

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: P522565

Luminaire Tested: **SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522565
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

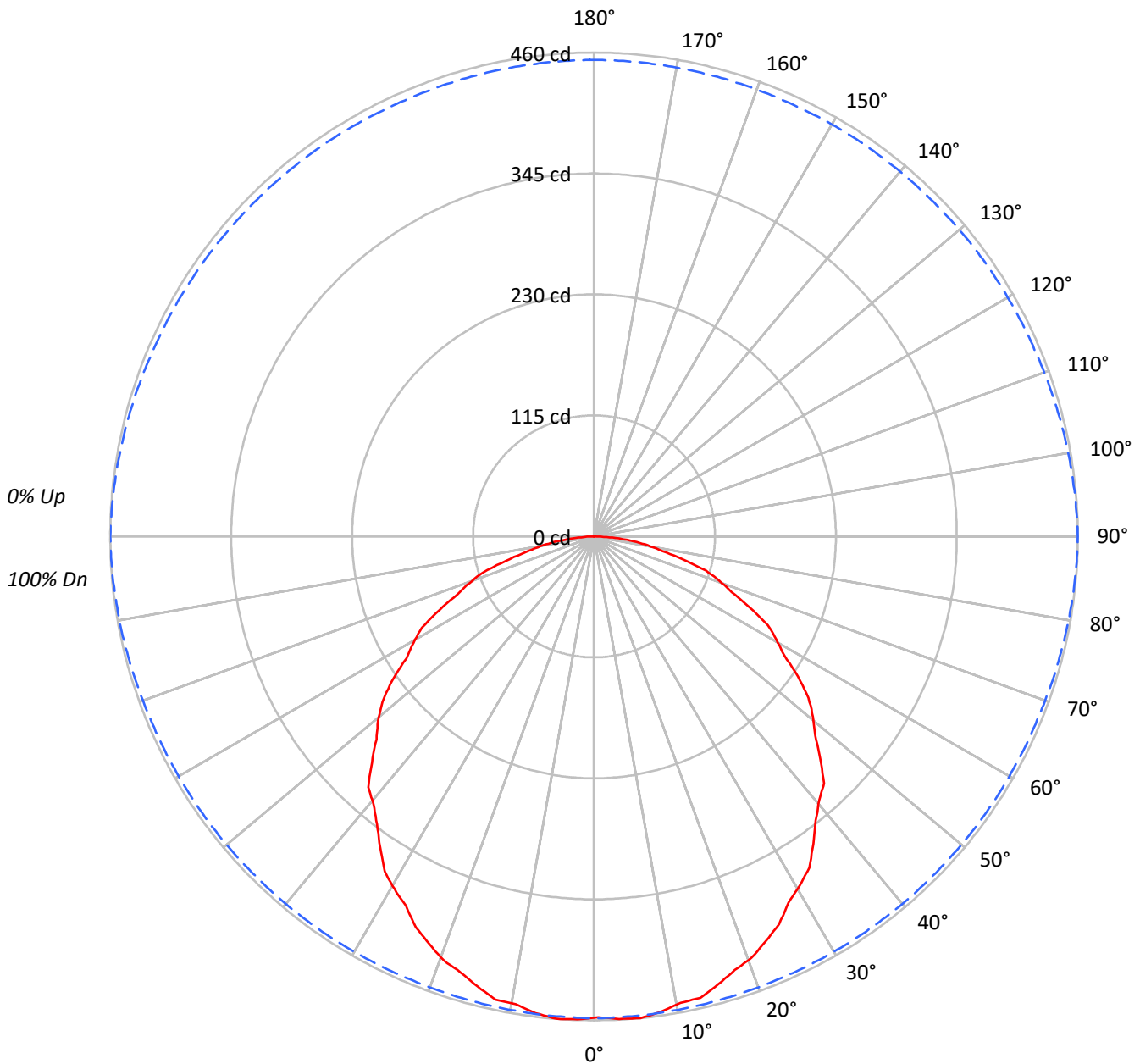
Lumens per Lamp: N/A
Luminaire Lumens: 1270.2 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): 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 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	46	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	38	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7375	7375	7375
5°	7420	7452	7339
10°	7373	7389	7258
15°	7331	7383	7213
20°	7328	7345	7137
25°	7183	7274	7058
30°	7103	7180	6915
35°	7033	7072	6753
40°	6945	6945	6624
45°	6738	6878	6462
50°	6651	6777	6295
55°	6457	6629	6032
60°	6232	6429	5809
65°	6025	6216	5521
70°	5679	5962	5202
75°	5234	5421	4666
80°	4603	4788	3942
85°	3372	3742	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	3.4
10°-20°	123.4	9.7
20°-30°	185.4	14.6
30°-40°	221.3	17.4
40°-50°	227.3	17.9
50°-60°	203.9	16.1
60°-70°	154.4	12.2
70°-80°	88.2	6.9
80°-90°	23.1	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°	352.0	27.7
0°-40°	573.2	45.1
0°-60°	1004.5	79.1
0°-90°	1270.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	458	456	460	453	453	43
15°	439	442	442	438	432	124
25°	403	407	408	403	396	186
35°	357	359	359	351	343	223
45°	295	301	301	290	283	229
55°	229	234	236	223	214	205
65°	158	161	163	152	144	155
75°	84	87	87	80	75	89
85°	18	21	20	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°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	456.0	456.8	458.4	456.1	459.2	456.1	456.8	455.1	452.8
5°	457.8	455.8	455.8	455.9	459.8	454.9	452.8	451.8	452.8
7.5°	452.2	452.6	452.4	452.1	456.4	448.7	451.8	448.7	449.1
10°	449.7	447.8	450.7	448.8	450.7	447.8	447.7	444.6	442.7
12.5°	447.3	446.1	447.5	444.0	449.9	442.2	441.2	440.6	441.0
15°	438.6	441.6	441.7	438.7	441.7	434.7	437.6	433.5	431.5
17.5°	433.8	430.8	432.2	429.8	433.2	427.4	427.1	422.9	423.5
20°	426.5	423.5	426.5	422.6	427.5	418.6	421.4	416.4	415.4
22.5°	416.8	416.2	420.0	416.8	417.8	412.9	412.5	406.7	405.7
25°	403.2	404.2	407.3	402.4	408.3	400.4	403.2	394.2	396.2
27.5°	391.5	391.7	395.2	392.8	393.9	387.8	388.1	380.4	379.0
30°	381.0	382.0	387.1	383.1	385.1	378.1	380.0	369.9	370.9
32.5°	373.7	371.6	375.8	371.8	375.4	368.4	368.7	361.0	359.6
35°	356.8	356.8	358.8	358.8	358.8	351.9	350.7	343.6	342.6
37.5°	339.2	338.4	345.2	340.0	342.4	336.7	334.5	327.6	326.4
40°	329.5	325.5	331.5	329.5	329.5	324.5	322.4	316.3	314.3
42.5°	315.7	314.9	319.4	318.2	320.6	312.5	310.3	303.4	302.2
45°	295.1	296.1	301.2	299.2	301.2	296.2	290.1	285.0	283.0
47.5°	277.7	276.1	281.0	280.8	282.8	275.3	272.5	264.8	264.4
50°	264.8	264.8	268.8	267.9	269.8	263.9	258.7	252.6	250.6
52.5°	251.9	250.3	255.1	254.9	255.3	250.1	245.0	239.7	238.5
55°	229.4	230.4	234.5	234.5	235.5	230.5	223.4	217.2	214.3
57.5°	208.4	207.8	211.6	212.8	212.8	207.9	201.5	196.4	195.3
60°	193.0	194.0	197.1	199.1	199.1	194.2	187.0	181.9	179.9
62.5°	178.5	178.7	182.5	183.8	185.4	179.6	173.2	168.1	166.1
65°	157.7	156.7	160.7	162.7	162.7	157.8	151.6	146.5	144.5
67.5°	134.0	135.4	138.7	139.9	140.9	135.0	129.0	125.7	124.7
70°	120.3	119.3	123.3	125.3	126.3	120.4	115.2	111.1	110.2
72.5°	105.7	105.5	108.7	110.8	111.0	105.0	100.7	97.4	94.8
75°	83.9	84.9	86.9	86.9	86.9	83.0	79.8	76.8	74.8
77.5°	62.5	63.4	65.3	67.1	66.1	62.5	59.4	56.4	54.6
80°	49.5	50.5	51.5	52.5	51.5	49.6	46.5	43.4	42.4
82.5°	36.6	36.8	39.4	39.6	38.6	36.6	34.4	31.3	31.1
85°	18.2	19.2	21.2	21.2	20.2	19.2	17.2	15.1	14.1
87.5°	4.0	4.8	6.5	8.0	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)