

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: P522581

Luminaire Tested: **SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522581
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

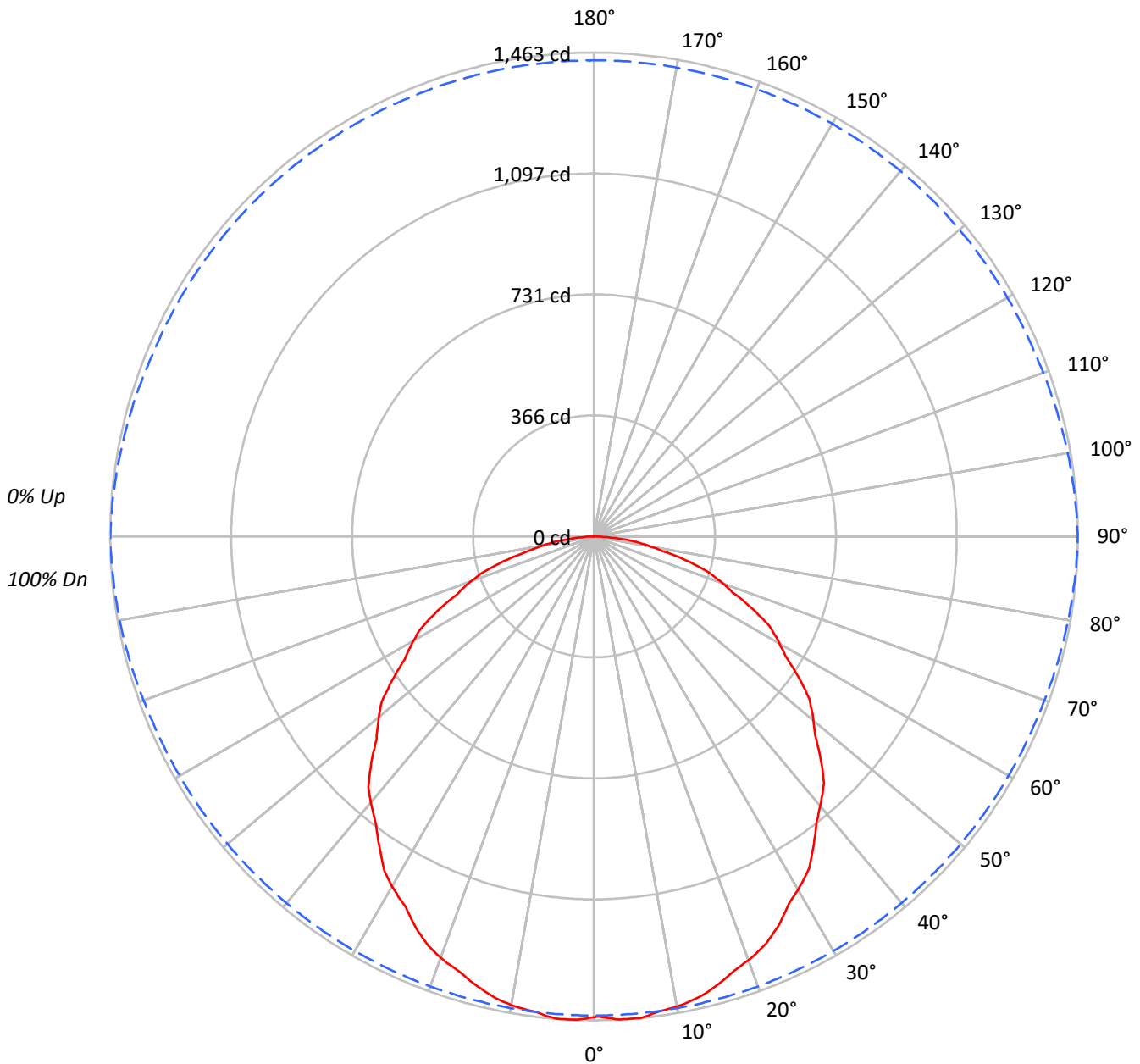
Lumens per Lamp: N/A
Luminaire Lumens: 4056.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 43.7
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 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	93	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°	23434	23434	23434
5°	23473	23705	23324
10°	23428	23628	23145
15°	23443	23495	22967
20°	23240	23364	22629
25°	22990	23154	22265
30°	22751	22883	21860
35°	22488	22549	21484
40°	22181	22268	21043
45°	21776	21939	20543
50°	21346	21552	19967
55°	20715	21115	19310
60°	20114	20641	18535
65°	19366	20065	17616
70°	18354	19076	16287
75°	17080	17779	14410
80°	15332	15137	11920
85°	11875	12060	7540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	392.3	9.7
20°-30°	590.1	14.5
30°-40°	705.0	17.4
40°-50°	724.8	17.9
50°-60°	652.5	16.1
60°-70°	496.9	12.2
70°-80°	283.3	7.0
80°-90°	74.4	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°	1119.8	27.6
0°-40°	1824.8	45.0
0°-60°	3202.2	78.9
0°-90°	4056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1451	1451	1451	1451	1451	
5°	1448	1446	1463	1442	1439	138
15°	1402	1402	1406	1385	1374	395
25°	1290	1302	1300	1272	1250	595
35°	1141	1154	1144	1116	1090	713
45°	954	961	961	924	900	735
55°	736	752	750	712	686	660
65°	507	520	525	482	461	501
75°	274	282	285	251	231	290
85°	64	69	65	54	41	78
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°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1449.7	1452.9	1451.4	1449.2	1461.9	1447.6	1449.7	1447.9	1440.0
5°	1448.3	1447.3	1446.3	1447.6	1462.6	1443.6	1442.2	1439.1	1439.1
7.5°	1442.8	1441.8	1440.6	1436.4	1448.5	1429.8	1430.4	1427.2	1423.1
10°	1429.0	1432.0	1430.0	1428.2	1441.2	1419.3	1419.8	1416.6	1411.7
12.5°	1422.5	1422.3	1421.0	1415.2	1427.3	1405.4	1405.2	1401.2	1397.8
15°	1402.5	1401.5	1402.5	1392.6	1405.6	1385.7	1385.2	1377.0	1374.0
17.5°	1373.8	1375.4	1376.9	1366.7	1378.5	1354.8	1354.5	1344.9	1343.1
20°	1352.6	1352.6	1359.8	1348.8	1359.8	1336.9	1337.4	1318.0	1317.0
22.5°	1327.4	1329.0	1337.0	1326.0	1335.3	1311.6	1310.5	1294.3	1290.1
25°	1290.5	1291.5	1301.7	1288.8	1299.7	1274.8	1272.2	1250.8	1249.8
27.5°	1250.4	1250.0	1262.3	1247.2	1255.9	1233.9	1230.7	1208.1	1206.7
30°	1220.3	1218.3	1234.6	1219.5	1227.4	1204.6	1203.0	1175.5	1172.5
32.5°	1188.6	1187.4	1202.0	1189.3	1194.9	1173.6	1165.6	1142.9	1141.5
35°	1140.9	1137.0	1154.2	1141.0	1144.0	1124.1	1115.5	1092.0	1090.0
37.5°	1086.6	1084.8	1097.4	1089.1	1093.9	1073.0	1058.7	1036.3	1035.1
40°	1052.4	1047.4	1061.5	1052.5	1056.5	1035.6	1022.9	1000.4	998.4
42.5°	1010.9	1010.7	1022.5	1015.0	1019.8	998.1	982.2	960.5	957.7
45°	953.7	950.7	960.8	958.8	960.8	937.9	924.1	899.7	899.7
47.5°	890.6	888.6	902.2	896.7	899.5	879.6	861.9	840.0	836.4
50°	849.8	847.9	859.0	856.0	858.0	838.1	820.3	796.9	794.9
52.5°	807.5	805.5	817.5	813.6	814.8	797.3	778.0	756.9	753.4
55°	735.9	740.8	752.1	751.1	750.1	732.2	712.4	691.0	686.0
57.5°	674.2	676.2	684.2	685.7	682.3	670.6	646.5	625.6	620.4
60°	622.9	628.9	640.2	640.2	639.2	624.2	598.5	580.0	574.0
62.5°	575.7	582.4	592.1	594.6	593.6	575.5	553.7	536.0	528.4
65°	506.9	511.8	520.1	525.2	525.2	505.3	482.4	466.0	461.1
67.5°	435.2	441.2	448.8	454.9	452.1	433.6	413.8	399.0	390.6
70°	388.8	394.8	400.0	406.1	404.1	387.1	367.4	351.0	345.0
72.5°	341.6	348.3	352.8	358.0	355.2	338.3	321.0	306.2	298.6
75°	273.8	275.8	281.9	286.0	285.0	268.1	251.4	239.0	231.0
77.5°	207.2	208.0	213.1	214.8	210.1	199.3	185.8	176.1	168.1
80°	164.9	164.9	170.0	170.8	162.8	156.9	143.5	136.2	128.2
82.5°	121.7	122.5	129.3	129.3	122.9	116.2	106.9	98.8	94.0
85°	64.1	65.1	69.2	72.1	65.1	61.2	53.9	45.7	40.7
87.5°	17.1	17.9	23.6	26.7	20.4	20.4	13.0	8.9	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)