

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: P522571

Luminaire Tested: **SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522571
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

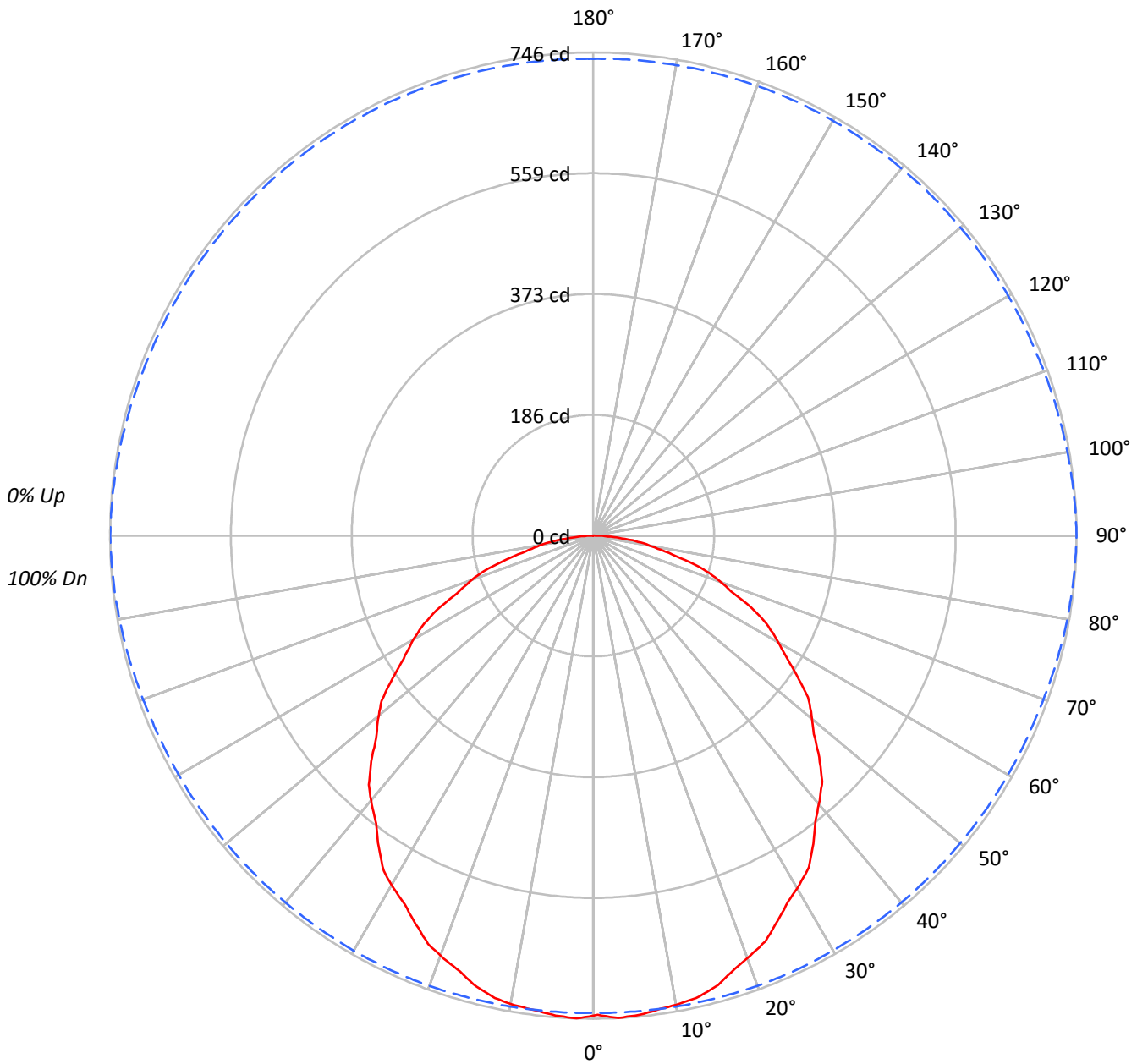
Lumens per Lamp: N/A
Luminaire Lumens: 2059.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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: P522571
CATALOG NUMBER: SQW-F-OU-050D-93050-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot



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



TEST NUMBER: P522571

CATALOG NUMBER: SQW-F-OU-050D-93050-1D-UNV-STD-W-4 (4500K)

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	89		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	69	63		72	67	62		70	65	61	59
4	83	71	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	47		58	51	46		56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41		52	46	40		51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	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	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11946	11946	11946
5°	11992	12042	11909
10°	11998	12047	11847
15°	11908	12028	11687
20°	11838	11892	11541
25°	11749	11749	11405
30°	11574	11669	11158
35°	11375	11515	10914
40°	11198	11327	10705
45°	11038	11154	10387
50°	10814	10967	10150
55°	10514	10716	9799
60°	10188	10485	9368
65°	9838	10227	8905
70°	9323	9611	8167
75°	8634	8696	7367
80°	7662	7764	5960
85°	6039	5854	4150



TEST NUMBER: P522571

CATALOG NUMBER: SQW-F-OU-050D-93050-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	200.0	9.7
20°-30°	300.8	14.6
30°-40°	359.1	17.4
40°-50°	368.7	17.9
50°-60°	331.4	16.1
60°-70°	251.2	12.2
70°-80°	141.7	6.9
80°-90°	36.8	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°	570.9	27.7
0°-40°	929.9	45.1
0°-60°	1630.0	79.1
0°-90°	2059.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	740	739	743	738	735	70
15°	712	716	720	703	699	201
25°	660	662	660	650	640	303
35°	577	586	584	569	554	361
45°	483	490	488	470	455	373
55°	374	381	381	362	348	334
65°	258	265	268	244	233	254
75°	138	140	139	126	118	147
85°	33	36	32	26	22	39
90°	0	0	0	0	0	



TEST NUMBER: P522571

CATALOG NUMBER: SQW-F-OU-050D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	736.7	739.9	739.1	738.5	745.6	739.3	739.9	739.0	735.9
5°	739.9	737.9	738.9	738.0	743.0	737.0	737.9	734.8	734.8
7.5°	736.7	733.5	734.4	733.7	738.1	731.3	730.2	726.4	730.0
10°	731.8	727.8	728.7	728.9	734.8	724.9	723.6	720.6	722.6
12.5°	725.3	722.9	723.0	721.6	730.0	716.8	716.3	714.1	714.5
15°	712.4	715.4	715.5	708.6	719.6	703.7	703.3	703.2	699.2
17.5°	697.2	701.4	704.9	696.1	703.5	690.2	689.9	686.3	681.5
20°	689.0	690.0	695.1	687.1	692.1	681.1	680.9	671.7	671.7
22.5°	677.6	677.8	683.7	674.9	679.9	668.9	669.5	658.7	659.5
25°	659.5	658.5	661.6	655.5	659.5	649.6	650.4	639.2	640.2
27.5°	637.1	638.3	643.0	633.8	639.8	627.6	628.0	617.8	616.4
30°	620.8	622.8	630.0	620.0	625.9	613.0	611.7	601.4	598.5
32.5°	603.7	605.7	612.9	605.3	610.5	598.3	595.4	583.5	581.4
35°	577.1	579.1	586.2	582.2	584.2	572.3	568.9	556.7	553.7
37.5°	550.0	552.0	557.9	555.1	556.9	544.4	539.6	528.8	526.6
40°	531.3	533.3	538.4	536.4	537.4	526.4	520.1	510.9	507.9
42.5°	513.4	514.6	518.9	515.3	517.8	507.7	500.5	491.3	486.7
45°	483.4	483.4	489.6	485.6	488.5	478.6	470.2	459.9	454.9
47.5°	452.5	450.7	457.8	456.4	457.8	447.1	438.7	428.0	424.4
50°	430.5	429.5	436.6	437.6	436.6	426.7	418.3	406.1	404.1
52.5°	406.9	408.3	413.8	414.8	414.6	404.7	395.5	384.1	382.1
55°	373.5	375.5	380.7	381.6	380.7	371.7	362.3	350.1	348.1
57.5°	338.3	343.1	347.5	348.5	349.1	339.5	327.9	318.7	314.5
60°	315.5	319.5	324.7	325.7	324.7	316.7	304.3	295.0	290.1
62.5°	292.7	295.1	300.2	302.8	300.2	292.3	279.9	271.5	269.7
65°	257.5	259.5	264.6	266.7	267.7	256.7	244.3	237.1	233.1
67.5°	219.4	221.8	224.7	227.6	228.8	217.3	207.0	199.4	195.0
70°	197.5	197.5	199.5	201.6	203.6	193.6	184.2	175.0	173.0
72.5°	173.8	173.8	176.7	177.9	178.3	169.2	160.6	152.3	151.9
75°	138.4	138.4	140.5	141.4	139.4	133.5	126.2	119.1	118.1
77.5°	105.2	104.6	106.5	107.3	106.3	99.5	92.4	87.5	86.1
80°	82.4	83.4	84.5	84.5	83.5	77.5	71.2	67.1	64.1
82.5°	61.3	62.3	64.1	64.1	61.5	57.9	52.5	47.6	47.0
85°	32.6	32.6	35.6	34.5	31.6	29.6	26.5	22.4	22.4
87.5°	8.1	8.9	10.6	12.9	9.0	9.8	5.7	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)