

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: P522436

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522436
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-0U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

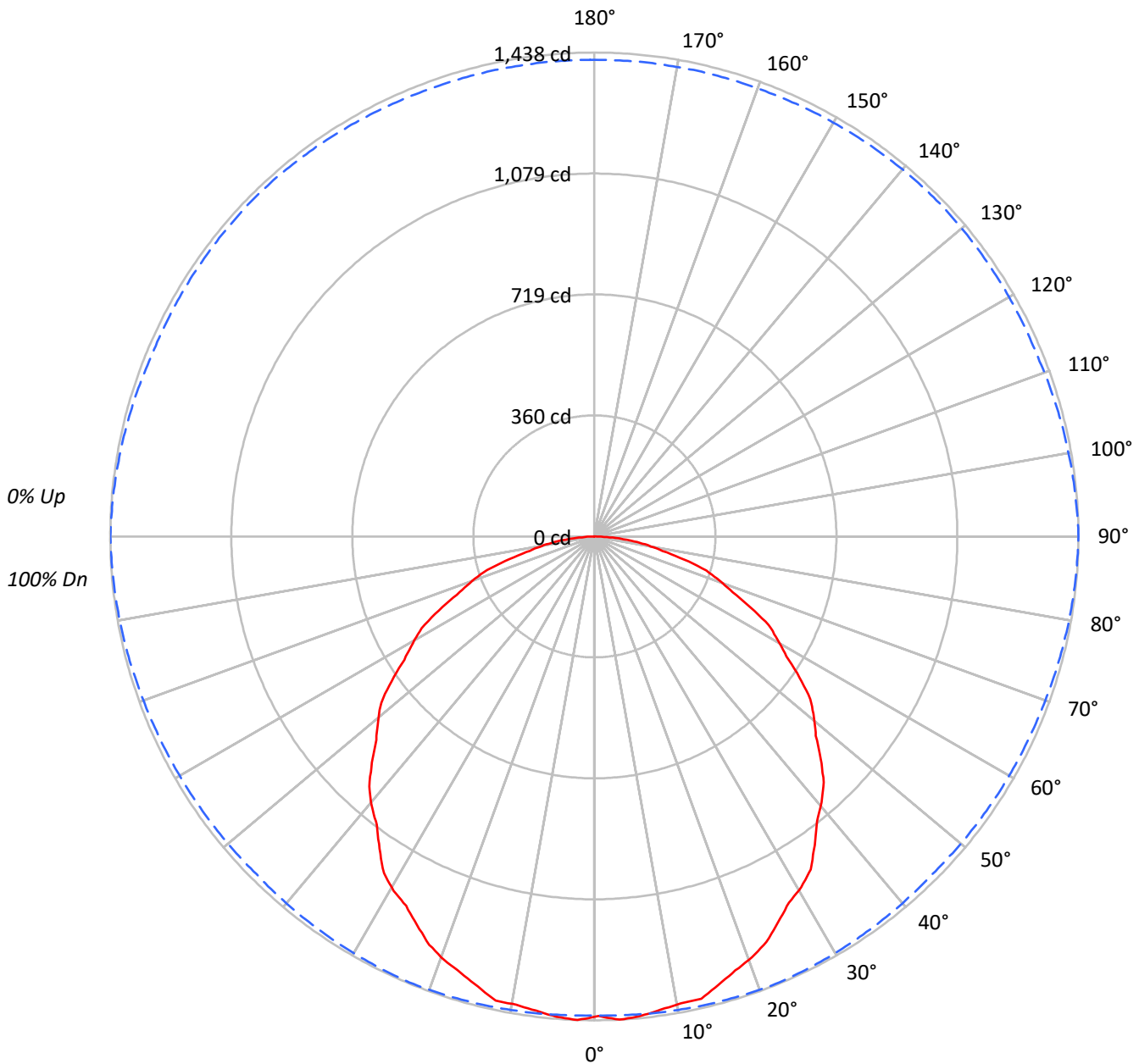
Lumens per Lamp: N/A
Luminaire Lumens: 3985.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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	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°	23021	23021	23021
5°	23293	23211	22857
10°	23055	23140	22817
15°	23142	23107	22674
20°	22596	22952	22153
25°	22563	22618	21788
30°	22281	22570	21567
35°	21760	22210	21191
40°	21547	21918	20763
45°	21336	21523	20390
50°	20585	21235	19806
55°	20389	20825	19108
60°	19478	20215	18409
65°	18621	19568	17471
70°	17778	18661	16315
75°	16525	17168	14716
80°	14142	15007	12311
85°	10541	11689	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.4
10°-20°	385.9	9.7
20°-30°	579.4	14.5
30°-40°	692.6	17.4
40°-50°	712.7	17.9
50°-60°	641.6	16.1
60°-70°	487.3	12.2
70°-80°	278.1	7.0
80°-90°	72.8	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°	1100.3	27.6
0°-40°	1792.9	45.0
0°-60°	3147.2	79.0
0°-90°	3985.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1437	1426	1432	1407	1410	135
15°	1384	1376	1382	1363	1356	387
25°	1266	1274	1270	1256	1223	582
35°	1104	1131	1127	1102	1075	695
45°	934	942	943	922	893	714
55°	724	737	740	710	679	641
65°	487	501	512	477	457	485
75°	265	272	275	251	236	277
85°	57	65	63	57	46	70
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°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1424.2	1435.5	1420.1	1424.5	1438.3	1421.3	1425.8	1417.6	1416.7
5°	1437.2	1420.0	1425.8	1417.9	1432.1	1418.9	1407.2	1422.5	1410.3
7.5°	1412.8	1401.7	1424.4	1413.0	1420.5	1411.6	1412.8	1404.3	1404.1
10°	1406.2	1399.1	1406.2	1406.3	1411.4	1399.2	1397.9	1388.7	1391.7
12.5°	1387.1	1397.1	1386.3	1399.8	1410.5	1389.5	1381.4	1384.6	1390.0
15°	1384.5	1381.4	1376.2	1372.3	1382.4	1358.1	1362.7	1353.5	1356.5
17.5°	1342.4	1348.1	1350.7	1347.4	1356.5	1334.5	1329.2	1329.2	1330.7
20°	1315.1	1327.3	1335.8	1326.7	1335.8	1318.6	1315.1	1302.4	1289.3
22.5°	1300.2	1297.8	1315.1	1297.0	1309.3	1288.1	1297.7	1275.6	1282.6
25°	1266.5	1256.4	1273.7	1263.5	1269.6	1252.4	1256.2	1229.1	1223.0
27.5°	1221.6	1221.6	1232.1	1227.9	1232.1	1218.4	1214.6	1189.9	1187.4
30°	1195.1	1187.0	1206.5	1197.5	1210.6	1178.2	1180.6	1160.9	1156.8
32.5°	1159.5	1162.7	1175.9	1164.4	1180.0	1149.2	1155.0	1124.6	1129.5
35°	1104.0	1110.1	1131.0	1115.7	1126.8	1108.6	1102.0	1082.2	1075.1
37.5°	1068.7	1059.4	1069.5	1070.4	1073.8	1053.8	1046.5	1022.6	1024.8
40°	1022.3	1020.3	1034.7	1038.9	1039.9	1020.7	1015.1	986.1	985.1
42.5°	980.1	982.1	994.2	999.1	999.3	980.1	979.5	948.1	951.9
45°	934.4	931.3	941.6	940.6	942.6	922.4	921.9	892.0	893.0
47.5°	862.5	869.0	876.0	878.0	885.9	868.7	856.5	832.7	829.0
50°	819.5	831.6	833.0	842.3	845.4	824.1	814.3	794.5	788.5
52.5°	781.4	787.9	793.2	799.3	804.0	784.4	769.6	750.8	749.6
55°	724.3	720.3	736.7	734.8	739.8	724.6	709.8	688.9	678.8
57.5°	650.4	658.3	662.0	669.7	673.2	656.6	643.6	621.4	620.6
60°	603.2	614.4	615.7	629.0	626.0	611.8	598.1	578.2	570.1
62.5°	560.2	563.2	571.8	581.1	582.1	566.4	555.9	534.4	528.7
65°	487.4	493.4	500.8	513.2	512.2	501.1	477.0	465.4	457.3
67.5°	421.3	423.4	433.3	439.2	443.3	427.9	414.1	397.9	394.4
70°	376.6	374.6	387.0	391.2	395.3	383.1	369.4	354.7	345.6
72.5°	327.8	329.8	339.0	345.7	348.1	335.9	321.4	310.1	304.2
75°	264.9	262.9	272.1	276.2	275.2	266.1	251.4	244.0	235.9
77.5°	195.1	199.2	204.7	208.4	206.9	200.9	189.4	178.1	174.7
80°	152.1	156.2	162.5	164.5	161.4	155.3	148.0	137.5	132.4
82.5°	112.4	114.8	121.1	124.7	120.0	116.4	109.9	101.9	96.0
85°	56.9	58.9	65.2	67.2	63.1	63.1	56.9	49.6	45.5
87.5°	13.2	14.1	19.0	24.7	19.9	21.5	16.6	12.3	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)