

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: P522408

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522408  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-45)  
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 (2700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

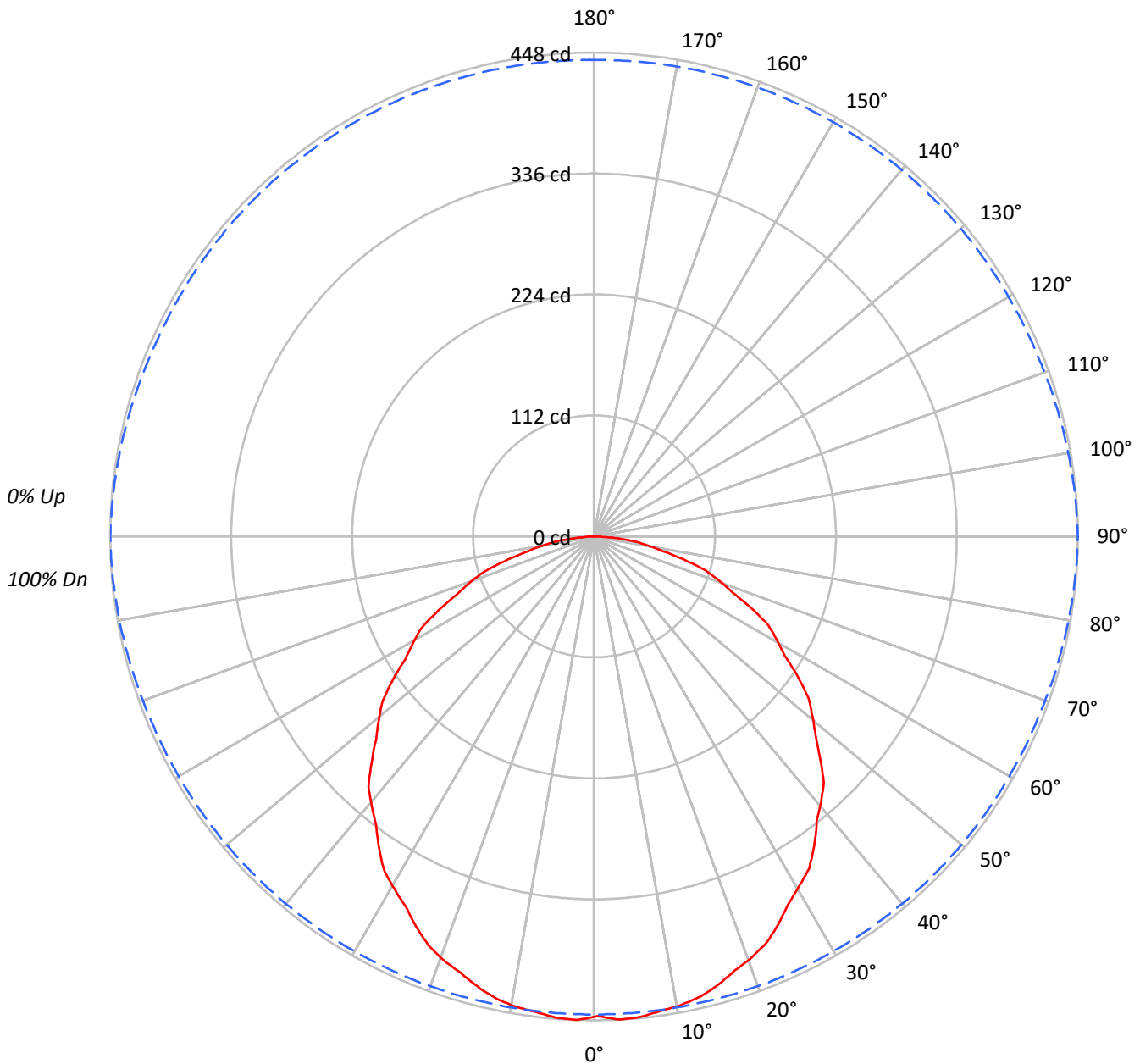
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.2 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

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	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°	7167	7167	7167
5°	7180	7242	7133
10°	7168	7232	7089
15°	7149	7196	7037
20°	7101	7151	6971
25°	6989	7073	6836
30°	6921	6991	6725
35°	6845	6920	6619
40°	6736	6816	6473
45°	6619	6706	6314
50°	6488	6584	6104
55°	6275	6438	5925
60°	6087	6271	5683
65°	5776	6105	5410
70°	5467	5825	5061
75°	5072	5371	4535
80°	4537	4714	4007
85°	3372	3538	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	3.4
10°-20°	120.1	9.7
20°-30°	180.5	14.6
30°-40°	215.9	17.4
40°-50°	221.9	17.9
50°-60°	198.3	16.0
60°-70°	150.6	12.2
70°-80°	86.1	6.9
80°-90°	22.8	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°	342.6	27.7
0°-40°	558.5	45.1
0°-60°	978.7	79.0
0°-90°	1238.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	443	443	447	442	440	42
15°	428	429	430	425	421	121
25°	392	397	397	390	384	181
35°	347	352	351	344	336	217
45°	290	294	294	285	276	223
55°	223	227	229	217	210	199
65°	151	156	160	148	142	150
75°	81	84	86	78	73	86
85°	18	21	19	17	14	23
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°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	442.4	443.1	443.9	444.0	447.8	443.3	443.2	442.4	440.9
5°	443.0	443.0	443.0	442.1	446.8	441.2	442.0	440.1	440.1
7.5°	440.3	439.5	439.7	438.7	443.4	437.6	437.6	436.5	436.3
10°	437.2	437.2	438.2	436.4	441.1	434.5	435.3	433.4	432.4
12.5°	434.2	433.4	434.4	432.6	437.2	430.7	430.7	428.0	427.9
15°	427.7	427.7	428.6	426.8	430.5	424.9	424.8	421.9	421.0
17.5°	419.4	419.2	421.3	418.6	422.3	415.8	415.8	413.3	411.8
20°	413.3	412.4	415.2	412.4	416.2	409.6	410.4	405.7	405.7
22.5°	405.7	404.7	408.3	404.8	408.5	402.0	402.8	397.2	396.5
25°	392.3	393.2	397.0	394.2	397.0	390.5	390.4	384.6	383.7
27.5°	381.2	380.4	385.4	381.4	384.2	377.7	377.7	370.8	369.9
30°	371.2	371.2	377.0	372.2	375.0	368.5	369.3	361.6	360.7
32.5°	362.0	362.0	367.0	363.8	365.9	359.3	358.6	351.7	350.7
35°	347.3	347.3	352.1	349.3	351.1	344.6	343.5	335.8	335.8
37.5°	331.0	330.3	334.9	333.0	334.9	328.5	326.2	319.5	318.6
40°	319.6	319.6	323.4	321.5	323.4	317.8	314.8	308.0	307.1
42.5°	307.3	307.3	311.9	310.0	311.9	305.5	302.5	295.8	294.9
45°	289.9	289.9	293.7	292.8	293.7	288.1	285.1	277.4	276.5
47.5°	271.3	270.6	274.2	274.4	275.9	269.7	265.8	258.5	257.6
50°	258.3	258.3	261.2	262.1	262.1	257.5	253.5	243.9	243.0
52.5°	243.0	243.8	246.6	247.6	248.4	242.2	238.2	230.9	230.0
55°	222.9	222.0	226.7	227.7	228.7	223.0	217.2	211.4	210.5
57.5°	202.3	202.1	206.1	207.2	208.0	203.3	197.5	190.9	189.8
60°	188.5	187.5	192.3	194.2	194.2	189.5	183.7	177.9	176.0
62.5°	172.4	174.5	177.8	179.7	181.2	175.8	169.2	164.1	162.3
65°	151.2	152.1	155.9	157.9	159.8	154.2	148.3	143.5	141.6
67.5°	129.5	131.2	134.1	136.1	138.0	132.5	126.7	122.6	120.9
70°	115.8	116.7	119.6	121.5	123.4	118.7	112.9	108.1	107.2
72.5°	102.0	102.9	105.8	107.0	108.1	103.4	98.4	95.1	93.4
75°	81.3	82.3	84.2	85.2	86.1	81.4	77.5	74.6	72.7
77.5°	61.8	61.8	63.7	64.5	64.5	61.7	58.0	55.3	53.8
80°	48.8	48.8	50.7	50.7	50.7	47.9	45.0	43.1	43.1
82.5°	35.8	36.5	38.5	38.4	37.7	35.6	33.5	31.6	31.6
85°	18.2	19.1	21.0	21.0	19.1	19.1	17.2	16.2	14.4
87.5°	4.6	5.3	6.9	7.6	6.1	6.1	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)