

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: P511827

Luminaire Tested: **SQW-F-0U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511827
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

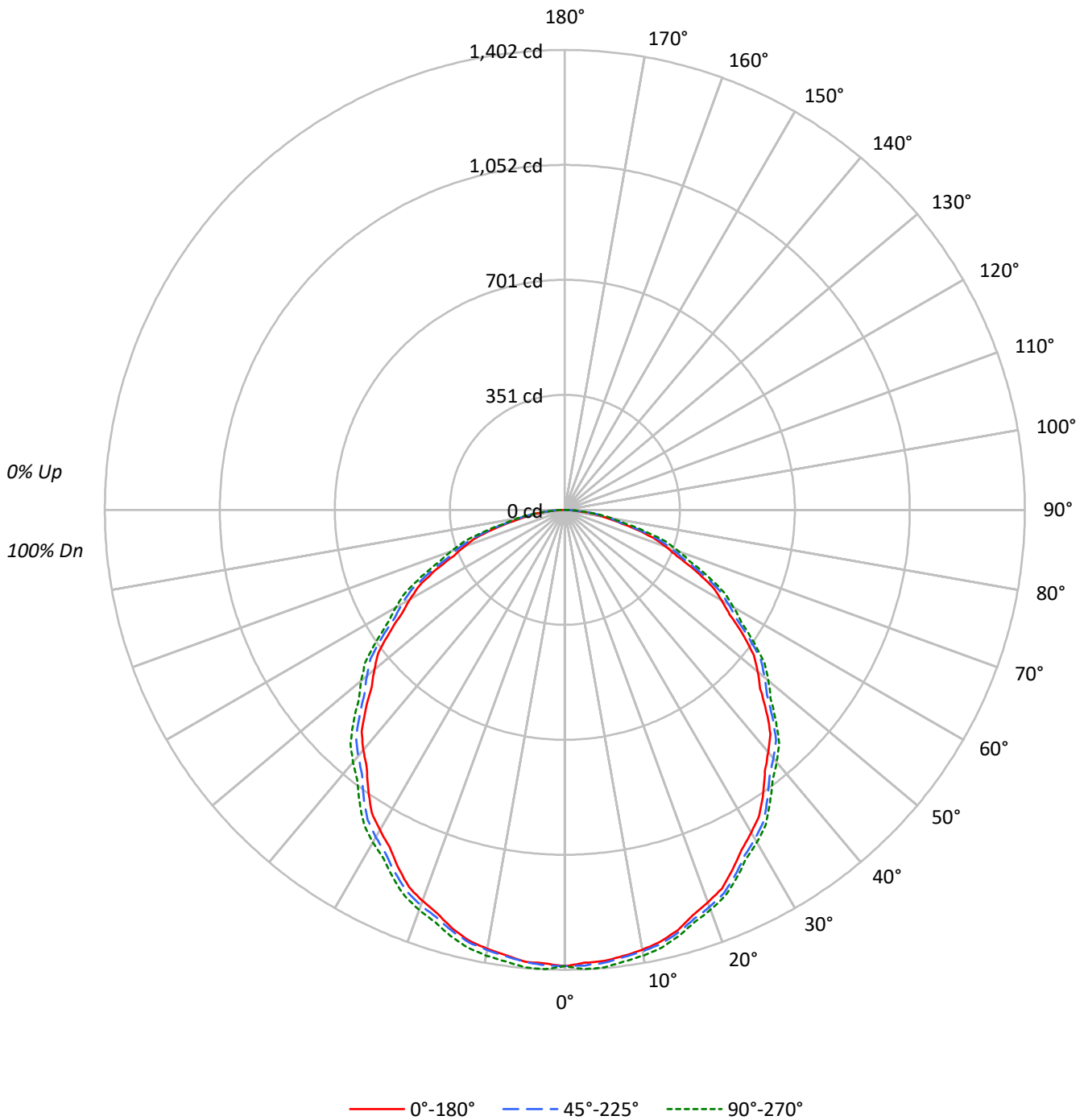
Lumens per Lamp: N/A
Luminaire Lumens: 3791.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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





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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				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44918	44918	44918
5°	44752	45362	44814
10°	44653	45240	44558
15°	44360	44958	44202
20°	43753	44595	43591
25°	43084	44124	42849
30°	42385	43649	42034
35°	41581	42989	41171
40°	40649	42318	40253
45°	39653	41544	39178
50°	38557	40687	38040
55°	37270	39550	36741
60°	35644	38376	35153
65°	33536	36844	33100
70°	30855	34764	30496
75°	26787	31491	27374
80°	21534	26090	22762
85°	11856	17784	15339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.5
10°-20°	374.9	9.9
20°-30°	561.9	14.8
30°-40°	668.1	17.6
40°-50°	684.0	18.0
50°-60°	609.7	16.1
60°-70°	454.5	12.0
70°-80°	248.3	6.6
80°-90°	58.3	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°	1068.3	28.2
0°-40°	1736.4	45.8
0°-60°	3030.1	79.9
0°-90°	3791.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3791.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1391	1391	1391	1391	1391	
5°	1381	1386	1399	1383	1382	131
15°	1327	1334	1345	1329	1322	373
25°	1209	1229	1238	1222	1203	557
35°	1055	1076	1090	1069	1044	659
45°	868	895	910	884	858	670
55°	662	688	702	682	653	591
65°	439	460	482	457	433	434
75°	215	232	252	234	219	230
85°	32	44	48	49	41	47
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°	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0
2.5°	1381.9	1388.5	1390.2	1389.0	1401.5	1389.7	1389.4	1388.6	1384.2
5°	1380.6	1382.4	1386.2	1383.8	1399.4	1383.8	1383.4	1381.6	1382.5
7.5°	1371.6	1373.4	1375.5	1373.0	1388.7	1372.7	1372.5	1369.3	1370.2
10°	1361.8	1363.6	1366.5	1364.0	1379.7	1362.2	1362.7	1358.0	1358.9
12.5°	1348.2	1350.0	1355.2	1351.9	1366.8	1350.1	1350.6	1345.2	1345.4
15°	1326.9	1329.7	1334.5	1329.2	1344.8	1328.2	1328.8	1323.1	1322.2
17.5°	1296.6	1302.1	1307.9	1303.3	1317.3	1301.5	1302.2	1293.5	1291.1
20°	1273.2	1278.8	1288.3	1283.0	1297.7	1281.1	1282.7	1269.4	1268.5
22.5°	1249.9	1253.9	1265.7	1260.4	1275.1	1258.5	1259.3	1243.9	1243.7
25°	1209.2	1214.7	1229.0	1224.6	1238.4	1221.8	1222.4	1205.4	1202.6
27.5°	1167.6	1173.3	1187.7	1183.5	1197.7	1180.8	1181.9	1162.9	1157.4
30°	1136.7	1143.1	1158.3	1154.9	1170.6	1152.2	1151.8	1132.8	1127.3
32.5°	1103.5	1111.5	1126.7	1124.8	1138.9	1121.3	1119.4	1100.4	1094.9
35°	1054.8	1063.0	1076.4	1077.6	1090.5	1074.0	1068.9	1050.8	1044.4
37.5°	1002.0	1009.8	1024.2	1026.8	1039.3	1022.0	1014.8	998.5	991.1
40°	964.3	973.6	988.8	992.8	1003.9	987.3	979.4	962.3	954.9
42.5°	927.4	936.6	952.7	958.9	967.0	951.1	941.7	925.3	916.5
45°	868.3	877.5	894.7	903.3	909.7	895.0	884.3	867.1	857.9
47.5°	808.2	818.3	835.7	846.3	850.6	837.1	827.2	808.2	797.8
50°	767.5	777.7	795.8	807.1	809.9	797.9	787.3	768.2	757.2
52.5°	726.1	734.7	752.8	765.7	767.0	757.2	745.9	726.8	716.5
55°	662.0	671.3	688.4	703.5	702.5	696.1	681.8	662.8	652.6
57.5°	596.3	603.7	621.6	637.6	637.9	630.6	616.8	598.0	588.0
60°	551.9	559.2	576.3	592.4	594.2	586.9	571.6	553.5	544.3
62.5°	507.4	514.0	530.4	547.9	549.8	542.4	526.4	509.1	499.9
65°	438.9	444.4	460.5	478.5	482.2	473.9	456.7	441.5	433.2
67.5°	371.2	376.6	391.6	409.4	414.2	404.8	389.3	374.8	366.7
70°	326.8	331.4	345.6	362.7	368.2	358.1	345.6	330.4	323.0
72.5°	281.6	286.2	300.4	316.7	321.5	312.1	300.4	286.8	283.8
75°	214.7	219.3	231.7	248.7	252.4	244.1	233.6	221.3	219.4
77.5°	155.0	158.0	169.1	180.9	183.3	178.3	172.0	161.0	160.1
80°	115.8	119.5	130.0	139.4	140.3	137.6	132.8	123.3	122.4
82.5°	81.2	84.1	93.0	101.7	100.4	100.6	97.4	88.7	88.5
85°	32.0	34.8	44.3	51.7	48.0	50.8	49.0	42.4	41.4
87.5°	3.0	3.8	7.5	15.0	13.6	15.8	13.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)