

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: P522575

Luminaire Tested: **SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522575
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 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

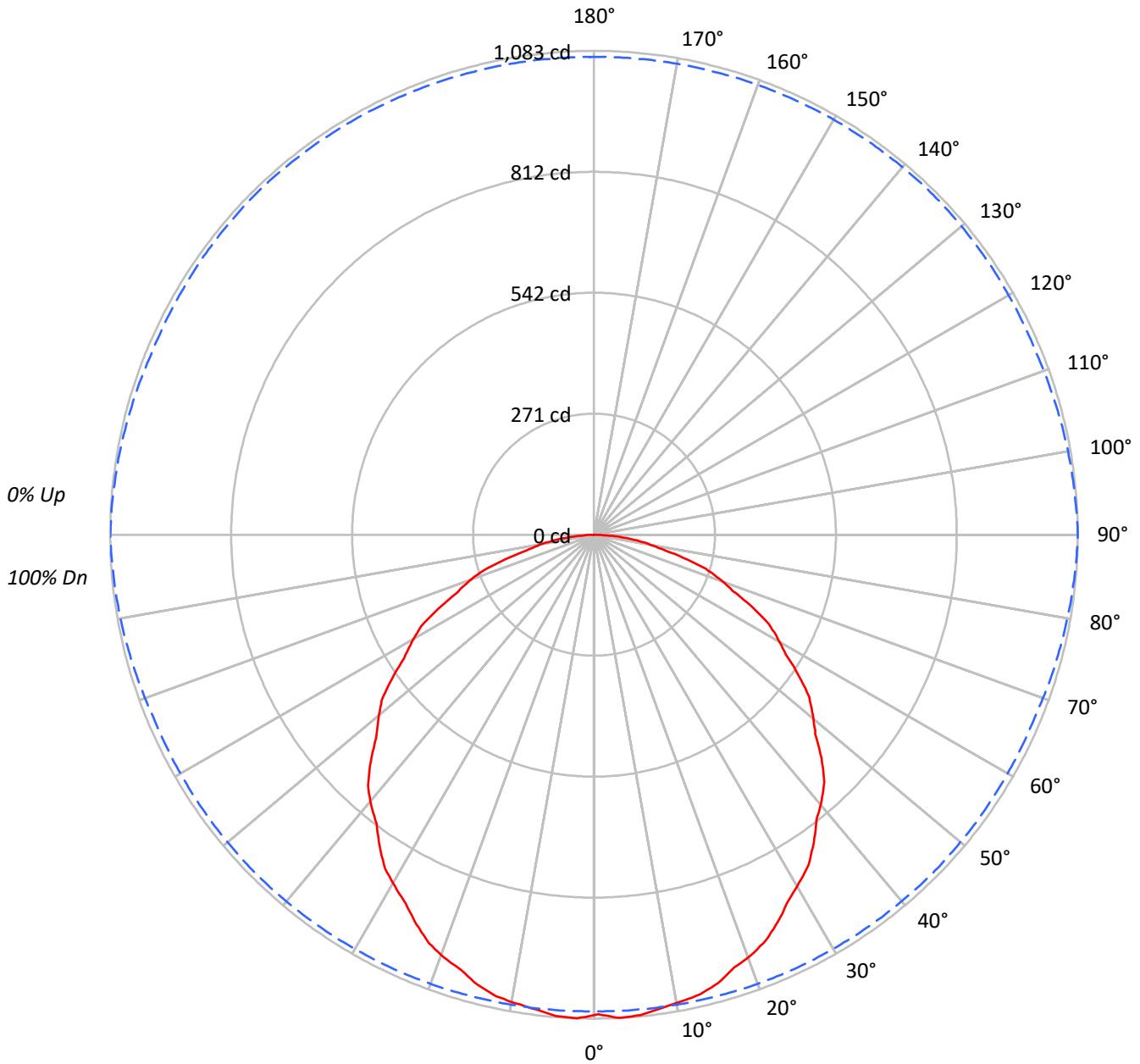
Lumens per Lamp: N/A
Luminaire Lumens: 2995.4 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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°	17329	17329	17329
5°	17264	17511	17363
10°	17084	17431	17382
15°	16995	17401	17265
20°	16740	17261	17173
25°	16438	17069	17033
30°	16129	16863	16770
35°	15837	16693	16513
40°	15506	16531	16318
45°	15162	16292	16061
50°	14775	15943	15739
55°	14311	15648	15305
60°	13740	15274	14883
65°	12974	14789	14285
70°	12118	14120	13596
75°	10717	12863	12358
80°	8926	11278	10897
85°	5798	8800	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	289.8	9.7
20°-30°	436.0	14.6
30°-40°	520.8	17.4
40°-50°	535.9	17.9
50°-60°	481.8	16.1
60°-70°	367.0	12.3
70°-80°	208.2	7.0
80°-90°	54.5	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°	827.2	27.6
0°-40°	1348.0	45.0
0°-60°	2365.6	79.0
0°-90°	2995.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1065	1066	1080	1073	1071	101
15°	1017	1022	1041	1036	1033	286
25°	923	943	958	964	956	425
35°	804	825	847	852	838	502
45°	664	683	714	710	703	512
55°	508	529	556	553	544	454
65°	340	361	387	384	374	337
75°	172	186	206	204	198	183
85°	31	40	48	50	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°	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1066.8	1070.0	1071.7	1068.0	1083.0	1070.4	1074.9	1071.6	1069.3
5°	1065.2	1064.2	1066.2	1062.6	1080.4	1066.5	1073.3	1068.3	1071.3
7.5°	1054.9	1052.9	1056.5	1057.0	1070.5	1060.4	1064.4	1063.1	1066.6
10°	1042.0	1043.9	1050.1	1051.3	1063.2	1052.3	1057.1	1058.2	1060.2
12.5°	1036.3	1032.8	1039.5	1043.3	1055.9	1042.7	1051.5	1050.9	1054.5
15°	1016.7	1015.7	1021.8	1025.1	1041.0	1029.1	1035.9	1035.8	1032.9
17.5°	992.0	992.0	1000.1	1001.7	1018.3	1009.6	1016.3	1013.3	1012.5
20°	974.3	974.3	986.4	984.8	1004.6	996.7	1002.6	995.6	999.5
22.5°	954.0	954.8	969.4	967.0	986.0	981.2	988.0	977.8	982.5
25°	922.7	925.7	942.9	941.3	958.1	953.1	964.2	952.1	956.1
27.5°	889.4	893.5	910.8	910.6	927.2	923.6	936.3	922.3	922.9
30°	865.1	870.0	887.3	888.7	904.5	898.6	913.6	900.5	899.5
32.5°	841.7	845.8	863.1	866.1	881.9	878.3	890.2	877.0	875.2
35°	803.5	808.4	824.7	830.1	846.9	842.0	852.0	839.8	837.8
37.5°	764.0	767.2	784.5	789.2	809.3	805.2	811.5	799.8	800.0
40°	735.7	739.7	757.0	762.5	784.3	779.3	783.2	773.2	774.2
42.5°	707.4	711.4	727.9	735.8	756.0	751.0	754.1	745.7	745.9
45°	664.0	667.0	683.2	693.7	713.5	708.6	710.5	702.4	703.4
47.5°	618.9	621.1	635.9	650.6	667.0	664.8	665.2	655.2	658.1
50°	588.2	591.2	604.4	619.9	634.7	635.7	633.7	623.6	626.6
52.5°	556.7	558.8	574.4	587.5	603.2	604.9	601.3	592.1	594.3
55°	508.4	510.3	528.6	542.0	555.9	556.8	552.8	545.7	543.7
57.5°	458.6	461.6	478.6	493.3	506.9	505.2	503.1	494.8	493.2
60°	425.5	428.4	444.7	460.1	473.0	472.0	469.9	460.9	460.9
62.5°	391.5	395.3	412.3	426.2	439.0	438.8	436.0	429.3	427.7
65°	339.6	343.5	360.8	373.2	387.1	387.1	384.0	375.9	373.9
67.5°	289.9	293.8	308.0	320.9	334.7	333.5	330.7	325.6	322.8
70°	256.7	260.7	270.9	285.3	299.1	297.2	295.1	290.0	288.0
72.5°	221.1	225.9	236.1	248.9	262.0	261.6	259.5	256.8	252.5
75°	171.8	174.8	186.0	197.3	206.2	207.2	204.1	203.0	198.1
77.5°	125.1	128.9	138.1	147.9	154.4	157.6	155.8	153.3	149.6
80°	96.0	99.0	108.1	116.3	121.3	125.2	124.3	120.2	117.2
82.5°	68.5	71.5	79.0	86.4	90.6	94.5	93.6	91.1	86.5
85°	31.3	33.3	40.4	45.5	47.5	52.4	50.5	48.4	45.5
87.5°	4.9	5.6	10.5	15.3	14.6	19.3	17.0	13.7	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)