

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-PP3-0U-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-PP3-0U-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

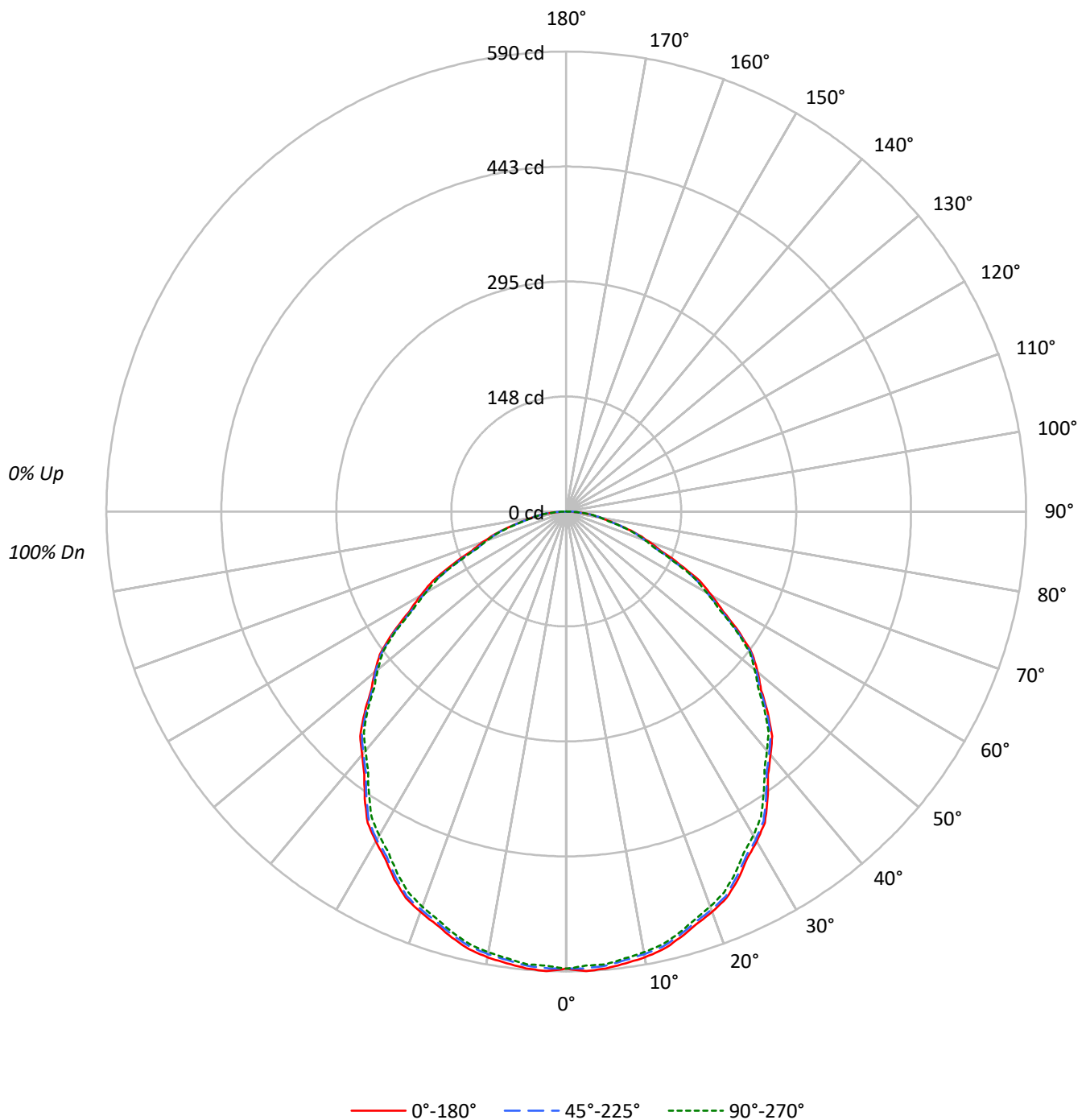
Lumens per Lamp: N/A
Luminaire Lumens: 1501.1 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5411	5411	5411
5°	5450	5417	5398
10°	5441	5403	5378
15°	5405	5376	5346
20°	5370	5339	5299
25°	5306	5269	5217
30°	5207	5180	5115
35°	5072	5037	4973
40°	4909	4878	4822
45°	4776	4742	4695
50°	4603	4574	4530
55°	4366	4308	4274
60°	3975	3860	3842
65°	3502	3355	3345
70°	3024	2897	2897
75°	2602	2567	2527
80°	2295	2322	2269
85°	1800	1958	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.7
10°-20°	158.3	10.5
20°-30°	237.2	15.8
30°-40°	278.2	18.5
40°-50°	279.1	18.6
50°-60°	238.1	15.9
60°-70°	155.3	10.3
70°-80°	77.9	5.2
80°-90°	21.6	1.4
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°	451.0	30.0
0°-40°	729.2	48.6
0°-60°	1246.3	83.0
0°-90°	1501.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	588	583	585	583	583	56
15°	566	560	563	561	560	160
25°	521	515	518	513	512	240
35°	450	446	447	442	442	281
45°	366	364	363	360	360	282
55°	271	270	268	266	266	241
65°	160	157	154	153	153	160
75°	73	73	72	71	71	79
85°	17	18	18	18	18	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.5	586.5	586.5	586.5	586.5
2.5°	590.2	585.4	586.5	585.6	583.2
5°	588.5	583.0	584.9	582.9	582.9
7.5°	584.5	578.5	580.4	578.4	578.3
10°	580.8	574.8	576.7	574.6	574.1
12.5°	575.5	569.4	571.8	569.3	569.2
15°	565.9	560.4	562.8	560.8	559.7
17.5°	555.1	549.1	552.0	549.2	548.7
20°	546.9	540.9	543.8	539.7	539.7
22.5°	537.0	531.0	534.4	529.0	529.0
25°	521.2	515.2	517.6	513.0	512.5
27.5°	502.4	496.5	499.0	493.7	493.6
30°	488.8	483.3	486.2	480.6	480.1
32.5°	474.0	468.9	471.0	465.4	464.9
35°	450.3	445.7	447.2	442.0	441.5
37.5°	425.3	420.7	422.3	417.9	417.7
40°	407.6	404.6	405.0	401.4	400.4
42.5°	391.2	387.7	388.2	384.6	384.4
45°	366.0	363.5	363.4	359.8	359.8
47.5°	339.2	337.3	336.8	333.8	333.7
50°	320.7	319.2	318.7	316.1	315.6
52.5°	301.4	300.7	298.9	296.8	296.7
55°	271.4	270.4	267.8	266.2	265.7
57.5°	238.8	236.8	233.9	231.6	232.0
60°	215.4	213.4	209.2	208.2	208.2
62.5°	192.8	190.3	186.2	184.8	185.6
65°	160.4	157.4	153.7	152.7	153.2
67.5°	131.0	128.3	124.3	124.3	123.9
70°	112.1	110.5	107.4	107.4	107.4
72.5°	95.2	94.5	92.2	92.2	91.8
75°	73.0	73.0	72.0	71.4	70.9
77.5°	54.7	54.9	54.4	53.8	52.9
80°	43.2	44.2	43.7	43.2	42.7
82.5°	32.5	33.5	33.4	32.5	32.4
85°	17.0	18.5	18.5	18.5	18.5
87.5°	4.5	6.1	6.6	6.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)