

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: P522410

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522410
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 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

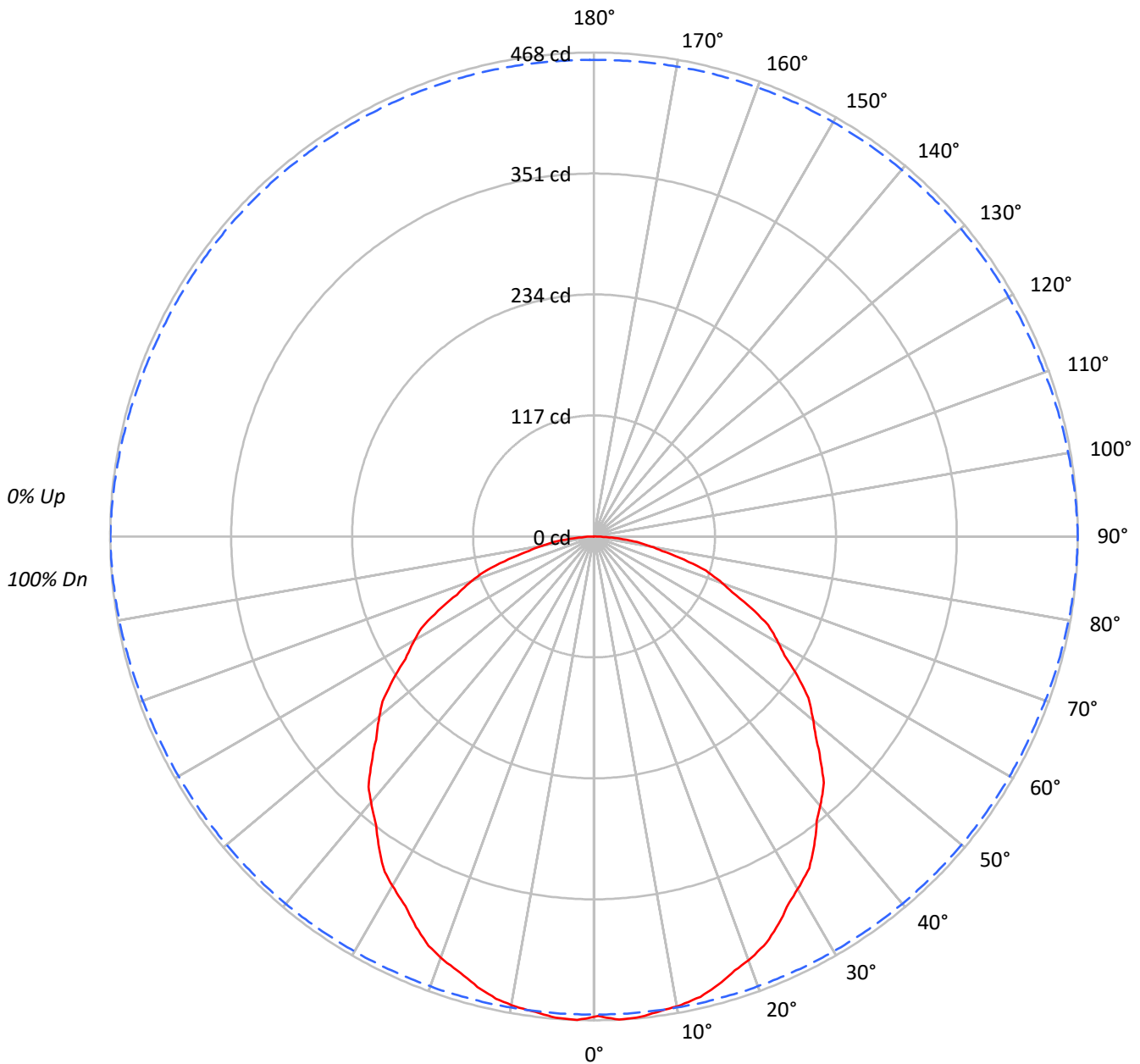
Lumens per Lamp: N/A
Luminaire Lumens: 1294.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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°	7492	7492	7492
5°	7504	7569	7455
10°	7492	7558	7411
15°	7472	7522	7355
20°	7423	7474	7285
25°	7304	7393	7144
30°	7234	7308	7029
35°	7155	7234	6918
40°	7040	7124	6766
45°	6919	7010	6599
50°	6782	6882	6380
55°	6559	6728	6193
60°	6361	6555	5942
65°	6036	6380	5654
70°	5712	6090	5287
75°	5303	5614	4741
80°	4742	4928	4184
85°	3520	3705	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	3.4
10°-20°	125.5	9.7
20°-30°	188.7	14.6
30°-40°	225.7	17.4
40°-50°	232.0	17.9
50°-60°	207.2	16.0
60°-70°	157.4	12.2
70°-80°	89.9	6.9
80°-90°	23.8	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°	358.1	27.7
0°-40°	583.8	45.1
0°-60°	1023.0	79.0
0°-90°	1294.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	464	464	464	464	464	
5°	463	463	467	462	460	44
15°	447	448	450	444	440	126
25°	410	415	415	408	401	189
35°	363	368	367	359	351	227
45°	303	307	307	298	289	234
55°	233	237	239	227	220	208
65°	158	163	167	155	148	156
75°	85	88	90	81	76	90
85°	19	22	20	18	15	24
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°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0
2.5°	462.4	463.2	464.0	464.1	468.0	463.3	463.2	462.4	460.8
5°	463.0	463.0	463.0	462.1	467.0	461.1	462.0	460.0	460.0
7.5°	460.2	459.4	459.6	458.5	463.4	457.3	457.4	456.2	456.0
10°	457.0	457.0	458.0	456.1	461.0	454.2	455.0	453.0	452.0
12.5°	453.8	453.0	454.0	452.1	457.0	450.2	450.2	447.4	447.2
15°	447.0	447.0	448.0	446.1	450.0	444.1	444.0	441.0	440.0
17.5°	438.4	438.2	440.4	437.5	441.4	434.6	434.6	432.0	430.4
20°	432.0	431.0	434.0	431.1	435.0	428.2	429.0	424.0	424.0
22.5°	424.0	423.0	426.8	423.1	427.0	420.2	421.0	415.2	414.4
25°	410.0	411.0	415.0	412.1	415.0	408.2	408.0	402.0	401.0
27.5°	398.4	397.6	402.8	398.7	401.6	394.8	394.8	387.6	386.6
30°	388.0	388.0	394.0	389.1	392.0	385.2	386.0	378.0	377.0
32.5°	378.4	378.4	383.6	380.3	382.4	375.6	374.8	367.6	366.6
35°	363.0	363.0	368.0	365.0	367.0	360.2	359.0	351.0	351.0
37.5°	346.0	345.2	350.0	348.0	350.0	343.4	341.0	334.0	333.0
40°	334.0	334.0	338.0	336.0	338.0	332.1	329.0	322.0	321.0
42.5°	321.2	321.2	326.0	324.0	326.0	319.4	316.2	309.2	308.2
45°	303.0	303.0	307.0	306.0	307.0	301.1	298.0	290.0	289.0
47.5°	283.6	282.8	286.6	286.8	288.4	281.9	277.8	270.2	269.2
50°	270.0	270.0	273.0	274.0	274.0	269.1	265.0	255.0	254.0
52.5°	254.0	254.8	257.8	258.8	259.6	253.1	249.0	241.4	240.4
55°	233.0	232.0	237.0	238.0	239.0	233.1	227.0	221.0	220.0
57.5°	211.4	211.2	215.4	216.6	217.4	212.5	206.4	199.6	198.4
60°	197.0	196.0	201.0	203.0	203.0	198.1	192.0	186.0	184.0
62.5°	180.2	182.4	185.8	187.8	189.4	183.7	176.8	171.6	169.6
65°	158.0	159.0	163.0	165.0	167.0	161.1	155.0	150.0	148.0
67.5°	135.4	137.2	140.2	142.2	144.2	138.5	132.4	128.2	126.4
70°	121.0	122.0	125.0	127.0	129.0	124.1	118.0	113.0	112.0
72.5°	106.6	107.6	110.6	111.8	113.0	108.1	102.8	99.4	97.6
75°	85.0	86.0	88.0	89.0	90.0	85.1	81.0	78.0	76.0
77.5°	64.6	64.6	66.6	67.4	67.4	64.5	60.6	57.8	56.2
80°	51.0	51.0	53.0	53.0	53.0	50.1	47.0	45.0	45.0
82.5°	37.4	38.2	40.2	40.2	39.4	37.2	35.0	33.0	33.0
85°	19.0	20.0	22.0	22.0	20.0	20.0	18.0	17.0	15.0
87.5°	4.8	5.6	7.2	8.0	6.4	6.4	4.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)