

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: P511812

Luminaire Tested: **SQW-F-0U-025D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511812
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-025D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

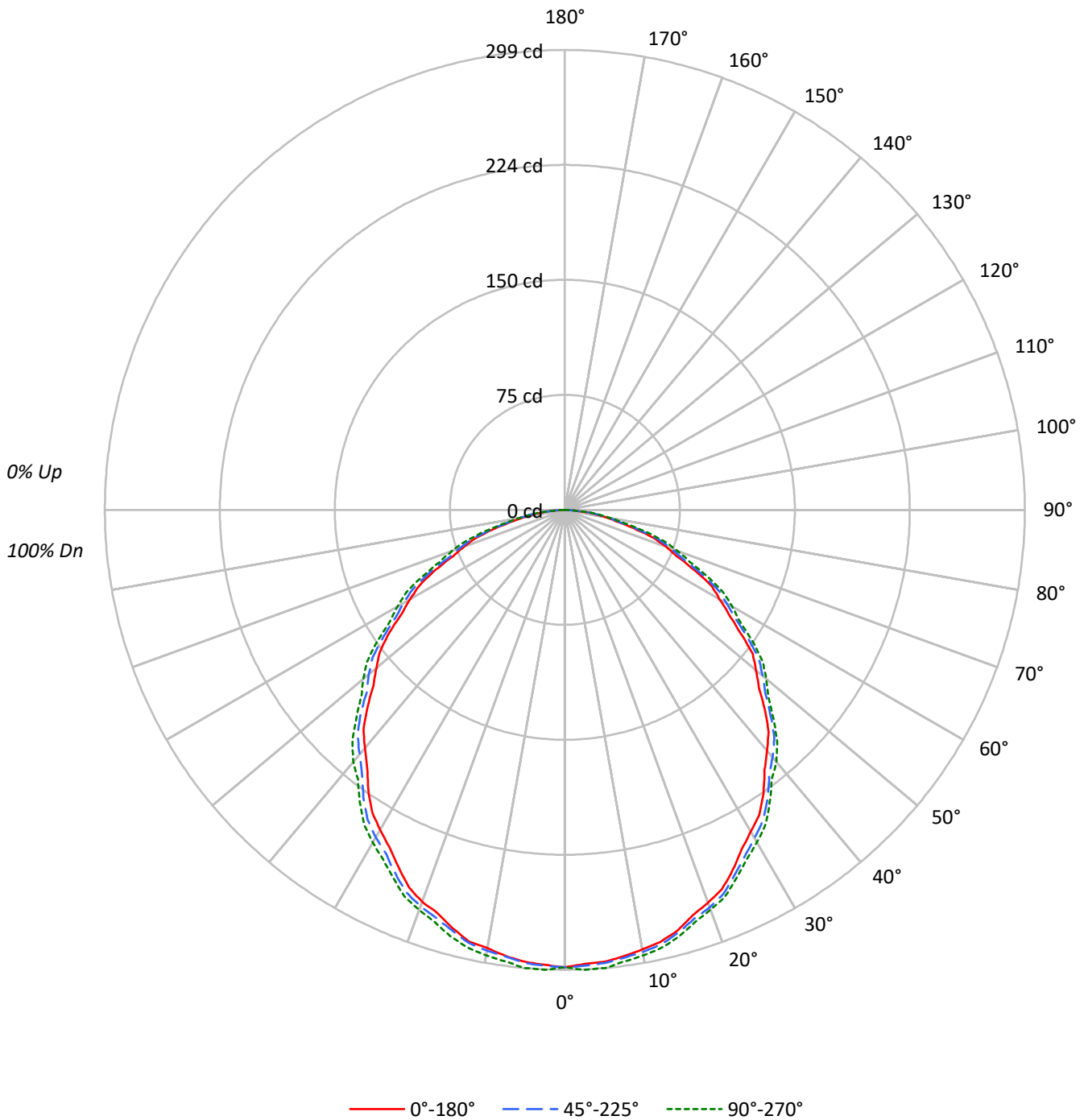
Lumens per Lamp: N/A
Luminaire Lumens: 805.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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





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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9604	9604	9604
5°	9562	9692	9562
10°	9516	9647	9489
15°	9464	9595	9411
20°	9344	9509	9316
25°	9207	9406	9121
30°	9012	9311	8953
35°	8870	9154	8775
40°	8612	9017	8515
45°	8389	8750	8280
50°	8148	8586	8028
55°	7831	8372	7831
60°	7498	8112	7498
65°	7106	7778	7106
70°	6609	7355	6534
75°	5752	6650	5852
80°	4723	5467	4872
85°	2668	3816	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	3.5
10°-20°	80.0	9.9
20°-30°	119.8	14.9
30°-40°	142.2	17.7
40°-50°	144.5	18.0
50°-60°	128.8	16.0
60°-70°	96.1	11.9
70°-80°	52.9	6.6
80°-90°	12.5	1.6
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°	227.9	28.3
0°-40°	370.2	46.0
0°-60°	643.5	79.9
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	297	297	297	297	297	
5°	295	296	299	296	295	28
15°	283	285	287	283	282	80
25°	258	262	264	261	256	119
35°	225	230	232	228	223	140
45°	184	189	192	188	181	142
55°	139	146	149	144	139	125
65°	93	97	102	97	93	92
75°	46	49	53	49	47	50
85°	7	10	10	10	9	10
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°	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4
2.5°	295.5	296.7	296.7	296.8	299.3	296.8	296.7	296.7	296.1
5°	295.0	295.0	295.8	295.8	299.0	295.8	295.8	295.0	295.0
7.5°	292.8	292.9	293.7	293.6	296.1	292.8	292.9	292.8	292.6
10°	290.2	291.0	291.8	291.1	294.2	290.3	291.0	290.2	289.4
12.5°	287.7	288.4	289.3	288.5	291.6	288.4	288.5	287.7	287.5
15°	283.1	283.8	284.6	283.9	287.0	283.1	283.1	282.2	281.5
17.5°	276.4	277.8	278.9	278.2	281.1	277.4	278.1	276.2	274.9
20°	271.9	272.7	275.1	274.4	276.7	273.6	274.3	271.1	271.1
22.5°	266.8	267.6	270.0	269.3	272.2	268.5	269.2	266.0	265.4
25°	258.4	259.2	261.6	260.9	264.0	260.1	260.8	256.8	256.0
27.5°	248.7	249.6	253.5	252.8	256.0	251.4	252.0	248.0	247.1
30°	241.7	243.3	246.5	245.8	249.7	245.0	245.7	241.7	240.1
32.5°	235.3	236.9	239.5	240.0	242.7	238.6	238.7	234.7	233.1
35°	225.0	226.6	229.8	229.8	232.2	228.3	228.2	224.2	222.6
37.5°	213.2	214.6	218.2	219.2	220.9	217.3	216.4	212.4	210.9
40°	204.3	205.1	209.9	211.5	213.9	208.4	207.5	203.5	202.0
42.5°	196.1	197.5	201.6	202.6	204.3	200.8	199.3	195.2	193.7
45°	183.7	185.2	189.2	190.8	191.6	188.5	187.6	183.6	181.3
47.5°	171.1	172.7	176.7	178.4	179.2	176.9	174.4	171.1	168.7
50°	162.2	163.8	167.8	170.2	170.9	168.6	166.2	162.1	159.8
52.5°	153.9	154.9	158.9	161.9	162.0	160.3	157.3	153.3	151.5
55°	139.1	141.5	145.5	148.7	148.7	147.1	143.9	139.9	139.1
57.5°	126.3	127.2	131.2	134.4	134.5	133.6	130.4	126.4	125.6
60°	116.1	117.6	121.6	124.8	125.6	124.1	120.9	116.9	116.1
62.5°	107.8	108.1	112.1	115.3	116.1	114.5	111.3	107.9	106.5
65°	93.0	93.8	97.0	101.0	101.8	100.2	97.0	93.8	93.0
67.5°	78.9	79.7	82.7	86.5	87.5	85.9	81.9	79.5	78.7
70°	70.0	70.7	73.1	76.4	77.9	76.4	72.4	70.0	69.2
72.5°	60.4	61.2	63.6	66.8	67.7	66.2	62.8	61.0	60.3
75°	46.1	47.7	49.3	52.5	53.3	52.5	49.3	47.7	46.9
77.5°	33.7	34.5	36.1	38.3	39.0	38.3	36.9	34.5	34.5
80°	25.4	26.2	27.8	29.4	29.4	29.4	28.6	26.2	26.2
82.5°	17.8	18.6	19.6	21.8	21.1	21.8	21.0	19.2	18.6
85°	7.2	7.9	9.5	11.1	10.3	11.1	10.3	8.7	8.7
87.5°	0.6	1.3	1.3	3.2	3.2	3.8	2.5	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)