

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: P522422

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522422
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

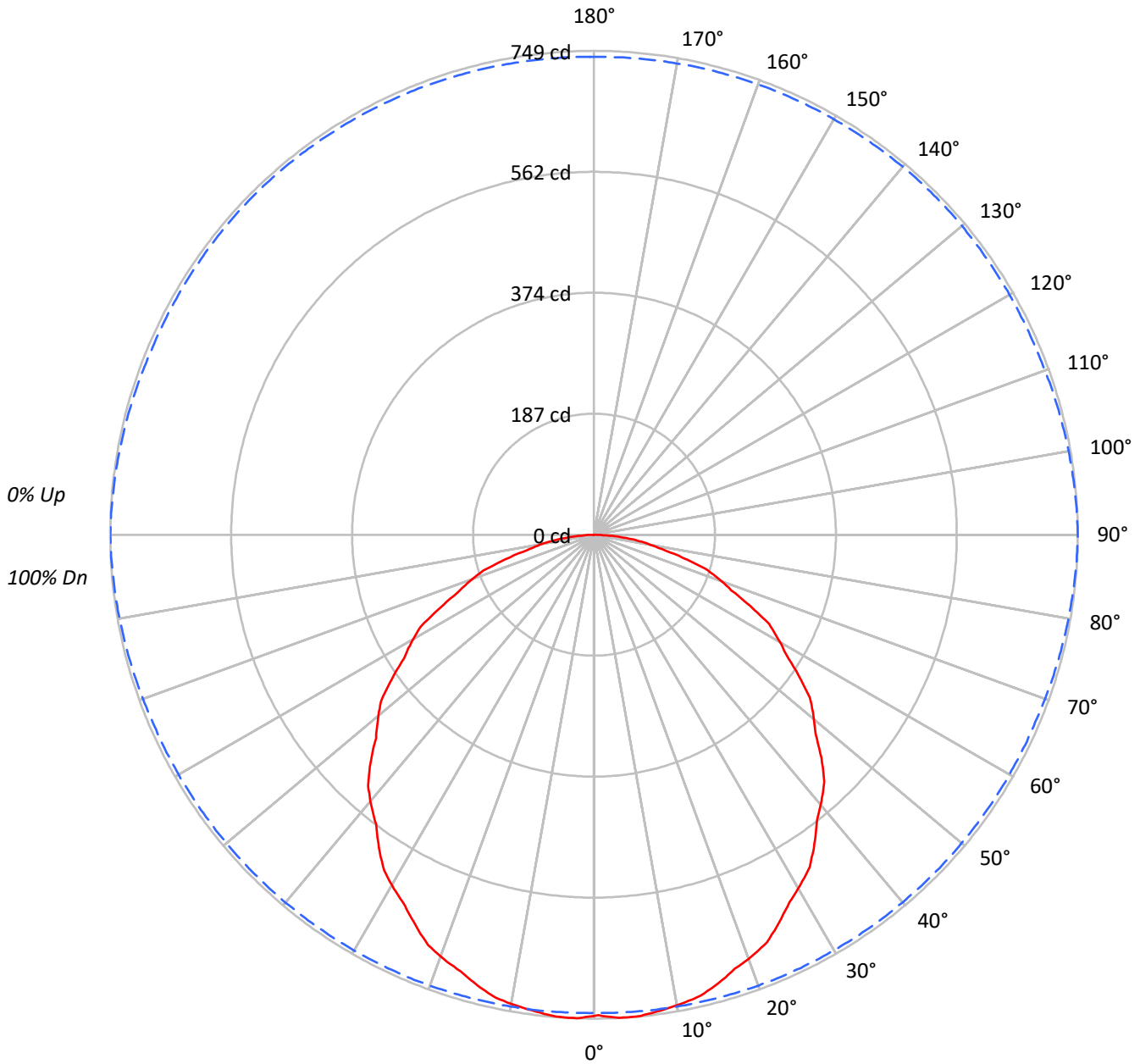
Lumens per Lamp: N/A
Luminaire Lumens: 2075.3 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° 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	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	82	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	46	58	51	46	56	50	45	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33				
8	60	47	38	33	59	46	38	32	45	37	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	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12009	12009	12009
5°	12003	12125	11951
10°	11986	12108	11899
15°	11972	12043	11813
20°	11887	11978	11668
25°	11738	11852	11475
30°	11572	11731	11315
35°	11440	11586	11105
40°	11228	11428	10914
45°	11024	11266	10661
50°	10741	11060	10394
55°	10514	10812	10007
60°	10211	10588	9629
65°	9647	10136	9081
70°	9116	9668	8464
75°	8409	8871	7742
80°	7299	7792	6509
85°	5502	6095	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.4
10°-20°	201.1	9.7
20°-30°	302.5	14.6
30°-40°	361.2	17.4
40°-50°	371.5	17.9
50°-60°	334.2	16.1
60°-70°	252.8	12.2
70°-80°	143.7	6.9
80°-90°	38.0	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°	573.9	27.7
0°-40°	935.1	45.1
0°-60°	1640.8	79.1
0°-90°	2075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	741	741	748	741	737	70
15°	716	717	720	712	707	202
25°	659	665	665	656	644	303
35°	580	587	588	575	563	362
45°	483	489	493	478	467	372
55°	374	381	384	369	356	334
65°	252	260	265	249	238	251
75°	135	139	142	132	124	142
85°	30	34	33	30	26	36
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°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	740.4	742.9	743.0	742.3	748.9	742.3	743.8	742.1	739.6
5°	740.6	740.6	740.6	739.8	748.1	738.7	740.6	737.4	737.4
7.5°	736.2	736.4	737.2	734.5	743.6	733.2	735.1	731.7	732.6
10°	731.1	732.1	732.1	730.2	738.5	728.1	730.0	725.8	725.8
12.5°	726.0	726.2	727.0	724.3	732.6	721.4	723.2	719.0	718.1
15°	716.2	716.2	717.3	713.2	720.5	710.1	712.0	706.7	706.7
17.5°	702.0	701.8	704.3	699.0	706.5	694.8	698.6	692.0	690.1
20°	691.8	690.8	695.0	688.8	697.1	684.7	687.6	680.1	679.1
22.5°	679.1	678.0	684.0	677.8	685.2	672.8	675.7	665.7	665.5
25°	658.9	657.9	665.3	659.1	665.3	653.9	655.7	645.1	644.1
27.5°	636.0	636.0	644.7	637.4	644.5	633.1	633.9	623.1	623.1
30°	620.7	620.7	630.3	623.0	629.2	617.8	618.6	606.9	606.9
32.5°	604.6	604.6	612.5	606.9	613.1	601.7	601.6	590.0	590.0
35°	580.4	578.3	586.8	581.6	587.8	576.4	575.1	563.4	563.4
37.5°	551.3	550.3	559.6	555.9	560.9	549.7	546.7	535.4	536.5
40°	532.7	531.6	540.1	538.1	542.2	531.8	526.3	516.8	517.8
42.5°	513.1	511.3	519.7	518.5	522.7	512.3	507.6	497.2	497.4
45°	482.8	482.8	489.2	489.2	493.4	482.0	477.5	466.9	466.9
47.5°	450.5	450.7	457.3	457.6	461.6	451.6	446.7	435.2	435.0
50°	427.6	428.6	436.1	437.2	440.3	432.0	425.5	414.9	413.8
52.5°	408.1	406.6	414.0	416.0	418.3	410.0	403.4	392.8	391.7
55°	373.5	374.5	380.9	384.1	384.1	376.8	369.3	358.6	355.5
57.5°	339.1	340.6	345.7	349.8	350.8	342.7	334.9	325.2	321.1
60°	316.2	315.2	323.6	326.8	327.9	320.6	312.0	302.3	298.2
62.5°	291.6	292.2	298.2	303.1	304.1	296.0	288.2	276.0	272.7
65°	252.5	255.6	260.0	263.2	265.3	259.0	249.4	239.8	237.7
67.5°	216.9	219.0	223.2	228.2	229.4	222.3	213.7	205.4	203.1
70°	193.1	195.2	199.5	202.7	204.8	198.6	189.9	182.4	179.3
72.5°	169.3	171.4	174.9	178.1	180.2	173.9	166.2	159.5	157.3
75°	134.8	136.8	139.0	141.1	142.2	138.0	131.6	125.2	124.1
77.5°	100.6	102.7	105.0	107.8	106.7	103.8	97.6	93.3	92.1
80°	78.5	80.6	83.8	84.9	83.8	81.7	76.4	72.1	70.0
82.5°	58.1	60.2	63.5	63.6	61.8	61.3	56.9	53.4	52.2
85°	29.7	31.8	34.0	35.0	32.9	32.9	29.7	26.5	26.5
87.5°	5.9	7.6	10.2	12.7	10.2	11.0	8.5	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)