

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: P522437

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522437  
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-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

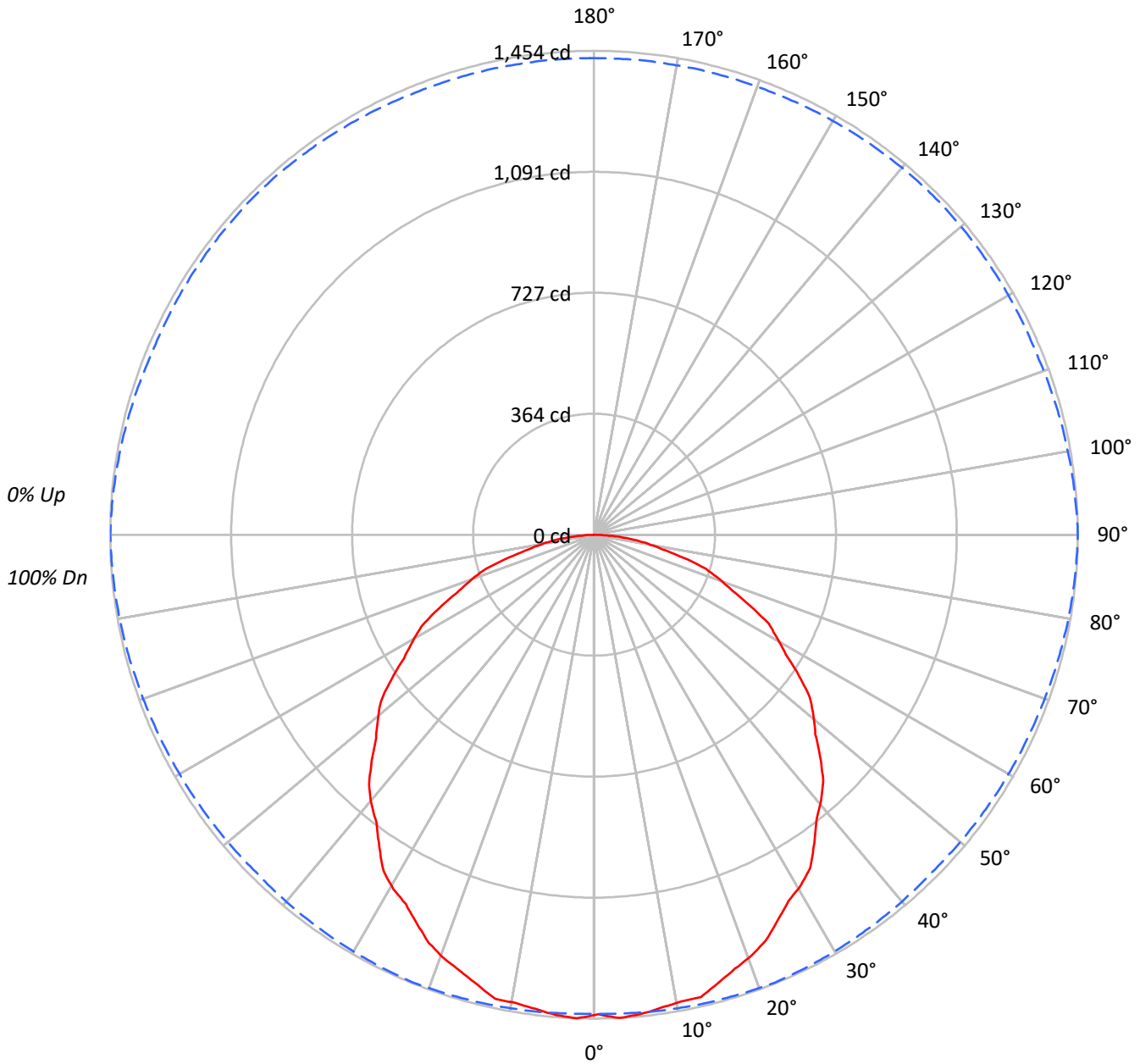
Lumens per Lamp: N/A  
Luminaire Lumens: 4029.4 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.4  
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°	23276	23276	23276
5°	23551	23467	23110
10°	23309	23396	23069
15°	23398	23363	22925
20°	22847	23206	22397
25°	22812	22869	22030
30°	22527	22820	21806
35°	22003	22456	21425
40°	21785	22160	20993
45°	21571	21763	20614
50°	20813	21469	20024
55°	20614	21056	19319
60°	19695	20437	18613
65°	18823	19786	17666
70°	17977	18864	16494
75°	16706	17361	14878
80°	14300	15174	12450
85°	10652	11819	8522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	3.4
10°-20°	390.2	9.7
20°-30°	585.8	14.5
30°-40°	700.3	17.4
40°-50°	720.6	17.9
50°-60°	648.7	16.1
60°-70°	492.7	12.2
70°-80°	281.1	7.0
80°-90°	73.6	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°	1112.5	27.6
0°-40°	1812.7	45.0
0°-60°	3182.0	79.0
0°-90°	4029.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1453	1442	1448	1423	1426	137
15°	1400	1391	1398	1378	1372	391
25°	1280	1288	1284	1270	1237	588
35°	1116	1144	1139	1114	1087	703
45°	945	952	953	932	903	722
55°	732	745	748	718	686	648
65°	493	506	518	482	462	490
75°	268	275	278	254	238	280
85°	58	66	64	58	46	71
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°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1439.9	1451.4	1435.8	1440.3	1454.2	1437.0	1441.6	1433.2	1432.4
5°	1453.1	1435.7	1441.6	1433.6	1447.9	1434.6	1422.8	1438.2	1425.9
7.5°	1428.4	1417.2	1440.2	1428.6	1436.2	1427.2	1428.4	1419.9	1419.7
10°	1421.7	1414.6	1421.7	1421.9	1427.0	1414.7	1413.4	1404.0	1407.1
12.5°	1402.5	1412.5	1401.7	1415.3	1426.1	1404.9	1396.6	1399.9	1405.4
15°	1399.8	1396.7	1391.4	1387.5	1397.7	1373.1	1377.8	1368.5	1371.5
17.5°	1357.3	1363.0	1365.7	1362.3	1371.5	1349.2	1343.9	1343.9	1345.4
20°	1329.7	1342.0	1350.6	1341.4	1350.6	1333.2	1329.7	1316.8	1303.5
22.5°	1314.6	1312.2	1329.7	1311.3	1323.8	1302.3	1312.1	1289.7	1296.8
25°	1280.5	1270.3	1287.8	1277.5	1283.7	1266.3	1270.1	1242.7	1236.6
27.5°	1235.1	1235.1	1245.8	1241.5	1245.8	1231.9	1228.0	1203.0	1200.6
30°	1208.3	1200.1	1219.8	1210.7	1224.0	1191.3	1193.7	1173.7	1169.6
32.5°	1172.3	1175.6	1188.9	1177.3	1193.1	1162.0	1167.7	1137.1	1142.0
35°	1116.3	1122.4	1143.5	1128.0	1139.3	1120.9	1114.2	1094.1	1087.0
37.5°	1080.5	1071.1	1081.3	1082.2	1085.7	1065.5	1058.1	1033.9	1036.1
40°	1033.6	1031.6	1046.2	1050.4	1051.4	1032.0	1026.3	997.0	996.0
42.5°	990.9	993.0	1005.2	1010.2	1010.4	991.0	990.3	958.6	962.5
45°	944.7	941.6	952.0	951.0	953.1	932.6	932.1	901.8	902.8
47.5°	872.1	878.6	885.7	887.8	895.7	878.3	866.0	841.9	838.2
50°	828.6	840.8	842.2	851.7	854.7	833.2	823.3	803.3	797.2
52.5°	790.1	796.6	802.0	808.2	812.9	793.0	778.1	759.1	757.8
55°	732.3	728.2	744.9	742.9	748.0	732.7	717.7	696.5	686.3
57.5°	657.6	665.6	669.3	677.2	680.6	663.9	650.7	628.3	627.5
60°	609.9	621.2	622.5	636.0	632.9	618.6	604.7	584.6	576.4
62.5°	566.4	569.5	578.1	587.6	588.6	572.6	562.0	540.3	534.6
65°	492.7	498.9	506.3	518.9	517.9	506.6	482.3	470.6	462.4
67.5°	426.0	428.0	438.1	444.1	448.2	432.6	418.7	402.3	398.8
70°	380.8	378.8	391.3	395.5	399.6	387.4	373.5	358.6	349.4
72.5°	331.4	333.5	342.7	349.5	351.9	339.7	324.9	313.5	307.6
75°	267.8	265.8	275.1	279.3	278.3	269.1	254.2	246.7	238.5
77.5°	197.3	201.4	206.9	210.7	209.2	203.1	191.4	180.1	176.6
80°	153.8	157.9	164.2	166.3	163.2	157.1	149.6	139.0	133.9
82.5°	113.6	116.1	122.4	126.1	121.4	117.7	111.1	103.0	97.1
85°	57.5	59.6	65.9	67.9	63.8	63.8	57.5	50.1	46.0
87.5°	13.4	14.2	19.2	25.0	20.1	21.7	16.7	12.5	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)