

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: P511814

Luminaire Tested: **SQW-F-0U-025D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511814
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-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

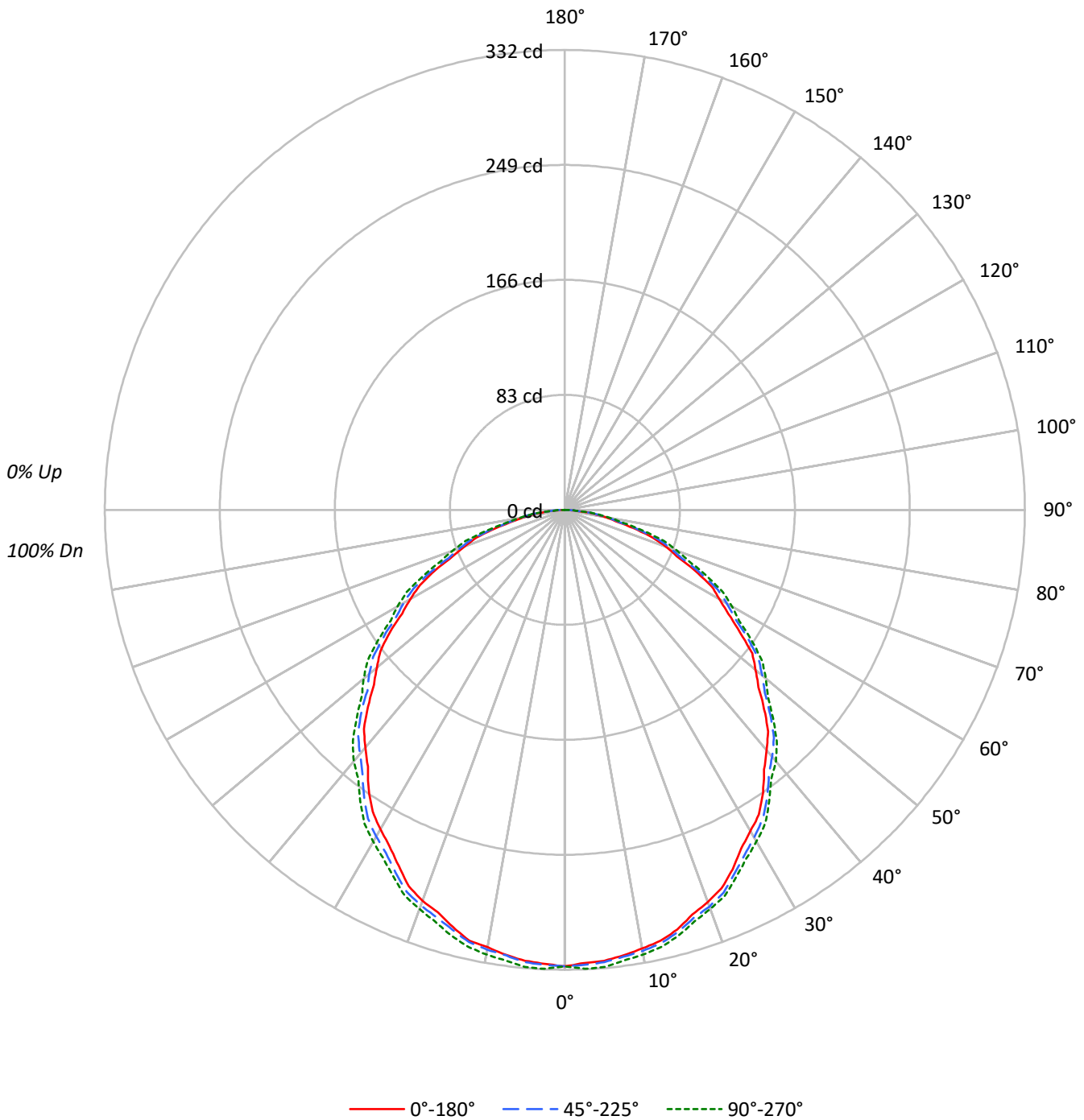
Lumens per Lamp: N/A
Luminaire Lumens: 891.9 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

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°	10640	10640	10640
5°	10593	10736	10593
10°	10542	10686	10516
15°	10484	10631	10427
20°	10354	10536	10323
25°	10201	10422	10108
30°	9986	10314	9918
35°	9828	10139	9725
40°	9544	9991	9434
45°	9293	9695	9175
50°	9028	9515	8897
55°	8681	9272	8681
60°	8305	8990	8305
65°	7878	8619	7878
70°	7317	8148	7232
75°	6376	7361	6488
80°	5244	6062	5411
85°	2927	4261	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	3.5
10°-20°	88.6	9.9
20°-30°	132.8	14.9
30°-40°	157.6	17.7
40°-50°	160.1	18.0
50°-60°	142.7	16.0
60°-70°	106.5	11.9
70°-80°	58.6	6.6
80°-90°	13.9	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°	252.5	28.3
0°-40°	410.1	46.0
0°-60°	712.9	79.9
0°-90°	891.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	327	328	331	328	327	31
15°	314	315	318	314	312	88
25°	286	290	292	289	284	132
35°	249	255	257	253	247	155
45°	204	210	212	208	201	157
55°	154	161	165	159	154	138
65°	103	108	113	108	103	102
75°	51	55	59	55	52	55
85°	8	11	12	12	10	12
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°	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
2.5°	327.4	328.7	328.8	328.8	331.6	328.8	328.8	328.8	328.1
5°	326.8	326.8	327.7	327.8	331.2	327.8	327.7	326.8	326.8
7.5°	324.4	324.5	325.4	325.3	328.1	324.4	324.5	324.4	324.2
10°	321.5	322.4	323.3	322.5	325.9	321.6	322.4	321.5	320.7
12.5°	318.7	319.6	320.5	319.7	323.1	319.5	319.6	318.7	318.5
15°	313.6	314.5	315.4	314.6	318.0	313.7	313.6	312.7	311.9
17.5°	306.2	307.8	309.0	308.2	311.5	307.4	308.2	306.0	304.6
20°	301.3	302.1	304.8	304.0	306.6	303.1	303.9	300.4	300.4
22.5°	295.6	296.5	299.2	298.4	301.6	297.5	298.3	294.7	294.1
25°	286.3	287.2	289.8	289.0	292.5	288.2	288.9	284.5	283.7
27.5°	275.6	276.6	280.8	280.0	283.7	278.5	279.3	274.8	273.8
30°	267.8	269.5	273.1	272.3	276.6	271.4	272.2	267.8	266.0
32.5°	260.8	262.5	265.3	265.9	268.9	264.4	264.5	260.0	258.3
35°	249.3	251.0	254.6	254.7	257.2	252.9	252.8	248.4	246.7
37.5°	236.3	237.8	241.7	242.8	244.7	240.8	239.8	235.3	233.6
40°	226.4	227.3	232.6	234.4	237.0	230.9	229.9	225.5	223.8
42.5°	217.2	218.8	223.4	224.5	226.4	222.4	220.8	216.3	214.6
45°	203.5	205.2	209.7	211.4	212.3	208.9	207.9	203.4	200.9
47.5°	189.6	191.3	195.7	197.7	198.6	196.0	193.3	189.5	186.9
50°	179.7	181.4	185.9	188.5	189.4	186.8	184.1	179.7	177.1
52.5°	170.5	171.6	176.0	179.4	179.5	177.6	174.2	169.8	167.9
55°	154.2	156.7	161.2	164.7	164.7	163.0	159.4	155.0	154.2
57.5°	139.9	140.9	145.4	148.9	149.1	148.0	144.5	140.0	139.2
60°	128.6	130.3	134.8	138.3	139.2	137.5	133.9	129.5	128.6
62.5°	119.5	119.8	124.2	127.8	128.6	126.9	123.3	119.6	118.0
65°	103.1	103.9	107.5	111.9	112.8	111.0	107.5	103.9	103.1
67.5°	87.4	88.3	91.6	95.9	96.9	95.2	90.7	88.1	87.2
70°	77.5	78.4	81.0	84.6	86.3	84.6	80.2	77.5	76.6
72.5°	67.0	67.8	70.5	74.0	75.1	73.3	69.6	67.6	66.8
75°	51.1	52.8	54.6	58.2	59.0	58.2	54.6	52.8	52.0
77.5°	37.4	38.2	40.0	42.5	43.2	42.5	40.9	38.2	38.2
80°	28.2	29.1	30.8	32.6	32.6	32.6	31.7	29.1	29.1
82.5°	19.7	20.6	21.7	24.1	23.4	24.1	23.3	21.3	20.6
85°	7.9	8.8	10.6	12.3	11.5	12.3	11.5	9.7	9.7
87.5°	0.7	1.4	1.4	3.5	3.5	4.2	2.8	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)