

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: P522577

Luminaire Tested: **SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522577  
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-075D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

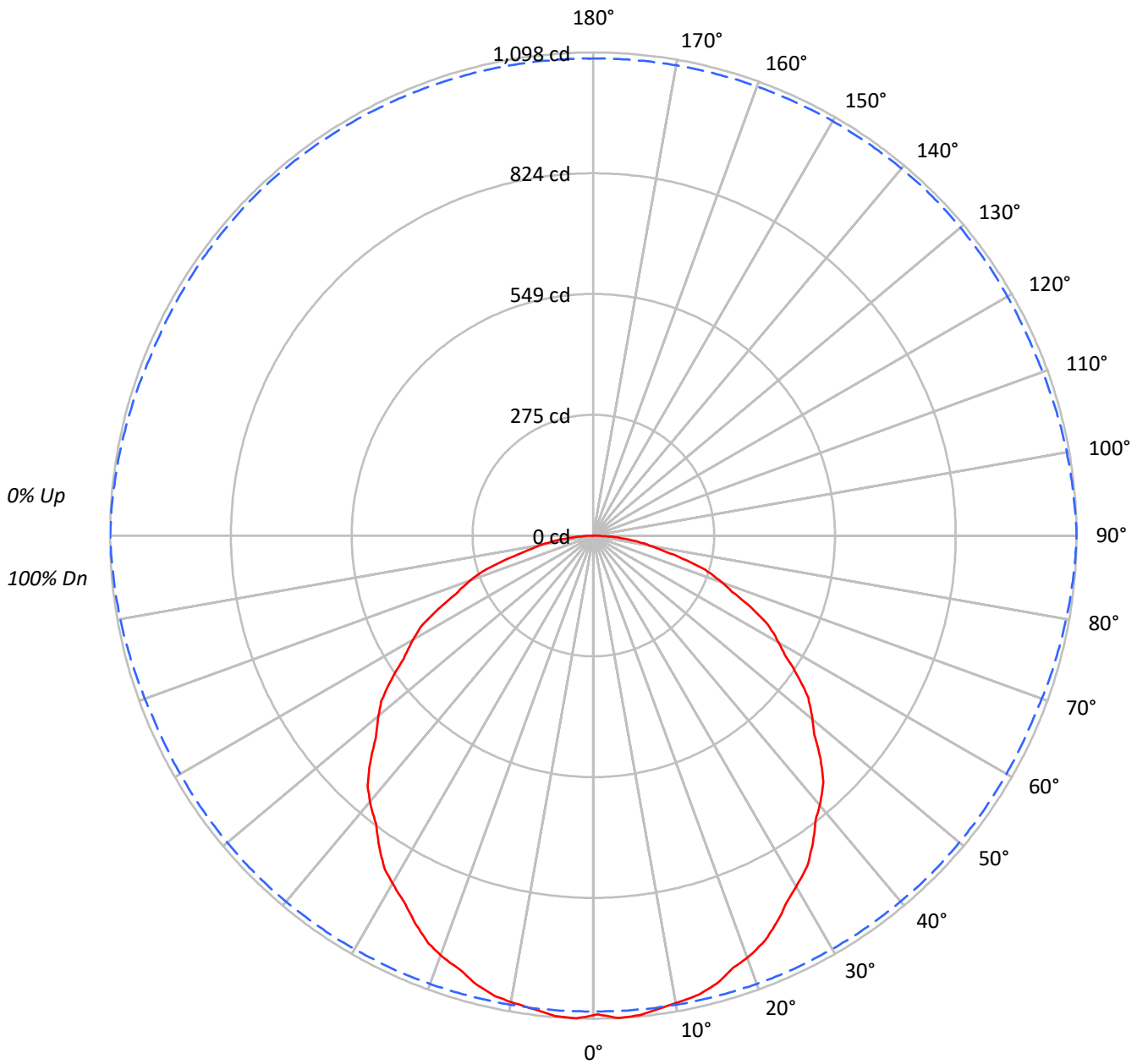
Lumens per Lamp: N/A  
Luminaire Lumens: 3037.2 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.2  
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: P522577  
CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (5000K)

### Luminous Intensity Polar Plot



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



TEST NUMBER: P522577

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-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	54	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	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	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°	17572	17572	17572
5°	17506	17754	17605
10°	17321	17674	17623
15°	17232	17643	17506
20°	16972	17502	17414
25°	16668	17305	17270
30°	16354	17098	17003
35°	16058	16925	16744
40°	15723	16760	16543
45°	15372	16520	16285
50°	14981	16164	15958
55°	14508	15865	15519
60°	13931	15487	15090
65°	13154	14995	14483
70°	12288	14318	13785
75°	10867	13038	12526
80°	9047	11437	11055
85°	5891	8929	8540



TEST NUMBER: P522577

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.4
10°-20°	293.8	9.7
20°-30°	442.0	14.6
30°-40°	528.0	17.4
40°-50°	543.3	17.9
50°-60°	488.5	16.1
60°-70°	372.1	12.3
70°-80°	211.1	7.0
80°-90°	55.3	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°	838.7	27.6
0°-40°	1366.8	45.0
0°-60°	2398.6	79.0
0°-90°	3037.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1081	1095	1088	1086	102
15°	1031	1036	1056	1050	1047	290
25°	936	956	971	978	969	431
35°	815	836	859	864	850	509
45°	673	693	724	720	713	519
55°	515	536	564	560	551	460
65°	344	366	392	389	379	342
75°	174	188	209	207	201	186
85°	32	41	48	51	46	42
90°	0	0	0	0	0	



TEST NUMBER: P522577

CATALOG NUMBER: SQW-F-OU-075D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1081.7	1084.9	1086.6	1082.9	1098.1	1085.3	1089.9	1086.6	1084.2
5°	1080.1	1079.1	1081.1	1077.4	1095.4	1081.4	1088.3	1083.2	1086.2
7.5°	1069.6	1067.6	1071.2	1071.8	1085.4	1075.2	1079.2	1077.9	1081.5
10°	1056.5	1058.5	1064.7	1066.0	1078.0	1067.0	1071.9	1072.9	1074.9
12.5°	1050.7	1047.1	1054.0	1057.8	1070.6	1057.2	1066.1	1065.6	1069.2
15°	1030.9	1029.9	1036.0	1039.4	1055.5	1043.4	1050.3	1050.3	1047.3
17.5°	1005.9	1005.9	1014.1	1015.7	1032.5	1023.7	1030.5	1027.4	1026.6
20°	987.8	987.8	1000.1	998.5	1018.6	1010.6	1016.5	1009.4	1013.5
22.5°	967.3	968.1	982.9	980.5	999.7	994.9	1001.8	991.4	996.2
25°	935.6	938.6	956.1	954.4	971.4	966.4	977.6	965.4	969.4
27.5°	901.8	906.0	923.5	923.2	940.1	936.5	949.3	935.2	935.8
30°	877.2	882.2	899.7	901.1	917.1	911.1	926.3	913.0	912.0
32.5°	853.4	857.6	875.1	878.1	894.2	890.6	902.6	889.2	887.4
35°	814.7	819.7	836.2	841.7	858.7	853.7	863.8	851.5	849.5
37.5°	774.7	777.9	795.4	800.2	820.6	816.4	822.9	811.0	811.2
40°	746.0	750.0	767.5	773.1	795.2	790.2	794.2	783.9	784.9
42.5°	717.3	721.3	738.0	746.1	766.5	761.5	764.6	756.0	756.2
45°	673.2	676.2	692.7	703.4	723.5	718.4	720.4	712.2	713.2
47.5°	627.5	629.7	644.8	659.7	676.3	674.1	674.5	664.3	667.3
50°	596.4	599.4	612.8	628.5	643.5	644.5	642.5	632.3	635.3
52.5°	564.4	566.6	582.5	595.7	611.6	613.4	609.7	600.3	602.5
55°	515.4	517.4	535.9	549.6	563.6	564.6	560.5	553.3	551.3
57.5°	465.0	468.0	485.3	500.2	514.0	512.2	510.1	501.7	500.1
60°	431.4	434.4	450.9	466.5	479.6	478.6	476.5	467.3	467.3
62.5°	397.0	400.8	418.1	432.1	445.1	444.9	442.1	435.3	433.7
65°	344.3	348.3	365.8	378.4	392.5	392.5	389.4	381.2	379.1
67.5°	293.9	297.9	312.3	325.4	339.4	338.2	335.3	330.1	327.3
70°	260.3	264.3	274.6	289.3	303.3	301.3	299.2	294.0	292.0
72.5°	224.2	229.0	239.4	252.4	265.6	265.2	263.1	260.4	256.0
75°	174.2	177.2	188.5	200.0	209.0	210.0	207.0	205.9	200.8
77.5°	126.9	130.7	140.0	150.0	156.6	159.8	158.0	155.5	151.7
80°	97.3	100.4	109.6	118.0	123.0	127.0	126.0	121.9	118.9
82.5°	69.5	72.5	80.1	87.6	91.8	95.8	94.9	92.3	87.7
85°	31.8	33.8	41.0	46.2	48.2	53.2	51.2	49.1	46.1
87.5°	4.9	5.7	10.7	15.6	14.8	19.6	17.2	13.9	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)