

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:

Luminaire Tested: SQ4-WB-0U-050D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

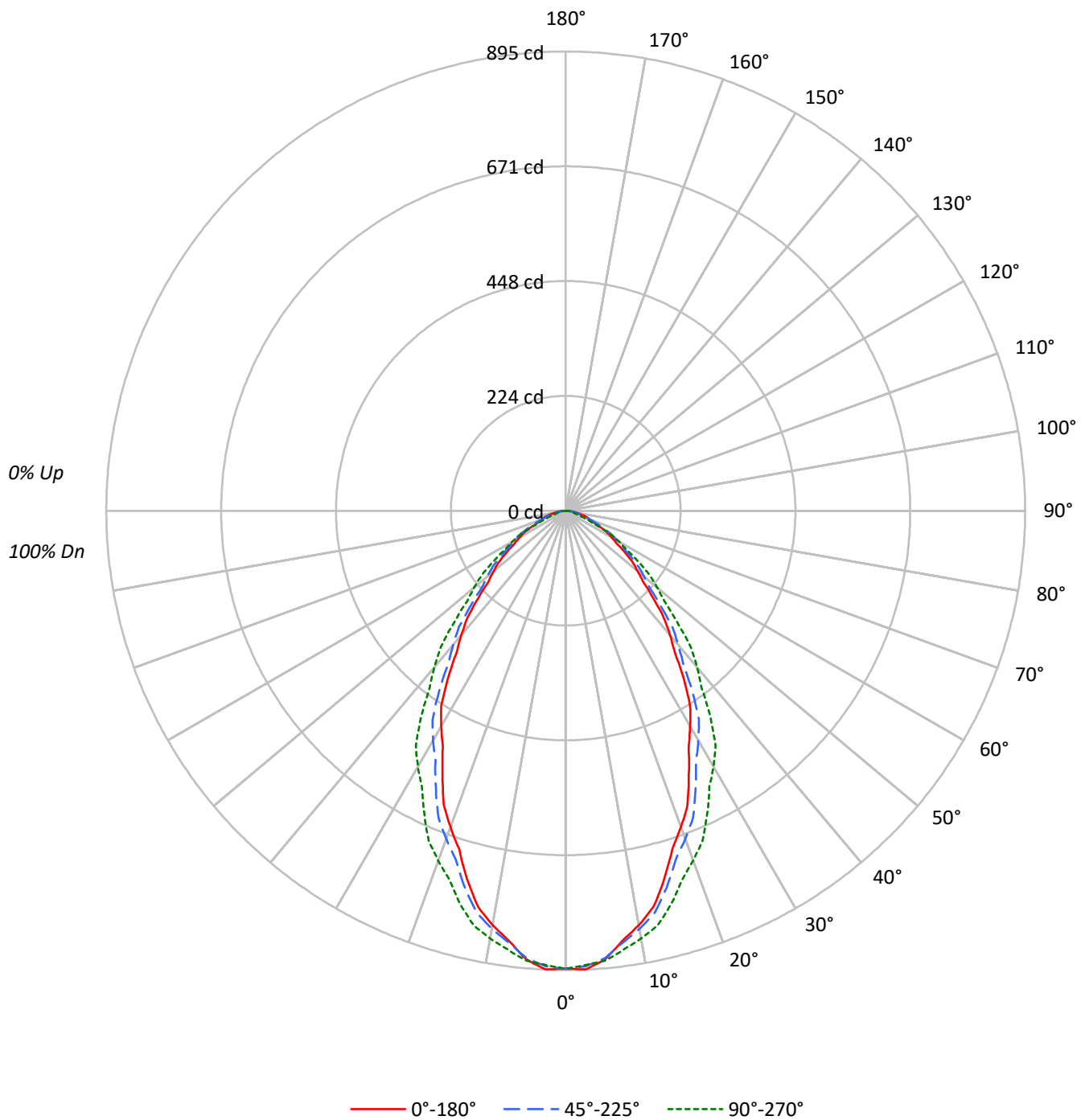
Lumens per Lamp: N/A
Luminaire Lumens: 1300.5 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8234	8234	8234
5°	8132	8103	8150
10°	7683	7752	7932
15°	7092	7257	7582
20°	6441	6683	7125
25°	5777	6092	6638
30°	5165	5504	6133
35°	4517	4843	5536
40°	3802	4103	4792
45°	3138	3408	4000
50°	2619	2855	3333
55°	2223	2450	2752
60°	1901	2124	2198
65°	1513	1788	1419
70°	1341	1395	866
75°	1244	1130	531
80°	1142	1041	457
85°	1037	953	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	6.3
10°-20°	212.9	16.4
20°-30°	275.8	21.2
30°-40°	270.1	20.8
40°-50°	206.7	15.9
50°-60°	137.7	10.6
60°-70°	75.2	5.8
70°-80°	31.3	2.4
80°-90°	8.9	0.7
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°	570.6	43.9
0°-40°	840.7	64.6
0°-60°	1185.2	91.1
0°-90°	1300.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	878	869	875	877	880	82
15°	742	740	760	780	794	207
25°	568	569	598	624	652	261
35°	401	403	430	459	492	249
45°	240	245	261	281	307	188
55°	138	144	152	158	171	125
65°	69	75	82	72	65	72
75°	35	35	32	22	15	37
85°	10	10	9	6	4	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.5	892.5	892.5	892.5	892.5
2.5°	894.7	886.8	888.8	888.7	886.3
5°	878.0	869.2	874.9	876.9	880.0
7.5°	845.4	838.8	849.1	856.8	863.0
10°	820.1	814.3	827.5	838.7	846.7
12.5°	790.6	785.8	802.1	817.1	827.6
15°	742.5	739.8	759.8	780.4	793.8
17.5°	691.1	689.8	712.6	736.7	753.9
20°	656.0	655.6	680.7	705.8	725.7
22.5°	620.6	621.4	647.8	673.9	696.6
25°	567.5	569.0	598.4	624.5	652.1
27.5°	518.4	519.0	549.5	577.0	606.4
30°	484.8	486.8	516.6	545.1	575.7
32.5°	451.3	453.5	482.7	512.2	543.4
35°	401.0	402.9	430.0	458.9	491.5
37.5°	349.2	351.8	375.8	403.2	435.2
40°	315.7	319.5	340.7	366.5	397.9
42.5°	283.4	288.1	307.8	332.3	360.6
45°	240.5	245.1	261.2	281.0	306.6
47.5°	203.5	208.8	221.2	238.2	260.1
50°	182.5	187.5	198.9	211.6	232.2
52.5°	164.0	169.0	179.2	188.9	206.5
55°	138.2	144.0	152.3	158.1	171.1
57.5°	117.1	122.6	129.2	131.8	139.7
60°	103.0	109.1	115.1	114.8	119.1
62.5°	90.2	95.4	101.4	97.2	97.4
65°	69.3	75.1	81.9	71.5	65.0
67.5°	56.0	57.2	64.2	49.9	42.1
70°	49.7	49.7	51.7	38.6	32.1
72.5°	43.8	43.8	42.0	31.4	24.6
75°	34.9	34.9	31.7	21.8	14.9
77.5°	26.9	26.6	24.3	16.2	10.8
80°	21.5	21.5	19.6	12.8	8.6
82.5°	16.8	16.8	15.2	10.0	6.4
85°	9.8	9.8	9.0	5.8	3.5
87.5°	3.4	3.4	3.1	1.9	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)