

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: P511835

Luminaire Tested: **SQW-F-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511835  
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-840-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

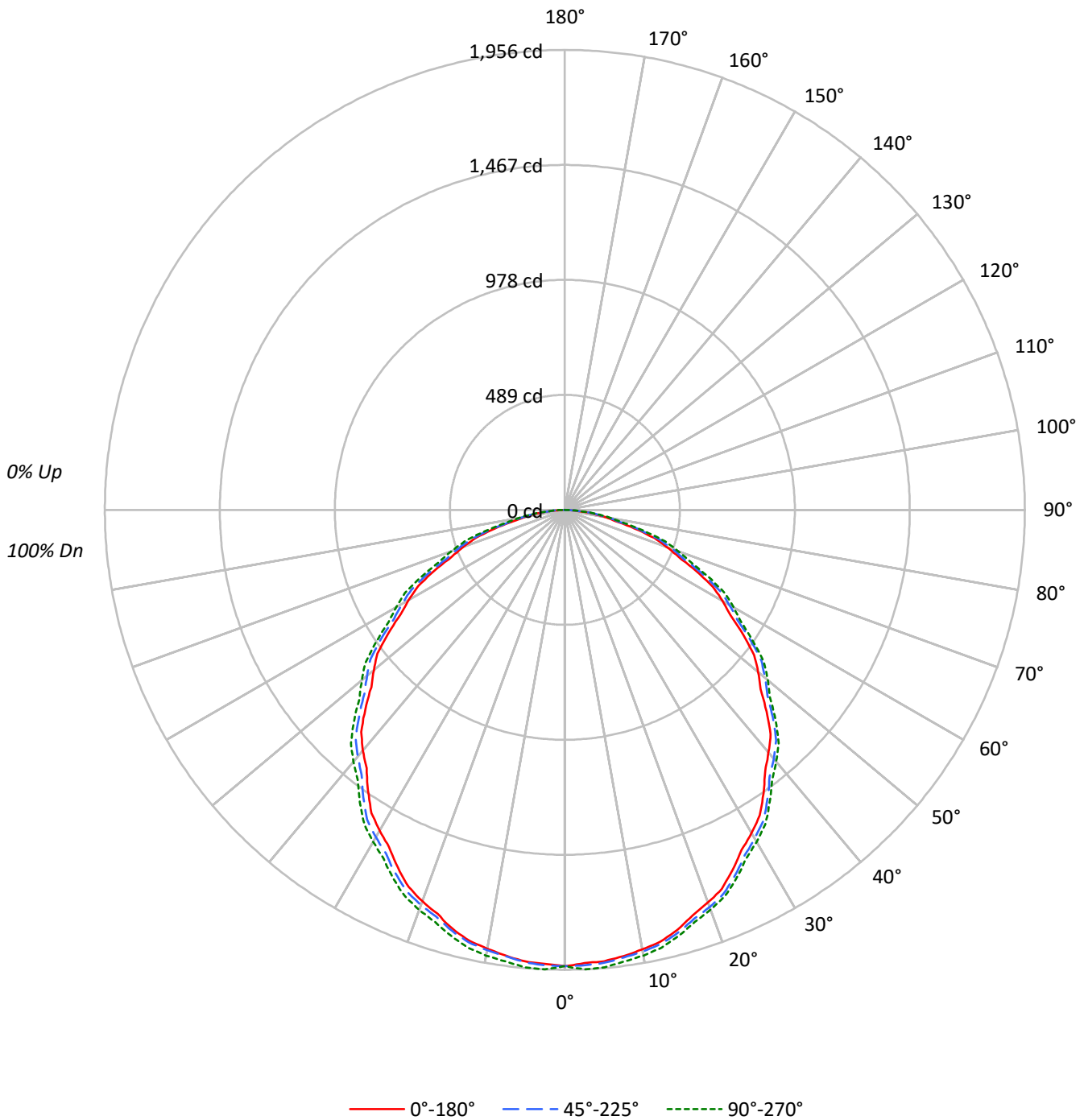
Lumens per Lamp: N/A  
Luminaire Lumens: 5292.9 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

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°	62679	62679	62679
5°	62471	63297	62503
10°	62249	63121	62144
15°	61827	62683	61687
20°	61103	62203	60883
25°	60169	61572	59827
30°	59194	60782	58717
35°	58048	59853	57504
40°	56777	58931	56284
45°	55381	57861	54801
50°	53920	56592	53277
55°	52150	55089	51609
60°	49923	53430	49439
65°	47106	51332	46778
70°	43525	48350	43223
75°	38253	43706	38391
80°	30888	36225	31688
85°	17747	24861	21304



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	3.5
10°-20°	522.9	9.9
20°-30°	783.7	14.8
30°-40°	932.0	17.6
40°-50°	954.4	18.0
50°-60°	850.9	16.1
60°-70°	635.7	12.0
70°-80°	348.3	6.6
80°-90°	81.6	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°	1490.0	28.2
0°-40°	2422.1	45.8
0°-60°	4227.4	79.9
0°-90°	5292.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5292.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1941	1941	1941	1941	1941	
5°	1927	1934	1953	1931	1928	183
15°	1849	1862	1875	1854	1845	521
25°	1689	1714	1728	1706	1679	778
35°	1472	1502	1518	1493	1459	920
45°	1213	1251	1267	1236	1200	935
55°	926	962	978	952	917	827
65°	616	646	672	641	612	610
75°	307	330	350	327	308	327
85°	48	64	67	66	58	68
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°	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1929.1	1938.3	1939.3	1938.0	1956.3	1938.9	1939.3	1937.5	1932.5
5°	1927.2	1929.3	1933.6	1930.9	1952.7	1929.8	1931.4	1927.2	1928.2
7.5°	1913.8	1915.2	1919.9	1914.9	1937.0	1914.7	1915.3	1910.8	1913.1
10°	1898.4	1901.6	1908.0	1902.1	1925.0	1901.1	1901.6	1896.3	1895.2
12.5°	1881.4	1882.8	1891.0	1885.1	1906.3	1883.2	1884.6	1876.7	1877.3
15°	1849.4	1854.7	1862.2	1853.1	1875.0	1852.1	1853.7	1846.2	1845.2
17.5°	1807.9	1817.1	1824.7	1815.7	1837.3	1813.8	1815.2	1804.9	1801.5
20°	1778.1	1786.4	1798.3	1789.2	1810.1	1784.0	1788.8	1771.7	1771.7
22.5°	1744.9	1749.9	1766.8	1756.9	1778.5	1752.5	1756.4	1735.1	1735.9
25°	1688.7	1696.0	1714.2	1706.2	1728.1	1701.0	1705.7	1681.2	1679.1
27.5°	1629.3	1637.8	1656.7	1649.3	1671.0	1644.1	1647.6	1620.7	1617.3
30°	1587.5	1596.9	1614.1	1609.3	1630.1	1604.1	1606.7	1578.9	1574.7
32.5°	1541.5	1552.6	1569.8	1569.2	1586.7	1563.1	1563.2	1534.6	1529.6
35°	1472.5	1482.9	1502.3	1502.7	1518.3	1494.4	1492.8	1464.9	1458.7
37.5°	1398.9	1410.7	1430.6	1433.2	1447.4	1425.1	1418.7	1390.9	1385.4
40°	1346.9	1360.4	1382.0	1385.5	1398.0	1374.1	1369.3	1341.4	1335.2
42.5°	1294.9	1308.5	1330.1	1335.2	1346.0	1326.3	1316.4	1288.6	1281.5
45°	1212.7	1227.3	1251.1	1258.7	1267.0	1249.3	1236.2	1208.3	1200.0
47.5°	1129.5	1143.0	1167.8	1178.4	1183.6	1168.6	1154.8	1125.9	1116.7
50°	1073.3	1086.8	1111.6	1121.3	1126.5	1114.0	1097.7	1068.8	1060.5
52.5°	1014.5	1028.0	1052.8	1064.2	1068.6	1057.7	1041.5	1012.6	1004.3
55°	926.3	937.8	962.5	976.4	978.5	971.2	951.9	924.0	916.7
57.5°	834.3	845.6	870.1	885.1	888.6	881.3	860.7	833.1	826.9
60°	773.0	783.4	807.1	822.1	827.3	820.0	798.6	771.8	765.5
62.5°	710.8	720.4	743.2	759.1	766.0	757.9	735.5	709.6	703.4
65°	616.5	624.8	646.3	667.7	671.8	662.5	641.0	616.4	612.2
67.5°	523.2	529.5	549.6	570.6	576.0	566.4	544.3	523.3	518.3
70°	461.0	467.3	486.6	505.9	512.1	501.7	481.3	462.0	457.8
72.5°	398.9	404.3	423.6	441.2	447.4	438.7	418.2	400.7	396.5
75°	306.6	312.9	330.1	346.1	350.3	344.1	326.9	311.9	307.7
77.5°	220.6	224.6	239.4	251.8	255.3	250.7	237.6	224.4	222.3
80°	166.1	169.2	183.1	193.8	194.8	192.8	183.1	172.4	170.4
82.5°	115.8	119.8	132.9	141.8	139.5	140.7	133.7	123.9	122.7
85°	47.9	50.0	63.9	72.3	67.1	72.3	66.0	58.5	57.5
87.5°	5.1	5.9	11.1	20.4	17.9	22.1	17.9	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)