

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: P511816

Luminaire Tested: **SQW-F-0U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511816
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

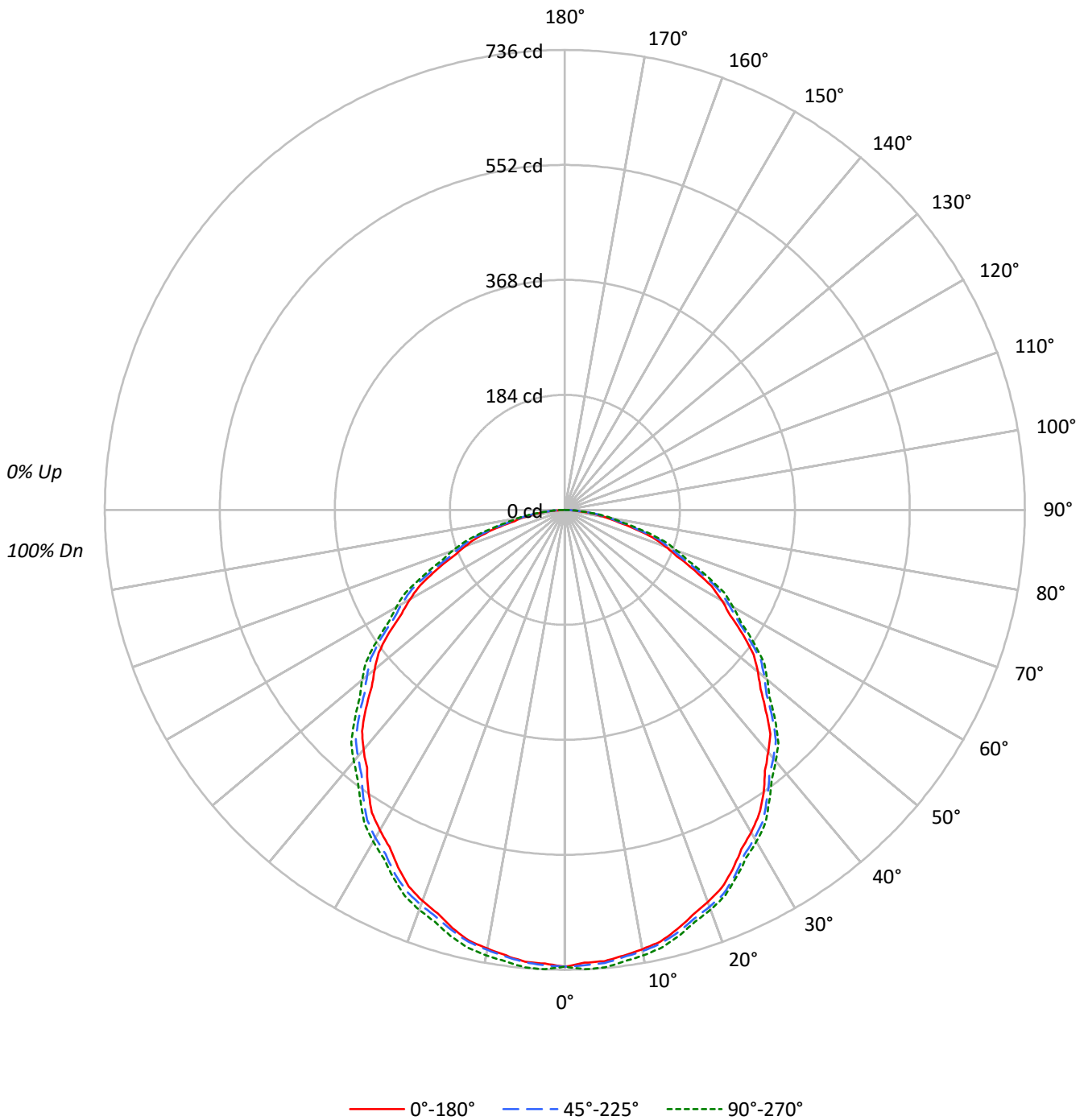
Lumens per Lamp: N/A
Luminaire Lumens: 1986.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 17.2
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





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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	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	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°	23605	23605	23605
5°	23501	23825	23533
10°	23412	23740	23379
15°	23235	23602	23168
20°	22955	23402	22887
25°	22625	23124	22483
30°	22223	22857	22074
35°	21839	22470	21603
40°	21330	22131	21119
45°	20779	21738	20550
50°	20246	21250	19944
55°	19592	20718	19311
60°	18729	20086	18471
65°	17498	19102	17268
70°	16145	18033	15956
75°	14223	16344	14099
80°	11530	13761	11716
85°	6669	9263	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.5
10°-20°	196.7	9.9
20°-30°	294.7	14.8
30°-40°	350.3	17.6
40°-50°	358.5	18.0
50°-60°	319.7	16.1
60°-70°	237.2	11.9
70°-80°	129.9	6.5
80°-90°	30.8	1.5
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°	560.4	28.2
0°-40°	910.7	45.8
0°-60°	1588.9	80.0
0°-90°	1986.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	725	728	735	727	726	69
15°	695	700	706	697	693	196
25°	635	645	649	643	631	292
35°	554	564	570	562	548	346
45°	455	469	476	465	450	351
55°	348	360	368	359	343	310
65°	229	240	250	239	226	227
75°	114	122	131	122	113	121
85°	18	24	25	26	21	26
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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	725.4	728.5	729.4	728.8	735.8	729.5	729.4	728.6	727.0
5°	725.0	726.0	728.0	726.2	735.0	726.2	727.0	725.0	726.0
7.5°	719.6	720.6	721.8	720.8	728.8	720.8	721.4	719.4	719.4
10°	714.0	715.0	717.0	715.2	724.0	715.2	715.0	713.0	713.0
12.5°	707.6	708.6	710.6	708.8	717.6	708.8	708.6	705.8	706.6
15°	695.0	697.9	700.0	697.2	706.0	697.2	697.0	695.0	693.0
17.5°	680.0	682.9	686.4	683.4	691.4	682.4	683.4	679.0	677.2
20°	668.0	670.9	676.0	672.2	681.0	671.2	673.0	667.0	666.0
22.5°	655.2	657.4	664.8	661.0	669.0	660.0	661.0	653.4	652.4
25°	635.0	637.0	645.0	642.2	649.0	640.2	643.0	632.0	631.0
27.5°	612.0	614.9	622.2	620.4	628.2	618.4	621.2	609.8	608.0
30°	596.0	598.9	607.0	605.2	613.0	603.2	606.0	593.0	592.0
32.5°	578.4	582.9	590.2	589.9	596.2	587.2	588.4	576.2	574.4
35°	554.0	556.9	564.0	564.1	570.0	562.2	562.0	550.0	548.0
37.5°	526.0	529.9	537.4	538.5	544.2	535.6	534.2	523.3	520.2
40°	506.0	509.9	519.0	520.1	525.0	517.2	515.0	504.9	501.0
42.5°	486.8	490.7	499.8	500.9	505.8	498.8	495.0	485.7	480.2
45°	455.0	459.9	469.0	472.1	476.0	469.2	465.0	453.9	450.0
47.5°	424.6	428.5	437.8	442.8	444.6	439.9	434.6	422.7	418.6
50°	403.0	406.9	417.0	422.0	423.0	419.1	413.0	401.9	397.0
52.5°	380.6	384.5	395.4	400.4	401.4	397.5	391.4	380.3	375.4
55°	348.0	351.9	360.0	368.0	368.0	366.0	359.0	346.9	343.0
57.5°	313.2	316.9	327.0	334.0	334.2	331.5	324.2	313.1	309.2
60°	290.0	292.9	303.0	310.0	311.0	309.0	301.0	289.9	286.0
62.5°	264.4	268.1	278.2	286.0	287.8	285.1	276.2	265.9	260.4
65°	229.0	231.0	240.0	248.0	250.0	247.1	239.0	228.9	226.0
67.5°	194.2	195.4	204.0	212.0	214.2	211.1	203.0	196.1	191.4
70°	171.0	173.0	180.0	188.1	191.0	187.1	179.0	172.9	169.0
72.5°	147.8	149.8	156.8	164.1	167.0	163.9	156.6	150.5	146.6
75°	114.0	115.0	122.0	129.0	131.0	128.1	122.0	116.9	113.0
77.5°	82.0	83.0	90.4	94.6	96.4	94.6	89.8	84.9	82.2
80°	62.0	63.0	68.0	73.0	74.0	73.0	69.0	65.0	63.0
82.5°	42.8	43.8	49.6	53.0	53.2	53.8	50.6	47.3	44.6
85°	18.0	19.0	24.0	27.0	25.0	27.9	26.0	23.0	21.0
87.5°	2.4	2.4	4.8	7.2	7.2	8.0	6.4	5.6	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)