

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: P522413

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522413  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

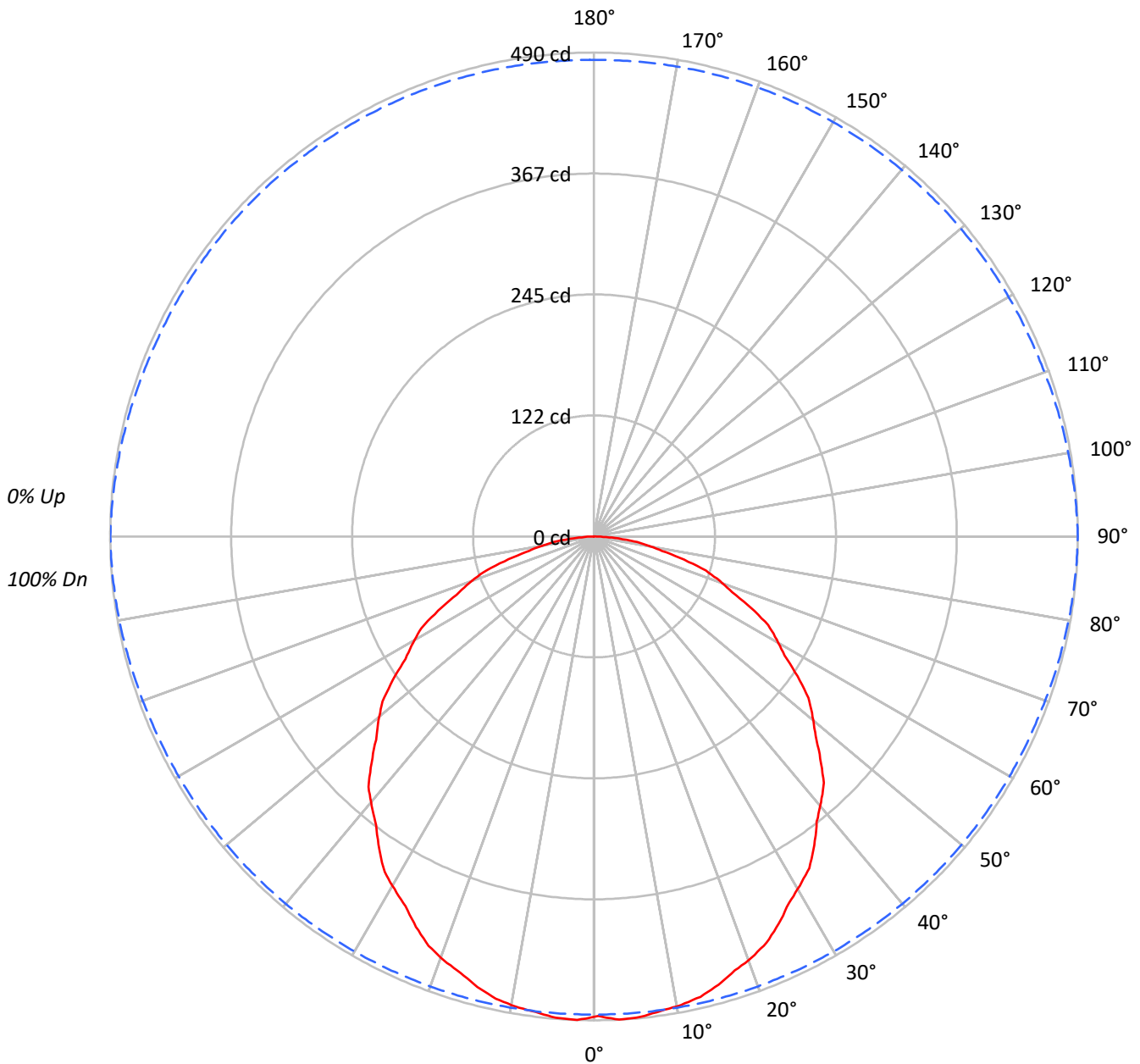
Lumens per Lamp: N/A  
Luminaire Lumens: 1353.9 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
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



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



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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	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	90°	180°
0°	7837	7837	7837
5°	7851	7919	7799
10°	7838	7907	7753
15°	7816	7870	7694
20°	7765	7820	7622
25°	7641	7735	7473
30°	7567	7646	7353
35°	7486	7567	7238
40°	7364	7453	7078
45°	7238	7334	6903
50°	7096	7201	6674
55°	6863	7037	6480
60°	6655	6859	6216
65°	6315	6674	5914
70°	5976	6373	5533
75°	5546	5876	4959
80°	4965	5151	4379
85°	3687	3872	2908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	3.4
10°-20°	131.3	9.7
20°-30°	197.4	14.6
30°-40°	236.1	17.4
40°-50°	242.7	17.9
50°-60°	216.8	16.0
60°-70°	164.7	12.2
70°-80°	94.1	6.9
80°-90°	24.9	1.8
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°	374.7	27.7
0°-40°	610.8	45.1
0°-60°	1070.2	79.0
0°-90°	1353.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	484	484	489	483	481	46
15°	468	469	471	464	460	132
25°	429	434	434	427	420	198
35°	380	385	384	376	367	237
45°	317	321	321	312	302	244
55°	244	248	250	238	230	218
65°	165	170	175	162	155	164
75°	89	92	94	85	80	94
85°	20	23	21	19	16	25
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°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	484.6	485.4	485.5	489.6	484.7	484.6	483.7	482.1
5°	484.4	484.4	484.4	483.4	488.6	482.4	483.3	481.2	481.2
7.5°	481.4	480.6	480.8	479.7	484.8	478.5	478.5	477.3	477.1
10°	478.1	478.1	479.1	477.2	482.3	475.1	476.0	473.9	472.9
12.5°	474.8	473.9	475.0	473.0	478.1	470.9	471.0	468.1	467.8
15°	467.6	467.6	468.7	466.7	470.8	464.6	464.5	461.3	460.3
17.5°	458.6	458.4	460.7	457.7	461.8	454.6	454.7	451.9	450.3
20°	451.9	450.9	454.0	451.0	455.1	447.9	448.8	443.6	443.6
22.5°	443.6	442.6	446.5	442.6	446.7	439.6	440.4	434.4	433.5
25°	428.9	430.0	434.2	431.1	434.2	427.0	426.8	420.5	419.5
27.5°	416.8	416.0	421.4	417.1	420.1	413.0	413.0	405.5	404.5
30°	405.9	405.9	412.2	407.0	410.1	402.9	403.8	395.4	394.4
32.5°	395.9	395.9	401.3	397.8	400.1	392.9	392.1	384.5	383.5
35°	379.8	379.8	385.0	381.9	383.9	376.8	375.6	367.2	367.2
37.5°	362.0	361.2	366.2	364.1	366.2	359.2	356.7	349.4	348.4
40°	349.4	349.4	353.6	351.6	353.6	347.5	344.2	336.8	335.8
42.5°	336.0	336.0	341.1	339.0	341.1	334.1	330.8	323.5	322.4
45°	317.0	317.0	321.2	320.2	321.2	315.0	311.8	303.4	302.3
47.5°	296.7	295.9	299.8	300.1	301.7	295.0	290.6	282.7	281.6
50°	282.5	282.5	285.6	286.7	286.7	281.5	277.2	266.8	265.7
52.5°	265.7	266.5	269.7	270.8	271.6	264.8	260.5	252.5	251.5
55°	243.8	242.7	247.9	249.0	250.0	243.9	237.5	231.2	230.2
57.5°	221.2	221.0	225.3	226.6	227.4	222.3	215.9	208.8	207.6
60°	206.1	205.1	210.3	212.4	212.4	207.3	200.9	194.5	192.5
62.5°	188.5	190.8	194.4	196.5	198.1	192.2	185.0	179.5	177.4
65°	165.3	166.3	170.5	172.7	174.7	168.6	162.2	156.9	154.8
67.5°	141.7	143.5	146.7	148.8	150.9	144.9	138.5	134.1	132.2
70°	126.6	127.6	130.8	132.9	135.0	129.8	123.4	118.2	117.2
72.5°	111.5	112.5	115.7	117.0	118.2	113.1	107.5	103.9	102.1
75°	88.9	89.9	92.1	93.1	94.2	89.0	84.7	81.6	79.5
77.5°	67.6	67.6	69.7	70.5	70.5	67.4	63.4	60.4	58.8
80°	53.4	53.4	55.4	55.4	55.4	52.4	49.2	47.1	47.1
82.5°	39.1	39.9	42.1	42.0	41.2	39.0	36.6	34.5	34.5
85°	19.9	20.9	23.0	23.0	20.9	20.9	18.8	17.7	15.7
87.5°	5.0	5.8	7.5	8.3	6.7	6.7	5.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)