

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: P522411

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522411
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 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

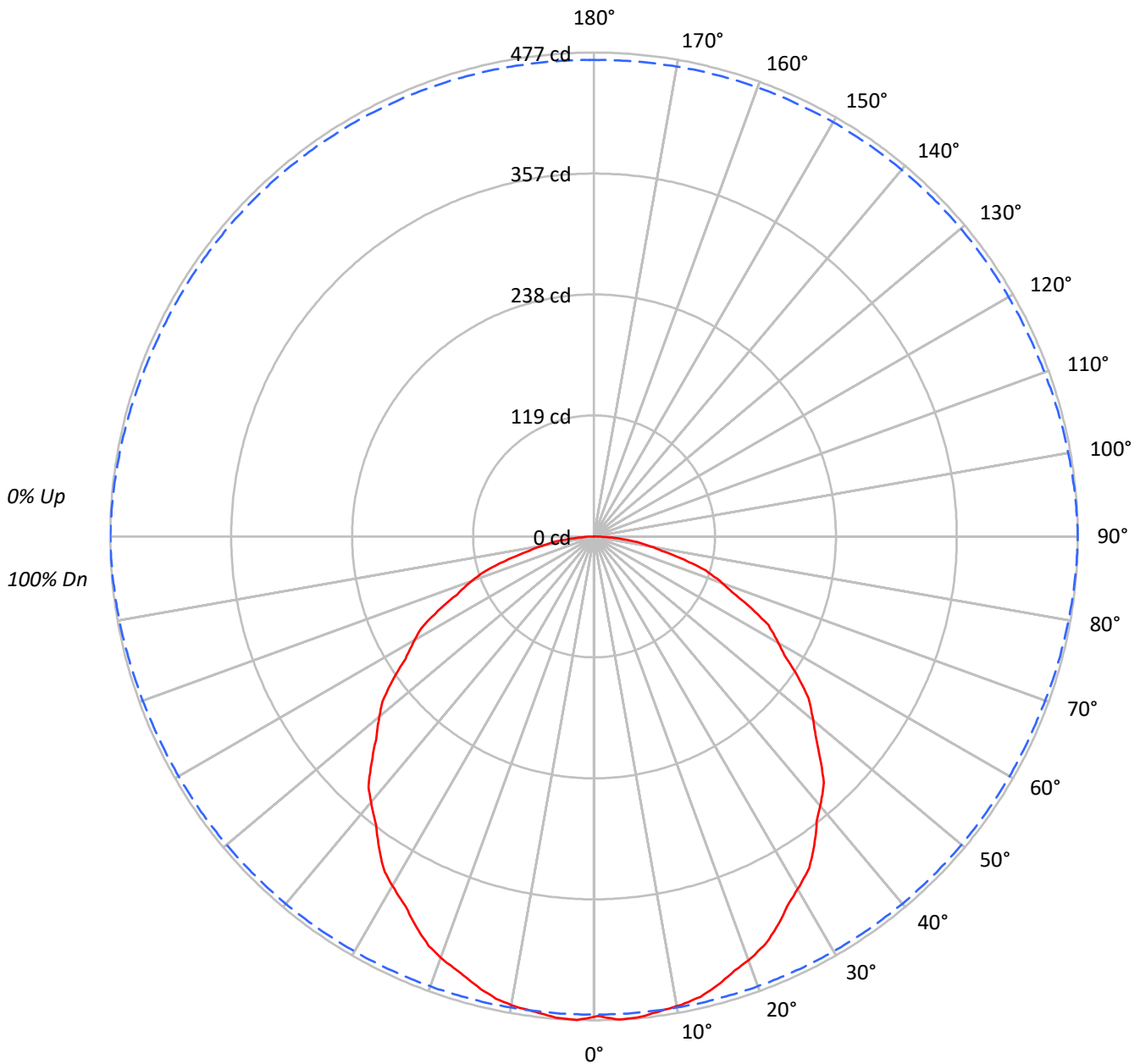
Lumens per Lamp: N/A
Luminaire Lumens: 1317.8 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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°	7629	7629	7629
5°	7642	7707	7592
10°	7630	7696	7547
15°	7609	7659	7490
20°	7558	7612	7419
25°	7438	7529	7274
30°	7366	7443	7157
35°	7285	7366	7045
40°	7168	7255	6890
45°	7044	7138	6720
50°	6905	7008	6496
55°	6680	6852	6305
60°	6478	6675	6051
65°	6147	6499	5757
70°	5816	6203	5382
75°	5402	5714	4828
80°	4826	5021	4258
85°	3575	3779	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	3.4
10°-20°	127.8	9.7
20°-30°	192.2	14.6
30°-40°	229.8	17.4
40°-50°	236.2	17.9
50°-60°	211.0	16.0
60°-70°	160.3	12.2
70°-80°	91.6	6.9
80°-90°	24.2	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°	364.7	27.7
0°-40°	594.5	45.1
0°-60°	1041.7	79.0
0°-90°	1317.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	476	470	468	45
15°	455	456	458	452	448	128
25°	418	423	423	416	408	193
35°	370	375	374	366	357	231
45°	308	313	313	304	294	238
55°	237	241	243	231	224	212
65°	161	166	170	158	151	159
75°	87	90	92	82	77	92
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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	470.9	471.7	472.5	472.6	476.6	471.8	471.7	470.8	469.2
5°	471.5	471.5	471.5	470.6	475.5	469.6	470.5	468.4	468.4
7.5°	468.6	467.8	468.0	466.9	471.9	465.7	465.8	464.5	464.3
10°	465.4	465.4	466.4	464.5	469.4	462.5	463.3	461.3	460.3
12.5°	462.1	461.3	462.3	460.4	465.4	458.4	458.4	455.6	455.4
15°	455.2	455.2	456.2	454.3	458.2	452.3	452.1	449.0	448.1
17.5°	446.4	446.2	448.5	445.5	449.5	442.5	442.6	439.9	438.3
20°	439.9	438.9	441.9	439.0	443.0	436.0	436.8	431.8	431.8
22.5°	431.8	430.8	434.6	430.8	434.8	427.8	428.7	422.8	422.0
25°	417.5	418.5	422.6	419.6	422.6	415.6	415.5	409.3	408.3
27.5°	405.7	404.9	410.2	406.0	408.9	402.0	402.0	394.7	393.7
30°	395.1	395.1	401.2	396.2	399.2	392.2	393.1	384.9	383.9
32.5°	385.3	385.3	390.6	387.2	389.4	382.4	381.7	374.3	373.3
35°	369.6	369.6	374.7	371.7	373.7	366.7	365.6	357.4	357.4
37.5°	352.3	351.5	356.4	354.4	356.4	349.6	347.2	340.1	339.1
40°	340.1	340.1	344.2	342.2	344.2	338.2	335.0	327.9	326.9
42.5°	327.1	327.1	332.0	330.0	332.0	325.2	322.0	314.8	313.8
45°	308.5	308.5	312.6	311.6	312.6	306.6	303.5	295.3	294.3
47.5°	288.8	288.0	291.8	292.1	293.7	287.1	282.9	275.1	274.1
50°	274.9	274.9	278.0	279.0	279.0	274.0	269.8	259.6	258.6
52.5°	258.6	259.4	262.5	263.6	264.4	257.8	253.6	245.8	244.8
55°	237.3	236.3	241.3	242.4	243.4	237.4	231.2	225.0	224.0
57.5°	215.3	215.1	219.3	220.6	221.4	216.4	210.2	203.2	202.0
60°	200.6	199.6	204.7	206.7	206.7	201.7	195.5	189.4	187.4
62.5°	183.5	185.7	189.2	191.3	192.9	187.1	180.0	174.7	172.7
65°	160.9	161.9	166.0	168.1	170.1	164.1	157.8	152.7	150.7
67.5°	137.9	139.7	142.8	144.8	146.8	141.1	134.8	130.5	128.7
70°	123.2	124.2	127.3	129.4	131.4	126.4	120.2	115.0	114.0
72.5°	108.6	109.5	112.6	113.9	115.1	110.1	104.7	101.2	99.4
75°	86.6	87.6	89.6	90.7	91.6	86.7	82.5	79.4	77.4
77.5°	65.8	65.8	67.8	68.6	68.6	65.6	61.7	58.8	57.2
80°	51.9	51.9	54.0	54.0	54.0	51.0	47.9	45.8	45.8
82.5°	38.1	38.9	40.9	40.9	40.1	37.9	35.6	33.6	33.6
85°	19.3	20.3	22.4	22.4	20.4	20.4	18.3	17.3	15.3
87.5°	4.9	5.7	7.3	8.1	6.5	6.5	4.9	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)