

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: P522580

Luminaire Tested: **SQW-F-0U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522580
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 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

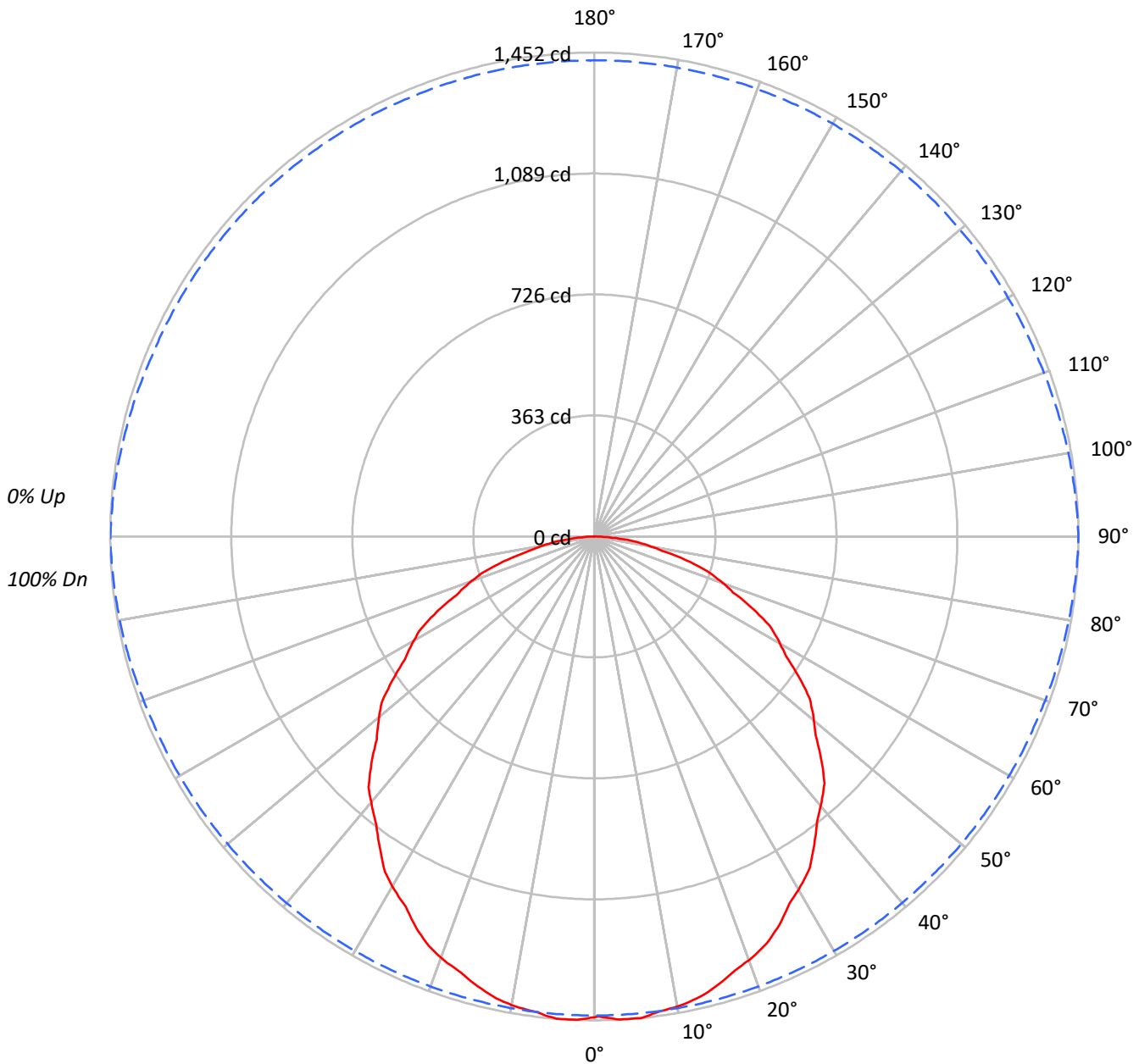
Lumens per Lamp: N/A
Luminaire Lumens: 4028.3 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 43.8
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	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°	23269	23269	23269
5°	23308	23538	23161
10°	23263	23463	22982
15°	23280	23330	22806
20°	23077	23199	22471
25°	22830	22992	22110
30°	22592	22723	21707
35°	22330	22391	21335
40°	22025	22110	20896
45°	21623	21783	20400
50°	21197	21401	19826
55°	20569	20966	19175
60°	19972	20496	18406
65°	19228	19924	17490
70°	18227	18940	16173
75°	16962	17654	14311
80°	15221	15035	11836
85°	11801	11986	7484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.4
10°-20°	389.6	9.7
20°-30°	586.0	14.5
30°-40°	700.1	17.4
40°-50°	719.8	17.9
50°-60°	648.0	16.1
60°-70°	493.4	12.2
70°-80°	281.3	7.0
80°-90°	73.8	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°	1111.9	27.6
0°-40°	1812.0	45.0
0°-60°	3179.7	78.9
0°-90°	4028.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1441	1441	1441	1441	1441	
5°	1438	1436	1452	1432	1429	137
15°	1393	1393	1396	1376	1364	392
25°	1282	1293	1291	1263	1241	590
35°	1133	1146	1136	1108	1082	708
45°	947	954	954	918	893	729
55°	731	747	745	707	681	656
65°	503	516	522	479	458	497
75°	272	280	283	250	229	288
85°	64	69	65	54	40	77
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°	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	1439.6	1442.7	1441.2	1439.0	1451.7	1437.5	1439.6	1437.8	1429.9
5°	1438.1	1437.2	1436.1	1437.5	1452.3	1433.5	1432.1	1429.0	1429.0
7.5°	1432.7	1431.7	1430.5	1426.3	1438.3	1419.8	1420.4	1417.2	1413.1
10°	1418.9	1421.9	1420.0	1418.2	1431.1	1409.3	1409.8	1406.7	1401.8
12.5°	1412.5	1412.3	1411.1	1405.3	1417.3	1395.6	1395.3	1391.4	1388.0
15°	1392.7	1391.7	1392.7	1382.8	1395.7	1375.9	1375.5	1367.3	1364.4
17.5°	1364.2	1365.7	1367.2	1357.2	1368.8	1345.3	1345.0	1335.4	1333.6
20°	1343.1	1343.1	1350.2	1339.3	1350.2	1327.5	1328.0	1308.8	1307.8
22.5°	1318.1	1319.7	1327.6	1316.7	1326.0	1302.4	1301.3	1285.2	1281.1
25°	1281.5	1282.5	1292.6	1279.7	1290.6	1265.9	1263.3	1242.1	1241.1
27.5°	1241.7	1241.3	1253.4	1238.4	1247.1	1225.2	1222.1	1199.6	1198.2
30°	1211.8	1209.8	1225.9	1210.9	1218.8	1196.1	1194.6	1167.2	1164.3
32.5°	1180.2	1179.0	1193.6	1181.0	1186.5	1165.3	1157.4	1134.9	1133.5
35°	1132.9	1129.0	1146.1	1133.0	1136.0	1116.2	1107.7	1084.4	1082.4
37.5°	1079.0	1077.2	1089.7	1081.5	1086.2	1065.5	1051.3	1029.0	1027.8
40°	1045.0	1040.1	1054.1	1045.1	1049.0	1028.3	1015.7	993.4	991.4
42.5°	1003.8	1003.6	1015.3	1007.9	1012.7	991.1	975.3	953.8	951.0
45°	947.0	944.0	954.0	952.1	954.0	931.3	917.7	893.4	893.4
47.5°	884.3	882.3	895.8	890.4	893.2	873.4	855.8	834.1	830.5
50°	843.9	841.9	853.0	850.0	852.0	832.2	814.6	791.3	789.3
52.5°	801.8	799.9	811.7	807.9	809.1	791.7	772.5	751.6	748.1
55°	730.7	735.6	746.9	745.8	744.8	727.1	707.4	686.1	681.2
57.5°	669.4	671.4	679.4	680.9	677.5	665.9	642.0	621.2	616.1
60°	618.5	624.4	635.7	635.7	634.7	619.9	594.3	575.9	570.0
62.5°	571.6	578.3	588.0	590.4	589.4	571.4	549.8	532.2	524.7
65°	503.3	508.2	516.4	521.5	521.5	501.7	479.0	462.8	457.8
67.5°	432.2	438.1	445.7	451.7	448.9	430.5	410.9	396.2	387.9
70°	386.1	392.0	397.2	403.2	401.2	384.4	364.8	348.5	342.6
72.5°	339.2	345.9	350.3	355.5	352.7	335.9	318.8	304.0	296.5
75°	271.9	273.8	279.9	284.0	283.0	266.2	249.6	237.3	229.4
77.5°	205.8	206.6	211.6	213.3	208.6	197.9	184.5	174.9	167.0
80°	163.7	163.7	168.8	169.6	161.7	155.8	142.5	135.2	127.3
82.5°	120.9	121.7	128.4	128.4	122.1	115.4	106.1	98.1	93.4
85°	63.7	64.7	68.7	71.6	64.7	60.7	53.6	45.4	40.4
87.5°	17.0	17.8	23.4	26.5	20.2	20.2	12.9	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)