

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: P511809

Luminaire Tested: **SQW-F-0U-025D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511809
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-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

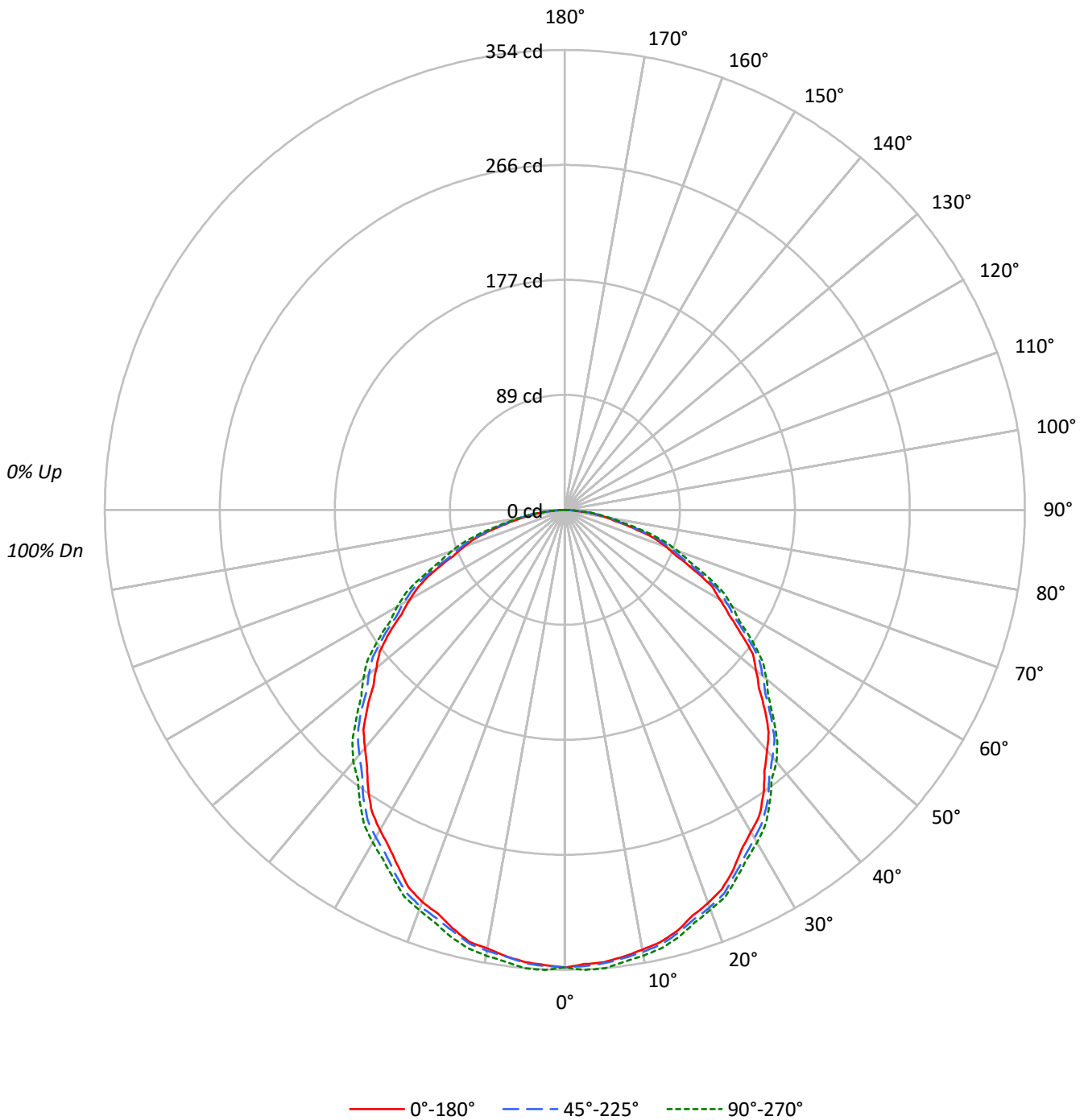
Lumens per Lamp: N/A
Luminaire Lumens: 953.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11373	11373	11373
5°	11326	11478	11326
10°	11270	11424	11240
15°	11209	11367	11146
20°	11069	11261	11034
25°	10906	11142	10803
30°	10675	11026	10605
35°	10506	10841	10395
40°	10201	10678	10083
45°	9933	10367	9805
50°	9651	10173	9510
55°	9278	9914	9278
60°	8880	9610	8880
65°	8420	9207	8420
70°	7827	8715	7733
75°	6812	7873	6937
80°	5597	6471	5783
85°	3149	4520	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	3.5
10°-20°	94.8	9.9
20°-30°	142.0	14.9
30°-40°	168.5	17.7
40°-50°	171.2	18.0
50°-60°	152.5	16.0
60°-70°	113.9	11.9
70°-80°	62.6	6.6
80°-90°	14.8	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°	270.0	28.3
0°-40°	438.4	46.0
0°-60°	762.2	79.9
0°-90°	953.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	349	350	354	350	349	33
15°	335	337	340	335	333	94
25°	306	310	313	309	303	141
35°	266	272	275	270	264	166
45°	218	224	227	222	215	168
55°	165	172	176	170	165	148
65°	110	115	120	115	110	109
75°	55	58	63	58	56	59
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°	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2
2.5°	350.0	351.4	351.5	351.5	354.5	351.5	351.5	351.4	350.7
5°	349.4	349.4	350.3	350.4	354.1	350.4	350.3	349.4	349.4
7.5°	346.8	346.9	347.9	347.8	350.7	346.8	346.9	346.7	346.6
10°	343.7	344.7	345.6	344.8	348.4	343.8	344.7	343.7	342.8
12.5°	340.7	341.6	342.6	341.7	345.4	341.6	341.7	340.7	340.5
15°	335.3	336.2	337.1	336.3	340.0	335.4	335.3	334.3	333.4
17.5°	327.4	329.0	330.4	329.5	333.0	328.6	329.4	327.1	325.7
20°	322.1	323.0	325.8	325.0	327.7	324.0	324.9	321.1	321.1
22.5°	316.0	317.0	319.8	319.0	322.5	318.0	318.9	315.1	314.4
25°	306.1	307.0	309.8	309.0	312.7	308.1	308.9	304.2	303.2
27.5°	294.6	295.7	300.2	299.4	303.2	297.7	298.5	293.8	292.7
30°	286.3	288.1	291.9	291.1	295.7	290.2	291.0	286.2	284.4
32.5°	278.8	280.6	283.7	284.3	287.4	282.6	282.7	278.0	276.1
35°	266.5	268.4	272.2	272.2	275.0	270.4	270.3	265.5	263.7
37.5°	252.6	254.2	258.4	259.6	261.6	257.4	256.3	251.6	249.8
40°	242.0	242.9	248.6	250.6	253.3	246.9	245.8	241.0	239.2
42.5°	232.2	233.9	238.8	240.0	242.0	237.8	236.0	231.3	229.4
45°	217.5	219.4	224.1	226.0	227.0	223.3	222.3	217.5	214.7
47.5°	202.7	204.5	209.3	211.3	212.3	209.5	206.6	202.6	199.8
50°	192.1	194.0	198.7	201.6	202.5	199.7	196.8	192.1	189.3
52.5°	182.3	183.4	188.2	191.7	191.9	189.9	186.3	181.5	179.5
55°	164.8	167.6	172.3	176.1	176.1	174.3	170.5	165.7	164.8
57.5°	149.5	150.7	155.4	159.2	159.3	158.2	154.4	149.7	148.8
60°	137.5	139.3	144.1	147.9	148.8	147.0	143.1	138.4	137.5
62.5°	127.7	128.1	132.8	136.6	137.5	135.7	131.8	127.9	126.2
65°	110.2	111.1	114.9	119.6	120.5	118.7	114.9	111.1	110.2
67.5°	93.4	94.3	97.9	102.5	103.6	101.8	97.0	94.2	93.2
70°	82.9	83.8	86.6	90.4	92.3	90.4	85.7	82.9	81.9
72.5°	71.6	72.5	75.3	79.1	80.2	78.4	74.4	72.3	71.4
75°	54.6	56.5	58.4	62.2	63.1	62.2	58.4	56.5	55.6
77.5°	39.9	40.9	42.8	45.4	46.1	45.4	43.7	40.9	40.9
80°	30.1	31.1	33.0	34.8	34.8	34.8	33.9	31.1	31.1
82.5°	21.1	22.0	23.2	25.8	25.1	25.8	24.9	22.8	22.0
85°	8.5	9.4	11.3	13.2	12.2	13.2	12.2	10.4	10.4
87.5°	0.8	1.5	1.5	3.8	3.8	4.5	3.0	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)