

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P511817

Luminaire Tested: **SQW-F-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511817  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-050D-840-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

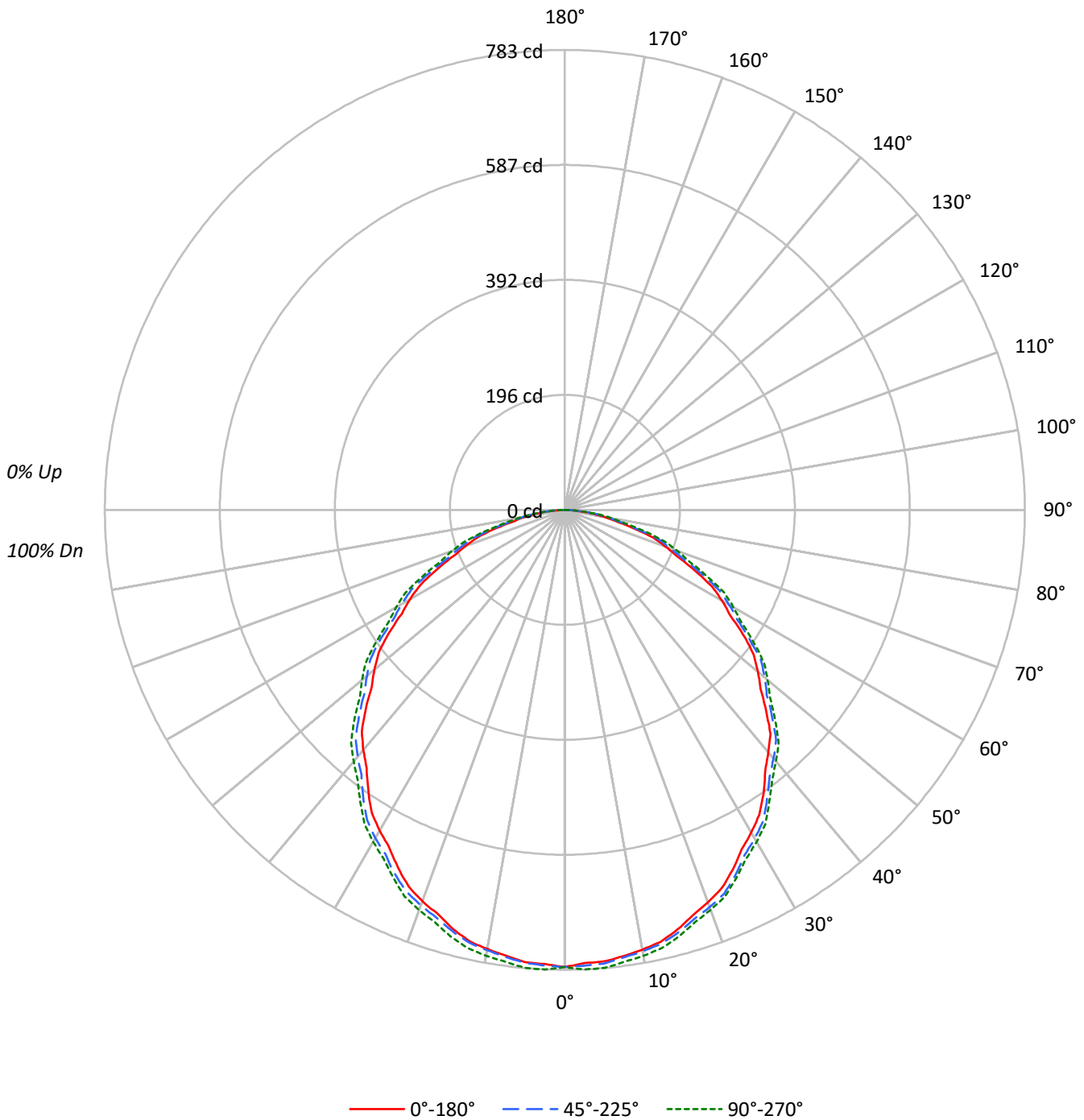
Lumens per Lamp: N/A  
Luminaire Lumens: 2115.3 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.2  
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



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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	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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	90°	180°
0°	25133	25133	25133
5°	25021	25368	25057
10°	24927	25278	24894
15°	24739	25130	24669
20°	24440	24918	24368
25°	24090	24620	23940
30°	23663	24338	23502
35°	23255	23925	23002
40°	22713	23564	22485
45°	22126	23144	21879
50°	21557	22627	21235
55°	20859	22058	20560
60°	19943	21384	19666
65°	18629	20340	18384
70°	17193	19204	16985
75°	15147	17405	15009
80°	12273	14654	12478
85°	7114	9856	8299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	3.5
10°-20°	209.4	9.9
20°-30°	313.8	14.8
30°-40°	372.9	17.6
40°-50°	381.7	18.0
50°-60°	340.4	16.1
60°-70°	252.5	11.9
70°-80°	138.3	6.5
80°-90°	32.7	1.5
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°	596.7	28.2
0°-40°	969.7	45.8
0°-60°	1691.7	80.0
0°-90°	2115.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	772	775	783	774	773	73
15°	740	745	752	742	738	209
25°	676	687	691	685	672	311
35°	590	600	607	598	584	368
45°	484	499	507	495	479	374
55°	370	383	392	382	365	330
65°	244	256	266	254	241	242
75°	121	130	140	130	120	129
85°	19	26	27	28	22	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3
2.5°	772.4	775.7	776.6	775.9	783.4	776.8	776.6	775.7	774.1
5°	771.9	773.0	775.1	773.2	782.6	773.2	774.1	772.0	773.0
7.5°	766.2	767.2	768.5	767.4	776.0	767.4	768.1	766.0	766.0
10°	760.2	761.3	763.4	761.5	770.9	761.5	761.3	759.2	759.2
12.5°	753.4	754.5	756.6	754.7	764.1	754.7	754.5	751.5	752.3
15°	740.0	743.1	745.3	742.3	751.7	742.3	742.1	739.9	737.9
17.5°	724.0	727.1	730.8	727.6	736.2	726.6	727.6	722.9	721.0
20°	711.2	714.4	719.8	715.7	725.1	714.7	716.6	710.2	709.1
22.5°	697.6	699.9	707.8	703.8	712.3	702.7	703.8	695.7	694.6
25°	676.1	678.2	686.8	683.7	691.0	681.6	684.6	672.9	671.9
27.5°	651.6	654.7	662.5	660.5	668.9	658.5	661.4	649.2	647.4
30°	634.6	637.7	646.3	644.4	652.7	642.3	645.2	631.4	630.3
32.5°	615.8	620.6	628.4	628.1	634.8	625.2	626.5	613.5	611.6
35°	589.9	593.0	600.5	600.7	606.9	598.6	598.4	585.6	583.5
37.5°	560.1	564.2	572.2	573.4	579.4	570.3	568.8	557.2	553.9
40°	538.8	542.9	552.6	553.8	559.0	550.7	548.3	537.6	533.4
42.5°	518.3	522.5	532.2	533.3	538.5	531.0	527.0	517.1	511.3
45°	484.5	489.7	499.4	502.7	506.8	499.5	495.1	483.3	479.1
47.5°	452.1	456.3	466.1	471.5	473.4	468.4	462.7	450.1	445.7
50°	429.1	433.3	444.0	449.3	450.4	446.2	439.7	427.9	422.7
52.5°	405.2	409.4	421.0	426.3	427.4	423.2	416.7	404.9	399.7
55°	370.5	374.7	383.3	391.8	391.8	389.7	382.2	369.4	365.2
57.5°	333.5	337.4	348.2	355.6	355.8	352.9	345.2	333.4	329.2
60°	308.8	311.9	322.6	330.1	331.1	329.1	320.5	308.7	304.5
62.5°	281.5	285.5	296.2	304.6	306.4	303.5	294.1	283.1	277.3
65°	243.8	245.9	255.5	264.1	266.2	263.1	254.5	243.8	240.6
67.5°	206.8	208.0	217.2	225.8	228.1	224.7	216.1	208.8	203.8
70°	182.1	184.2	191.7	200.2	203.4	199.2	190.6	184.1	179.9
72.5°	157.4	159.5	167.0	174.7	177.8	174.5	166.7	160.3	156.1
75°	121.4	122.4	129.9	137.4	139.5	136.4	129.9	124.5	120.3
77.5°	87.3	88.3	96.3	100.8	102.6	100.8	95.6	90.4	87.5
80°	66.0	67.1	72.4	77.7	78.8	77.7	73.5	69.2	67.1
82.5°	45.6	46.6	52.8	56.4	56.6	57.3	53.9	50.4	47.5
85°	19.2	20.2	25.6	28.7	26.6	29.7	27.7	24.4	22.4
87.5°	2.6	2.6	5.1	7.7	7.7	8.5	6.8	5.9	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)