

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: P522586

Luminaire Tested: **SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522586
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 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

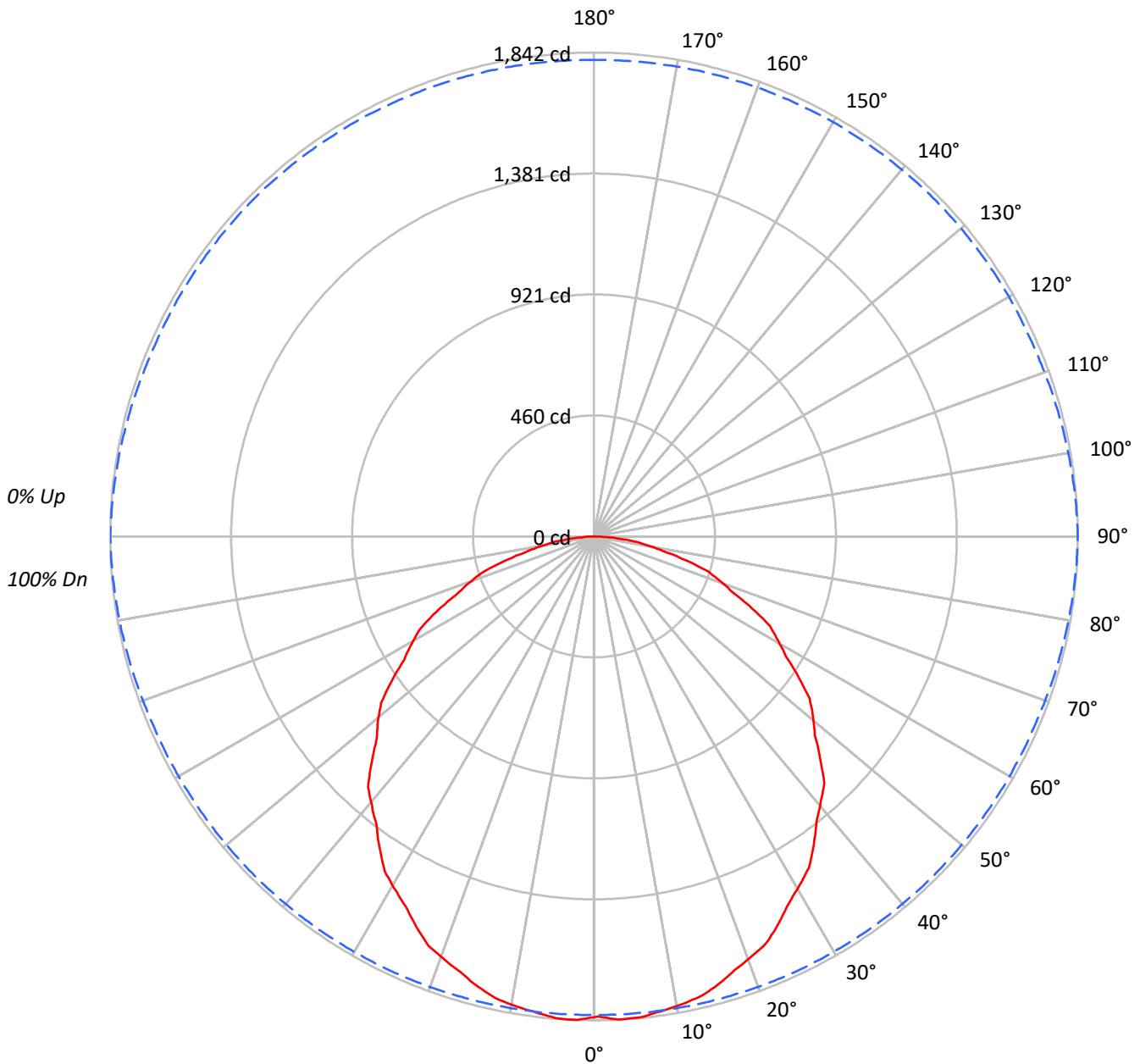
Lumens per Lamp: N/A
Luminaire Lumens: 5103.2 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	29497	29497	29497
5°	29577	29807	29313
10°	29535	29719	29117
15°	29466	29585	28938
20°	29222	29362	28575
25°	28883	29083	28067
30°	28519	28728	27591
35°	28186	28407	27001
40°	27695	28015	26494
45°	27190	27585	25795
50°	26819	27151	25206
55°	26156	26587	24352
60°	25404	25998	23402
65°	24458	25352	22204
70°	23207	24024	20899
75°	21584	22352	18858
80°	18354	19396	15714
85°	13950	15080	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.4
10°-20°	493.6	9.7
20°-30°	742.3	14.5
30°-40°	886.8	17.4
40°-50°	912.0	17.9
50°-60°	821.0	16.1
60°-70°	625.4	12.3
70°-80°	356.5	7.0
80°-90°	92.8	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°	1408.7	27.6
0°-40°	2295.5	45.0
0°-60°	4028.6	78.9
0°-90°	5103.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1825	1824	1839	1813	1809	173
15°	1763	1763	1770	1740	1731	497
25°	1621	1636	1632	1602	1576	747
35°	1430	1446	1441	1407	1370	893
45°	1191	1206	1208	1164	1130	920
55°	929	940	944	897	865	830
65°	640	652	664	613	581	633
75°	346	353	358	319	302	365
85°	75	88	81	69	58	92
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°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1821.2	1825.2	1826.9	1825.7	1841.6	1823.3	1823.7	1818.7	1813.1
5°	1824.9	1822.9	1823.9	1820.2	1839.1	1815.3	1812.7	1807.6	1808.6
7.5°	1812.9	1811.5	1812.3	1807.0	1824.9	1800.8	1798.8	1793.5	1793.1
10°	1801.5	1798.5	1802.5	1794.8	1812.7	1787.8	1784.2	1778.0	1776.0
12.5°	1788.4	1784.7	1789.5	1780.1	1797.2	1769.9	1769.5	1760.9	1759.7
15°	1762.8	1762.8	1762.8	1755.0	1769.9	1742.1	1740.4	1731.2	1731.2
17.5°	1726.8	1727.6	1732.9	1722.6	1734.9	1708.0	1704.6	1693.8	1692.4
20°	1700.7	1700.7	1710.9	1694.9	1708.9	1682.0	1679.3	1662.1	1663.1
22.5°	1669.8	1669.8	1682.4	1668.0	1680.4	1653.5	1650.0	1629.5	1630.5
25°	1621.3	1619.3	1635.6	1621.6	1632.5	1605.7	1602.0	1577.5	1575.5
27.5°	1567.2	1569.0	1584.7	1570.1	1580.0	1550.7	1551.7	1522.5	1518.9
30°	1529.7	1530.7	1548.0	1535.0	1540.9	1514.1	1513.4	1481.8	1479.9
32.5°	1490.6	1490.8	1509.0	1493.5	1502.7	1475.0	1471.1	1441.1	1438.3
35°	1430.0	1429.0	1446.3	1435.2	1441.2	1412.3	1406.6	1378.9	1369.9
37.5°	1361.2	1362.0	1378.3	1371.9	1375.6	1348.0	1336.8	1309.2	1305.8
40°	1314.0	1314.0	1330.2	1326.2	1329.2	1302.4	1289.5	1261.9	1257.0
42.5°	1265.1	1266.7	1281.4	1278.3	1285.3	1256.0	1239.9	1213.9	1207.3
45°	1190.8	1193.8	1206.1	1203.1	1208.1	1183.2	1164.3	1136.7	1129.7
47.5°	1120.6	1117.6	1131.4	1129.6	1131.4	1107.1	1088.2	1059.6	1054.0
50°	1067.7	1064.7	1076.8	1079.9	1080.9	1055.0	1036.1	1007.5	1003.5
52.5°	1013.1	1010.1	1023.1	1027.8	1028.0	1003.7	981.6	954.6	950.6
55°	929.2	924.3	940.4	946.5	944.5	923.6	896.7	873.1	865.1
57.5°	844.6	844.0	857.8	863.3	862.1	841.4	814.6	790.6	782.5
60°	786.7	783.8	800.0	807.1	805.1	785.2	755.2	733.6	724.7
62.5°	728.9	729.1	743.0	749.3	751.3	727.4	699.8	675.0	668.5
65°	640.2	636.2	652.4	658.6	663.6	638.7	612.7	588.1	581.2
67.5°	551.0	548.0	559.2	566.4	570.8	548.5	523.1	502.7	499.7
70°	491.6	488.6	499.7	506.9	508.9	489.0	462.1	445.7	442.7
72.5°	433.0	430.0	438.7	445.9	450.3	428.8	403.4	387.8	380.9
75°	346.0	344.1	353.2	353.3	358.3	337.4	318.6	303.3	302.3
77.5°	259.3	260.7	267.3	267.7	268.9	253.4	238.6	221.2	220.2
80°	197.4	204.4	208.6	210.6	208.6	198.7	183.2	169.9	169.0
82.5°	146.2	151.5	159.8	158.5	154.9	147.3	135.2	122.7	121.7
85°	75.3	80.3	87.5	87.4	81.4	77.4	69.2	59.0	58.0
87.5°	17.9	21.1	28.5	30.8	25.2	26.0	17.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)