

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: P511834

Luminaire Tested: **SQW-F-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511834
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-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

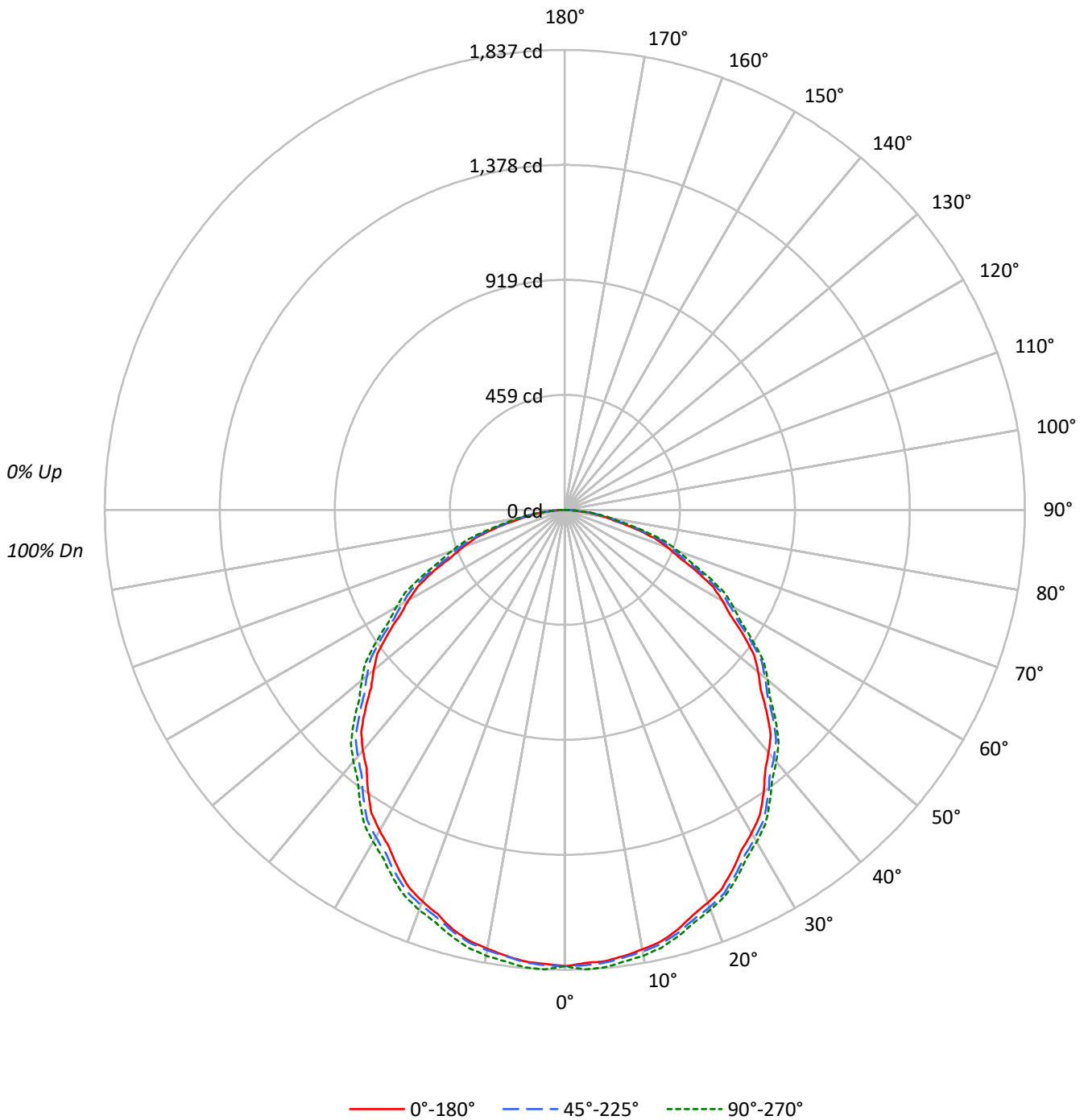
Lumens per Lamp: N/A
Luminaire Lumens: 4971.1 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

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°	58868	58868	58868
5°	58672	59450	58704
10°	58465	59284	58366
15°	58070	58872	57936
20°	57388	58419	57182
25°	56509	57828	56189
30°	55596	57087	55148
35°	54519	56214	54007
40°	53325	55348	52861
45°	52015	54344	51467
50°	50639	53151	50036
55°	48980	51739	48474
60°	46888	50182	46436
65°	44241	48214	43935
70°	40882	45414	40599
75°	35933	41048	36057
80°	29010	34031	29754
85°	16673	23342	20007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.5
10°-20°	491.1	9.9
20°-30°	736.0	14.8
30°-40°	875.4	17.6
40°-50°	896.3	18.0
50°-60°	799.2	16.1
60°-70°	597.0	12.0
70°-80°	327.1	6.6
80°-90°	76.6	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°	1399.5	28.2
0°-40°	2274.8	45.8
0°-60°	3970.4	79.9
0°-90°	4971.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1823	1823	1823	1823	1823	
5°	1810	1816	1834	1814	1811	172
15°	1737	1749	1761	1741	1733	489
25°	1586	1610	1623	1602	1577	730
35°	1383	1411	1426	1402	1370	864
45°	1139	1175	1190	1161	1127	878
55°	870	904	919	894	861	776
65°	579	607	631	602	575	573
75°	288	310	329	307	289	307
85°	45	60	63	62	54	64
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°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1811.8	1820.4	1821.4	1820.2	1837.4	1821.0	1821.4	1819.7	1815.0
5°	1810.0	1812.0	1816.0	1813.5	1834.0	1812.5	1814.0	1810.0	1811.0
7.5°	1797.4	1798.8	1803.2	1798.5	1819.2	1798.3	1798.8	1794.6	1796.8
10°	1783.0	1785.9	1792.0	1786.5	1808.0	1785.5	1786.0	1781.0	1780.0
12.5°	1767.0	1768.4	1776.0	1770.5	1790.4	1768.7	1770.0	1762.6	1763.2
15°	1737.0	1741.9	1749.0	1740.5	1761.0	1739.5	1741.0	1734.0	1733.0
17.5°	1698.0	1706.6	1713.8	1705.3	1725.6	1703.5	1704.8	1695.1	1692.0
20°	1670.0	1677.8	1689.0	1680.4	1700.0	1675.6	1680.0	1664.0	1664.0
22.5°	1638.8	1643.5	1659.4	1650.1	1670.4	1646.0	1649.6	1629.6	1630.4
25°	1586.0	1592.8	1610.0	1602.5	1623.0	1597.6	1602.0	1579.0	1577.0
27.5°	1530.2	1538.2	1556.0	1549.1	1569.4	1544.2	1547.4	1522.1	1519.0
30°	1491.0	1499.8	1516.0	1511.4	1531.0	1506.6	1509.0	1482.9	1479.0
32.5°	1447.8	1458.2	1474.4	1473.8	1490.2	1468.1	1468.2	1441.3	1436.6
35°	1383.0	1392.8	1411.0	1411.3	1426.0	1403.5	1402.0	1375.9	1370.0
37.5°	1313.8	1324.9	1343.6	1346.1	1359.4	1338.5	1332.4	1306.3	1301.2
40°	1265.0	1277.7	1298.0	1301.3	1313.0	1290.5	1286.0	1259.9	1254.0
42.5°	1216.2	1228.9	1249.2	1254.0	1264.2	1245.6	1236.4	1210.2	1203.6
45°	1139.0	1152.7	1175.0	1182.2	1190.0	1173.4	1161.0	1134.8	1127.0
47.5°	1060.8	1073.5	1096.8	1106.7	1111.6	1097.5	1084.6	1057.4	1048.8
50°	1008.0	1020.7	1044.0	1053.1	1058.0	1046.3	1031.0	1003.8	996.0
52.5°	952.8	965.5	988.8	999.5	1003.6	993.4	978.2	951.0	943.2
55°	870.0	880.8	904.0	917.0	919.0	912.2	894.0	867.8	861.0
57.5°	783.6	794.2	817.2	831.3	834.6	827.8	808.4	782.5	776.6
60°	726.0	735.8	758.0	772.1	777.0	770.2	750.0	724.9	719.0
62.5°	667.6	676.6	698.0	712.9	719.4	711.8	690.8	666.5	660.6
65°	579.0	586.8	607.0	627.1	631.0	622.2	602.0	578.9	575.0
67.5°	491.4	497.3	516.2	535.9	541.0	532.0	511.2	491.5	486.8
70°	433.0	438.9	457.0	475.1	481.0	471.2	452.0	433.9	430.0
72.5°	374.6	379.7	397.8	414.3	420.2	412.0	392.8	376.3	372.4
75°	288.0	293.9	310.0	325.1	329.0	323.1	307.0	292.9	289.0
77.5°	207.2	210.9	224.8	236.5	239.8	235.5	223.2	210.8	208.8
80°	156.0	158.9	172.0	182.0	183.0	181.0	172.0	162.0	160.0
82.5°	108.8	112.5	124.8	133.2	131.0	132.2	125.6	116.4	115.2
85°	45.0	47.0	60.0	67.9	63.0	67.9	62.0	55.0	54.0
87.5°	4.8	5.6	10.4	19.1	16.8	20.7	16.8	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)