0	860.1	878.7	897.4	878.7	860.1	825.0	784.5	689.6
45°	653.1	753.4	801.0	841.2	858.8	876.4	858.8	841.2	801.0	753.4	653.1
47.5°	617.5	722.7	773.2	814.3	827.2	840.0	827.2	814.3	773.2	722.7	617.5
50°	593.6	700.8	750.5	790.4	800.8	811.1	800.8	790.4	750.5	700.8	593.6
52.5°	569.9	677.9	724.7	762.2	771.8	781.3	771.8	762.2	724.7	677.9	569.9
55°	532.3	639.3	680.2	713.0	721.3	729.5	721.3	713.0	680.2	639.3	532.3
57.5°	492.4	595.7	630.6	658.5	665.2	672.0	665.2	658.5	630.6	595.7	492.4
60°	463.2	562.4	594.0	619.4	626.1	632.8	626.1	619.4	594.0	562.4	463.2
62.5°	431.5	525.7	554.8	578.2	584.5	590.9	584.5	578.2	554.8	525.7	431.5
65°	383.2	467.8	492.2	511.5	515.6	519.8	515.6	511.5	492.2	467.8	383.2
67.5°	333.5	404.3	419.4	428.8	421.0	413.3	421.0	428.8	419.4	404.3	333.5
70°	300.4	359.2	364.4	362.7	340.4	318.2	340.4	362.7	364.4	359.2	300.4
72.5°	264.3	307.1	295.7	276.6	234.5	192.3	234.5	276.6	295.7	307.1	264.3
75°	206.1	217.5	167.8	130.8	131.8	132.9	131.8	130.8	167.8	217.5	206.1
77.5°	137.6	146.3	120.0	100.5	101.4	102.3	101.4	100.5	120.0	146.3	137.6
80°	76.4	83.4	82.4	81.7	82.2	82.7	82.2	81.7	82.4	83.4	76.4
82.5°	53.6	58.3	59.4	60.0	59.2	58.5	59.2	60.0	59.4	58.3	53.6
85°	27.8	27.1	22.9	19.6	18.5	17.5	18.5	19.6	22.9	27.1	27.8
87.5°	5.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.5
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: P1435885

CATALOG NUMBER: SQ2W-FB-OU-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	242.4	242.4	242.4	242.4
2.5°	254.5	249.7	245.1	240.5
5°	289.0	266.5	251.0	235.4
7.5°	356.5	289.5	257.9	226.3
10°	419.5	306.0	262.0	217.9
12.5°	468.3	328.2	268.4	208.6
15°	522.9	364.4	278.9	193.5
17.5°	567.0	405.3	291.6	177.8
20°	595.9	433.9	300.3	166.7
22.5°	617.4	455.2	305.8	156.4
25°	640.6	478.9	310.5	142.2
27.5°	643.9	484.2	306.3	128.4
30°	639.8	481.6	300.8	120.0
32.5°	632.0	475.8	294.2	112.6
35°	613.4	458.8	280.1	101.4
37.5°	585.3	432.2	262.0	91.8
40°	564.4	412.6	249.4	86.2
42.5°	540.2	389.6	235.1	80.6
45°	500.3	351.0	212.2	73.4
47.5°	457.8	307.8	187.2	66.7
50°	428.9	278.4	170.7	62.9
52.5°	400.6	249.8	154.5	59.2
55°	359.3	210.2	132.5	54.8
57.5°	320.6	176.2	113.5	50.8
60°	296.4	157.7	103.3	48.9
62.5°	272.2	140.8	93.5	46.2
65°	238.1	119.8	81.4	43.1
67.5°	207.0	104.0	71.5	38.9
70°	188.0	96.2	66.2	36.1
72.5°	167.2	87.7	61.0	34.3
75°	133.6	73.8	52.1	30.3
77.5°	94.0	57.2	41.0	24.7
80°	61.4	46.9	33.9	21.0
82.5°	45.2	36.5	26.9	17.2
85°	25.3	21.9	16.2	10.5
87.5°	7.1	7.9	5.8	3.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1435885
 CATALOG NUMBER: SQ2W-FB-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	14.68	16.36	15.04	16.68	16.99	24.27	25.96	24.64	26.27	26.59
	3H	15.68	17.20	16.05	17.53	17.89	25.94	27.46	26.32	27.79	28.15
	4H	16.11	17.55	16.51	17.90	18.27	26.15	27.59	26.55	27.94	28.31
	6H	16.41	17.74	16.82	18.10	18.49	26.27	27.60	26.68	27.96	28.35
	8H	16.52	17.80	16.95	18.18	18.58	26.31	27.58	26.74	27.97	28.37
	12H	16.60	17.82	17.03	18.20	18.63	26.32	27.53	26.75	27.92	28.34
4H	2H	19.49	20.93	19.89	21.28	21.65	24.74	26.17	25.13	26.52	26.89
	3H	20.70	21.90	21.11	22.30	22.70	26.70	27.90	27.11	28.30	28.70
	4H	21.02	22.10	21.45	22.51	22.95	26.96	28.04	27.39	28.45	28.89
	6H	21.20	22.15	21.65	22.59	23.04	27.14	28.08	27.59	28.52	28.98
	8H	21.26	22.14	21.72	22.59	23.05	27.20	28.09	27.66	28.53	28.99
	12H	21.30	22.10	21.78	22.57	23.04	27.22	28.02	27.70	28.49	28.96
8H	4H	22.28	23.16	22.74	23.60	24.07	27.12	28.00	27.58	28.44	28.91
	6H	22.57	23.31	23.07	23.79	24.27	27.35	28.09	27.85	28.57	29.05
	8H	22.68	23.34	23.19	23.84	24.33	27.45	28.11	27.96	28.62	29.10
	12H	22.76	23.34	23.27	23.83	24.39	27.50	28.08	28.00	28.57	29.13
12H	4H	22.34	23.14	22.82	23.61	24.08	27.11	27.90	27.59	28.38	28.85
	6H	22.69	23.35	23.20	23.85	24.34	27.35	28.00	27.85	28.51	28.99
	8H	22.87	23.45	23.37	23.94	24.50	27.49	28.06	27.99	28.55	29.11