

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: P522421

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522421
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 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

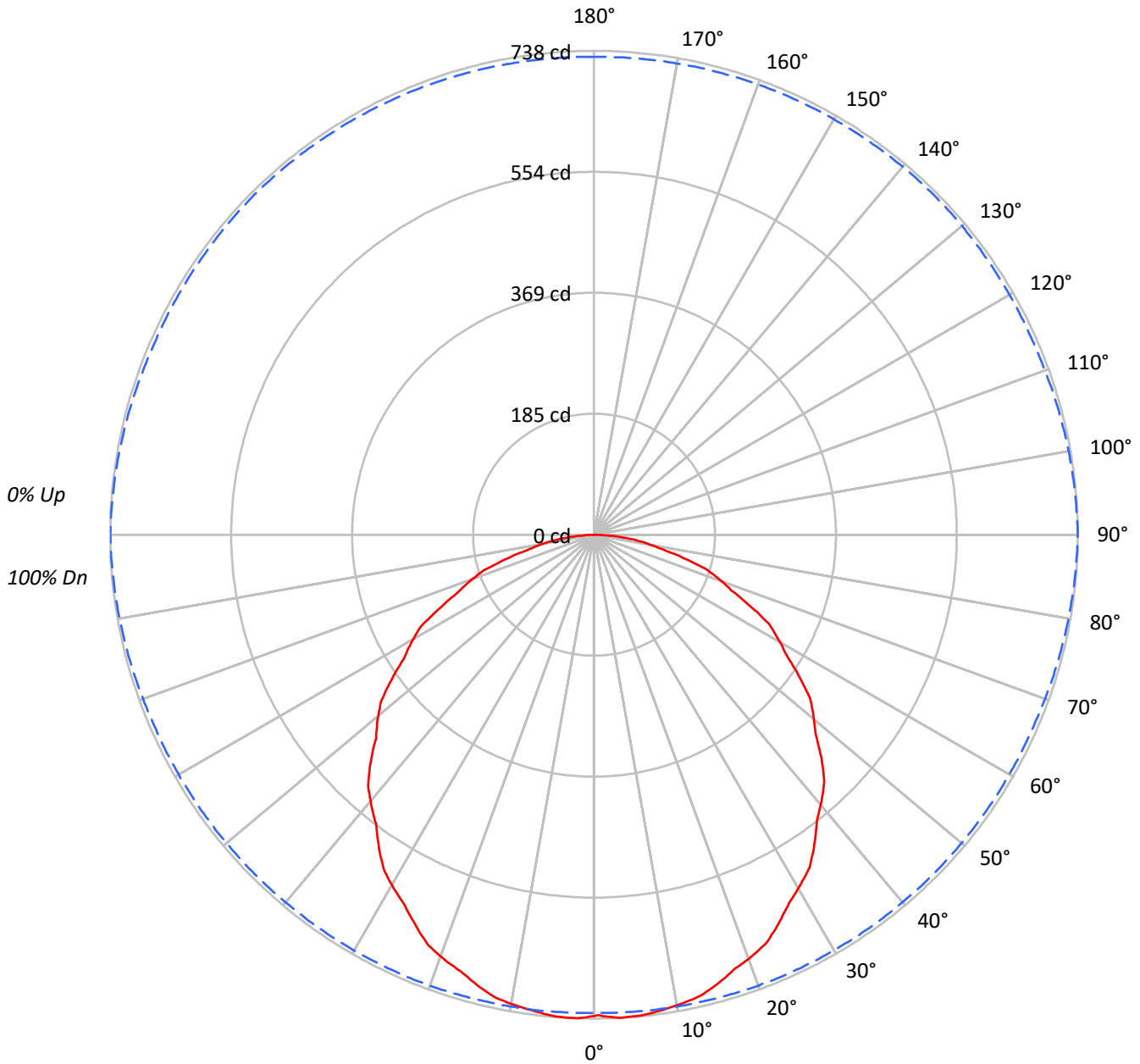
Lumens per Lamp: N/A
Luminaire Lumens: 2046.2 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P522421
CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522421

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (5000K)

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	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°	11841	11841	11841
5°	11835	11953	11784
10°	11817	11937	11732
15°	11804	11873	11646
20°	11720	11809	11503
25°	11574	11685	11313
30°	11410	11566	11156
35°	11280	11424	10949
40°	11070	11268	10760
45°	10869	11109	10510
50°	10590	10906	10248
55°	10367	10660	9866
60°	10069	10440	9494
65°	9513	9990	8951
70°	8988	9531	8346
75°	8291	8746	7636
80°	7197	7680	6416
85°	5428	6002	4854



TEST NUMBER: P522421

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.4
10°-20°	198.3	9.7
20°-30°	298.2	14.6
30°-40°	356.1	17.4
40°-50°	366.3	17.9
50°-60°	329.6	16.1
60°-70°	249.2	12.2
70°-80°	141.7	6.9
80°-90°	37.5	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°	565.9	27.7
0°-40°	922.0	45.1
0°-60°	1617.8	79.1
0°-90°	2046.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	730	730	738	730	727	69
15°	706	707	710	702	697	199
25°	650	656	656	646	635	299
35°	572	578	580	567	556	357
45°	476	482	486	471	460	367
55°	368	376	379	364	350	329
65°	249	256	262	246	234	248
75°	133	137	140	130	122	140
85°	29	34	32	29	26	36
90°	0	0	0	0	0	



TEST NUMBER: P522421

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	730.0	732.5	732.5	731.8	738.4	731.8	733.4	731.6	729.2
5°	730.2	730.2	730.2	729.4	737.5	728.3	730.2	727.1	727.1
7.5°	725.8	726.0	726.9	724.2	733.2	722.9	724.8	721.5	722.3
10°	720.8	721.8	721.9	720.0	728.1	717.9	719.8	715.6	715.6
12.5°	715.8	716.0	716.8	714.1	722.3	711.2	713.1	708.9	708.0
15°	706.2	706.2	707.2	703.2	710.3	700.1	702.0	696.7	696.7
17.5°	692.1	691.9	694.4	689.2	696.5	685.1	688.8	682.3	680.4
20°	682.1	681.1	685.2	679.1	687.3	675.1	677.9	670.6	669.5
22.5°	669.5	668.5	674.4	668.3	675.6	663.3	666.2	656.4	656.2
25°	649.7	648.6	655.9	649.8	655.9	644.7	646.5	636.0	635.0
27.5°	627.1	627.1	635.7	628.5	635.4	624.2	625.0	614.3	614.3
30°	612.0	612.0	621.4	614.2	620.4	609.1	609.9	598.4	598.4
32.5°	596.1	596.1	603.8	598.3	604.5	593.2	593.2	581.7	581.7
35°	572.3	570.2	578.5	573.4	579.6	568.3	567.0	555.5	555.5
37.5°	543.6	542.6	551.7	548.1	553.0	542.0	539.0	527.9	528.9
40°	525.2	524.2	532.5	530.5	534.6	524.4	518.9	509.5	510.5
42.5°	505.9	504.1	512.4	511.3	515.3	505.1	500.5	490.2	490.4
45°	476.0	476.0	482.3	482.4	486.5	475.2	470.8	460.3	460.3
47.5°	444.2	444.4	450.9	451.2	455.1	445.3	440.4	429.1	428.9
50°	421.6	422.6	430.0	431.1	434.2	426.0	419.5	409.0	408.0
52.5°	402.4	400.9	408.2	410.1	412.4	404.2	397.8	387.3	386.2
55°	368.3	369.3	375.6	378.7	378.7	371.6	364.1	353.5	350.5
57.5°	334.4	335.8	340.8	344.8	345.9	337.9	330.2	320.7	316.6
60°	311.8	310.7	319.1	322.2	323.3	316.1	307.6	298.1	294.0
62.5°	287.5	288.1	294.0	298.8	299.8	291.9	284.1	272.1	268.9
65°	249.0	252.1	256.3	259.5	261.5	255.4	245.8	236.4	234.3
67.5°	213.8	215.9	220.1	225.0	226.2	219.2	210.7	202.5	200.2
70°	190.4	192.4	196.7	199.9	201.9	195.8	187.3	179.9	176.8
72.5°	167.0	169.0	172.4	175.6	177.6	171.5	163.8	157.3	155.0
75°	132.9	134.9	137.0	139.2	140.2	136.1	129.7	123.4	122.4
77.5°	99.2	101.2	103.6	106.3	105.2	102.4	96.2	92.0	90.8
80°	77.4	79.5	82.6	83.7	82.6	80.6	75.3	71.1	69.0
82.5°	57.3	59.4	62.6	62.7	60.9	60.5	56.1	52.7	51.5
85°	29.3	31.3	33.5	34.5	32.4	32.4	29.3	26.2	26.2
87.5°	5.9	7.5	10.0	12.5	10.0	10.9	8.4	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)