

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: P511838

Luminaire Tested: **SQW-F-0U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511838
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

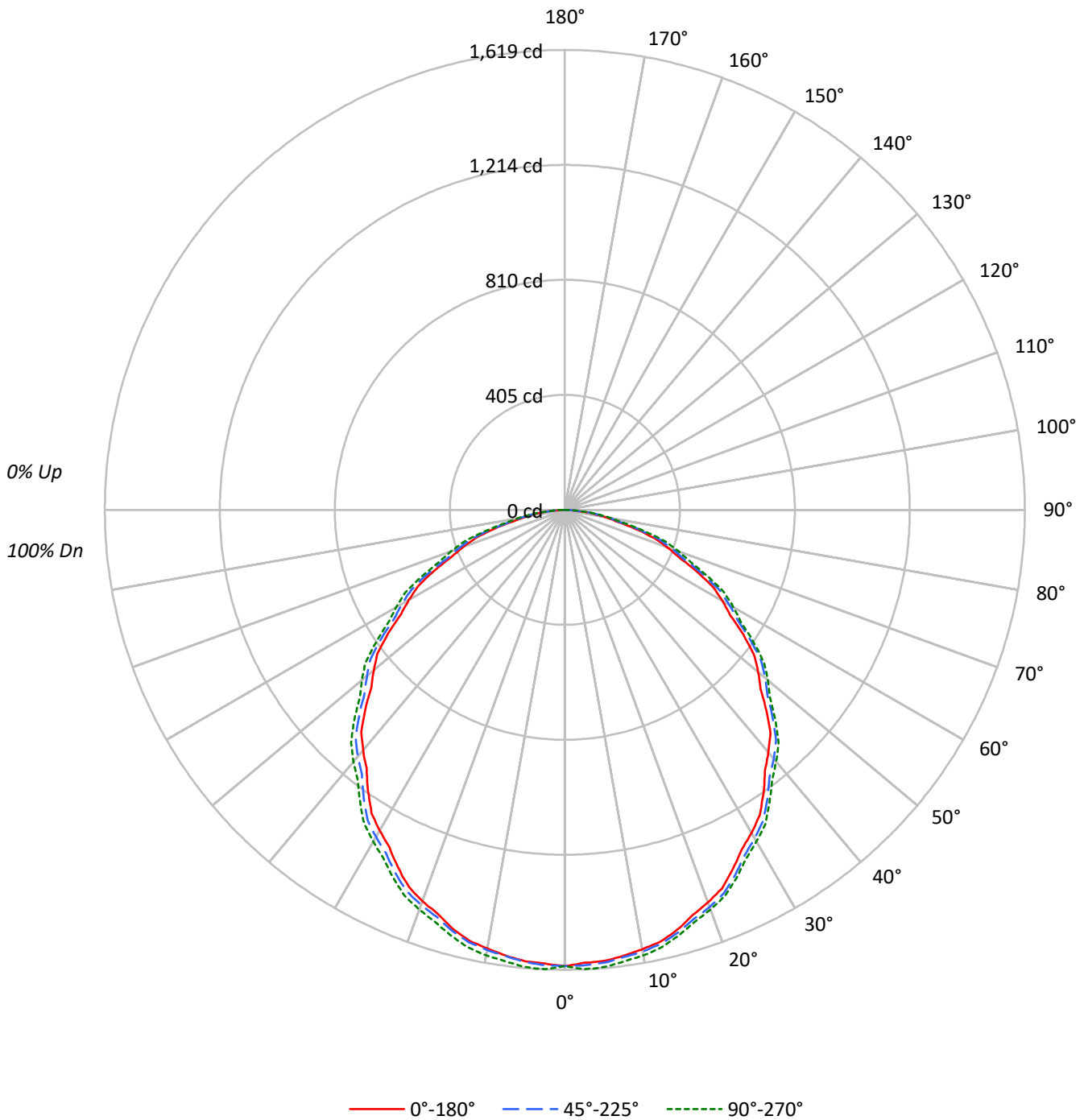
Lumens per Lamp: N/A
Luminaire Lumens: 4379.2 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 46.9
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



TEST NUMBER: P511838
CATALOG NUMBER: SQW-F-0U-125D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P511838

CATALOG NUMBER: SQW-F-0U-125D-940-1D-UNV-STD-W-4

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51861	51861	51861
5°	51686	52370	51715
10°	51503	52225	51418
15°	51156	51862	51039
20°	50557	51464	50375
25°	49782	50944	49497
30°	48977	50290	48582
35°	48027	49521	47577
40°	46976	48760	46568
45°	45823	47873	45339
50°	44611	46821	44078
55°	43148	45580	42703
60°	41308	44208	40907
65°	38976	42476	38701
70°	36010	40004	35764
75°	31653	36157	31765
80°	25551	29977	26221
85°	14672	20563	17636



TEST NUMBER: P511838

CATALOG NUMBER: SQW-F-0U-125D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	3.5
10°-20°	432.6	9.9
20°-30°	648.4	14.8
30°-40°	771.1	17.6
40°-50°	789.6	18.0
50°-60°	704.1	16.1
60°-70°	525.9	12.0
70°-80°	288.2	6.6
80°-90°	67.5	1.5
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°	1232.8	28.2
0°-40°	2004.0	45.8
0°-60°	3497.6	79.9
0°-90°	4379.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4379.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1606	1606	1606	1606	1606	
5°	1594	1600	1616	1598	1595	151
15°	1530	1541	1551	1534	1527	431
25°	1397	1418	1430	1411	1389	644
35°	1218	1243	1256	1235	1207	761
45°	1003	1035	1048	1023	993	774
55°	766	796	810	788	758	684
65°	510	535	556	530	506	505
75°	254	273	290	270	255	270
85°	40	53	56	55	48	57
90°	0	0	0	0	0	



TEST NUMBER: P511838

CATALOG NUMBER: SQW-F-OU-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0
2.5°	1596.1	1603.7	1604.5	1603.5	1618.6	1604.2	1604.5	1603.0	1598.9
5°	1594.5	1596.2	1599.8	1597.6	1615.6	1596.7	1598.0	1594.5	1595.4
7.5°	1583.4	1584.6	1588.5	1584.3	1602.6	1584.2	1584.6	1581.0	1582.9
10°	1570.7	1573.3	1578.6	1573.8	1592.7	1572.9	1573.4	1568.9	1568.1
12.5°	1556.6	1557.8	1564.5	1559.7	1577.2	1558.1	1559.3	1552.8	1553.3
15°	1530.2	1534.5	1540.8	1533.2	1551.3	1532.4	1533.7	1527.5	1526.7
17.5°	1495.8	1503.4	1509.8	1502.2	1520.1	1500.7	1501.8	1493.3	1490.5
20°	1471.2	1478.1	1487.9	1480.4	1497.6	1476.1	1480.0	1465.9	1465.9
22.5°	1443.7	1447.8	1461.8	1453.6	1471.5	1450.0	1453.2	1435.6	1436.3
25°	1397.2	1403.2	1418.3	1411.7	1429.8	1407.4	1411.3	1391.0	1389.2
27.5°	1348.0	1355.1	1370.7	1364.6	1382.5	1360.3	1363.2	1340.9	1338.1
30°	1313.5	1321.2	1335.5	1331.5	1348.7	1327.2	1329.3	1306.4	1302.9
32.5°	1275.4	1284.6	1298.9	1298.3	1312.8	1293.3	1293.4	1269.7	1265.6
35°	1218.3	1227.0	1243.0	1243.3	1256.2	1236.4	1235.1	1212.1	1206.9
37.5°	1157.4	1167.2	1183.6	1185.8	1197.5	1179.1	1173.8	1150.8	1146.3
40°	1114.4	1125.6	1143.5	1146.3	1156.7	1136.9	1132.9	1109.9	1104.7
42.5°	1071.4	1082.6	1100.5	1104.7	1113.7	1097.3	1089.2	1066.2	1060.3
45°	1003.4	1015.4	1035.1	1041.4	1048.3	1033.7	1022.8	999.7	992.8
47.5°	934.5	945.7	966.2	974.9	979.3	966.8	955.5	931.5	923.9
50°	888.0	899.2	919.7	927.7	932.0	921.7	908.2	884.3	877.4
52.5°	839.4	850.6	871.1	880.5	884.1	875.2	861.7	837.8	830.9
55°	766.4	775.9	796.4	807.9	809.6	803.6	787.6	764.5	758.5
57.5°	690.3	699.6	719.9	732.3	735.2	729.2	712.2	689.3	684.1
60°	639.6	648.2	667.8	680.2	684.5	678.5	660.7	638.6	633.4
62.5°	588.1	596.0	614.9	628.1	633.7	627.0	608.6	587.1	581.9
65°	510.1	517.0	534.7	552.4	555.9	548.1	530.3	510.0	506.5
67.5°	432.9	438.1	454.7	472.1	476.6	468.7	450.3	433.0	428.8
70°	381.4	386.6	402.6	418.6	423.7	415.1	398.2	382.2	378.8
72.5°	330.0	334.5	350.4	365.0	370.2	362.9	346.0	331.5	328.1
75°	253.7	258.9	273.1	286.4	289.8	284.7	270.4	258.0	254.6
77.5°	182.5	185.8	198.0	208.3	211.2	207.5	196.6	185.7	183.9
80°	137.4	140.0	151.5	160.4	161.2	159.5	151.5	142.7	141.0
82.5°	95.8	99.1	109.9	117.3	115.4	116.4	110.6	102.5	101.5
85°	39.6	41.4	52.9	59.8	55.5	59.8	54.6	48.4	47.6
87.5°	4.2	4.9	9.2	16.9	14.8	18.2	14.8	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)