

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: P1435717

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435717  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-0U-050D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC 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**

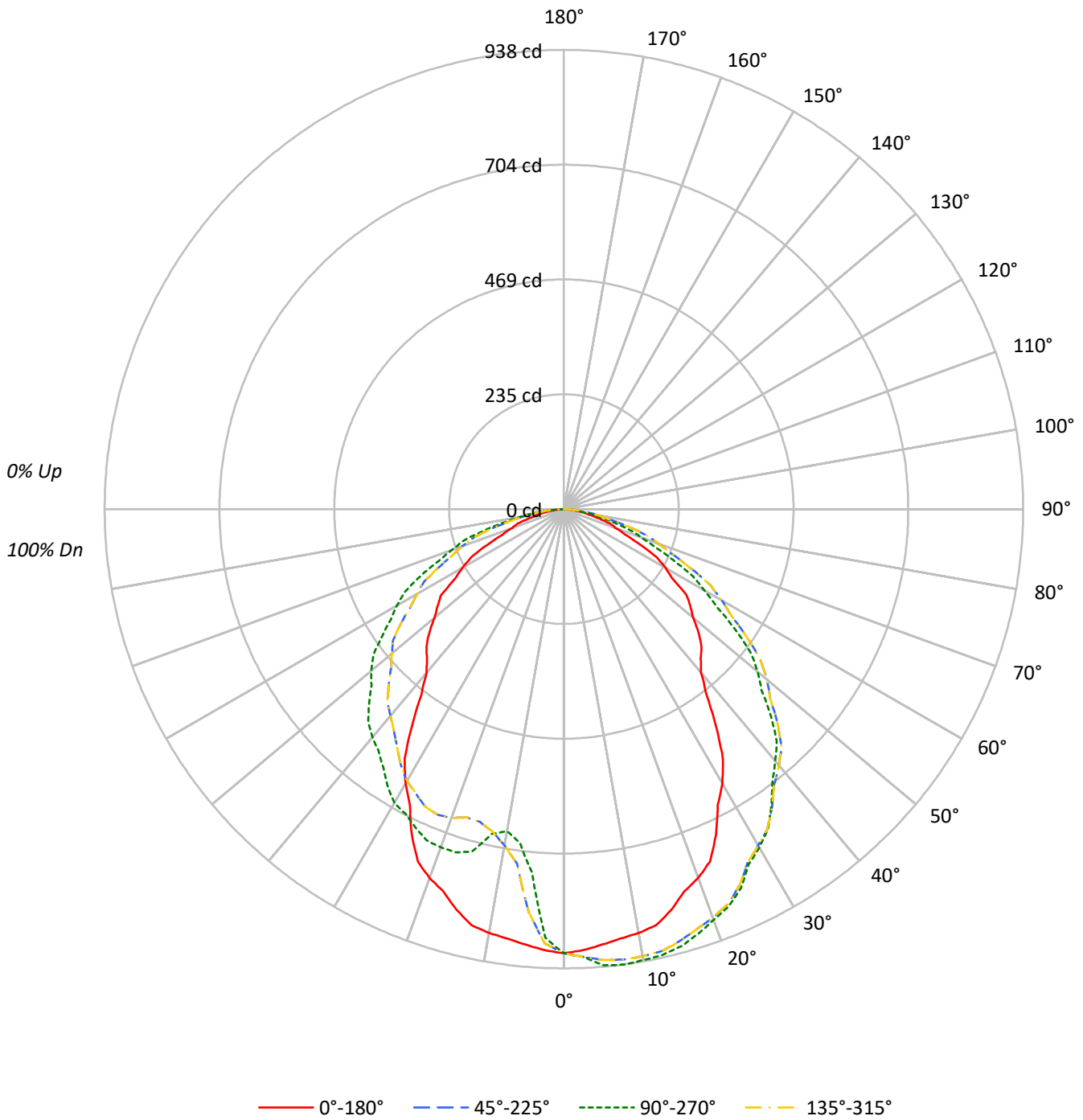
Lumens per Lamp: N/A  
Luminaire Lumens: 2252.9 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
Input Voltage (V): 120  
Input Current (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

TEST NUMBER: P1435717

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1435717

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

**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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	90°	180°	270°
0°	14647	14647	14647	14647
5°	14475	15159	14475	12081
10°	14411	15334	14411	10953
15°	14164	15456	14164	12107
20°	13775	15345	13775	12627
25°	13092	15221	13092	12778
30°	12062	14881	12062	12914
35°	10673	14554	10673	12683
40°	9189	14155	9189	12821
45°	9072	13647	9072	12846
50°	8656	12984	8656	12896
55°	8611	11977	8611	12768
60°	7721	10672	7721	12716
65°	6582	9402	6582	12359
70°	5311	7968	5311	11452
75°	4604	6581	4604	10530
80°	3924	4900	3924	8498
85°	2612	2612	2612	5206

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 14077 cd/sqm



TEST NUMBER: P1435717

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	3.6
10°-20°	228.1	10.1
20°-30°	346.4	15.4
30°-40°	406.7	18.1
40°-50°	412.7	18.3
50°-60°	361.5	16.0
60°-70°	256.4	11.4
70°-80°	132.0	5.9
80°-90°	27.7	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°	656.1	29.1
0°-40°	1062.7	47.2
0°-60°	1836.8	81.5
0°-90°	2252.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	907	907	907	907	907	
5°	893	935	893	745	893	85
15°	847	925	847	724	847	238
25°	735	854	735	717	735	335
35°	542	738	542	644	542	337
45°	397	598	397	563	397	304
55°	306	426	306	454	306	265
65°	172	246	172	324	172	172
75°	74	106	74	169	74	80
85°	14	14	14	28	14	18
90°	0	0	0	0	0	



TEST NUMBER: P1435717

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

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	901.5	907.8	914.0	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
5°	893.1	904.0	915.0	920.1	923.2	925.5	927.1	929.0	932.2	935.3	932.2
7.5°	884.7	899.4	914.0	921.2	925.9	929.7	932.5	935.0	936.5	938.1	936.5
10°	879.0	896.2	913.4	921.2	925.9	929.0	930.6	932.2	933.7	935.3	933.7
12.5°	870.6	889.0	907.5	916.5	922.5	926.2	927.8	929.4	930.9	932.5	930.9
15°	847.4	872.4	897.4	907.2	911.9	915.8	918.9	921.6	923.2	924.7	923.2
17.5°	818.6	848.9	879.2	891.5	897.7	902.2	905.1	907.5	908.7	910.0	908.7
20°	801.7	834.5	867.3	880.2	886.5	890.4	891.9	893.1	893.1	893.1	893.1
22.5°	779.2	815.7	852.3	866.1	872.4	875.7	876.0	876.5	877.8	879.0	877.8
25°	734.9	777.1	819.3	836.8	846.2	850.1	848.6	848.2	851.3	854.4	851.3
27.5°	680.7	733.9	787.0	805.0	811.2	815.1	816.7	817.9	817.9	817.9	817.9
30°	647.0	706.4	765.7	785.3	791.5	795.4	797.0	798.2	798.2	798.2	798.2
32.5°	604.8	675.4	746.1	767.5	772.5	775.1	775.4	775.7	775.7	775.7	775.7
35°	541.5	627.4	713.4	737.2	740.3	741.9	741.9	741.5	740.0	738.4	740.0
37.5°	478.2	575.7	673.2	701.1	705.8	707.1	704.9	702.8	701.3	699.7	701.3
40°	436.0	542.3	648.5	678.6	683.3	683.3	678.6	674.7	673.1	671.6	673.1
42.5°	413.5	518.5	623.5	653.3	658.0	657.4	651.4	646.6	645.0	643.5	645.0
45°	397.3	491.1	584.9	611.8	616.5	615.7	609.5	604.0	600.9	597.7	600.9
47.5°	372.7	455.2	537.7	564.2	572.0	571.3	561.9	554.1	550.9	547.8	550.9
50°	344.6	425.8	507.1	533.3	541.1	540.3	530.9	523.1	520.0	516.9	520.0
52.5°	324.9	401.2	477.4	501.4	508.0	505.9	495.3	486.6	483.4	480.3	483.4
55°	305.9	370.0	434.1	453.6	458.3	455.1	444.2	434.8	430.1	425.5	430.1
57.5°	261.6	322.5	383.5	402.5	407.5	403.7	391.2	380.5	375.2	369.9	375.2
60°	239.1	293.8	348.5	366.9	373.1	370.0	357.5	346.1	338.3	330.5	338.3
62.5°	213.8	262.2	310.7	329.3	338.1	336.2	323.7	312.4	304.6	296.8	304.6
65°	172.3	214.5	256.7	275.4	286.4	285.6	273.1	261.8	253.9	246.1	253.9
67.5°	135.0	171.3	207.5	226.0	238.5	237.8	224.1	212.2	206.0	199.7	206.0
70°	112.5	143.8	175.0	192.2	204.7	204.7	192.2	181.3	175.0	168.8	175.0
72.5°	98.5	122.2	146.0	162.2	176.0	176.0	162.2	150.6	145.6	140.6	145.6
75°	73.8	87.9	102.0	117.2	132.8	134.4	121.9	111.7	108.6	105.5	108.6
77.5°	53.4	60.0	66.6	78.5	92.3	93.8	83.2	74.9	73.7	72.4	73.7
80°	42.2	43.8	45.3	55.1	67.6	69.2	59.8	52.7	52.7	52.7	52.7
82.5°	28.1	29.7	31.3	38.2	47.0	47.9	41.0	35.6	34.3	33.1	34.3
85°	14.1	14.1	14.1	16.4	19.5	19.5	16.4	14.1	14.1	14.1	14.1
87.5°	2.8	2.8	2.8	3.8	5.0	5.0	3.8	2.8	2.8	2.8	2.8
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: P1435717

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	915.6	915.6	915.6	915.6	915.6	914.0	907.8	901.5	901.5	901.5	896.9
5°	929.0	927.1	925.5	923.2	920.1	915.0	904.0	893.1	888.4	883.7	863.8
7.5°	935.0	932.5	929.7	925.9	921.2	914.0	899.4	884.7	863.7	842.8	798.4
10°	932.2	930.6	929.0	925.9	921.2	913.4	896.2	879.0	836.8	794.7	752.5
12.5°	929.4	927.8	926.2	922.5	916.5	907.5	889.0	870.6	810.9	751.2	713.1
15°	921.6	918.9	915.8	911.9	907.2	897.4	872.4	847.4	780.2	713.0	681.0
17.5°	907.5	905.1	902.2	897.7	891.5	879.2	848.9	818.6	748.2	677.9	657.3
20°	893.1	891.9	890.4	886.5	880.2	867.3	834.5	801.7	731.4	661.0	651.7
22.5°	876.5	876.0	875.7	872.4	866.1	852.3	815.7	779.2	710.1	641.0	641.3
25°	848.2	848.6	850.1	846.2	836.8	819.3	777.1	734.9	673.9	613.0	623.5
27.5°	817.9	816.7	815.1	811.2	805.0	787.0	733.9	680.7	632.6	584.5	602.0
30°	798.2	797.0	795.4	791.5	785.3	765.7	706.4	647.0	606.3	565.7	586.0
32.5°	775.7	775.4	775.1	772.5	767.5	746.1	675.4	604.8	575.4	546.0	567.3
35°	741.5	741.9	741.9	740.3	737.2	713.4	627.4	541.5	529.0	516.5	541.5
37.5°	702.8	704.9	707.1	705.8	701.1	673.2	575.7	478.2	482.3	486.3	516.6
40°	674.7	678.6	683.3	683.3	678.6	648.5	542.3	436.0	450.1	464.1	497.0
42.5°	646.6	651.4	657.4	658.0	653.3	623.5	518.5	413.5	428.8	444.1	478.2
45°	604.0	609.5	615.7	616.5	611.8	584.9	491.1	397.3	406.7	416.1	448.9
47.5°	554.1	561.9	571.3	572.0	564.2	537.7	455.2	372.7	379.6	386.5	420.1
50°	523.1	530.9	540.3	541.1	533.3	507.1	425.8	344.6	354.0	363.3	398.5
52.5°	486.6	495.3	505.9	508.0	501.4	477.4	401.2	324.9	330.5	336.1	374.1
55°	434.8	444.2	455.1	458.3	453.6	434.1	370.0	305.9	301.2	296.5	335.2
57.5°	380.5	391.2	403.7	407.5	402.5	383.5	322.5	261.6	257.5	253.5	295.4
60°	346.1	357.5	370.0	373.1	366.9	348.5	293.8	239.1	231.3	223.5	267.2
62.5°	312.4	323.7	336.2	338.1	329.3	310.7	262.2	213.8	208.5	203.2	245.7
65°	261.8	273.1	285.6	286.4	275.4	256.7	214.5	172.3	175.4	178.5	216.8
67.5°	212.2	224.1	237.8	238.5	226.0	207.5	171.3	135.0	145.3	155.6	190.1
70°	181.3	192.2	204.7	204.7	192.2	175.0	143.8	112.5	126.6	140.6	172.3
72.5°	150.6	162.2	176.0	176.0	162.2	146.0	122.2	98.5	112.5	126.6	152.6
75°	111.7	121.9	134.4	132.8	117.2	102.0	87.9	73.8	87.9	102.0	121.9
77.5°	74.9	83.2	93.8	92.3	78.5	66.6	60.0	53.4	65.0	76.6	90.5
80°	52.7	59.8	69.2	67.6	55.1	45.3	43.8	42.2	50.0	57.8	68.0
82.5°	35.6	41.0	47.9	47.0	38.2	31.3	29.7	28.1	34.7	41.3	48.3
85°	14.1	16.4	19.5	19.5	16.4	14.1	14.1	14.1	17.2	20.3	23.4
87.5°	2.8	3.8	5.0	5.0	3.8	2.8	2.8	2.8	4.1	5.3	5.6
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: P1435717

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	890.6	885.6	881.9	878.7	877.5	876.2	877.5	878.7	881.9	885.6	890.6
5°	838.8	812.2	784.1	761.1	753.2	745.4	753.2	761.1	784.1	812.2	838.8
7.5°	746.2	714.2	702.3	692.8	690.3	687.8	690.3	692.8	702.3	714.2	746.2
10°	710.3	684.5	675.1	668.1	668.1	668.1	668.1	668.1	675.1	684.5	710.3
12.5°	682.1	666.4	665.7	666.8	673.1	679.3	673.1	666.8	665.7	666.4	682.1
15°	660.6	663.0	688.0	708.7	716.5	724.3	716.5	708.7	688.0	663.0	660.6
17.5°	653.2	666.7	697.6	722.4	728.6	734.9	728.6	722.4	697.6	666.7	653.2
20°	662.6	679.8	703.2	722.4	728.6	734.9	728.6	722.4	703.2	679.8	662.6
22.5°	664.8	685.7	704.2	719.6	725.8	732.1	725.8	719.6	704.2	685.7	664.8
25°	657.9	682.9	698.5	711.0	714.2	717.3	714.2	711.0	698.5	682.9	657.9
27.5°	641.3	668.9	684.5	696.7	698.9	701.1	698.9	696.7	684.5	668.9	641.3
30°	626.7	654.8	670.4	683.3	688.0	692.7	688.0	683.3	670.4	654.8	626.7
32.5°	605.4	634.2	653.5	668.3	669.2	670.2	669.2	668.3	653.5	634.2	605.4
35°	579.0	608.7	630.6	646.6	645.0	643.5	645.0	646.6	630.6	608.7	579.0
37.5°	555.7	584.8	603.8	618.6	620.5	622.4	620.5	618.6	603.8	584.8	555.7
40°	536.0	565.7	586.0	602.0	605.2	608.3	605.2	602.0	586.0	565.7	536.0
42.5°	518.5	548.8	569.1	585.2	588.3	591.4	588.3	585.2	569.1	548.8	518.5
45°	489.5	520.8	542.7	559.5	561.0	562.6	561.0	559.5	542.7	520.8	489.5
47.5°	462.6	494.0	514.3	529.9	531.5	533.0	531.5	529.9	514.3	494.0	462.6
50°	442.3	474.3	494.6	510.2	511.8	513.4	511.8	510.2	494.6	474.3	442.3
52.5°	422.9	456.2	474.0	487.7	489.3	490.9	489.3	487.7	474.0	456.2	422.9
55°	388.3	423.5	440.7	453.6	453.6	453.6	453.6	440.7	423.5	388.3	
57.5°	352.6	388.7	403.7	415.4	417.3	419.1	417.3	415.4	403.7	388.7	352.6
60°	328.2	364.9	377.4	387.6	390.7	393.8	390.7	387.6	377.4	364.9	328.2
62.5°	304.1	339.6	352.1	361.9	363.8	365.7	363.8	361.9	352.1	339.6	304.1
65°	266.8	298.1	310.6	320.4	321.9	323.5	321.9	320.4	310.6	298.1	266.8
67.5°	232.6	258.2	267.0	273.9	275.1	276.4	275.1	273.9	267.0	258.2	232.6
70°	209.8	231.7	237.9	242.6	242.6	242.6	242.6	242.6	237.9	231.7	209.8
72.5°	182.6	200.7	207.0	212.0	213.2	214.5	213.2	212.0	207.0	200.7	182.6
75°	143.8	157.1	161.7	165.7	167.2	168.8	167.2	165.7	161.7	157.1	143.8
77.5°	105.2	113.9	116.7	119.2	120.8	122.4	120.8	119.2	116.7	113.9	105.2
80°	78.9	85.2	86.7	88.3	89.9	91.4	89.9	88.3	86.7	85.2	78.9
82.5°	55.5	59.9	61.4	62.7	63.0	63.3	63.0	62.7	61.4	59.9	55.5
85°	26.6	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	26.6
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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: P1435717

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	907.2	907.2	907.2	907.2
2.5°	896.9	901.5	901.5	901.5
5°	863.8	883.7	888.4	893.1
7.5°	798.4	842.8	863.7	884.7
10°	752.5	794.7	836.8	879.0
12.5°	713.1	751.2	810.9	870.6
15°	681.0	713.0	780.2	847.4
17.5°	657.3	677.9	748.2	818.6
20°	651.7	661.0	731.4	801.7
22.5°	641.3	641.0	710.1	779.2
25°	623.5	613.0	673.9	734.9
27.5°	602.0	584.5	632.6	680.7
30°	586.0	565.7	606.3	647.0
32.5°	567.3	546.0	575.4	604.8
35°	541.5	516.5	529.0	541.5
37.5°	516.6	486.3	482.3	478.2
40°	497.0	464.1	450.1	436.0
42.5°	478.2	444.1	428.8	413.5
45°	448.9	416.1	406.7	397.3
47.5°	420.1	386.5	379.6	372.7
50°	398.5	363.3	354.0	344.6
52.5°	374.1	336.1	330.5	324.9
55°	335.2	296.5	301.2	305.9
57.5°	295.4	253.5	257.5	261.6
60°	267.2	223.5	231.3	239.1
62.5°	245.7	203.2	208.5	213.8
65°	216.8	178.5	175.4	172.3
67.5°	190.1	155.6	145.3	135.0
70°	172.3	140.6	126.6	112.5
72.5°	152.6	126.6	112.5	98.5
75°	121.9	102.0	87.9	73.8
77.5°	90.5	76.6	65.0	53.4
80°	68.0	57.8	50.0	42.2
82.5°	48.3	41.3	34.7	28.1
85°	23.4	20.3	17.2	14.1
87.5°	5.6	5.3	4.1	2.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1435717

CATALOG NUMBER: SQ2W-FA-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	19.53	21.14	19.90	21.46	21.77	20.73	22.34	21.10	22.65	22.97
	3H	20.68	22.12	21.05	22.45	22.81	22.03	23.48	22.41	23.80	24.16
	4H	21.06	22.42	21.46	22.77	23.15	22.45	23.81	22.85	24.16	24.54
	6H	21.26	22.52	21.67	22.88	23.27	22.65	23.91	23.06	24.27	24.66
	8H	21.31	22.52	21.74	22.90	23.30	22.69	23.90	23.12	24.29	24.68
	12H	21.33	22.49	21.76	22.87	23.30	22.70	23.85	23.13	24.24	24.66
4H	2H	20.49	21.85	20.89	22.20	22.57	21.40	22.76	21.80	23.11	23.49
	3H	21.94	23.08	22.35	23.48	23.88	22.93	24.07	23.34	24.47	24.87
	4H	22.43	23.45	22.86	23.87	24.30	23.44	24.46	23.87	24.88	25.31
	6H	22.70	23.59	23.15	24.03	24.49	23.70	24.59	24.16	25.03	25.49
	8H	22.77	23.61	23.23	24.05	24.51	23.77	24.60	24.23	25.04	25.51
	12H	22.81	23.56	23.29	24.03	24.50	23.79	24.54	24.27	25.01	25.48
8H	4H	22.87	23.70	23.33	24.15	24.61	23.69	24.53	24.15	24.97	25.43
	6H	23.25	23.94	23.74	24.43	24.91	24.04	24.73	24.53	25.22	25.69
	8H	23.37	23.99	23.89	24.50	24.99	24.14	24.76	24.65	25.26	25.75
	12H	23.45	23.99	23.95	24.48	25.05	24.19	24.73	24.69	25.22	25.79
12H	4H	22.91	23.65	23.39	24.13	24.60	23.69	24.44	24.18	24.92	25.39
	6H	23.33	23.95	23.84	24.45	24.94	24.06	24.68	24.57	25.19	25.67
	8H	23.51	24.05	24.01	24.54	25.11	24.21	24.75	24.72	25.25	25.81