

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: P522441

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522441  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

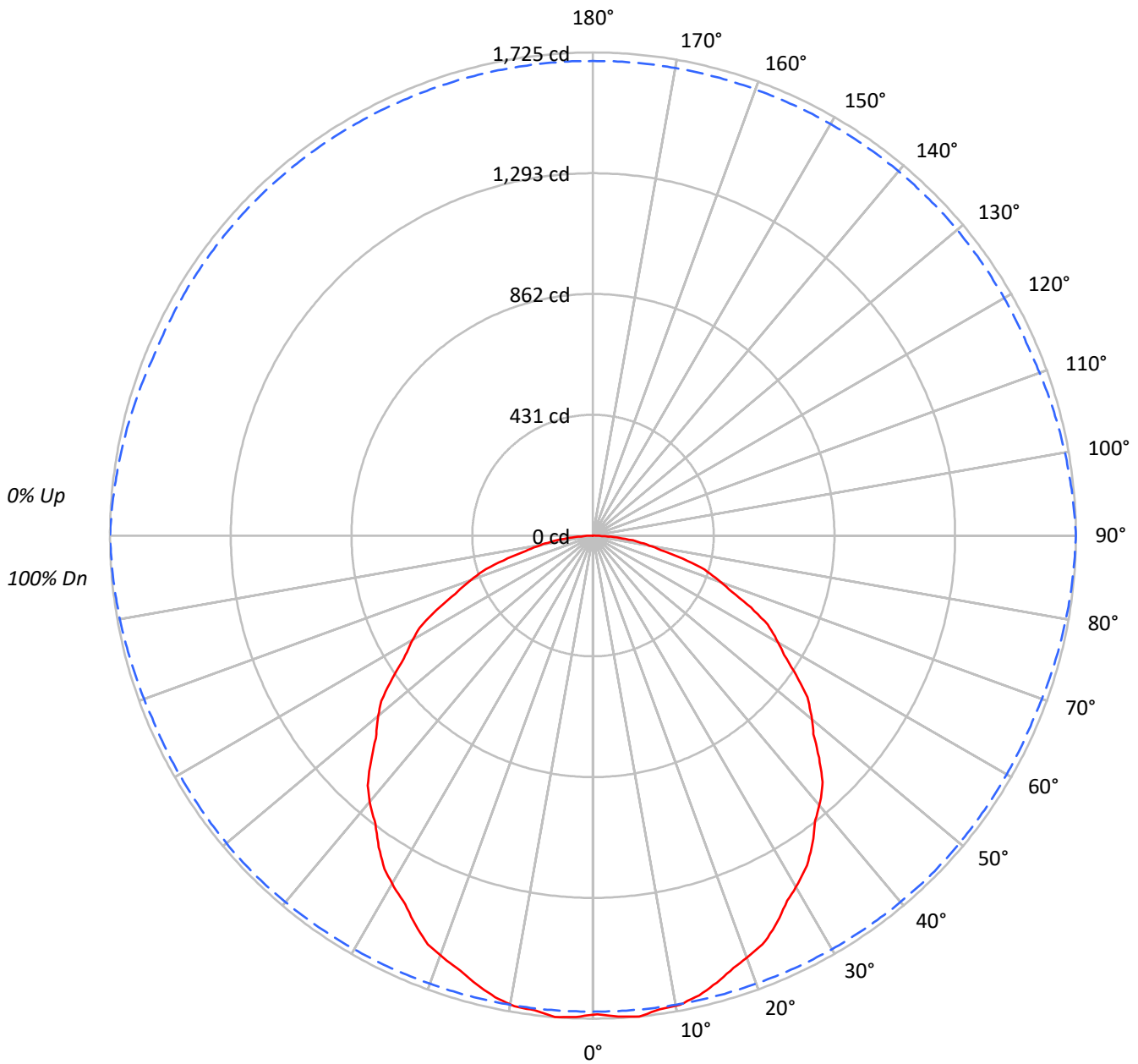
Lumens per Lamp: N/A  
Luminaire Lumens: 4770.2 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 59.2  
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



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 5° Vertical



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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				
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	27593	27593	27593
5°	27540	27951	27460
10°	27586	27922	27234
15°	27554	27686	27244
20°	27283	27484	26663
25°	26861	27227	26306
30°	26690	26892	25963
35°	26274	26621	25332
40°	25914	26346	25029
45°	25398	25843	24395
50°	24825	25387	23893
55°	24192	24769	23037
60°	23431	24312	22294
65°	22384	23690	21005
70°	21158	22405	19733
75°	19370	20711	17792
80°	16709	17982	15072
85°	11949	13931	10485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	3.4
10°-20°	461.9	9.7
20°-30°	695.0	14.6
30°-40°	830.2	17.4
40°-50°	853.1	17.9
50°-60°	766.8	16.1
60°-70°	582.9	12.2
70°-80°	332.1	7.0
80°-90°	86.5	1.8
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°	1318.6	27.6
0°-40°	2148.8	45.0
0°-60°	3768.7	79.0
0°-90°	4770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1709	1709	1709	1709	1709	
5°	1699	1710	1725	1698	1694	162
15°	1648	1643	1656	1638	1630	464
25°	1508	1533	1528	1509	1477	697
35°	1333	1352	1351	1320	1285	833
45°	1112	1125	1132	1096	1068	855
55°	859	877	880	841	818	766
65°	586	600	620	579	550	579
75°	310	321	332	305	285	328
85°	64	77	75	67	57	81
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°	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1706.6	1705.1	1712.1	1704.6	1719.1	1711.5	1706.6	1709.4	1694.1
5°	1699.2	1703.0	1710.0	1703.6	1724.6	1694.1	1698.2	1695.3	1694.3
7.5°	1693.6	1696.6	1694.7	1690.8	1707.8	1688.3	1686.5	1680.2	1678.3
10°	1682.6	1686.4	1680.7	1683.1	1703.1	1674.5	1674.8	1659.2	1661.1
12.5°	1662.3	1670.7	1669.0	1660.5	1684.4	1660.3	1665.4	1654.4	1650.2
15°	1648.4	1639.8	1642.6	1644.8	1656.3	1629.5	1637.7	1624.2	1629.9
17.5°	1619.1	1613.8	1615.6	1609.9	1623.1	1595.6	1600.0	1589.2	1585.4
20°	1587.9	1587.9	1589.8	1587.2	1599.6	1572.9	1574.2	1555.6	1551.8
22.5°	1564.5	1560.6	1571.1	1562.9	1573.8	1547.9	1547.7	1524.6	1533.0
25°	1507.8	1512.6	1533.2	1515.0	1528.3	1495.9	1508.8	1483.3	1476.6
27.5°	1464.5	1466.0	1477.3	1467.4	1476.8	1451.7	1463.3	1431.0	1421.5
30°	1431.6	1427.8	1449.2	1433.8	1442.4	1424.2	1425.8	1390.7	1392.6
32.5°	1386.3	1387.1	1410.9	1400.1	1404.1	1379.9	1384.4	1359.1	1348.8
35°	1333.0	1333.0	1352.5	1341.0	1350.6	1321.0	1320.3	1293.8	1285.2
37.5°	1270.9	1264.8	1288.5	1282.4	1289.8	1262.3	1252.7	1227.6	1222.7
40°	1229.5	1225.7	1243.2	1239.5	1250.0	1223.3	1209.0	1185.6	1187.5
42.5°	1176.4	1180.2	1194.7	1196.4	1202.3	1173.3	1164.5	1137.9	1139.8
45°	1112.3	1110.4	1125.0	1124.2	1131.8	1107.0	1095.7	1064.5	1068.4
47.5°	1032.8	1035.5	1051.2	1049.5	1060.0	1037.8	1019.7	998.9	994.1
50°	988.3	990.2	1002.0	1004.1	1010.7	987.8	973.6	952.1	951.2
52.5°	934.4	932.5	949.6	954.0	959.2	942.4	924.4	899.7	896.5
55°	859.4	860.3	877.0	883.7	879.9	868.4	840.8	816.5	818.4
57.5°	777.2	784.2	792.0	803.7	804.5	786.0	768.0	744.3	740.4
60°	725.6	726.5	741.2	752.9	752.9	732.9	710.9	690.4	690.4
62.5°	667.0	671.8	684.2	695.2	700.6	684.4	657.0	635.7	634.2
65°	585.9	586.9	599.6	614.4	620.1	598.2	579.1	554.6	549.8
67.5°	502.2	506.2	516.4	528.1	534.8	511.1	491.0	471.9	473.4
70°	448.2	449.2	457.0	471.7	474.6	455.5	435.5	418.0	418.0
72.5°	389.6	396.0	402.3	415.5	417.6	400.8	384.8	367.9	364.1
75°	310.5	315.3	321.3	329.2	332.0	317.7	304.7	289.9	285.2
77.5°	232.0	236.6	246.7	247.8	247.3	237.3	227.1	216.1	211.3
80°	179.7	183.5	194.3	196.2	193.4	185.7	174.8	166.9	162.1
82.5°	130.5	137.3	145.1	147.0	143.4	139.5	130.3	120.8	116.8
85°	64.5	68.3	77.1	80.9	75.2	73.3	67.4	59.5	56.6
87.5°	12.5	15.6	23.4	28.8	21.9	25.7	19.5	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)