

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: P511837

Luminaire Tested: **SQW-F-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511837
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-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

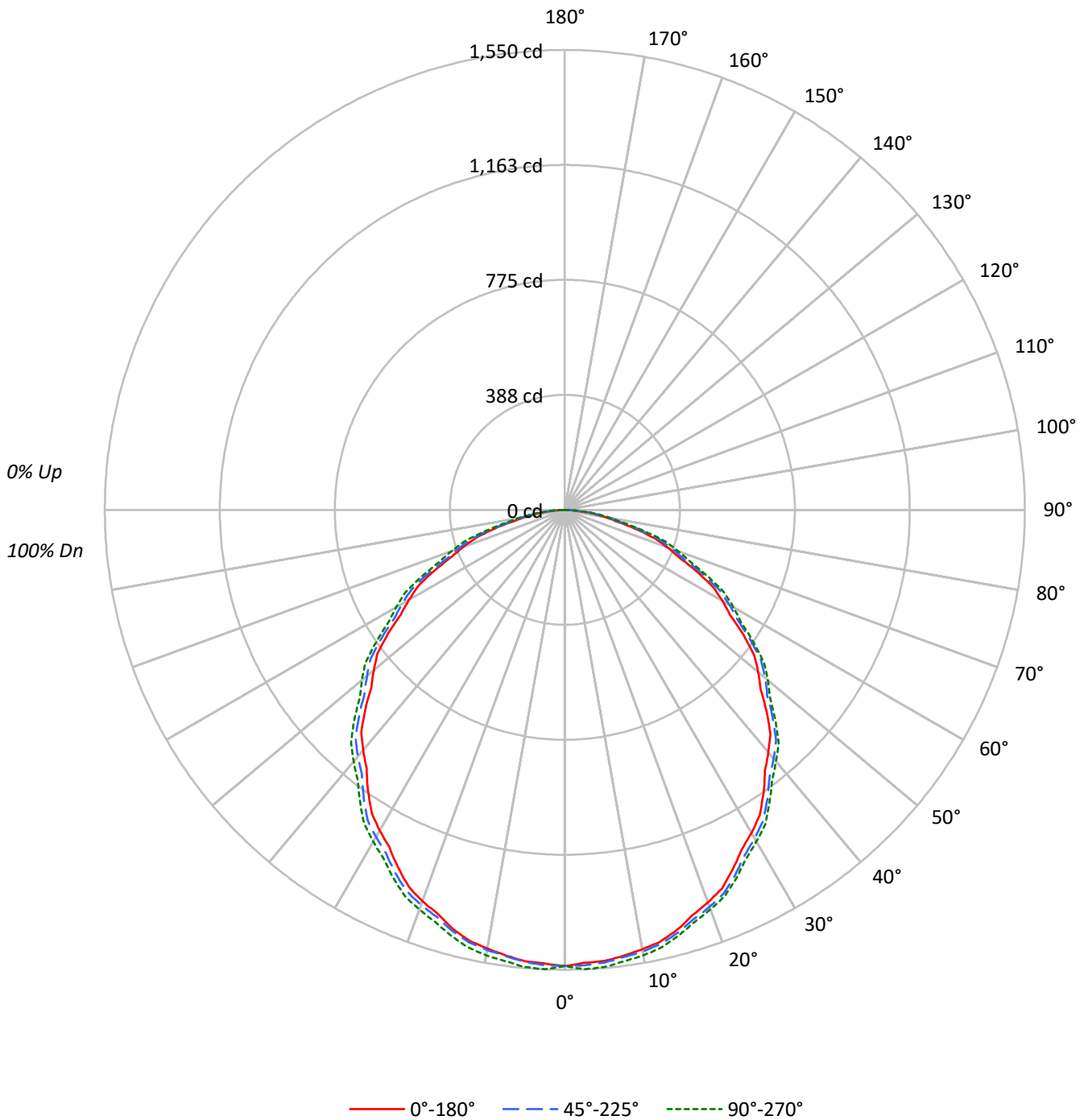
Lumens per Lamp: N/A
Luminaire Lumens: 4192.4 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

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	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	46	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	36	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°	49646	49646	49646
5°	49482	50137	49508
10°	49306	49998	49224
15°	48973	49648	48859
20°	48399	49268	48223
25°	47659	48771	47388
30°	46885	48146	46509
35°	45981	47408	45547
40°	44970	46677	44582
45°	43868	45832	43407
50°	42707	44827	42199
55°	41307	43632	40879
60°	39545	42322	39164
65°	37311	40665	37051
70°	34480	38304	34235
75°	30306	34623	30406
80°	24473	28694	25086
85°	14079	19674	16858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.5
10°-20°	414.2	9.9
20°-30°	620.7	14.8
30°-40°	738.2	17.6
40°-50°	755.9	18.0
50°-60°	674.0	16.1
60°-70°	503.5	12.0
70°-80°	275.9	6.6
80°-90°	64.6	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°	1180.2	28.2
0°-40°	1918.5	45.8
0°-60°	3348.4	79.9
0°-90°	4192.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1526	1532	1547	1530	1527	145
15°	1465	1475	1485	1468	1462	413
25°	1338	1358	1369	1351	1330	616
35°	1166	1190	1203	1182	1155	729
45°	961	991	1004	979	950	741
55°	734	762	775	754	726	655
65°	488	512	532	508	485	483
75°	243	261	278	259	244	259
85°	38	51	53	52	46	54
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°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1528.0	1535.2	1536.1	1535.1	1549.6	1535.7	1536.1	1534.6	1530.7
5°	1526.5	1528.1	1531.5	1529.4	1546.7	1528.6	1529.8	1526.5	1527.3
7.5°	1515.8	1517.0	1520.7	1516.8	1534.2	1516.6	1517.0	1513.5	1515.3
10°	1503.7	1506.2	1511.3	1506.6	1524.8	1505.8	1506.2	1502.0	1501.2
12.5°	1490.2	1491.4	1497.8	1493.1	1509.9	1491.6	1492.7	1486.5	1487.0
15°	1464.9	1469.0	1475.0	1467.8	1485.1	1467.0	1468.3	1462.4	1461.5
17.5°	1432.0	1439.3	1445.3	1438.1	1455.3	1436.7	1437.8	1429.6	1427.0
20°	1408.4	1415.0	1424.4	1417.2	1433.7	1413.1	1416.8	1403.3	1403.3
22.5°	1382.1	1386.0	1399.5	1391.6	1408.7	1388.1	1391.2	1374.3	1375.0
25°	1337.6	1343.3	1357.8	1351.4	1368.8	1347.3	1351.1	1331.6	1330.0
27.5°	1290.5	1297.3	1312.3	1306.4	1323.6	1302.3	1305.0	1283.7	1281.1
30°	1257.4	1264.9	1278.5	1274.7	1291.2	1270.6	1272.6	1250.6	1247.3
32.5°	1221.0	1229.8	1243.4	1242.9	1256.8	1238.1	1238.2	1215.5	1211.6
35°	1166.4	1174.6	1190.0	1190.3	1202.6	1183.7	1182.4	1160.3	1155.4
37.5°	1108.0	1117.4	1133.1	1135.2	1146.5	1128.8	1123.7	1101.7	1097.4
40°	1066.8	1077.6	1094.7	1097.4	1107.3	1088.4	1084.6	1062.5	1057.6
42.5°	1025.7	1036.4	1053.5	1057.6	1066.2	1050.5	1042.7	1020.7	1015.1
45°	960.6	972.1	990.9	997.0	1003.6	989.6	979.1	957.1	950.5
47.5°	894.6	905.4	925.0	933.4	937.5	925.6	914.7	891.8	884.5
50°	850.1	860.8	880.5	888.1	892.3	882.4	869.5	846.6	840.0
52.5°	803.5	814.3	833.9	842.9	846.4	837.8	825.0	802.0	795.5
55°	733.7	742.8	762.4	773.4	775.0	769.3	754.0	731.9	726.1
57.5°	660.9	669.8	689.2	701.1	703.9	698.1	681.8	659.9	654.9
60°	612.3	620.5	639.3	651.2	655.3	649.5	632.5	611.3	606.4
62.5°	563.0	570.6	588.7	601.3	606.7	600.3	582.6	562.1	557.1
65°	488.3	494.9	511.9	528.9	532.2	524.7	507.7	488.2	484.9
67.5°	414.4	419.4	435.3	452.0	456.3	448.7	431.1	414.5	410.5
70°	365.2	370.1	385.4	400.7	405.7	397.4	381.2	365.9	362.6
72.5°	315.9	320.2	335.5	349.4	354.4	347.5	331.3	317.4	314.1
75°	242.9	247.8	261.4	274.2	277.5	272.5	258.9	247.0	243.7
77.5°	174.7	177.9	189.6	199.4	202.2	198.6	188.2	177.7	176.1
80°	131.6	134.0	145.1	153.5	154.3	152.7	145.1	136.6	134.9
82.5°	91.8	94.9	105.3	112.3	110.5	111.5	105.9	98.1	97.2
85°	38.0	39.6	50.6	57.3	53.1	57.3	52.3	46.4	45.5
87.5°	4.0	4.7	8.8	16.1	14.2	17.5	14.2	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)