

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: P522438

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522438
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-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

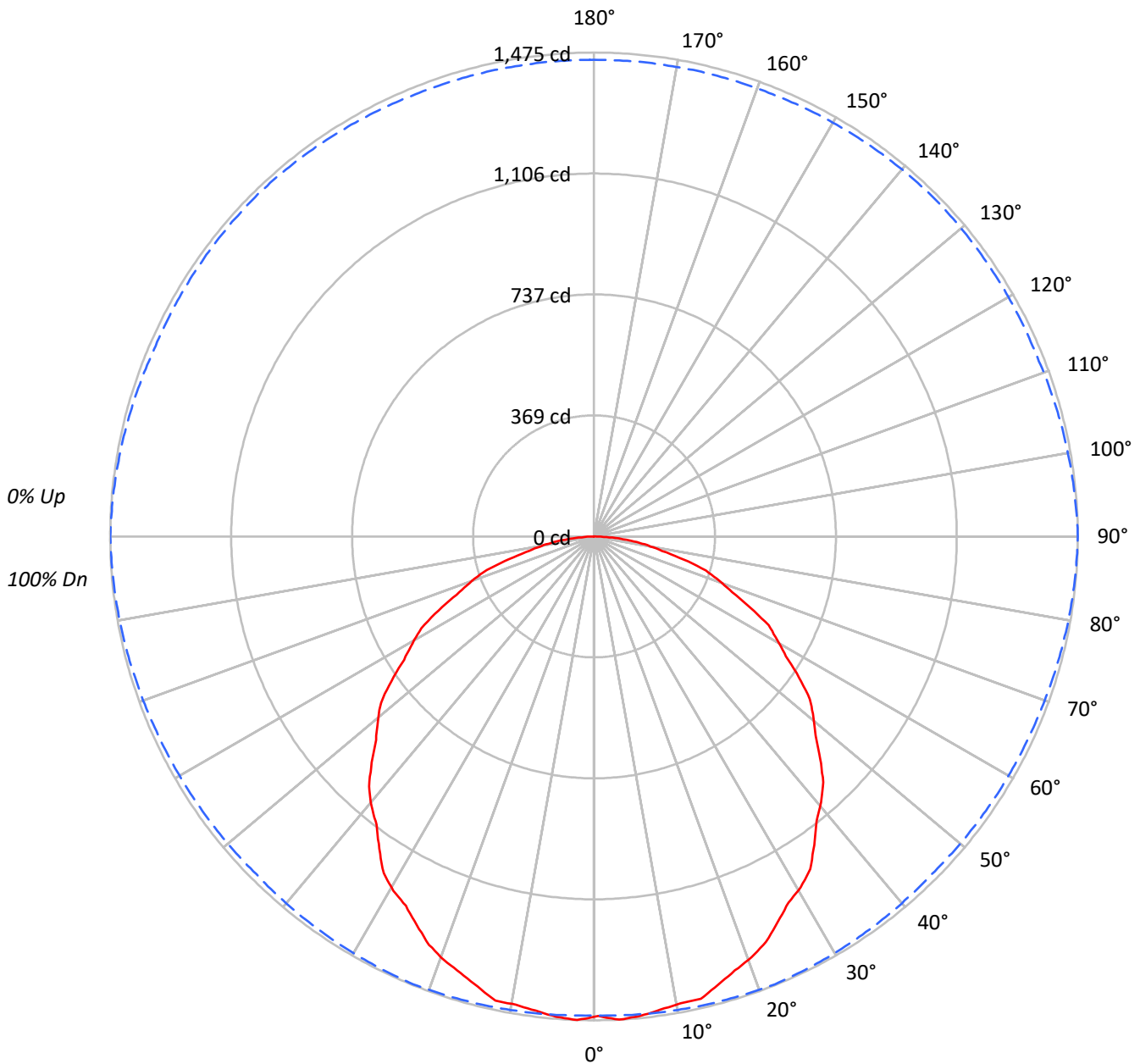
Lumens per Lamp: N/A
Luminaire Lumens: 4086.8 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
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	73	79	75	72	70
3	90	79	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	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23608	23608	23608
5°	23887	23801	23439
10°	23641	23728	23397
15°	23731	23696	23253
20°	23172	23536	22716
25°	23138	23193	22344
30°	22848	23146	22117
35°	22316	22775	21731
40°	22095	22476	21290
45°	21877	22071	20909
50°	21110	21775	20308
55°	20909	21357	19595
60°	19976	20728	18881
65°	19095	20065	17918
70°	18231	19133	16730
75°	16943	17604	15090
80°	14505	15388	12627
85°	10819	11986	8651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.4
10°-20°	395.8	9.7
20°-30°	594.1	14.5
30°-40°	710.2	17.4
40°-50°	730.9	17.9
50°-60°	658.0	16.1
60°-70°	499.7	12.2
70°-80°	285.1	7.0
80°-90°	74.6	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°	1128.3	27.6
0°-40°	1838.5	45.0
0°-60°	3227.4	79.0
0°-90°	4086.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4086.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1474	1462	1468	1443	1446	139
15°	1420	1411	1418	1397	1391	397
25°	1299	1306	1302	1288	1254	597
35°	1132	1160	1156	1130	1102	713
45°	958	966	967	945	916	732
55°	743	756	759	728	696	657
65°	500	514	525	489	469	497
75°	272	279	282	258	242	284
85°	58	67	65	58	47	72
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°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.5	1472.1	1456.2	1460.8	1474.9	1457.5	1462.2	1453.6	1452.8
5°	1473.8	1456.2	1462.2	1454.0	1468.5	1455.0	1443.1	1458.7	1446.2
7.5°	1448.8	1437.4	1460.7	1449.0	1456.6	1447.5	1448.8	1440.1	1439.9
10°	1442.0	1434.7	1442.0	1442.1	1447.3	1434.9	1433.5	1424.0	1427.1
12.5°	1422.5	1432.6	1421.6	1435.5	1446.5	1424.9	1416.5	1419.8	1425.4
15°	1419.7	1416.6	1411.2	1407.2	1417.6	1392.7	1397.4	1388.0	1391.1
17.5°	1376.6	1382.4	1385.1	1381.7	1391.1	1368.4	1363.1	1363.1	1364.5
20°	1348.6	1361.1	1369.8	1360.5	1369.8	1352.2	1348.6	1335.6	1322.1
22.5°	1333.3	1330.9	1348.6	1330.0	1342.7	1320.9	1330.8	1308.0	1315.3
25°	1298.8	1288.4	1306.2	1295.7	1301.9	1284.3	1288.1	1260.4	1254.2
27.5°	1252.7	1252.7	1263.5	1259.2	1263.5	1249.4	1245.5	1220.2	1217.7
30°	1225.5	1217.2	1237.2	1228.0	1241.5	1208.3	1210.7	1190.4	1186.3
32.5°	1189.0	1192.4	1205.8	1194.1	1210.0	1178.5	1184.4	1153.3	1158.3
35°	1132.2	1138.4	1159.8	1144.1	1155.5	1136.8	1130.0	1109.7	1102.5
37.5°	1095.9	1086.3	1096.7	1097.7	1101.2	1080.6	1073.2	1048.6	1050.9
40°	1048.3	1046.3	1061.1	1065.3	1066.4	1046.7	1040.9	1011.2	1010.1
42.5°	1005.0	1007.1	1019.5	1024.6	1024.8	1005.1	1004.4	972.2	976.2
45°	958.1	955.0	965.6	964.6	966.6	945.9	945.4	914.7	915.7
47.5°	884.5	891.1	898.3	900.4	908.5	890.9	878.4	853.9	850.1
50°	840.4	852.8	854.2	863.8	866.9	845.1	835.1	814.8	808.5
52.5°	801.3	808.0	813.4	819.7	824.5	804.3	789.2	769.9	768.6
55°	742.8	738.6	755.5	753.5	758.7	743.1	727.9	706.4	696.1
57.5°	667.0	675.1	678.9	686.8	690.3	673.3	660.0	637.3	636.4
60°	618.6	630.0	631.3	645.1	641.9	627.4	613.3	593.0	584.7
62.5°	574.5	577.6	586.3	595.9	597.0	580.8	570.0	548.0	542.2
65°	499.8	506.0	513.6	526.3	525.2	513.8	489.2	477.3	469.0
67.5°	432.1	434.1	444.4	450.4	454.6	438.8	424.6	408.0	404.5
70°	386.2	384.2	396.8	401.2	405.3	392.9	378.8	363.7	354.4
72.5°	336.1	338.2	347.6	354.5	356.9	344.5	329.6	318.0	312.0
75°	271.6	269.6	279.1	283.3	282.2	272.9	257.8	250.2	241.9
77.5°	200.1	204.3	209.9	213.7	212.2	206.0	194.2	182.6	179.1
80°	156.0	160.1	166.6	168.6	165.5	159.3	151.7	141.0	135.8
82.5°	115.2	117.7	124.1	127.9	123.1	119.3	112.7	104.5	98.5
85°	58.4	60.4	66.8	68.9	64.7	64.7	58.4	50.8	46.7
87.5°	13.6	14.4	19.5	25.4	20.4	22.0	17.0	12.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)