

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: P511833

Luminaire Tested: **SQW-F-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511833  
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-830-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

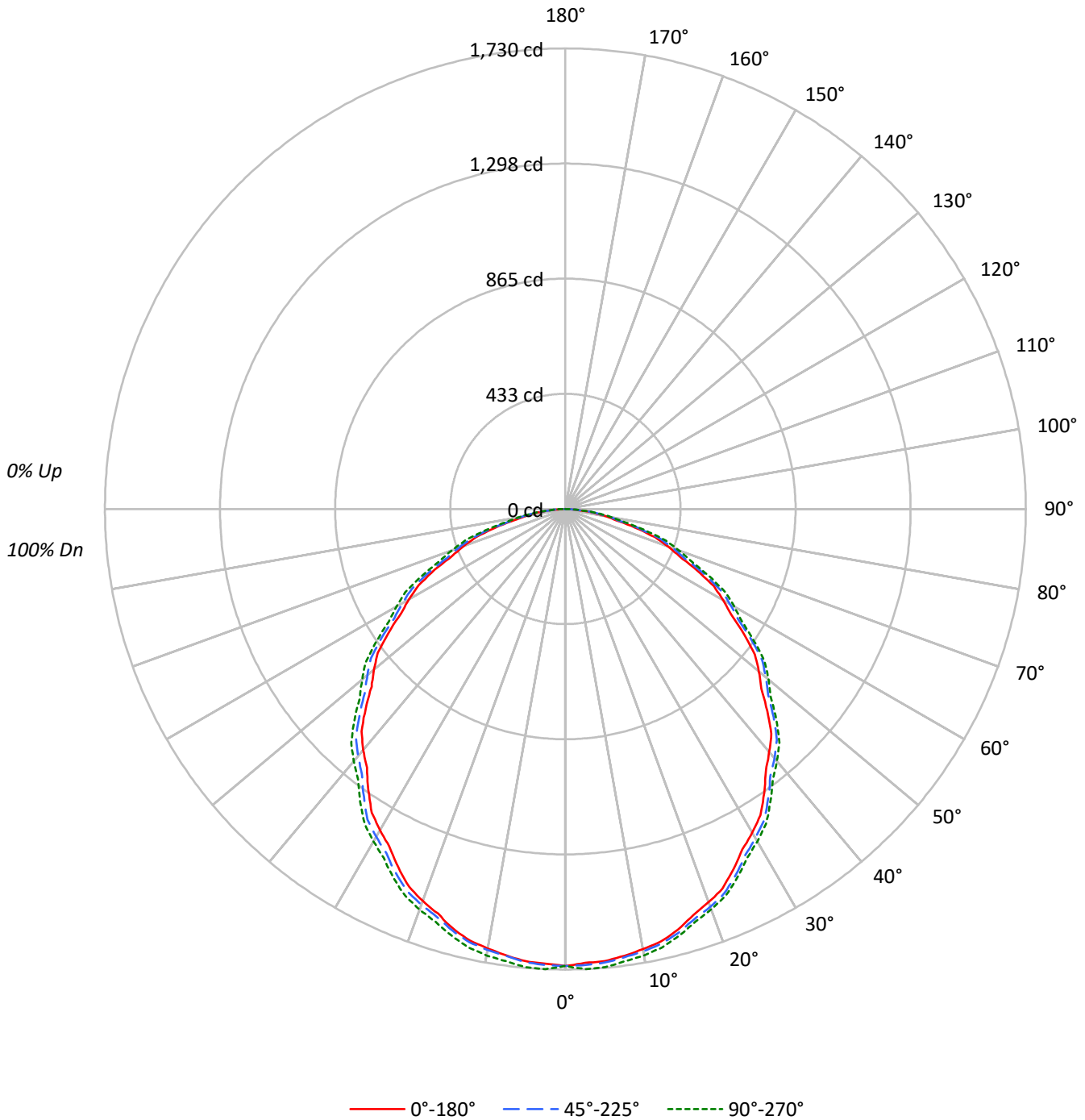
Lumens per Lamp: N/A  
Luminaire Lumens: 4681.5 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

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°	55439	55439	55439
5°	55255	55988	55284
10°	55058	55832	54966
15°	54686	55442	54559
20°	54045	55017	53852
25°	53217	54457	52914
30°	52355	53761	51934
35°	51342	52939	50861
40°	50218	52123	49780
45°	48983	51180	48467
50°	47690	50056	47123
55°	46126	48727	45647
60°	44156	47256	43730
65°	41666	45402	41376
70°	38502	42770	38229
75°	33837	38653	33961
80°	27318	32041	28024
85°	15710	21971	18859



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.3	3.5
10°-20°	462.5	9.9
20°-30°	693.1	14.8
30°-40°	824.4	17.6
40°-50°	844.1	18.0
50°-60°	752.6	16.1
60°-70°	562.2	12.0
70°-80°	308.0	6.6
80°-90°	72.1	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°	1317.9	28.2
0°-40°	2142.3	45.8
0°-60°	3739.0	79.9
0°-90°	4681.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4681.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1717	1717	1717	1717	1717	
5°	1705	1710	1727	1708	1706	162
15°	1636	1647	1658	1640	1632	461
25°	1494	1516	1528	1509	1485	688
35°	1302	1329	1343	1320	1290	814
45°	1073	1106	1121	1093	1061	827
55°	819	851	866	842	811	731
65°	545	572	594	567	542	540
75°	271	292	310	289	272	289
85°	42	56	59	58	51	61
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°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1706.3	1714.4	1715.3	1714.2	1730.4	1714.9	1715.3	1713.7	1709.3
5°	1704.6	1706.4	1710.2	1707.8	1727.2	1706.9	1708.3	1704.6	1705.5
7.5°	1692.7	1694.0	1698.2	1693.7	1713.2	1693.5	1694.0	1690.1	1692.1
10°	1679.1	1681.9	1687.6	1682.4	1702.7	1681.5	1682.0	1677.2	1676.3
12.5°	1664.1	1665.3	1672.5	1667.3	1686.1	1665.7	1666.9	1659.9	1660.5
15°	1635.8	1640.4	1647.1	1639.1	1658.4	1638.2	1639.6	1633.0	1632.0
17.5°	1599.1	1607.2	1614.0	1605.9	1625.1	1604.3	1605.5	1596.4	1593.4
20°	1572.7	1580.1	1590.6	1582.5	1601.0	1577.9	1582.1	1567.1	1567.1
22.5°	1543.3	1547.7	1562.7	1553.9	1573.1	1550.1	1553.5	1534.7	1535.4
25°	1493.6	1500.1	1516.2	1509.1	1528.4	1504.5	1508.7	1487.0	1485.1
27.5°	1441.1	1448.6	1465.4	1458.8	1478.0	1454.2	1457.3	1433.5	1430.5
30°	1404.1	1412.4	1427.7	1423.4	1441.8	1418.8	1421.1	1396.5	1392.8
32.5°	1363.5	1373.2	1388.5	1387.9	1403.4	1382.6	1382.7	1357.3	1352.9
35°	1302.4	1311.6	1328.8	1329.1	1342.9	1321.7	1320.3	1295.7	1290.2
37.5°	1237.3	1247.8	1265.3	1267.7	1280.2	1260.5	1254.8	1230.2	1225.4
40°	1191.3	1203.3	1222.4	1225.5	1236.5	1215.3	1211.1	1186.5	1180.9
42.5°	1145.3	1157.3	1176.4	1181.0	1190.6	1173.1	1164.4	1139.7	1133.5
45°	1072.6	1085.5	1106.5	1113.3	1120.7	1105.0	1093.4	1068.7	1061.3
47.5°	999.0	1011.0	1032.9	1042.2	1046.8	1033.6	1021.4	995.8	987.7
50°	949.3	961.2	983.2	991.8	996.4	985.3	970.9	945.3	938.0
52.5°	897.3	909.3	931.2	941.3	945.1	935.6	921.2	895.6	888.3
55°	819.3	829.4	851.3	863.6	865.5	859.0	841.9	817.3	810.8
57.5°	738.0	747.9	769.6	782.8	786.0	779.5	761.3	736.9	731.4
60°	683.7	692.9	713.8	727.1	731.7	725.3	706.3	682.6	677.1
62.5°	628.7	637.2	657.3	671.4	677.5	670.3	650.6	627.6	622.1
65°	545.3	552.6	571.6	590.6	594.2	586.0	566.9	545.2	541.5
67.5°	462.8	468.3	486.1	504.7	509.5	501.0	481.4	462.9	458.4
70°	407.8	413.3	430.4	447.5	453.0	443.8	425.7	408.6	404.9
72.5°	352.8	357.6	374.6	390.2	395.7	388.0	369.9	354.4	350.7
75°	271.2	276.7	291.9	306.2	309.8	304.3	289.1	275.8	272.2
77.5°	195.1	198.6	211.7	222.7	225.8	221.8	210.2	198.5	196.6
80°	146.9	149.7	162.0	171.4	172.3	170.5	162.0	152.5	150.7
82.5°	102.5	106.0	117.5	125.4	123.4	124.5	118.3	109.6	108.5
85°	42.4	44.2	56.5	63.9	59.3	63.9	58.4	51.8	50.9
87.5°	4.5	5.3	9.8	18.0	15.8	19.5	15.8	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)