

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: P511836

Luminaire Tested: **SQW-F-0U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511836
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

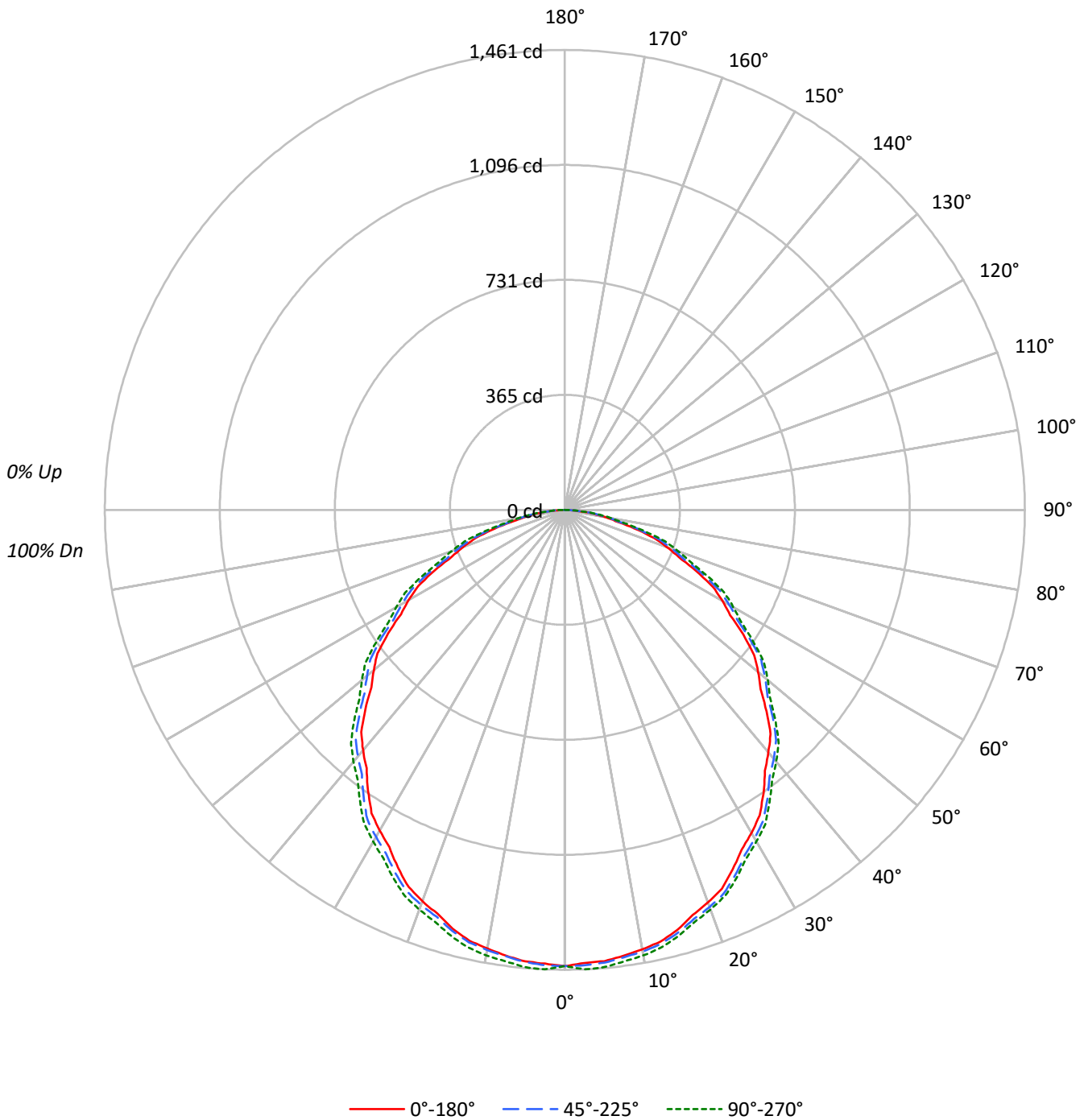
Lumens per Lamp: N/A
Luminaire Lumens: 3952.5 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 46.9
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	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	95	98	95	92	94	91	89	90	88	86	84			84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70			70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59			59	
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51			51	
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44			44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38			38	
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34			34	
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30			30	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27			27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46807	46807	46807
5°	46649	47268	46675
10°	46486	47136	46408
15°	46172	46810	46065
20°	45629	46450	45464
25°	44930	45977	44677
30°	44204	45390	43846
35°	43347	44696	42941
40°	42399	44009	42028
45°	41357	43211	40923
50°	40265	42260	39783
55°	38942	41138	38542
60°	37278	39900	36923
65°	35179	38334	34934
70°	32507	36104	32281
75°	28571	32639	28671
80°	23059	27057	23654
85°	13264	18562	15895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.5
10°-20°	390.5	9.9
20°-30°	585.2	14.8
30°-40°	696.0	17.6
40°-50°	712.7	18.0
50°-60°	635.4	16.1
60°-70°	474.7	12.0
70°-80°	260.1	6.6
80°-90°	60.9	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°	1112.7	28.2
0°-40°	1808.7	45.8
0°-60°	3156.8	79.9
0°-90°	3952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1450	1450	1450	1450	1450	
5°	1439	1444	1458	1442	1440	137
15°	1381	1391	1400	1384	1378	389
25°	1261	1280	1290	1274	1254	581
35°	1100	1122	1134	1115	1089	687
45°	906	934	946	923	896	698
55°	692	719	731	711	685	617
65°	460	483	502	479	457	456
75°	229	246	262	244	230	244
85°	36	48	50	49	43	51
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°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1440.6	1447.4	1448.2	1447.2	1460.9	1447.8	1448.2	1446.8	1443.1
5°	1439.1	1440.7	1443.9	1441.9	1458.2	1441.1	1442.3	1439.1	1439.9
7.5°	1429.1	1430.2	1433.7	1430.0	1446.4	1429.8	1430.2	1426.9	1428.6
10°	1417.7	1420.0	1424.8	1420.4	1437.5	1419.7	1420.0	1416.0	1415.3
12.5°	1404.9	1406.0	1412.1	1407.7	1423.5	1406.3	1407.3	1401.4	1401.9
15°	1381.1	1385.0	1390.6	1383.8	1400.2	1383.1	1384.3	1378.7	1377.9
17.5°	1350.1	1356.9	1362.6	1355.8	1372.0	1354.4	1355.5	1347.8	1345.3
20°	1327.8	1334.0	1342.9	1336.1	1351.7	1332.2	1335.8	1323.0	1323.0
22.5°	1303.0	1306.7	1319.4	1312.0	1328.1	1308.7	1311.6	1295.7	1296.3
25°	1261.0	1266.5	1280.1	1274.1	1290.4	1270.2	1273.7	1255.4	1253.9
27.5°	1216.7	1223.0	1237.2	1231.7	1247.8	1227.8	1230.3	1210.2	1207.7
30°	1185.5	1192.5	1205.4	1201.7	1217.3	1197.9	1199.8	1179.1	1175.9
32.5°	1151.1	1159.4	1172.3	1171.8	1184.9	1167.3	1167.4	1146.0	1142.2
35°	1099.6	1107.4	1121.9	1122.1	1133.8	1115.9	1114.7	1093.9	1089.3
37.5°	1044.6	1053.5	1068.3	1070.3	1080.9	1064.2	1059.4	1038.6	1034.6
40°	1005.8	1015.9	1032.0	1034.6	1044.0	1026.1	1022.5	1001.7	997.0
42.5°	967.0	977.1	993.2	997.1	1005.2	990.4	983.1	962.3	957.0
45°	905.6	916.5	934.2	939.9	946.2	932.9	923.1	902.3	896.1
47.5°	843.4	853.5	872.1	879.9	883.8	872.6	862.4	840.7	833.9
50°	801.5	811.6	830.1	837.3	841.2	831.9	819.7	798.1	791.9
52.5°	757.6	767.7	786.2	794.7	798.0	789.9	777.8	756.2	749.9
55°	691.7	700.3	718.8	729.1	730.7	725.3	710.8	690.0	684.6
57.5°	623.0	631.4	649.8	660.9	663.6	658.1	642.8	622.1	617.5
60°	577.2	585.0	602.7	613.9	617.8	612.3	596.3	576.3	571.7
62.5°	530.8	538.0	555.0	566.9	572.0	565.9	549.3	529.9	525.2
65°	460.4	466.6	482.6	498.6	501.7	494.7	478.6	460.3	457.2
67.5°	390.7	395.4	410.4	426.1	430.1	423.0	406.5	390.8	387.1
70°	344.3	348.9	363.4	377.8	382.4	374.7	359.4	345.0	341.9
72.5°	297.8	301.9	316.3	329.4	334.1	327.6	312.3	299.2	296.1
75°	229.0	233.7	246.5	258.5	261.6	256.9	244.1	232.9	229.8
77.5°	164.7	167.7	178.7	188.0	190.7	187.2	177.5	167.6	166.0
80°	124.0	126.4	136.8	144.7	145.5	143.9	136.8	128.8	127.2
82.5°	86.5	89.5	99.2	105.9	104.2	105.1	99.9	92.5	91.6
85°	35.8	37.3	47.7	54.0	50.1	54.0	49.3	43.7	42.9
87.5°	3.8	4.4	8.3	15.2	13.4	16.5	13.4	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)