

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: P511828

Luminaire Tested: **SQW-F-0U-100D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511828
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

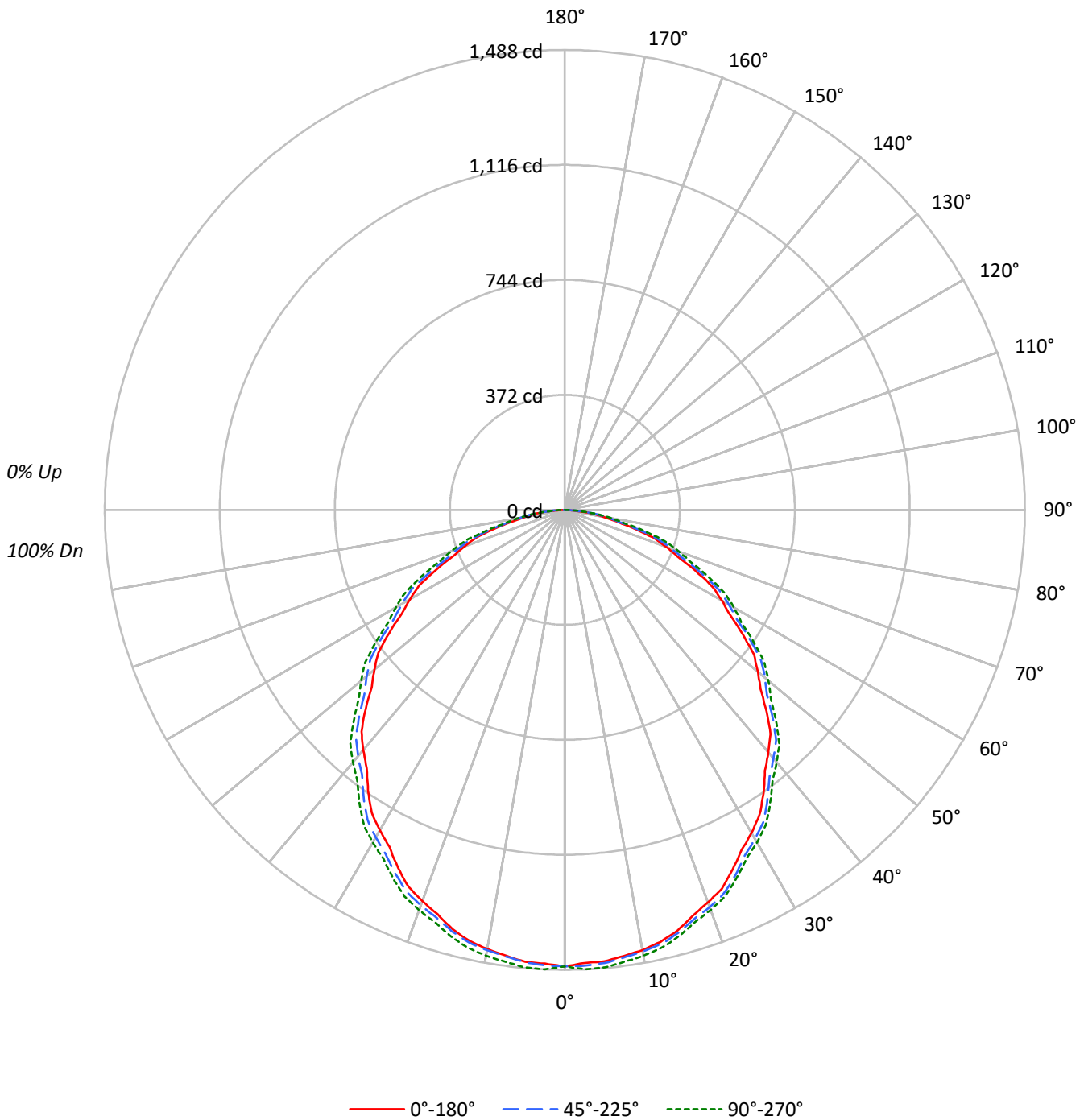
Lumens per Lamp: N/A
Luminaire Lumens: 4025.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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





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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47695	47695	47695
5°	47521	48169	47586
10°	47414	48037	47316
15°	47104	47739	46937
20°	46461	47354	46289
25°	45749	46854	45500
30°	45006	46348	44633
35°	44152	45650	43718
40°	43166	44936	42744
45°	42106	44115	41603
50°	40943	43204	40391
55°	39578	41999	39015
60°	37846	40752	37329
65°	35607	39121	35148
70°	32762	36916	32384
75°	28447	33437	29071
80°	22873	27708	24175
85°	12597	18896	16302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.5
10°-20°	398.1	9.9
20°-30°	596.7	14.8
30°-40°	709.4	17.6
40°-50°	726.3	18.0
50°-60°	647.4	16.1
60°-70°	482.6	12.0
70°-80°	263.7	6.6
80°-90°	61.9	1.5
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°	1134.4	28.2
0°-40°	1843.8	45.8
0°-60°	3217.5	79.9
0°-90°	4025.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1477	1477	1477	1477	1477	
5°	1466	1472	1486	1469	1468	139
15°	1409	1417	1428	1411	1404	397
25°	1284	1305	1315	1298	1277	592
35°	1120	1143	1158	1135	1109	700
45°	922	950	966	939	911	711
55°	703	731	746	724	693	628
65°	466	489	512	485	460	461
75°	228	246	268	248	233	244
85°	34	47	51	52	44	50
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°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1467.4	1474.4	1476.2	1474.9	1488.2	1475.7	1475.4	1474.5	1469.8
5°	1466.0	1468.0	1472.0	1469.4	1486.0	1469.4	1469.0	1467.0	1468.0
7.5°	1456.4	1458.4	1460.6	1458.0	1474.6	1457.6	1457.4	1454.0	1455.0
10°	1446.0	1448.0	1451.0	1448.4	1465.0	1446.4	1447.0	1442.0	1443.0
12.5°	1431.6	1433.6	1439.0	1435.6	1451.4	1433.6	1434.2	1428.4	1428.6
15°	1409.0	1411.9	1417.0	1411.4	1428.0	1410.4	1411.0	1405.0	1404.0
17.5°	1376.8	1382.7	1388.8	1383.9	1398.8	1382.0	1382.8	1373.5	1371.0
20°	1352.0	1357.9	1368.0	1362.4	1378.0	1360.4	1362.0	1348.0	1347.0
22.5°	1327.2	1331.5	1344.0	1338.4	1354.0	1336.4	1337.2	1320.8	1320.6
25°	1284.0	1289.9	1305.0	1300.3	1315.0	1297.4	1298.0	1279.9	1277.0
27.5°	1239.8	1245.9	1261.2	1256.7	1271.8	1253.8	1255.0	1234.9	1229.0
30°	1207.0	1213.8	1230.0	1226.4	1243.0	1223.4	1223.0	1202.9	1197.0
32.5°	1171.8	1180.2	1196.4	1194.3	1209.4	1190.6	1188.6	1168.5	1162.6
35°	1120.0	1128.8	1143.0	1144.3	1158.0	1140.4	1135.0	1115.8	1109.0
37.5°	1064.0	1072.2	1087.6	1090.3	1103.6	1085.2	1077.6	1060.2	1052.4
40°	1024.0	1033.8	1050.0	1054.3	1066.0	1048.4	1040.0	1021.8	1014.0
42.5°	984.8	994.6	1011.6	1018.2	1026.8	1010.0	1000.0	982.6	973.2
45°	922.0	931.8	950.0	959.2	966.0	950.4	939.0	920.8	911.0
47.5°	858.2	869.0	887.4	898.7	903.2	888.9	878.4	858.2	847.2
50°	815.0	825.8	845.0	857.1	860.0	847.3	836.0	815.7	804.0
52.5°	771.0	780.2	799.4	813.0	814.4	804.0	792.0	771.8	760.8
55°	703.0	712.8	731.0	747.0	746.0	739.2	724.0	703.8	693.0
57.5°	633.2	641.0	660.0	677.0	677.4	669.6	655.0	635.0	624.4
60°	586.0	593.8	612.0	629.0	631.0	623.2	607.0	587.8	578.0
62.5°	538.8	545.8	563.2	581.8	583.8	576.0	559.0	540.6	530.8
65°	466.0	471.9	489.0	508.1	512.0	503.2	485.0	468.8	460.0
67.5°	394.2	399.9	415.8	434.7	439.8	429.8	413.4	398.0	389.4
70°	347.0	351.9	367.0	385.1	391.0	380.2	367.0	350.8	343.0
72.5°	299.0	303.9	319.0	336.3	341.4	331.4	319.0	304.5	301.4
75°	228.0	232.9	246.0	264.1	268.0	259.2	248.0	235.0	233.0
77.5°	164.6	167.7	179.6	192.1	194.6	189.3	182.6	171.0	170.0
80°	123.0	126.9	138.0	148.0	149.0	146.1	141.0	131.0	130.0
82.5°	86.2	89.3	98.8	108.0	106.6	106.8	103.4	94.2	94.0
85°	34.0	36.9	47.0	54.9	51.0	53.9	52.0	45.0	44.0
87.5°	3.2	4.0	8.0	16.0	14.4	16.7	14.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)