

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P521523

Luminaire Tested: SQ4-F-0U-100D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521523
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-38)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4009.1 lumens
Efficiency: N/A
Efficacy: 94.6 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

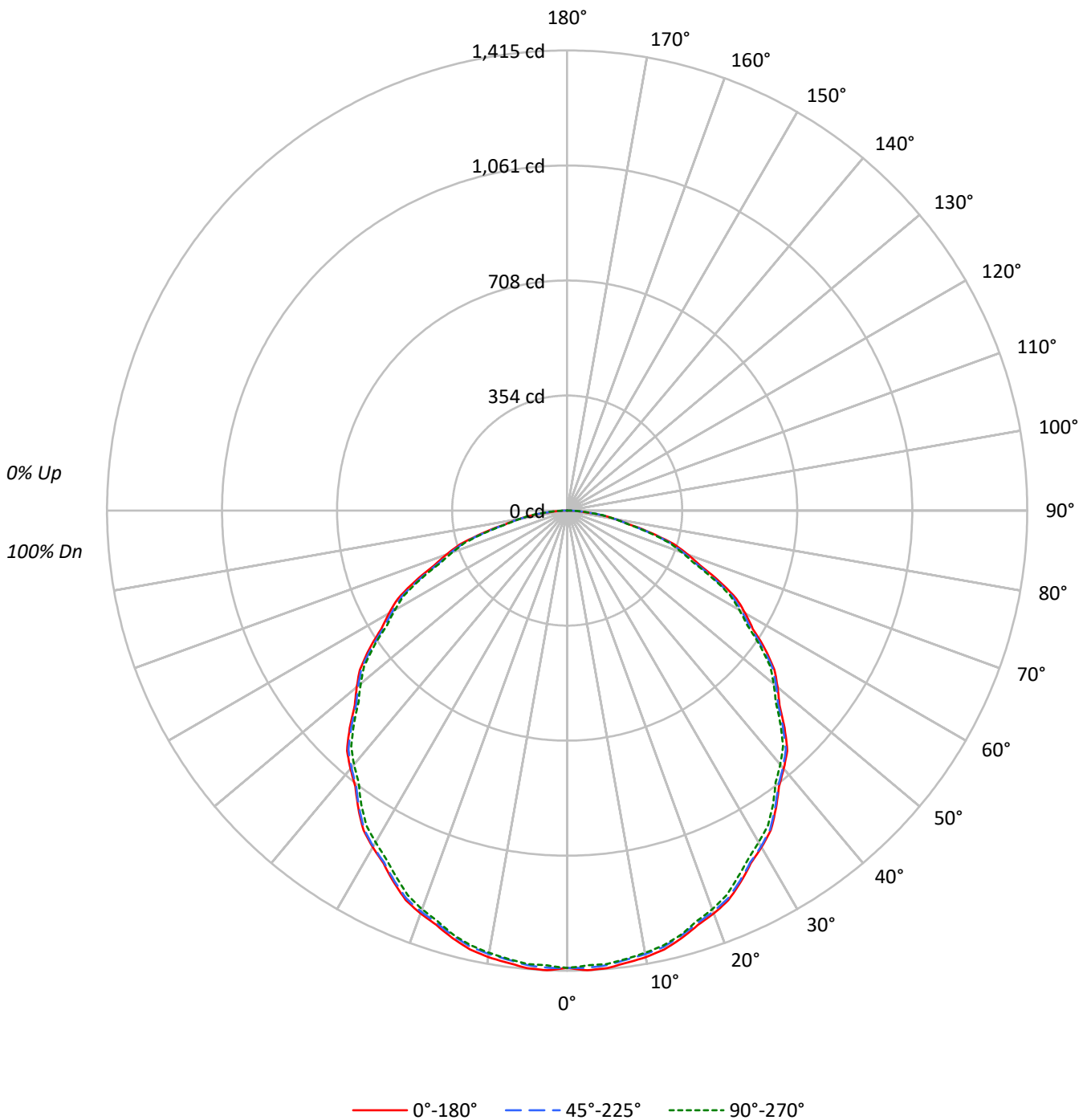
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70	70	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50	50	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43	43	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38	38	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30	30	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27	27	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12975	12975	12975
5°	13078	12997	12960
10°	13064	12974	12937
15°	13003	12928	12900
20°	12944	12887	12810
25°	12844	12794	12656
30°	12734	12703	12547
35°	12605	12561	12429
40°	12479	12432	12279
45°	12334	12232	12093
50°	12124	12041	11900
55°	11955	11781	11639
60°	11677	11442	11280
65°	11300	10979	10809
70°	10642	10299	10116
75°	9607	9365	9226
80°	7938	7938	7837
85°	5579	6404	6616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.3
10°-20°	381.4	9.5
20°-30°	576.7	14.4
30°-40°	694.5	17.3
40°-50°	721.2	18.0
50°-60°	653.8	16.3
60°-70°	497.9	12.4
70°-80°	278.2	6.9
80°-90°	72.2	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°	1091.2	27.2
0°-40°	1785.7	44.5
0°-60°	3160.8	78.8
0°-90°	4009.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1412	1399	1403	1399	1399	134
15°	1361	1349	1354	1351	1351	384
25°	1262	1251	1257	1247	1243	581
35°	1119	1112	1115	1104	1104	700
45°	945	940	938	928	927	728
55°	743	740	732	724	724	663
65°	518	512	503	496	495	510
75°	270	266	263	259	259	285
85°	53	57	60	62	62	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1414.8	1403.4	1407.0	1404.6	1400.0
5°	1412.1	1398.7	1403.3	1399.4	1399.4
7.5°	1402.3	1389.6	1392.6	1390.2	1390.2
10°	1394.5	1380.2	1384.8	1380.9	1380.9
12.5°	1382.0	1369.2	1373.8	1369.9	1369.1
15°	1361.3	1348.9	1353.5	1350.6	1350.6
17.5°	1336.3	1324.5	1330.5	1325.8	1324.2
20°	1318.4	1305.0	1312.5	1304.7	1304.7
22.5°	1296.5	1284.6	1291.4	1282.0	1280.5
25°	1261.7	1251.2	1256.8	1247.0	1243.2
27.5°	1222.7	1211.4	1219.7	1208.7	1206.6
30°	1195.3	1184.8	1192.4	1180.6	1177.7
32.5°	1165.6	1156.7	1161.9	1150.9	1148.8
35°	1119.1	1112.5	1115.2	1104.5	1103.5
37.5°	1069.7	1063.2	1065.8	1053.9	1053.1
40°	1036.1	1030.4	1032.2	1019.5	1019.5
42.5°	1001.8	995.3	995.5	983.6	982.8
45°	945.3	939.6	937.5	927.7	926.8
47.5°	885.4	882.7	879.5	869.7	869.7
50°	844.7	842.8	838.9	829.1	829.1
52.5°	803.3	802.2	796.7	788.4	786.9
55°	743.2	740.3	732.4	723.6	723.6
57.5°	677.3	675.1	666.2	659.1	657.4
60°	632.8	629.0	620.1	612.3	611.3
62.5°	586.7	583.7	574.0	567.0	565.2
65°	517.6	511.9	502.9	496.1	495.1
67.5°	444.5	438.0	430.3	424.6	422.7
70°	394.5	388.8	381.8	376.9	375.0
72.5°	345.3	339.6	333.4	330.1	329.7
75°	269.5	265.7	262.7	258.8	258.8
77.5°	195.5	193.2	191.6	189.6	189.6
80°	149.4	149.4	149.4	147.5	147.5
82.5°	107.2	109.5	111.1	110.0	110.0
85°	52.7	56.6	60.5	61.5	62.5
87.5°	14.8	19.4	24.2	25.0	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)