

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: P522318

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522318
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-025U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

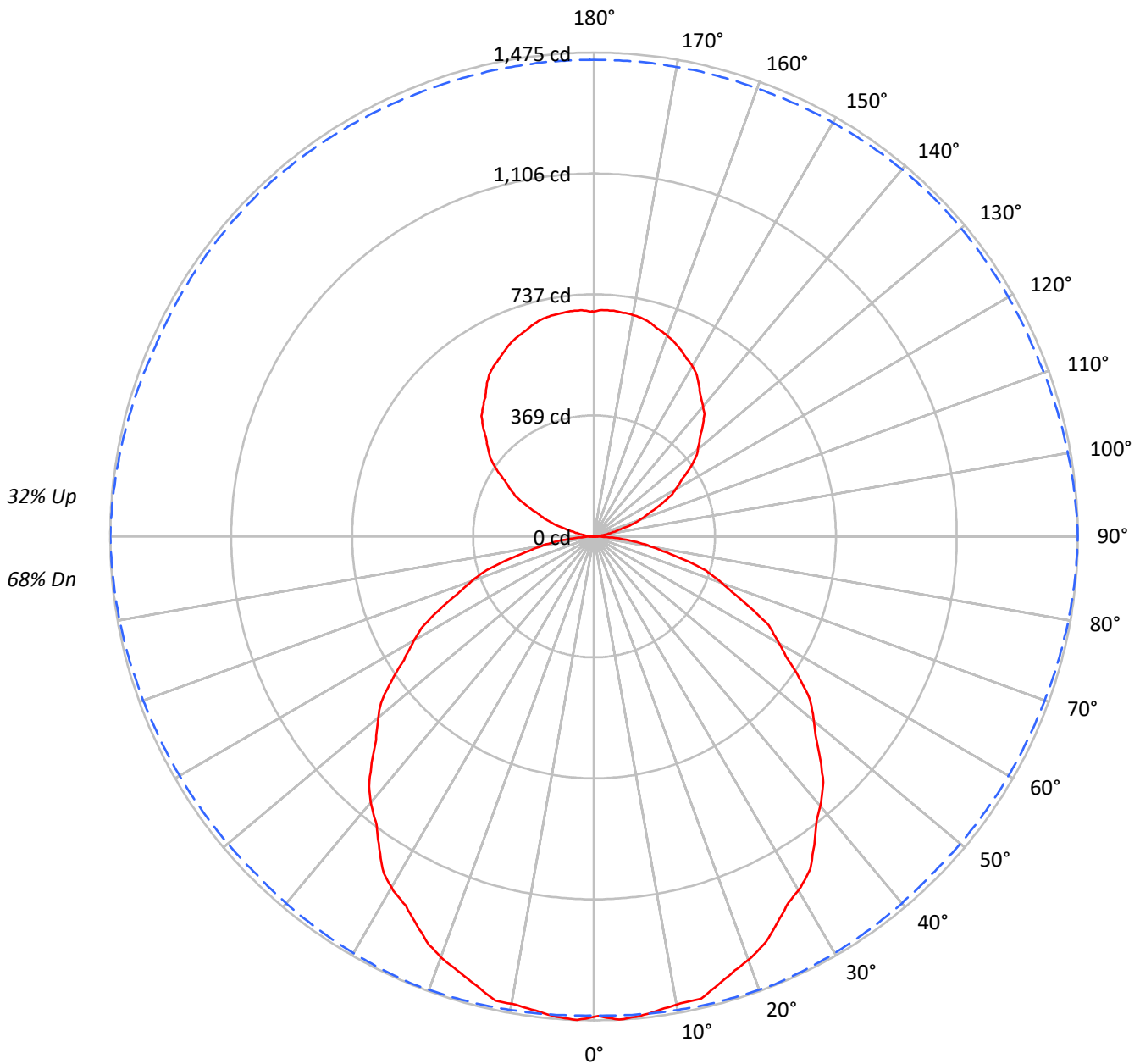
Lumens per Lamp: N/A
Luminaire Lumens: 5997.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.6
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



— 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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	92	85	78	73	87	80	74	69	71	67	63	64	60	57	56	54	51	47
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	29
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26
7	60	47	39	33	57	45	38	32	41	34	30	37	31	27	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	39	32	26	49	38	30	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23608	23608	23608
5°	23887	23801	23439
10°	23641	23728	23397
15°	23731	23696	23253
20°	23172	23536	22716
25°	23138	23193	22344
30°	22848	23146	22117
35°	22316	22775	21731
40°	22095	22476	21290
45°	21877	22071	20909
50°	21110	21775	20308
55°	20909	21357	19595
60°	19976	20728	18881
65°	19095	20065	17918
70°	18231	19133	16730
75°	16943	17604	15090
80°	14505	15388	12627
85°	10819	11986	8651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	2.3
10°-20°	395.8	6.6
20°-30°	594.1	9.9
30°-40°	710.2	11.8
40°-50°	730.9	12.2
50°-60°	658.0	11.0
60°-70°	499.7	8.3
70°-80°	285.1	4.8
80°-90°	74.6	1.2
90°-100°	18.0	0.3
100°-110°	77.9	1.3
110°-120°	222.3	3.7
120°-130°	337.9	5.6
130°-140°	365.5	6.1
140°-150°	349.2	5.8
150°-160°	287.2	4.8
160°-170°	187.7	3.1
170°-180°	64.9	1.1
0°-30°	1128.3	18.8
0°-40°	1838.5	30.7
0°-60°	3227.4	53.8
0°-90°	4086.8	68.1
90°-120°	318.2	5.3
90°-150°	1370.8	22.9
90°-180°	1911.0	31.9
0°-180°	5997.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1474	1462	1468	1443	1446	139
15°	1420	1411	1418	1397	1391	397
25°	1299	1306	1302	1288	1254	597
35°	1132	1160	1156	1130	1102	713
45°	958	966	967	945	916	732
55°	743	756	759	728	696	657
65°	500	514	525	489	469	497
75°	272	279	282	258	242	284
85°	58	67	65	58	47	70
90°	0	0	0	0	0	2
95°	3	4	12	29	27	4
105°	18	46	90	62	66	21
115°	164	436	225	107	121	225
125°	653	575	360	177	152	574
135°	723	654	473	294	232	557
145°	753	705	564	417	356	472
155°	762	728	630	523	474	352
165°	744	728	674	604	577	211
175°	701	703	690	666	648	68
180°	685	685	685	685	685	



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CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.5	1472.1	1456.2	1460.8	1474.9	1457.5	1462.2	1453.6	1452.8
5°	1473.8	1456.2	1462.2	1454.0	1468.5	1455.0	1443.1	1458.7	1446.2
7.5°	1448.8	1437.4	1460.7	1449.0	1456.6	1447.5	1448.8	1440.1	1439.9
10°	1442.0	1434.7	1442.0	1442.1	1447.3	1434.9	1433.5	1424.0	1427.1
12.5°	1422.5	1432.6	1421.6	1435.5	1446.5	1424.9	1416.5	1419.8	1425.4
15°	1419.7	1416.6	1411.2	1407.2	1417.6	1392.7	1397.4	1388.0	1391.1
17.5°	1376.6	1382.4	1385.1	1381.7	1391.1	1368.4	1363.1	1363.1	1364.5
20°	1348.6	1361.1	1369.8	1360.5	1369.8	1352.2	1348.6	1335.6	1322.1
22.5°	1333.3	1330.9	1348.6	1330.0	1342.7	1320.9	1330.8	1308.0	1315.3
25°	1298.8	1288.4	1306.2	1295.7	1301.9	1284.3	1288.1	1260.4	1254.2
27.5°	1252.7	1252.7	1263.5	1259.2	1263.5	1249.4	1245.5	1220.2	1217.7
30°	1225.5	1217.2	1237.2	1228.0	1241.5	1208.3	1210.7	1190.4	1186.3
32.5°	1189.0	1192.4	1205.8	1194.1	1210.0	1178.5	1184.4	1153.3	1158.3
35°	1132.2	1138.4	1159.8	1144.1	1155.5	1136.8	1130.0	1109.7	1102.5
37.5°	1095.9	1086.3	1096.7	1097.7	1101.2	1080.6	1073.2	1048.6	1050.9
40°	1048.3	1046.3	1061.1	1065.3	1066.4	1046.7	1040.9	1011.2	1010.1
42.5°	1005.0	1007.1	1019.5	1024.6	1024.8	1005.1	1004.4	972.2	976.2
45°	958.1	955.0	965.6	964.6	966.6	945.9	945.4	914.7	915.7
47.5°	884.5	891.1	898.3	900.4	908.5	890.9	878.4	853.9	850.1
50°	840.4	852.8	854.2	863.8	866.9	845.1	835.1	814.8	808.5
52.5°	801.3	808.0	813.4	819.7	824.5	804.3	789.2	769.9	768.6
55°	742.8	738.6	755.5	753.5	758.7	743.1	727.9	706.4	696.1
57.5°	667.0	675.1	678.9	686.8	690.3	673.3	660.0	637.3	636.4
60°	618.6	630.0	631.3	645.1	641.9	627.4	613.3	593.0	584.7
62.5°	574.5	577.6	586.3	595.9	597.0	580.8	570.0	548.0	542.2
65°	499.8	506.0	513.6	526.3	525.2	513.8	489.2	477.3	469.0
67.5°	432.1	434.1	444.4	450.4	454.6	438.8	424.6	408.0	404.5
70°	386.2	384.2	396.8	401.2	405.3	392.9	378.8	363.7	354.4
72.5°	336.1	338.2	347.6	354.5	356.9	344.5	329.6	318.0	312.0
75°	271.6	269.6	279.1	283.3	282.2	272.9	257.8	250.2	241.9
77.5°	200.1	204.3	209.9	213.7	212.2	206.0	194.2	182.6	179.1
80°	156.0	160.1	166.6	168.6	165.5	159.3	151.7	141.0	135.8
82.5°	115.2	117.7	124.1	127.9	123.1	119.3	112.7	104.5	98.5
85°	58.4	60.4	66.8	68.9	64.7	64.7	58.4	50.8	46.7
87.5°	13.6	14.4	19.5	25.4	20.4	22.0	17.0	12.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.9	2.8	10.1	11.2	9.8	9.8
95°	2.9	2.9	4.1	12.8	12.2	20.7	29.1	27.3	27.3
97.5°	5.9	6.5	9.3	37.8	28.5	27.7	39.3	43.7	44.5
100°	8.7	9.3	14.0	61.8	42.4	36.2	43.0	51.2	52.9
102.5°	12.0	13.0	22.3	97.1	59.6	42.5	49.1	56.3	58.5
105°	18.0	19.7	45.9	162.8	90.1	55.4	61.6	64.6	66.3
107.5°	26.7	33.7	123.7	228.8	127.9	73.2	79.8	79.3	80.8
110°	36.0	50.2	213.9	264.9	155.8	87.0	87.2	91.8	90.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	59.8	99.9	319.0	299.6	183.7	103.5	94.2	104.4	105.0
115°	163.9	281.6	436.0	348.3	225.0	132.9	107.0	116.9	120.9
117.5°	406.4	489.9	495.8	391.5	266.1	165.6	121.6	126.0	131.3
120°	551.0	568.1	523.7	418.0	293.5	189.0	133.7	132.1	137.8
122.5°	607.8	601.6	546.5	442.7	320.5	213.7	148.6	139.5	143.3
125°	653.3	637.4	574.9	476.9	359.8	250.7	176.7	151.7	151.7
127.5°	680.5	662.0	600.9	507.2	395.3	288.1	210.5	171.6	166.2
130°	696.4	676.5	616.7	528.2	418.5	312.2	234.3	188.7	180.2
132.5°	708.4	690.4	631.6	544.6	441.3	335.9	258.0	210.0	196.0
135°	723.1	707.8	654.5	569.8	473.2	371.4	293.5	246.7	232.5
137.5°	732.5	720.6	675.1	590.4	502.7	406.6	329.5	282.4	269.6
140°	737.6	728.0	685.3	602.7	520.8	429.3	354.6	306.6	294.7
142.5°	742.7	734.9	692.8	616.2	538.5	452.0	379.2	331.3	318.4
145°	753.3	744.2	705.1	632.6	563.8	483.7	417.4	367.1	355.7
147.5°	760.8	749.9	715.2	650.2	587.8	512.4	452.3	403.8	392.6
150°	762.6	751.3	720.8	659.6	602.2	530.0	473.7	427.6	416.8
152.5°	761.2	752.6	725.0	667.6	614.3	547.1	493.3	450.4	440.5
155°	762.0	754.1	728.3	678.4	629.5	571.0	522.6	484.5	474.3
157.5°	758.6	753.3	730.7	686.7	643.6	592.3	549.4	517.4	507.1
160°	758.6	750.6	730.7	691.4	653.3	606.2	566.2	537.5	529.0
162.5°	753.4	746.4	730.2	694.8	662.6	619.1	582.0	555.2	548.9
165°	744.0	738.3	727.7	699.3	674.3	636.8	604.5	580.6	576.6
167.5°	736.7	728.9	723.1	699.1	682.2	649.4	623.6	603.8	601.5
170°	728.3	723.2	718.4	697.8	685.9	658.6	637.1	617.3	615.0
172.5°	717.6	714.8	712.4	697.0	688.2	666.4	648.7	630.7	626.6
175°	701.0	703.3	702.8	695.1	690.5	676.3	665.6	652.6	647.5
177.5°	690.8	689.9	692.2	690.8	690.3	681.7	678.7	669.9	672.6
180°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7

(END OF REPORT)