

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: P522432

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522432
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-48)
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 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

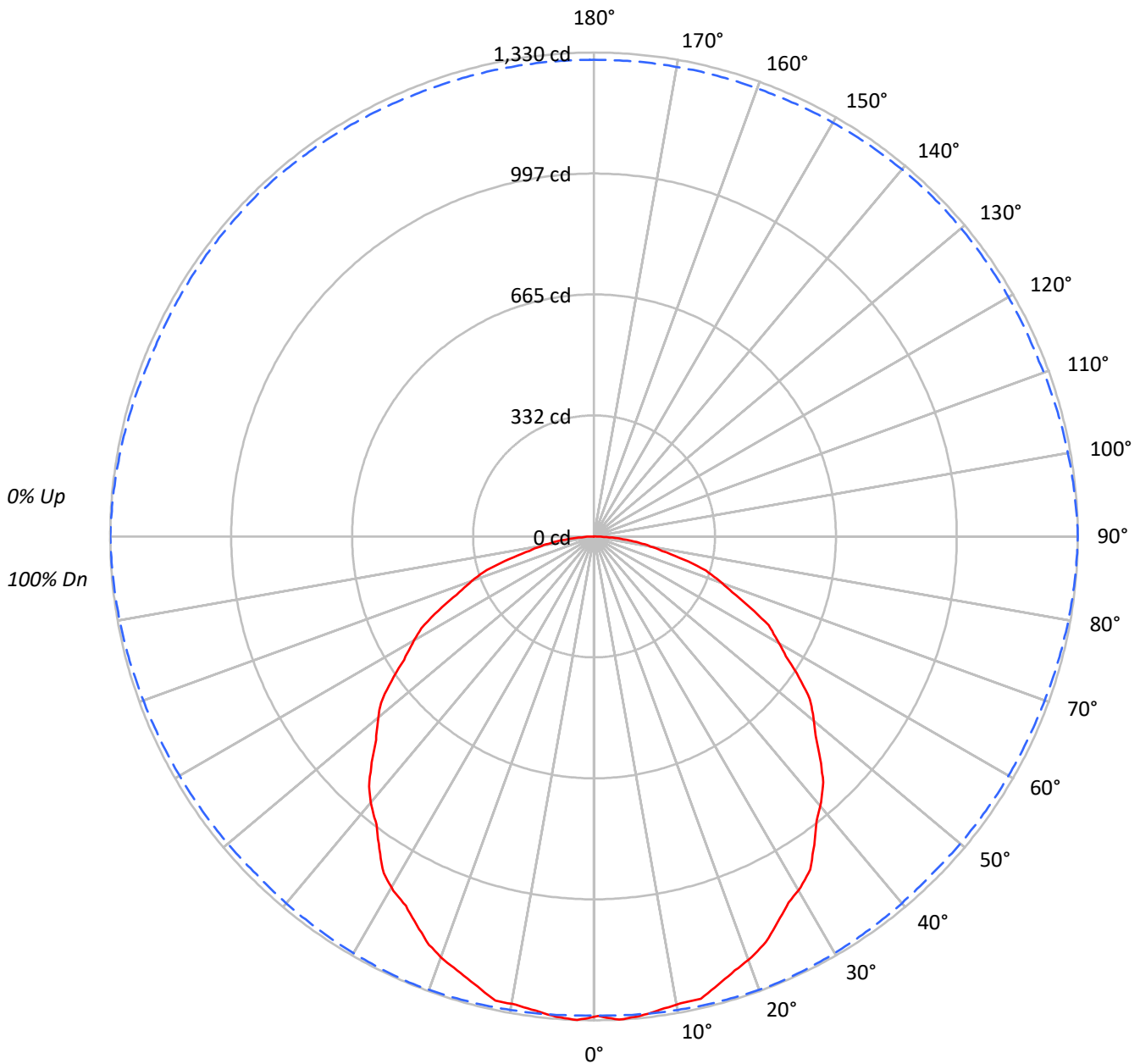
Lumens per Lamp: N/A
Luminaire Lumens: 3685.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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	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°	21287	21287	21287
5°	21538	21460	21135
10°	21317	21395	21097
15°	21397	21366	20966
20°	20893	21222	20483
25°	20861	20913	20147
30°	20601	20870	19941
35°	20120	20536	19594
40°	19924	20265	19197
45°	19726	19902	18854
50°	19032	19635	18311
55°	18852	19257	17667
60°	18012	18690	17024
65°	17215	18094	16157
70°	16442	17254	15087
75°	15278	15876	13606
80°	13073	13882	11390
85°	9744	10819	7799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.4
10°-20°	356.9	9.7
20°-30°	535.7	14.5
30°-40°	640.4	17.4
40°-50°	659.0	17.9
50°-60°	593.3	16.1
60°-70°	450.6	12.2
70°-80°	257.1	7.0
80°-90°	67.3	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°	1017.4	27.6
0°-40°	1657.8	45.0
0°-60°	2910.0	79.0
0°-90°	3685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1329	1318	1324	1301	1304	125
15°	1280	1272	1278	1260	1254	358
25°	1171	1178	1174	1162	1131	538
35°	1021	1046	1042	1019	994	643
45°	864	871	872	852	826	660
55°	670	681	684	656	628	593
65°	451	463	474	441	423	448
75°	245	252	254	232	218	256
85°	53	60	58	53	42	65
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°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1316.9	1327.3	1313.0	1317.1	1329.9	1314.2	1318.4	1310.7	1310.0
5°	1328.9	1313.0	1318.4	1311.0	1324.1	1312.0	1301.2	1315.3	1304.0
7.5°	1306.3	1296.0	1317.0	1306.5	1313.4	1305.2	1306.3	1298.5	1298.3
10°	1300.2	1293.7	1300.2	1300.3	1305.0	1293.8	1292.6	1284.0	1286.8
12.5°	1282.6	1291.8	1281.8	1294.3	1304.2	1284.8	1277.2	1280.2	1285.3
15°	1280.1	1277.3	1272.5	1268.8	1278.2	1255.8	1260.0	1251.5	1254.3
17.5°	1241.3	1246.5	1248.9	1245.9	1254.3	1233.9	1229.0	1229.1	1230.4
20°	1216.0	1227.2	1235.1	1226.7	1235.1	1219.2	1216.0	1204.3	1192.1
22.5°	1202.2	1200.0	1216.0	1199.2	1210.7	1191.0	1199.9	1179.4	1186.0
25°	1171.0	1161.7	1177.7	1168.3	1173.9	1158.0	1161.5	1136.5	1130.9
27.5°	1129.5	1129.5	1139.3	1135.4	1139.3	1126.6	1123.0	1100.2	1098.0
30°	1105.0	1097.5	1115.6	1107.2	1119.4	1089.4	1091.6	1073.4	1069.6
32.5°	1072.1	1075.1	1087.2	1076.7	1091.1	1062.6	1067.9	1039.9	1044.4
35°	1020.8	1026.5	1045.7	1031.6	1041.9	1025.0	1018.9	1000.6	994.1
37.5°	988.1	979.5	988.9	989.7	992.9	974.4	967.6	945.5	947.6
40°	945.3	943.4	956.7	960.6	961.5	943.7	938.6	911.8	910.8
42.5°	906.2	908.1	919.2	923.8	924.0	906.2	905.6	876.6	880.2
45°	863.9	861.1	870.6	869.7	871.6	852.9	852.5	824.7	825.7
47.5°	797.5	803.5	810.0	811.9	819.2	803.3	792.0	769.9	766.5
50°	757.7	769.0	770.2	778.8	781.7	762.0	753.0	734.6	729.0
52.5°	722.5	728.5	733.4	739.1	743.4	725.2	711.6	694.2	693.1
55°	669.7	666.0	681.2	679.4	684.1	670.0	656.3	637.0	627.6
57.5°	601.4	608.7	612.1	619.3	622.5	607.1	595.1	574.6	573.9
60°	557.8	568.1	569.3	581.6	578.8	565.7	553.0	534.6	527.2
62.5°	518.0	520.8	528.7	537.3	538.3	523.7	514.0	494.1	488.9
65°	450.6	456.2	463.1	474.5	473.6	463.3	441.1	430.4	422.9
67.5°	389.6	391.5	400.7	406.1	409.9	395.6	382.9	367.9	364.7
70°	348.3	346.4	357.8	361.7	365.5	354.2	341.6	328.0	319.6
72.5°	303.1	305.0	313.4	319.6	321.8	310.6	297.2	286.7	281.3
75°	244.9	243.1	251.6	255.4	254.5	246.1	232.5	225.6	218.1
77.5°	180.4	184.2	189.2	192.7	191.3	185.7	175.1	164.7	161.5
80°	140.6	144.4	150.2	152.1	149.3	143.6	136.8	127.1	122.5
82.5°	103.9	106.1	111.9	115.3	111.0	107.6	101.6	94.2	88.8
85°	52.6	54.5	60.3	62.1	58.4	58.4	52.6	45.8	42.1
87.5°	12.2	13.0	17.6	22.9	18.4	19.9	15.3	11.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)