

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: P522584

Luminaire Tested: **SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522584
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

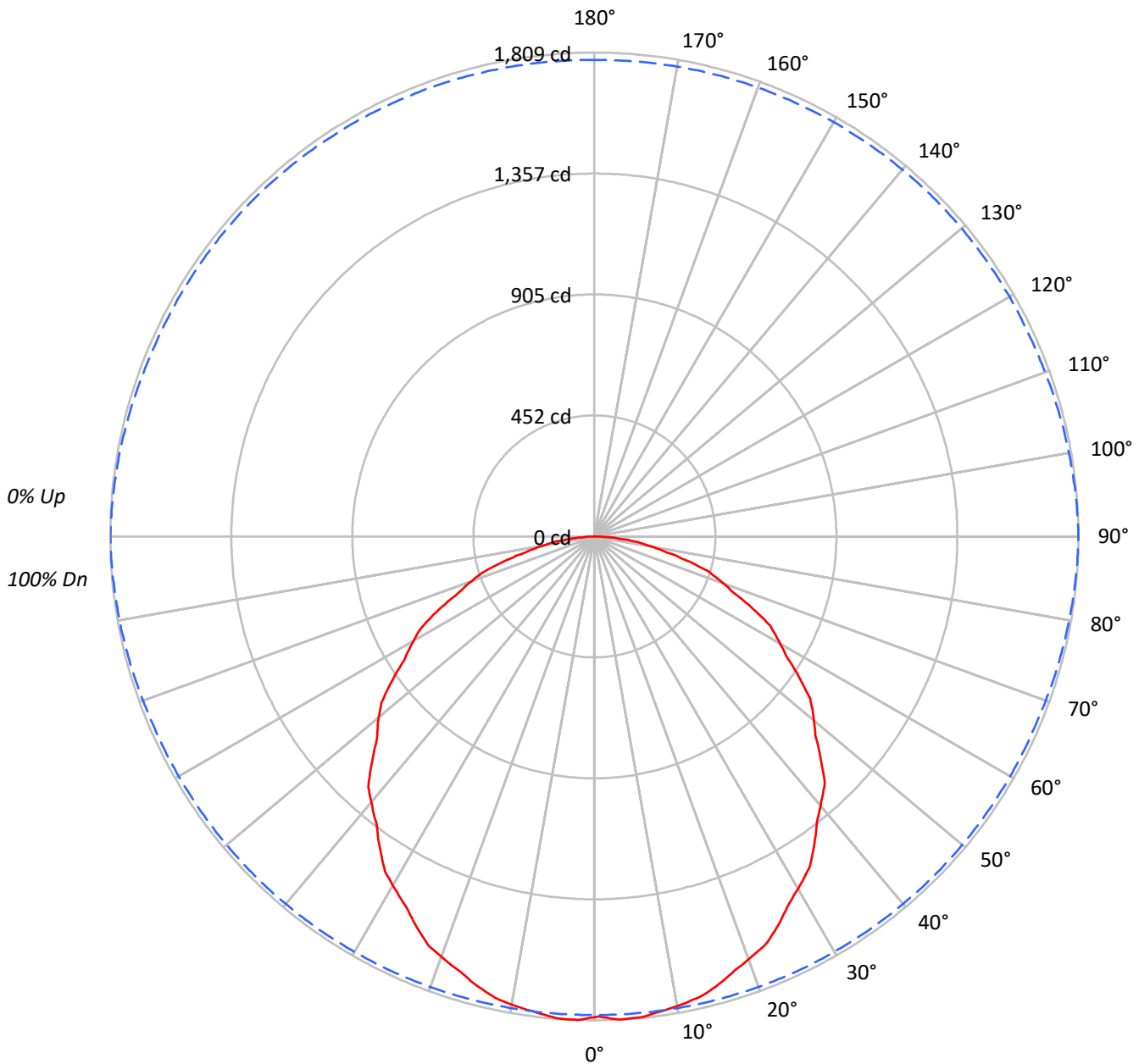
Lumens per Lamp: N/A
Luminaire Lumens: 5014.1 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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 2.5° 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	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	73	79	75	72	70
3	90	79	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	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28982	28982	28982
5°	29060	29287	28801
10°	29019	29199	28609
15°	28951	29068	28433
20°	28711	28849	28075
25°	28379	28575	27578
30°	28021	28226	27108
35°	27693	27910	26530
40°	27210	27526	26030
45°	26715	27104	25345
50°	26349	26676	24767
55°	25700	26123	23927
60°	24961	25543	22992
65°	24031	24909	21815
70°	22801	23604	20535
75°	21210	21959	18528
80°	18038	19061	15435
85°	13709	14820	10559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	3.4
10°-20°	485.0	9.7
20°-30°	729.4	14.5
30°-40°	871.3	17.4
40°-50°	896.1	17.9
50°-60°	806.7	16.1
60°-70°	614.4	12.3
70°-80°	350.2	7.0
80°-90°	91.2	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°	1384.1	27.6
0°-40°	2255.4	45.0
0°-60°	3958.2	78.9
0°-90°	5014.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1793	1792	1807	1781	1777	170
15°	1732	1732	1739	1710	1701	488
25°	1593	1607	1604	1574	1548	734
35°	1405	1421	1416	1382	1346	877
45°	1170	1185	1187	1144	1110	904
55°	913	924	928	881	850	816
65°	629	641	652	602	571	622
75°	340	347	352	313	297	358
85°	74	86	80	68	57	90
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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1789.4	1793.3	1795.0	1793.8	1809.4	1791.4	1791.8	1786.9	1781.4
5°	1793.0	1791.0	1792.0	1788.4	1807.0	1783.5	1781.0	1776.0	1777.0
7.5°	1781.2	1779.8	1780.6	1775.4	1793.0	1769.3	1767.4	1762.2	1761.8
10°	1770.0	1767.1	1771.0	1763.4	1781.0	1756.6	1753.0	1747.0	1745.0
12.5°	1757.2	1753.5	1758.2	1749.0	1765.8	1739.0	1738.6	1730.2	1729.0
15°	1732.0	1732.0	1732.0	1724.3	1739.0	1711.6	1710.0	1701.0	1701.0
17.5°	1696.6	1697.4	1702.6	1692.5	1704.6	1678.2	1674.8	1664.2	1662.8
20°	1671.0	1671.0	1681.0	1665.3	1679.0	1652.6	1650.0	1633.0	1634.0
22.5°	1640.6	1640.6	1653.0	1638.9	1651.0	1624.6	1621.2	1601.0	1602.0
25°	1593.0	1591.0	1607.0	1593.2	1604.0	1577.6	1574.0	1550.0	1548.0
27.5°	1539.8	1541.6	1557.0	1542.6	1552.4	1523.7	1524.6	1495.9	1492.4
30°	1503.0	1504.0	1521.0	1508.1	1514.0	1487.6	1487.0	1456.0	1454.0
32.5°	1464.6	1464.8	1482.6	1467.4	1476.4	1449.2	1445.4	1415.9	1413.2
35°	1405.0	1404.0	1421.0	1410.1	1416.0	1387.6	1382.0	1354.8	1346.0
37.5°	1337.4	1338.2	1354.2	1347.9	1351.6	1324.4	1313.4	1286.3	1283.0
40°	1291.0	1291.0	1307.0	1303.1	1306.0	1279.6	1267.0	1239.9	1235.0
42.5°	1243.0	1244.6	1259.0	1256.0	1262.8	1234.1	1218.2	1192.7	1186.2
45°	1170.0	1172.9	1185.0	1182.1	1187.0	1162.6	1144.0	1116.8	1110.0
47.5°	1101.0	1098.1	1111.6	1109.8	1111.6	1087.7	1069.2	1041.1	1035.6
50°	1049.0	1046.1	1058.0	1061.0	1062.0	1036.6	1018.0	989.9	986.0
52.5°	995.4	992.5	1005.2	1009.8	1010.0	986.1	964.4	937.9	934.0
55°	913.0	908.1	924.0	930.0	928.0	907.5	881.0	857.8	850.0
57.5°	829.8	829.2	842.8	848.2	847.0	826.7	800.4	776.8	768.8
60°	773.0	770.1	786.0	793.0	791.0	771.4	742.0	720.8	712.0
62.5°	716.2	716.4	730.0	736.2	738.2	714.7	687.6	663.3	656.8
65°	629.0	625.1	641.0	647.1	652.0	627.6	602.0	577.8	571.0
67.5°	541.4	538.5	549.4	556.5	560.8	538.9	514.0	493.9	491.0
70°	483.0	480.1	491.0	498.0	500.0	480.4	454.0	437.9	435.0
72.5°	425.4	422.5	431.0	438.1	442.4	421.3	396.4	381.0	374.2
75°	340.0	338.0	347.0	347.1	352.0	331.5	313.0	298.0	297.0
77.5°	254.8	256.2	262.6	263.0	264.2	248.9	234.4	217.4	216.4
80°	194.0	200.8	205.0	207.0	205.0	195.2	180.0	167.0	166.0
82.5°	143.6	148.9	157.0	155.7	152.2	144.8	132.8	120.6	119.6
85°	74.0	78.9	86.0	85.9	80.0	76.1	68.0	58.0	57.0
87.5°	17.6	20.7	28.0	30.3	24.8	25.6	17.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)