

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: P522415

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522415
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 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

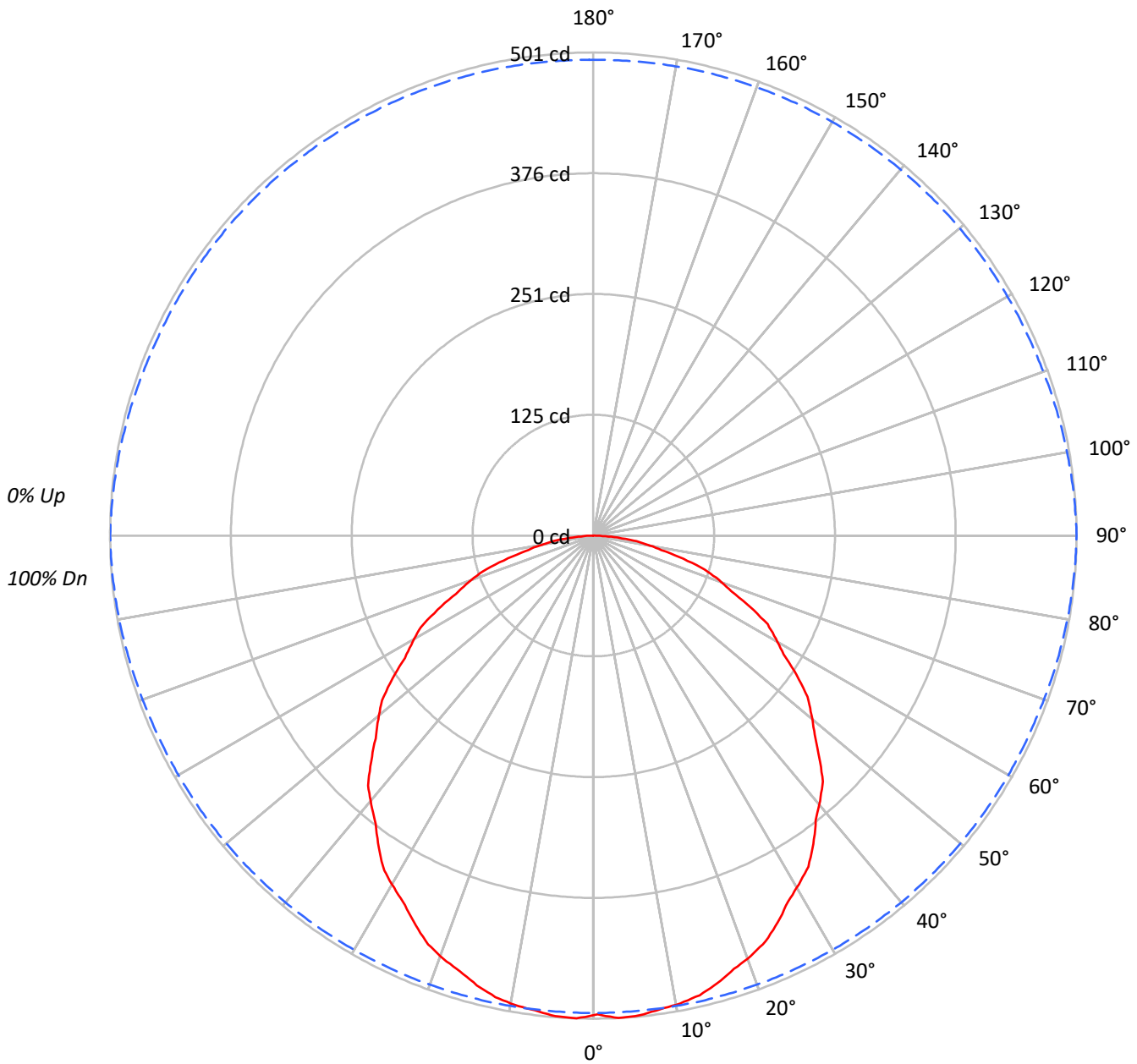
Lumens per Lamp: N/A
Luminaire Lumens: 1386.2 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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°	8024	8024	8024
5°	8037	8107	7985
10°	8025	8096	7938
15°	8003	8057	7878
20°	7950	8005	7804
25°	7824	7919	7652
30°	7748	7828	7528
35°	7663	7748	7411
40°	7541	7630	7246
45°	7412	7508	7069
50°	7264	7372	6835
55°	7026	7206	6632
60°	6814	7020	6365
65°	6464	6835	6055
70°	6118	6524	5665
75°	5677	6014	5078
80°	5077	5281	4482
85°	3779	3964	2983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.4
10°-20°	134.5	9.7
20°-30°	202.1	14.6
30°-40°	241.7	17.4
40°-50°	248.5	17.9
50°-60°	222.0	16.0
60°-70°	168.6	12.2
70°-80°	96.3	6.9
80°-90°	25.5	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°	383.6	27.7
0°-40°	625.3	45.1
0°-60°	1095.8	79.0
0°-90°	1386.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	496	496	500	495	493	47
15°	479	480	482	476	471	135
25°	439	444	444	437	430	203
35°	389	394	393	384	376	243
45°	325	329	329	319	310	250
55°	250	254	256	243	236	223
65°	169	175	179	166	158	168
75°	91	94	96	87	81	97
85°	20	24	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°	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
2.5°	495.3	496.1	497.0	497.1	501.3	496.3	496.1	495.3	493.6
5°	495.9	495.9	495.9	495.0	500.2	493.9	494.9	492.7	492.7
7.5°	492.9	492.1	492.3	491.1	496.4	489.9	489.9	488.6	488.4
10°	489.5	489.5	490.6	488.6	493.8	486.5	487.4	485.2	484.2
12.5°	486.1	485.2	486.3	484.3	489.5	482.2	482.2	479.2	479.0
15°	478.8	478.8	479.9	477.8	482.0	475.7	475.6	472.3	471.3
17.5°	469.6	469.4	471.7	468.6	472.8	465.5	465.5	462.7	461.0
20°	462.7	461.7	464.9	461.8	465.9	458.6	459.5	454.2	454.2
22.5°	454.2	453.1	457.2	453.2	457.4	450.0	450.9	444.7	443.9
25°	439.2	440.2	444.5	441.4	444.5	437.2	437.0	430.6	429.5
27.5°	426.7	425.9	431.5	427.0	430.2	422.8	422.9	415.1	414.1
30°	415.6	415.6	422.0	416.7	419.9	412.6	413.5	404.9	403.8
32.5°	405.3	405.3	410.9	407.3	409.6	402.3	401.5	393.7	392.7
35°	388.8	388.8	394.2	391.0	393.1	385.8	384.5	376.0	376.0
37.5°	370.6	369.8	374.9	372.8	374.9	367.8	365.3	357.7	356.7
40°	357.8	357.8	362.0	359.9	362.0	355.8	352.4	344.9	343.8
42.5°	344.0	344.0	349.2	347.1	349.2	342.1	338.7	331.2	330.1
45°	324.6	324.6	328.8	327.8	328.8	322.6	319.2	310.6	309.6
47.5°	303.8	302.9	307.0	307.2	308.9	302.0	297.6	289.4	288.3
50°	289.2	289.2	292.4	293.5	293.5	288.3	283.9	273.1	272.1
52.5°	272.1	272.9	276.1	277.2	278.1	271.2	266.7	258.5	257.5
55°	249.6	248.5	253.9	255.0	256.0	249.7	243.1	236.7	235.6
57.5°	226.4	226.2	230.7	232.0	232.9	227.6	221.1	213.8	212.5
60°	211.0	210.0	215.3	217.4	217.4	212.2	205.7	199.2	197.1
62.5°	193.0	195.3	199.0	201.2	202.9	196.8	189.4	183.8	181.7
65°	169.2	170.3	174.6	176.8	178.9	172.6	166.0	160.6	158.5
67.5°	145.0	146.9	150.2	152.4	154.5	148.4	141.8	137.3	135.4
70°	129.6	130.7	133.9	136.1	138.2	132.9	126.4	121.0	120.0
72.5°	114.2	115.2	118.5	119.8	121.0	115.8	110.1	106.4	104.5
75°	91.0	92.1	94.3	95.4	96.4	91.2	86.8	83.5	81.4
77.5°	69.2	69.2	71.3	72.2	72.2	69.1	64.9	61.9	60.2
80°	54.6	54.6	56.8	56.8	56.8	53.6	50.3	48.2	48.2
82.5°	40.1	40.9	43.1	43.0	42.2	39.9	37.5	35.3	35.3
85°	20.4	21.4	23.6	23.5	21.4	21.4	19.3	18.2	16.1
87.5°	5.1	6.0	7.7	8.5	6.9	6.9	5.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)