

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: P522443

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522443
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 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

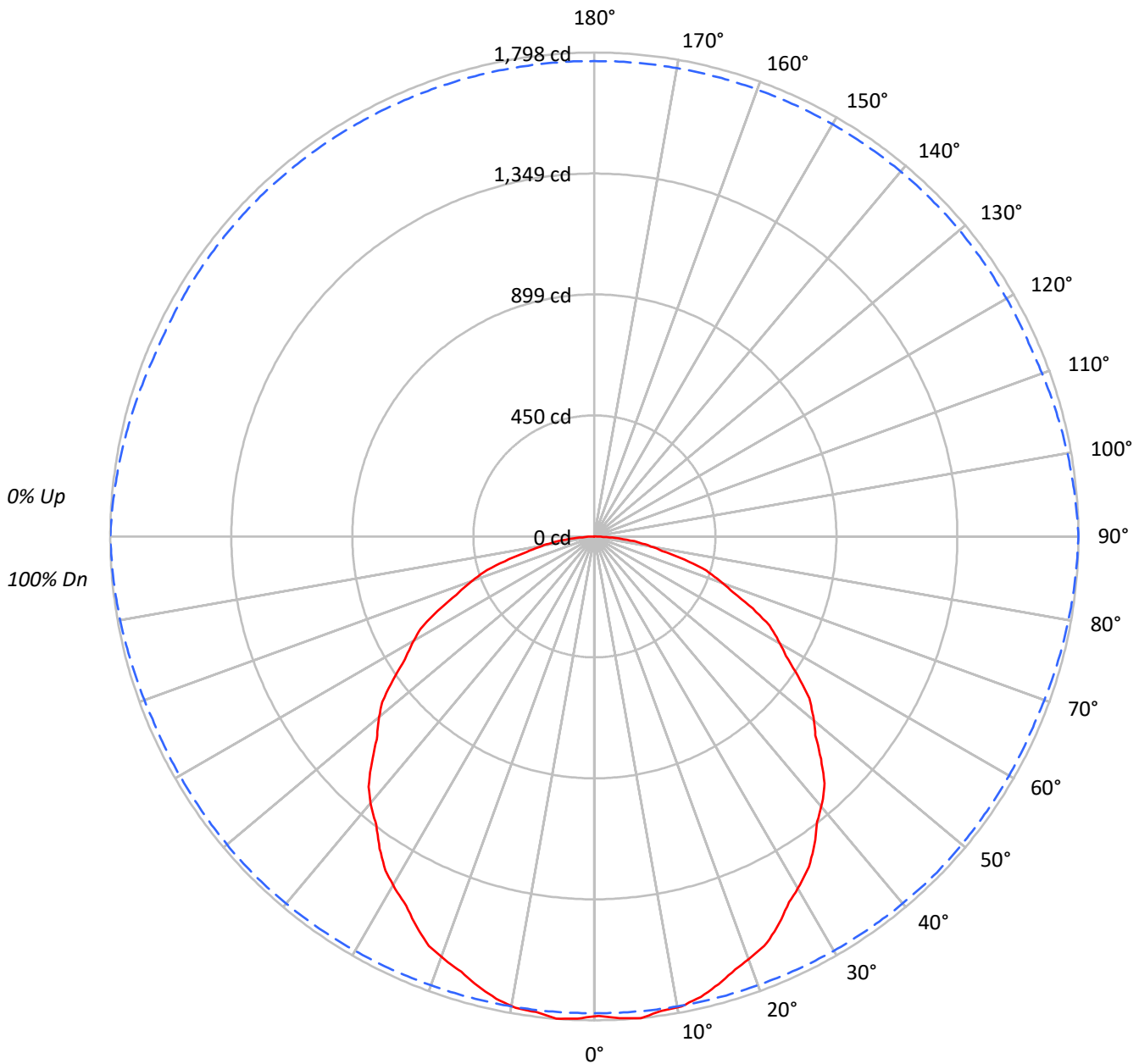
Lumens per Lamp: N/A
Luminaire Lumens: 4974.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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°	28772	28772	28772
5°	28716	29146	28634
10°	28765	29116	28398
15°	28732	28868	28408
20°	28448	28660	27802
25°	28009	28390	27430
30°	27831	28040	27072
35°	27397	27758	26414
40°	27021	27472	26097
45°	26482	26948	25437
50°	25885	26472	24912
55°	25225	25827	24020
60°	24432	25352	23247
65°	23343	24703	21903
70°	22065	23363	20573
75°	20200	21597	18546
80°	17424	18745	15714
85°	12449	14524	10948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.4
10°-20°	481.7	9.7
20°-30°	724.7	14.6
30°-40°	865.6	17.4
40°-50°	889.5	17.9
50°-60°	799.6	16.1
60°-70°	607.8	12.2
70°-80°	346.3	7.0
80°-90°	90.1	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°	1375.0	27.6
0°-40°	2240.6	45.0
0°-60°	3929.7	79.0
0°-90°	4974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4974.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1782	1782	1782	1782	1782	
5°	1772	1783	1798	1771	1767	169
15°	1719	1713	1727	1708	1700	484
25°	1572	1599	1594	1573	1540	727
35°	1390	1410	1408	1377	1340	869
45°	1160	1173	1180	1142	1114	892
55°	896	914	918	877	853	799
65°	611	625	647	604	573	604
75°	324	335	346	318	297	343
85°	67	80	78	70	59	84
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°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
2.5°	1779.6	1778.0	1785.3	1777.5	1792.6	1784.6	1779.6	1782.5	1766.5
5°	1771.8	1775.8	1783.0	1776.4	1798.3	1766.4	1770.8	1767.7	1766.7
7.5°	1765.9	1769.1	1767.1	1763.1	1780.8	1760.5	1758.6	1752.0	1750.0
10°	1754.5	1758.5	1752.5	1755.0	1775.9	1746.0	1746.4	1730.1	1732.1
12.5°	1733.3	1742.1	1740.3	1731.5	1756.4	1731.3	1736.6	1725.1	1720.7
15°	1718.9	1709.9	1712.8	1715.1	1727.0	1699.1	1707.7	1693.6	1699.5
17.5°	1688.3	1682.8	1684.7	1678.7	1692.4	1663.7	1668.4	1657.1	1653.1
20°	1655.7	1655.7	1657.8	1655.0	1668.0	1640.1	1641.5	1622.1	1618.1
22.5°	1631.3	1627.3	1638.2	1629.7	1641.1	1614.0	1613.8	1589.8	1598.5
25°	1572.2	1577.2	1598.7	1579.7	1593.6	1559.8	1573.3	1546.6	1539.7
27.5°	1527.0	1528.6	1540.5	1530.1	1539.9	1513.8	1525.8	1492.2	1482.2
30°	1492.8	1488.8	1511.1	1495.1	1504.0	1485.1	1486.7	1450.1	1452.1
32.5°	1445.6	1446.4	1471.2	1459.9	1464.1	1438.8	1443.5	1417.2	1406.5
35°	1390.0	1390.0	1410.3	1398.3	1408.3	1377.4	1376.7	1349.0	1340.1
37.5°	1325.2	1318.8	1343.5	1337.2	1345.0	1316.3	1306.3	1280.1	1274.9
40°	1282.0	1278.0	1296.3	1292.5	1303.4	1275.5	1260.6	1236.3	1238.2
42.5°	1226.6	1230.6	1245.8	1247.6	1253.7	1223.5	1214.2	1186.6	1188.6
45°	1159.8	1157.8	1173.1	1172.2	1180.2	1154.3	1142.5	1110.0	1114.0
47.5°	1076.9	1079.7	1096.1	1094.3	1105.3	1082.2	1063.3	1041.6	1036.6
50°	1030.5	1032.5	1044.8	1047.0	1053.9	1030.0	1015.2	992.8	991.8
52.5°	974.3	972.3	990.2	994.8	1000.2	982.6	963.9	938.2	934.8
55°	896.1	897.1	914.4	921.5	917.5	905.5	876.8	851.3	853.3
57.5°	810.4	817.7	825.8	838.1	838.9	819.6	800.8	776.1	772.1
60°	756.6	757.6	772.9	785.1	785.1	764.2	741.3	719.9	719.9
62.5°	695.5	700.5	713.4	724.9	730.5	713.6	685.1	662.9	661.3
65°	611.0	612.0	625.2	640.6	646.6	623.7	603.8	578.3	573.3
67.5°	523.6	527.8	538.5	550.6	557.6	532.9	512.0	492.1	493.7
70°	467.4	468.4	476.6	491.9	494.9	475.0	454.2	435.8	435.8
72.5°	406.3	412.9	419.5	433.2	435.4	417.9	401.2	383.6	379.6
75°	323.8	328.8	335.0	343.2	346.2	331.3	317.7	302.3	297.3
77.5°	241.9	246.7	257.2	258.4	257.8	247.5	236.9	225.3	220.4
80°	187.4	191.3	202.6	204.6	201.6	193.7	182.3	174.0	169.0
82.5°	136.0	143.2	151.3	153.3	149.5	145.5	135.8	126.0	121.8
85°	67.2	71.2	80.4	84.4	78.4	76.4	70.3	62.0	59.1
87.5°	13.0	16.2	24.4	30.0	22.8	26.8	20.4	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)