

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: P522582

Luminaire Tested: **SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522582
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-100D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

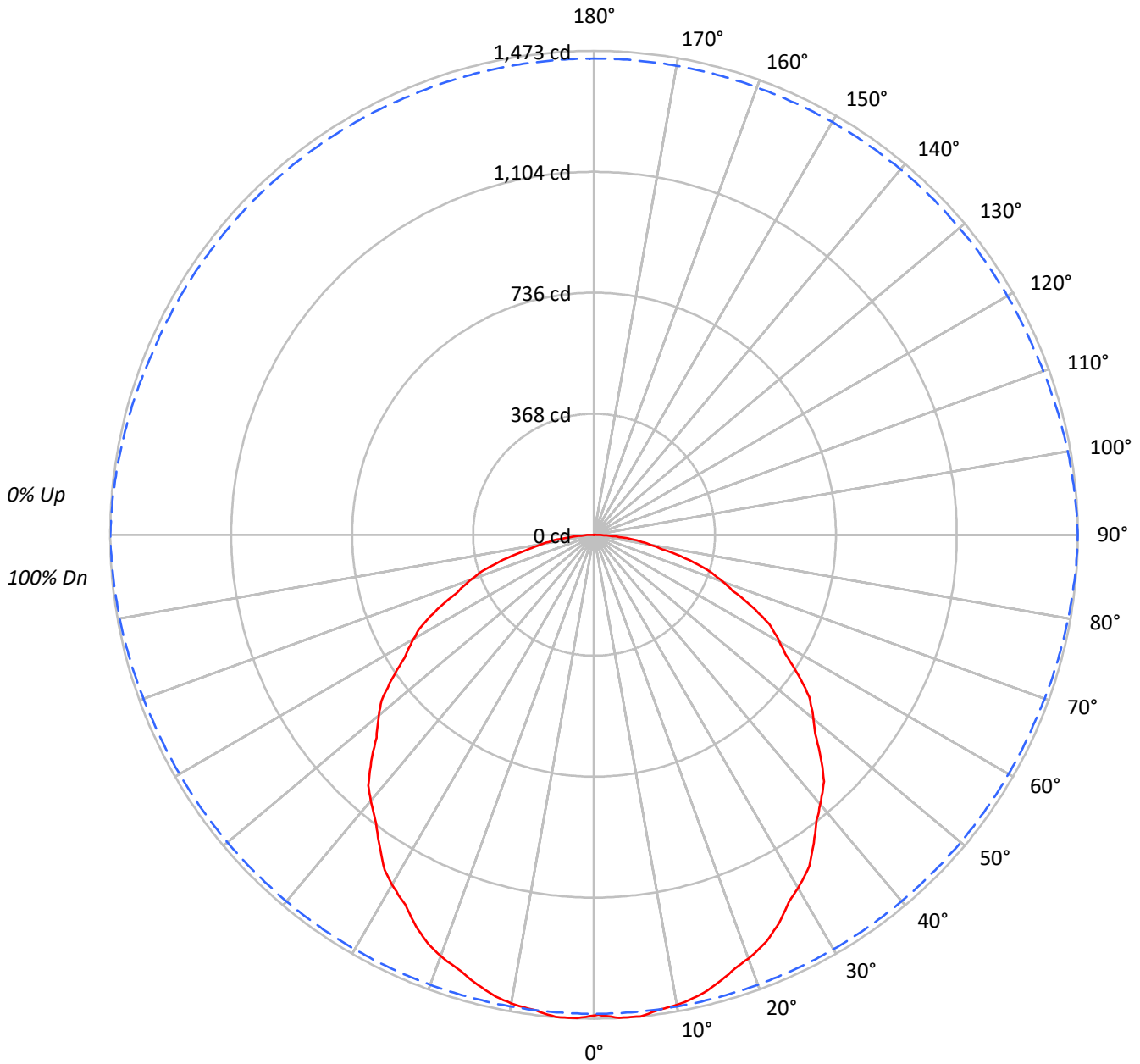
Lumens per Lamp: N/A
Luminaire Lumens: 4084.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 43.7
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 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23594	23594	23594
5°	23634	23866	23485
10°	23587	23789	23302
15°	23604	23654	23124
20°	23400	23522	22783
25°	23147	23313	22418
30°	22906	23040	22009
35°	22641	22702	21632
40°	22333	22419	21189
45°	21925	22087	20685
50°	21491	21697	20102
55°	20856	21258	19443
60°	20250	20780	18661
65°	19496	20202	17734
70°	18477	19204	16400
75°	17199	17898	14510
80°	15435	15249	12004
85°	11967	12153	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.4
10°-20°	395.0	9.7
20°-30°	594.1	14.5
30°-40°	709.8	17.4
40°-50°	729.8	17.9
50°-60°	657.0	16.1
60°-70°	500.3	12.2
70°-80°	285.2	7.0
80°-90°	74.9	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°	1127.4	27.6
0°-40°	1837.2	45.0
0°-60°	3224.0	78.9
0°-90°	4084.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1458	1456	1472	1452	1449	139
15°	1412	1412	1415	1395	1383	398
25°	1299	1311	1309	1281	1258	599
35°	1149	1162	1152	1123	1098	718
45°	960	967	967	930	906	740
55°	741	757	755	717	691	665
65°	510	524	529	486	464	504
75°	276	284	287	253	233	292
85°	65	70	66	54	41	78
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°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1459.6	1462.8	1461.3	1459.1	1471.9	1457.5	1459.6	1457.8	1449.8
5°	1458.2	1457.2	1456.1	1457.5	1472.5	1453.5	1452.0	1449.0	1449.0
7.5°	1452.6	1451.6	1450.4	1446.2	1458.4	1439.5	1440.1	1437.0	1432.8
10°	1438.7	1441.7	1439.7	1438.0	1451.0	1429.0	1429.5	1426.3	1421.3
12.5°	1432.2	1432.0	1430.7	1424.8	1437.1	1415.0	1414.7	1410.8	1407.4
15°	1412.1	1411.1	1412.1	1402.1	1415.1	1395.1	1394.6	1386.4	1383.4
17.5°	1383.2	1384.8	1386.2	1376.1	1387.9	1364.0	1363.7	1354.0	1352.2
20°	1361.9	1361.9	1369.0	1358.0	1369.0	1346.0	1346.5	1327.0	1326.0
22.5°	1336.4	1338.0	1346.1	1335.0	1344.4	1320.6	1319.4	1303.1	1298.9
25°	1299.3	1300.4	1310.6	1297.5	1308.6	1283.5	1280.9	1259.4	1258.4
27.5°	1259.0	1258.6	1270.9	1255.7	1264.5	1242.3	1239.1	1216.3	1214.9
30°	1228.6	1226.6	1243.0	1227.8	1235.8	1212.8	1211.2	1183.5	1180.5
32.5°	1196.7	1195.5	1210.2	1197.4	1203.0	1181.6	1173.5	1150.7	1149.3
35°	1148.7	1144.7	1162.0	1148.8	1151.8	1131.7	1123.1	1099.5	1097.5
37.5°	1094.0	1092.2	1104.9	1096.6	1101.4	1080.3	1065.9	1043.3	1042.1
40°	1059.6	1054.6	1068.8	1059.7	1063.7	1042.6	1029.8	1007.3	1005.3
42.5°	1017.8	1017.6	1029.4	1022.0	1026.8	1004.9	988.9	967.1	964.3
45°	960.2	957.2	967.3	965.3	967.3	944.3	930.4	905.9	905.9
47.5°	896.6	894.6	908.3	902.8	905.6	885.6	867.7	845.7	842.1
50°	855.6	853.6	864.9	861.8	863.8	843.8	825.9	802.3	800.3
52.5°	813.0	811.0	823.1	819.2	820.4	802.8	783.3	762.1	758.5
55°	740.9	745.9	757.3	756.2	755.2	737.2	717.3	695.7	690.7
57.5°	678.8	680.8	688.8	690.4	687.0	675.2	650.9	629.9	624.7
60°	627.1	633.1	644.6	644.5	643.5	628.5	602.5	584.0	577.9
62.5°	579.6	586.4	596.2	598.6	597.6	579.4	557.4	539.7	532.0
65°	510.3	515.3	523.6	528.8	528.8	508.7	485.7	469.2	464.2
67.5°	438.2	444.2	451.9	458.0	455.2	436.5	416.7	401.7	393.3
70°	391.4	397.5	402.7	408.8	406.8	389.8	369.9	353.4	347.4
72.5°	343.9	350.7	355.2	360.4	357.6	340.6	323.2	308.3	300.7
75°	275.7	277.7	283.8	287.9	286.9	269.9	253.1	240.6	232.6
77.5°	208.6	209.4	214.6	216.3	211.5	200.7	187.1	177.3	169.3
80°	166.0	166.0	171.1	172.0	164.0	157.9	144.5	137.1	129.1
82.5°	122.6	123.4	130.1	130.2	123.8	117.0	107.6	99.5	94.7
85°	64.6	65.6	69.7	72.6	65.6	61.6	54.3	46.0	41.0
87.5°	17.2	18.0	23.8	26.9	20.5	20.5	13.1	9.0	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)