

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: P522440

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522440
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-49)
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 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

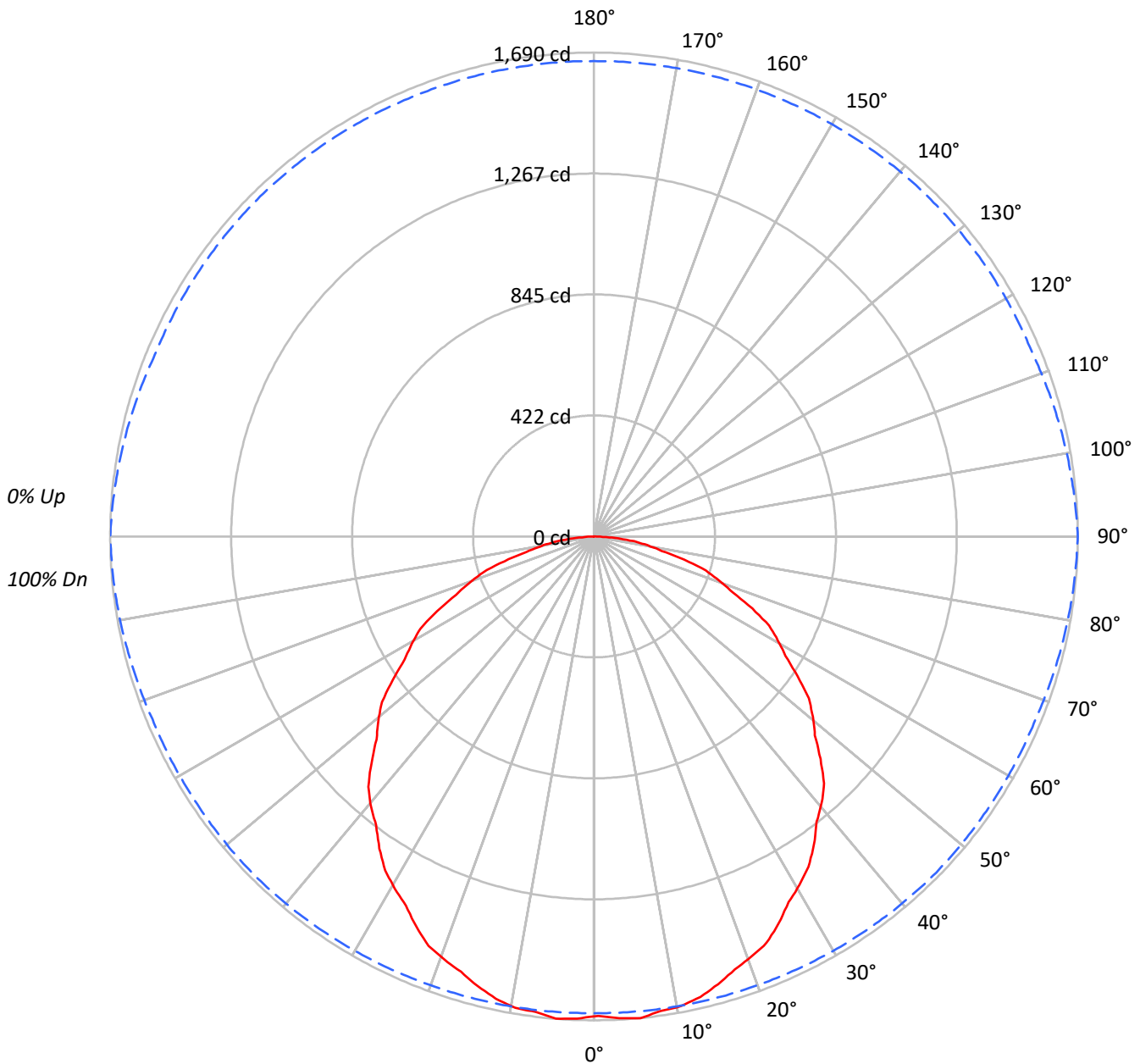
Lumens per Lamp: N/A
Luminaire Lumens: 4673.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 59.1
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°	27033	27033	27033
5°	26981	27384	26903
10°	27027	27355	26681
15°	26995	27122	26691
20°	26730	26926	26122
25°	26316	26674	25771
30°	26150	26345	25435
35°	25740	26081	24817
40°	25387	25811	24521
45°	24882	25320	23900
50°	24320	24872	23408
55°	23699	24265	22567
60°	22956	23818	21842
65°	21929	23209	20577
70°	20729	21951	19331
75°	18977	20293	17430
80°	16365	17610	14765
85°	11689	13653	10282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.4
10°-20°	452.5	9.7
20°-30°	680.9	14.6
30°-40°	813.3	17.4
40°-50°	835.7	17.9
50°-60°	751.3	16.1
60°-70°	571.1	12.2
70°-80°	325.4	7.0
80°-90°	84.7	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°	1291.9	27.6
0°-40°	2105.2	45.0
0°-60°	3692.2	79.0
0°-90°	4673.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4673.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1674	1674	1674	1674	1674	
5°	1665	1675	1690	1664	1660	158
15°	1615	1609	1623	1604	1597	455
25°	1477	1502	1497	1478	1447	683
35°	1306	1325	1323	1294	1259	816
45°	1090	1102	1109	1074	1047	838
55°	842	859	862	824	802	751
65°	574	587	608	567	539	568
75°	304	315	325	298	279	322
85°	63	76	74	66	56	79
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°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1672.0	1670.5	1677.4	1670.0	1684.2	1676.8	1672.0	1674.7	1659.7
5°	1664.7	1668.5	1675.2	1669.0	1689.6	1659.7	1663.8	1660.9	1659.9
7.5°	1659.2	1662.2	1660.3	1656.5	1673.1	1654.1	1652.3	1646.1	1644.2
10°	1648.5	1652.2	1646.5	1648.9	1668.5	1640.5	1640.8	1625.5	1627.4
12.5°	1628.6	1636.8	1635.1	1626.8	1650.2	1626.6	1631.6	1620.8	1616.7
15°	1615.0	1606.6	1609.2	1611.4	1622.6	1596.4	1604.4	1591.2	1596.8
17.5°	1586.3	1581.0	1582.8	1577.2	1590.1	1563.2	1567.5	1556.9	1553.2
20°	1555.7	1555.7	1557.6	1555.0	1567.1	1540.9	1542.3	1524.0	1520.3
22.5°	1532.7	1529.0	1539.2	1531.2	1541.9	1516.4	1516.2	1493.7	1501.9
25°	1477.2	1481.9	1502.1	1484.2	1497.3	1465.5	1478.2	1453.1	1446.6
27.5°	1434.7	1436.2	1447.4	1437.6	1446.8	1422.3	1433.6	1402.0	1392.6
30°	1402.6	1398.8	1419.8	1404.7	1413.1	1395.3	1396.8	1362.4	1364.3
32.5°	1358.2	1358.9	1382.3	1371.7	1375.6	1351.8	1356.3	1331.5	1321.4
35°	1305.9	1305.9	1325.1	1313.8	1323.2	1294.2	1293.5	1267.5	1259.1
37.5°	1245.1	1239.1	1262.3	1256.4	1263.7	1236.7	1227.3	1202.7	1197.8
40°	1204.5	1200.8	1217.9	1214.3	1224.6	1198.4	1184.4	1161.5	1163.4
42.5°	1152.5	1156.2	1170.5	1172.1	1177.9	1149.5	1140.8	1114.8	1116.7
45°	1089.7	1087.9	1102.2	1101.4	1108.9	1084.5	1073.5	1042.9	1046.7
47.5°	1011.8	1014.5	1029.8	1028.2	1038.4	1016.7	999.0	978.6	974.0
50°	968.2	970.1	981.6	983.7	990.2	967.8	953.9	932.8	931.9
52.5°	915.4	913.5	930.3	934.7	939.7	923.2	905.6	881.5	878.3
55°	841.9	842.9	859.2	865.8	862.0	850.8	823.8	799.9	801.7
57.5°	761.4	768.3	775.9	787.4	788.2	770.0	752.4	729.1	725.4
60°	710.9	711.8	726.2	737.6	737.6	718.0	696.5	676.4	676.4
62.5°	653.5	658.1	670.3	681.1	686.4	670.5	643.7	622.8	621.3
65°	574.0	575.0	587.4	601.9	607.5	586.0	567.3	543.3	538.6
67.5°	492.0	495.9	505.9	517.4	523.9	500.7	481.0	462.3	463.8
70°	439.1	440.1	447.8	462.2	465.0	446.3	426.7	409.5	409.5
72.5°	381.7	387.9	394.2	407.0	409.1	392.6	377.0	360.4	356.7
75°	304.2	308.9	314.8	322.5	325.3	311.3	298.5	284.0	279.4
77.5°	227.3	231.8	241.7	242.8	242.2	232.5	222.5	211.7	207.0
80°	176.0	179.8	190.4	192.2	189.4	182.0	171.3	163.5	158.8
82.5°	127.8	134.6	142.2	144.0	140.4	136.7	127.6	118.4	114.4
85°	63.1	66.9	75.6	79.3	73.7	71.8	66.0	58.3	55.5
87.5°	12.2	15.2	23.0	28.2	21.4	25.2	19.1	13.7	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)