

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: P522576

Luminaire Tested: **SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522576  
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 (4500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

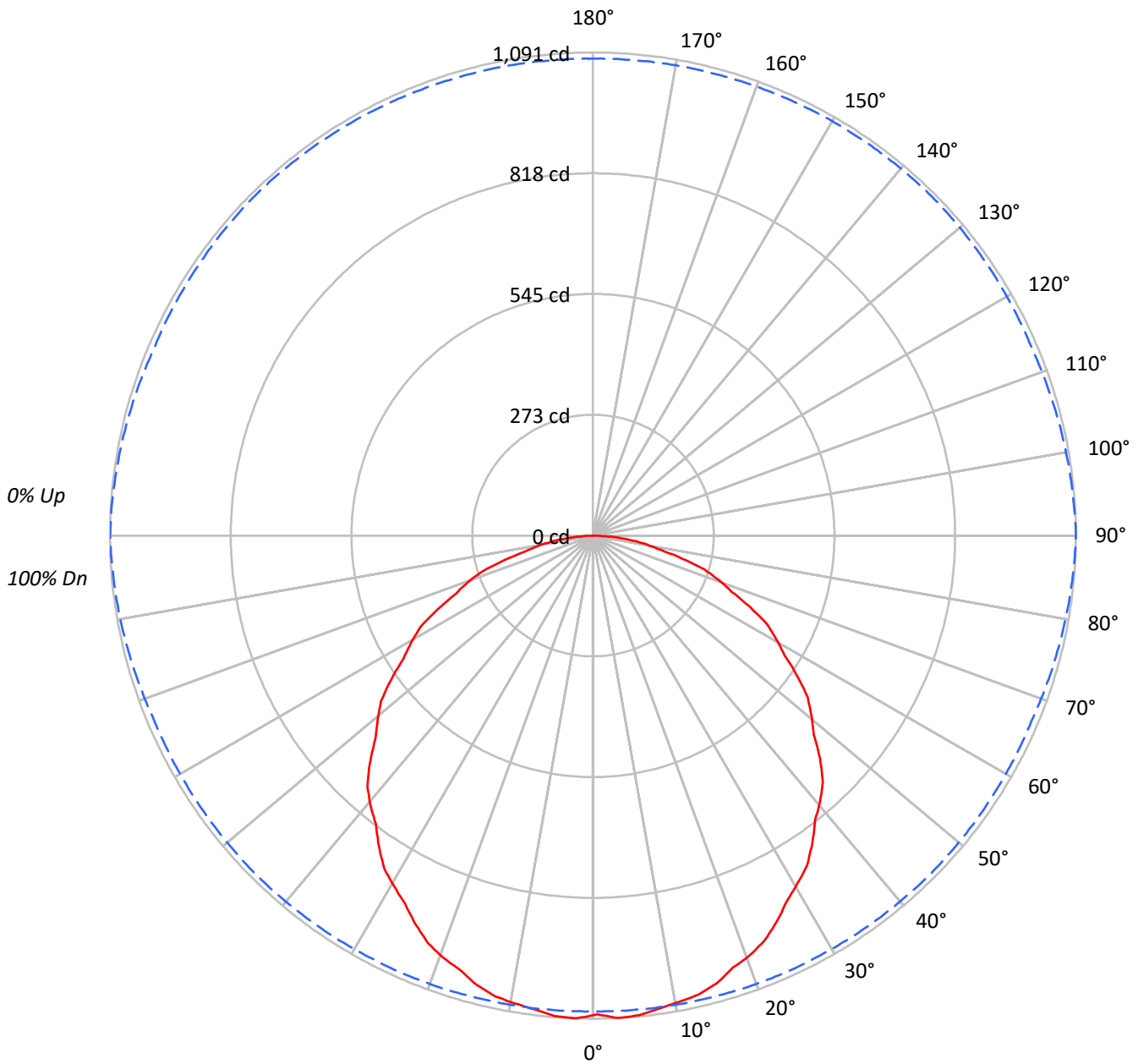
Lumens per Lamp: N/A  
Luminaire Lumens: 3016.6 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.3  
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	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°	17452	17452	17452
5°	17386	17634	17485
10°	17203	17554	17505
15°	17115	17523	17387
20°	16857	17383	17295
25°	16554	17190	17152
30°	16242	16982	16887
35°	15948	16811	16630
40°	15616	16647	16432
45°	15269	16408	16175
50°	14878	16056	15850
55°	14410	15758	15415
60°	13837	15381	14987
65°	13066	14892	14388
70°	12203	14224	13695
75°	10792	12951	12445
80°	8991	11353	10981
85°	5854	8855	8485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	3.4
10°-20°	291.8	9.7
20°-30°	439.0	14.6
30°-40°	524.5	17.4
40°-50°	539.7	17.9
50°-60°	485.2	16.1
60°-70°	369.6	12.3
70°-80°	209.7	7.0
80°-90°	54.9	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°	833.1	27.6
0°-40°	1357.5	45.0
0°-60°	2382.3	79.0
0°-90°	3016.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1073	1074	1088	1081	1079	102
15°	1024	1029	1048	1043	1040	288
25°	929	950	965	971	963	428
35°	809	830	853	858	844	506
45°	669	688	719	716	708	515
55°	512	532	560	557	548	457
65°	342	363	390	387	377	339
75°	173	187	208	206	200	184
85°	32	41	48	51	46	42
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°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1074.4	1077.6	1079.3	1075.5	1090.7	1077.9	1082.5	1079.2	1076.8
5°	1072.7	1071.7	1073.8	1070.1	1088.0	1074.1	1080.9	1075.9	1078.8
7.5°	1062.4	1060.4	1064.0	1064.5	1078.0	1067.9	1071.9	1070.6	1074.2
10°	1049.3	1051.3	1057.5	1058.8	1070.7	1059.8	1064.6	1065.7	1067.7
12.5°	1043.6	1040.1	1046.9	1050.6	1063.4	1050.0	1058.9	1058.4	1062.0
15°	1023.9	1022.9	1029.0	1032.4	1048.3	1036.4	1043.2	1043.2	1040.2
17.5°	999.1	999.1	1007.2	1008.8	1025.5	1016.8	1023.5	1020.4	1019.6
20°	981.1	981.1	993.4	991.8	1011.7	1003.7	1009.6	1002.6	1006.6
22.5°	960.8	961.6	976.3	973.8	992.9	988.2	995.0	984.7	989.5
25°	929.2	932.2	949.6	947.9	964.9	959.9	971.0	958.8	962.8
27.5°	895.6	899.8	917.2	917.0	933.7	930.1	942.9	928.8	929.4
30°	871.2	876.2	893.6	895.0	910.9	904.9	920.1	906.8	905.8
32.5°	847.6	851.8	869.2	872.2	888.1	884.5	896.5	883.2	881.4
35°	809.1	814.1	830.5	836.0	852.9	847.9	858.0	845.7	843.7
37.5°	769.4	772.6	790.0	794.7	815.0	810.9	817.3	805.5	805.7
40°	740.9	744.9	762.3	767.9	789.8	784.8	788.8	778.6	779.6
42.5°	712.4	716.4	733.0	741.0	761.3	756.3	759.5	750.9	751.1
45°	668.7	671.7	688.0	698.7	718.6	713.6	715.5	707.4	708.4
47.5°	623.3	625.5	640.4	655.2	671.7	669.5	669.9	659.8	662.8
50°	592.3	595.3	608.6	624.2	639.2	640.2	638.1	628.0	631.0
52.5°	560.6	562.8	578.5	591.7	607.4	609.2	605.6	596.3	598.5
55°	511.9	513.9	532.3	545.8	559.8	560.8	556.7	549.6	547.6
57.5°	461.9	464.9	482.0	496.8	510.5	508.7	506.7	498.3	496.7
60°	428.5	431.5	447.8	463.4	476.3	475.3	473.3	464.1	464.1
62.5°	394.3	398.1	415.3	429.2	442.1	441.9	439.1	432.3	430.7
65°	342.0	346.0	363.3	375.9	389.8	389.8	386.8	378.6	376.6
67.5°	291.9	295.9	310.2	323.2	337.1	335.9	333.0	327.9	325.1
70°	258.5	262.5	272.8	287.3	301.3	299.3	297.2	292.1	290.1
72.5°	222.7	227.5	237.8	250.7	263.8	263.4	261.4	258.6	254.2
75°	173.0	176.0	187.3	198.7	207.6	208.6	205.6	204.5	199.5
77.5°	126.0	129.8	139.0	148.9	155.5	158.7	156.9	154.4	150.6
80°	96.7	99.7	108.9	117.2	122.1	126.1	125.2	121.0	118.1
82.5°	69.0	72.0	79.6	87.0	91.2	95.2	94.2	91.7	87.1
85°	31.6	33.5	40.7	45.8	47.8	52.8	50.9	48.8	45.8
87.5°	4.9	5.7	10.6	15.5	14.7	19.4	17.1	13.8	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)