

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: P522442

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522442
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 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

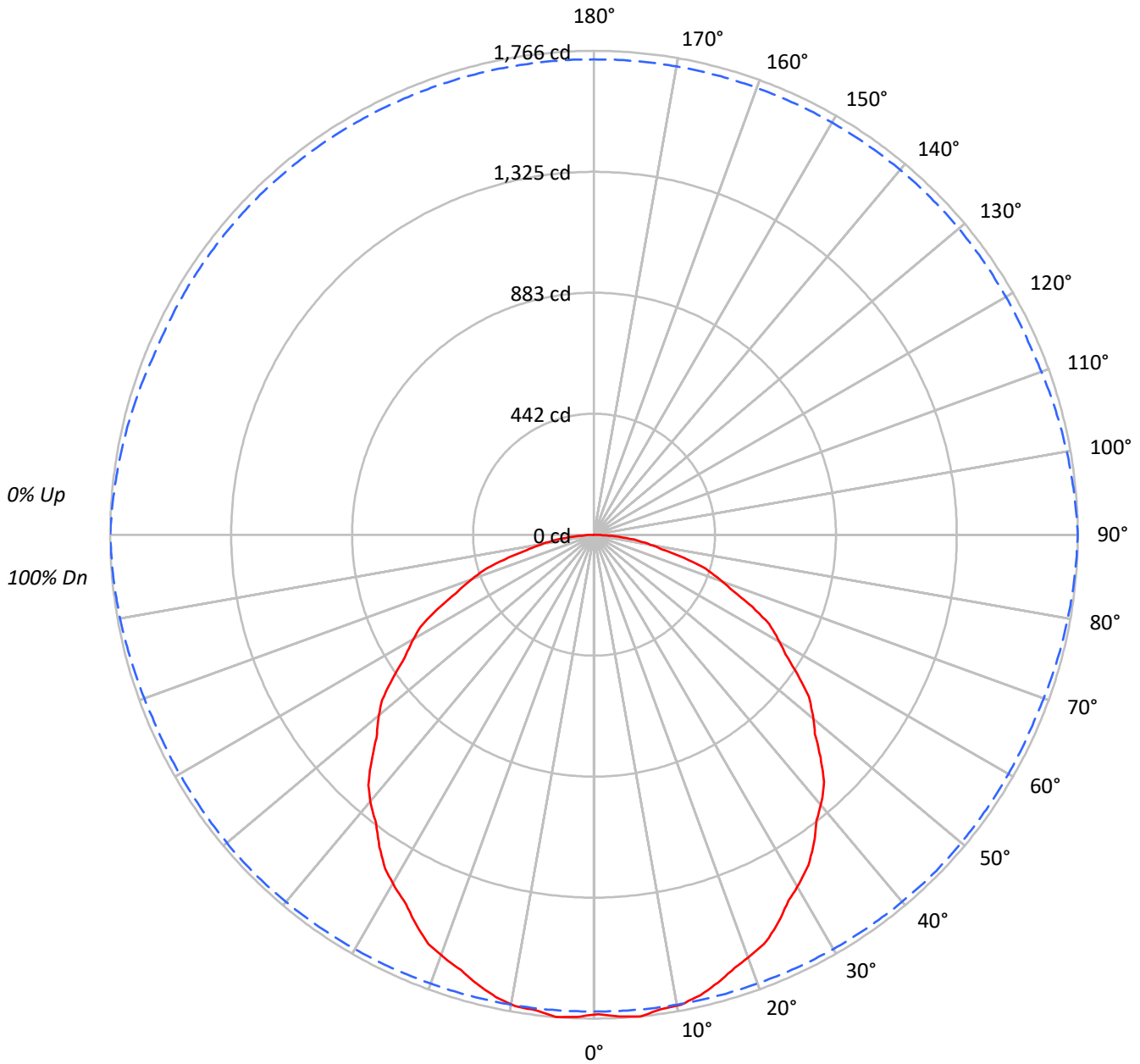
Lumens per Lamp: N/A
Luminaire Lumens: 4884.7 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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	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°	28255	28255	28255
5°	28201	28622	28120
10°	28248	28593	27888
15°	28216	28349	27898
20°	27938	28144	27302
25°	27506	27880	26936
30°	27332	27537	26586
35°	26905	27260	25939
40°	26536	26978	25630
45°	26008	26464	24980
50°	25420	25998	24465
55°	24771	25363	23589
60°	23993	24897	22830
65°	22923	24260	21509
70°	21668	22943	20205
75°	19838	21210	18216
80°	17108	18410	15435
85°	12227	14264	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	3.4
10°-20°	473.0	9.7
20°-30°	711.7	14.6
30°-40°	850.1	17.4
40°-50°	873.5	17.9
50°-60°	785.2	16.1
60°-70°	596.9	12.2
70°-80°	340.1	7.0
80°-90°	88.5	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°	1350.3	27.6
0°-40°	2200.4	45.0
0°-60°	3859.1	79.0
0°-90°	4884.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4884.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1750	1750	1750	1750	1750	
5°	1740	1751	1766	1739	1735	166
15°	1688	1682	1696	1677	1669	475
25°	1544	1570	1565	1545	1512	714
35°	1365	1385	1383	1352	1316	853
45°	1139	1152	1159	1122	1094	876
55°	880	898	901	861	838	785
65°	600	614	635	593	563	593
75°	318	329	340	312	292	336
85°	66	79	77	69	58	83
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°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1747.6	1746.0	1753.2	1745.5	1760.4	1752.6	1747.6	1750.4	1734.8
5°	1740.0	1743.9	1751.0	1744.5	1766.0	1734.7	1739.0	1736.0	1735.0
7.5°	1734.2	1737.3	1735.4	1731.4	1748.8	1728.9	1727.0	1720.6	1718.6
10°	1723.0	1726.9	1721.0	1723.5	1744.0	1714.7	1715.0	1699.0	1701.0
12.5°	1702.2	1710.8	1709.0	1700.4	1724.8	1700.2	1705.4	1694.1	1689.8
15°	1688.0	1679.2	1682.0	1684.3	1696.0	1668.6	1677.0	1663.1	1669.0
17.5°	1658.0	1652.5	1654.4	1648.5	1662.0	1633.8	1638.4	1627.3	1623.4
20°	1626.0	1626.0	1628.0	1625.3	1638.0	1610.6	1612.0	1592.9	1589.0
22.5°	1602.0	1598.1	1608.8	1600.5	1611.6	1585.0	1584.8	1561.2	1569.8
25°	1544.0	1548.9	1570.0	1551.3	1565.0	1531.8	1545.0	1518.8	1512.0
27.5°	1499.6	1501.2	1512.8	1502.6	1512.2	1486.6	1498.4	1465.4	1455.6
30°	1466.0	1462.1	1484.0	1468.2	1477.0	1458.4	1460.0	1424.0	1426.0
32.5°	1419.6	1420.4	1444.8	1433.7	1437.8	1413.0	1417.6	1391.8	1381.2
35°	1365.0	1365.0	1385.0	1373.2	1383.0	1352.7	1352.0	1324.8	1316.0
37.5°	1301.4	1295.1	1319.4	1313.2	1320.8	1292.6	1282.8	1257.1	1252.0
40°	1259.0	1255.1	1273.0	1269.2	1280.0	1252.6	1238.0	1214.0	1216.0
42.5°	1204.6	1208.5	1223.4	1225.1	1231.2	1201.5	1192.4	1165.2	1167.2
45°	1139.0	1137.0	1152.0	1151.2	1159.0	1133.6	1122.0	1090.1	1094.0
47.5°	1057.6	1060.3	1076.4	1074.6	1085.4	1062.7	1044.2	1022.9	1018.0
50°	1012.0	1014.0	1026.0	1028.2	1035.0	1011.5	997.0	975.0	974.0
52.5°	956.8	954.8	972.4	976.9	982.2	965.0	946.6	921.3	918.0
55°	880.0	881.0	898.0	904.9	901.0	889.3	861.0	836.0	838.0
57.5°	795.8	803.0	811.0	823.0	823.8	804.8	786.4	762.1	758.2
60°	743.0	744.0	759.0	771.0	771.0	750.5	728.0	707.0	707.0
62.5°	683.0	687.9	700.6	711.9	717.4	700.8	672.8	651.0	649.4
65°	600.0	601.0	614.0	629.1	635.0	612.5	593.0	567.9	563.0
67.5°	514.2	518.3	528.8	540.8	547.6	523.4	502.8	483.2	484.8
70°	459.0	460.0	468.0	483.1	486.0	466.4	446.0	428.0	428.0
72.5°	399.0	405.5	412.0	425.4	427.6	410.4	394.0	376.7	372.8
75°	318.0	322.9	329.0	337.1	340.0	325.3	312.0	296.9	292.0
77.5°	237.6	242.3	252.6	253.8	253.2	243.0	232.6	221.3	216.4
80°	184.0	187.9	199.0	200.9	198.0	190.2	179.0	170.9	166.0
82.5°	133.6	140.6	148.6	150.5	146.8	142.9	133.4	123.7	119.6
85°	66.0	69.9	79.0	82.9	77.0	75.0	69.0	60.9	58.0
87.5°	12.8	15.9	24.0	29.4	22.4	26.3	20.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)