

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: P521530

Luminaire Tested: **SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521530
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-34)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

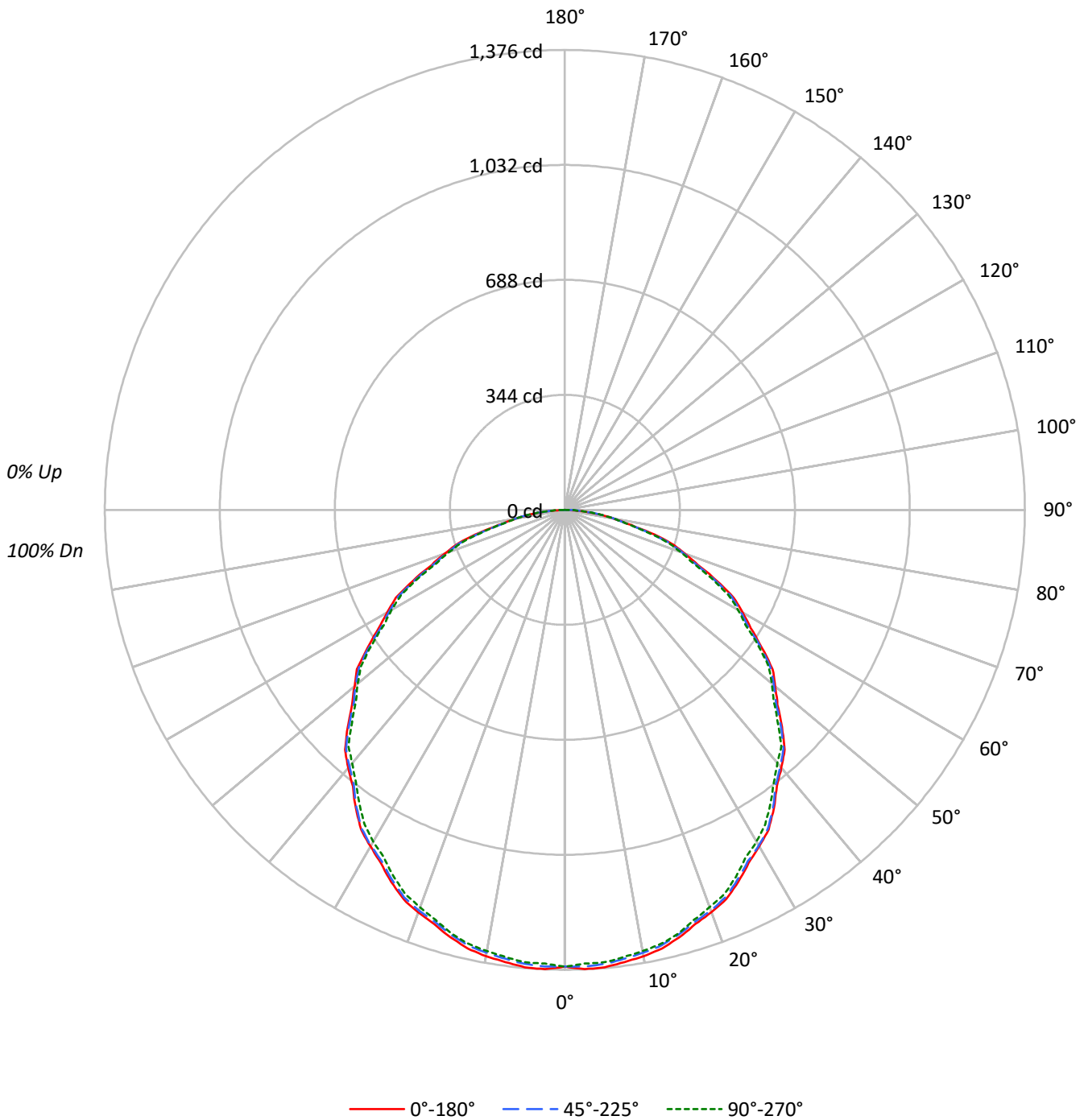
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.7 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (A_{in}): 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





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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	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12610	12610	12610
5°	12722	12632	12586
10°	12704	12612	12557
15°	12644	12568	12531
20°	12582	12524	12428
25°	12506	12436	12326
30°	12387	12356	12210
35°	12278	12234	12080
40°	12137	12078	11913
45°	11983	11919	11753
50°	11788	11718	11605
55°	11585	11474	11348
60°	11317	11190	11027
65°	10946	10732	10540
70°	10324	10083	9900
75°	9407	9094	8919
80°	7715	7715	7715
85°	5505	6235	6542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.3
10°-20°	370.6	9.5
20°-30°	560.6	14.4
30°-40°	675.1	17.3
40°-50°	701.1	18.0
50°-60°	636.3	16.3
60°-70°	485.5	12.4
70°-80°	271.4	7.0
80°-90°	70.7	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°	1060.6	27.2
0°-40°	1735.7	44.5
0°-60°	3073.2	78.8
0°-90°	3900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1374	1359	1364	1361	1359	130
15°	1324	1310	1316	1312	1312	373
25°	1228	1216	1222	1211	1211	566
35°	1090	1080	1086	1072	1072	681
45°	918	912	914	901	901	708
55°	720	718	713	706	706	644
65°	501	498	492	485	483	495
75°	264	260	255	251	250	277
85°	52	57	59	60	62	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.8	1366.8	1366.8	1366.8	1366.8
2.5°	1375.5	1363.9	1367.6	1365.9	1359.0
5°	1373.7	1359.3	1363.9	1360.9	1359.0
7.5°	1364.7	1350.3	1354.9	1350.9	1349.8
10°	1356.0	1341.6	1346.2	1342.3	1340.3
12.5°	1344.3	1330.6	1335.2	1330.5	1330.1
15°	1323.7	1310.2	1315.8	1311.9	1311.9
17.5°	1299.5	1287.0	1292.8	1287.1	1286.2
20°	1281.5	1269.0	1275.6	1266.7	1265.8
22.5°	1261.1	1249.3	1255.2	1244.8	1245.4
25°	1228.5	1216.0	1221.6	1210.8	1210.8
27.5°	1191.0	1178.7	1185.7	1172.7	1172.0
30°	1162.7	1151.2	1159.8	1146.1	1146.1
32.5°	1134.5	1124.5	1130.7	1117.7	1115.4
35°	1090.1	1080.5	1086.2	1072.5	1072.5
37.5°	1041.5	1033.6	1036.6	1023.9	1026.7
40°	1007.7	999.1	1002.8	990.0	989.1
42.5°	973.2	965.3	968.3	955.6	958.4
45°	918.4	911.7	913.5	900.8	900.8
47.5°	862.9	857.9	856.4	845.1	847.0
50°	821.3	819.4	816.4	806.6	808.5
52.5°	783.6	779.4	775.5	766.5	767.7
55°	720.2	718.3	713.3	705.5	705.5
57.5°	659.6	655.3	649.6	641.5	641.5
60°	613.3	611.3	606.4	597.6	597.6
62.5°	569.3	566.6	560.9	552.8	552.0
65°	501.4	497.6	491.6	484.7	482.8
67.5°	430.6	426.5	421.7	415.2	414.1
70°	382.7	377.9	373.8	368.9	367.0
72.5°	334.0	331.5	326.7	321.8	320.7
75°	263.9	260.1	255.1	251.2	250.2
77.5°	190.0	189.4	187.6	185.1	186.0
80°	145.2	146.2	145.2	144.3	145.2
82.5°	105.2	107.7	107.5	107.4	108.3
85°	52.0	56.8	58.9	59.9	61.8
87.5°	14.9	19.5	23.5	24.4	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)