

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-PC3-0U-100D-927-1D-UNV-STD-W-6

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-PC3-0U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

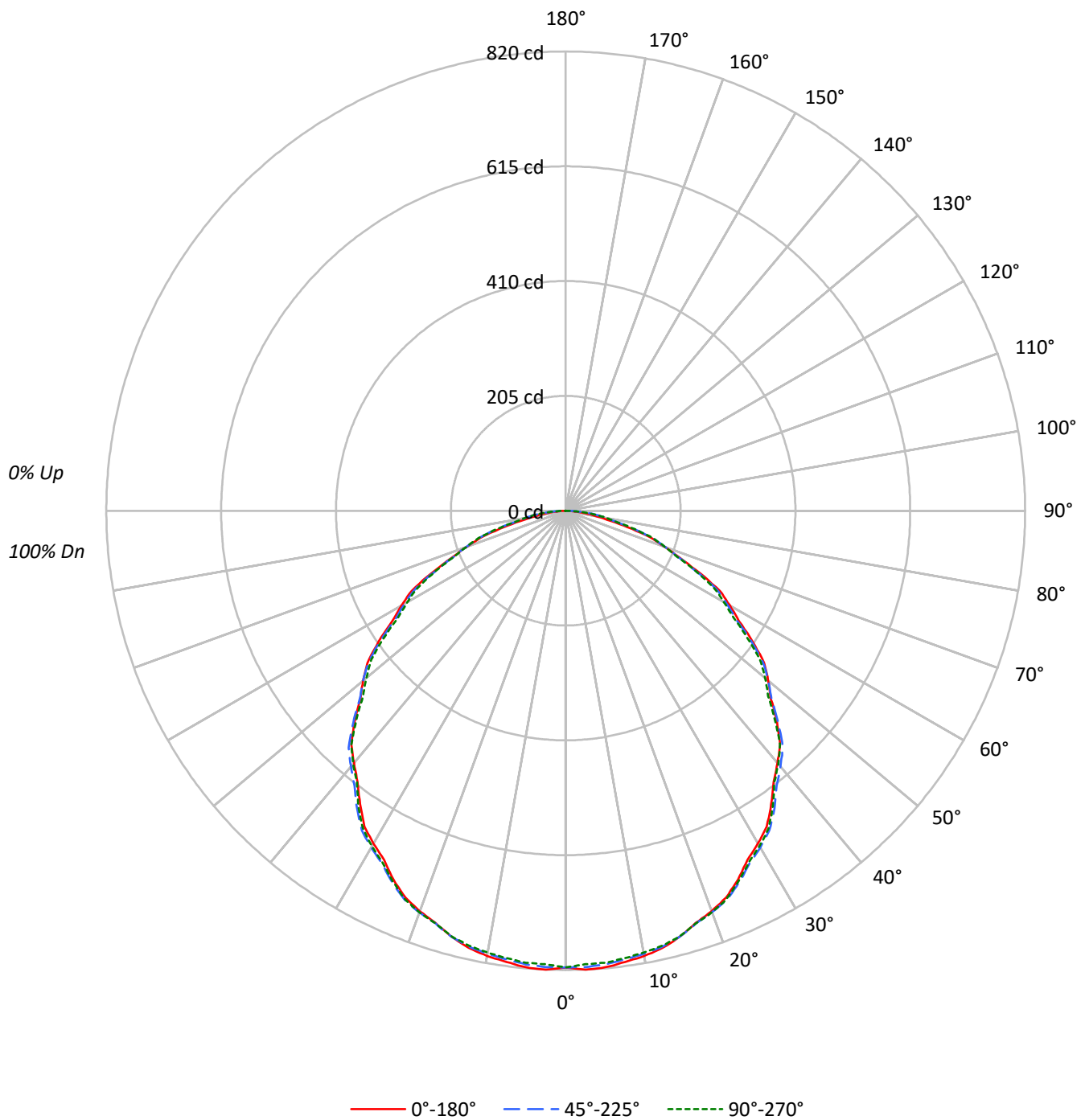
Lumens per Lamp: N/A
Luminaire Lumens: 2225.3 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5015	5015	5015
5°	5053	5020	5002
10°	5041	5017	5003
15°	5014	5014	5010
20°	4981	4996	4996
25°	4934	4970	4954
30°	4874	4933	4911
35°	4802	4875	4841
40°	4722	4789	4740
45°	4636	4669	4597
50°	4516	4516	4443
55°	4372	4315	4251
60°	4160	4077	4012
65°	3845	3769	3736
70°	3367	3394	3381
75°	2709	2997	3013
80°	1927	2540	2568
85°	1172	2131	2131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.5
10°-20°	221.4	10.0
20°-30°	335.3	15.1
30°-40°	402.0	18.1
40°-50°	409.9	18.4
50°-60°	357.8	16.1
60°-70°	256.2	11.5
70°-80°	132.0	5.9
80°-90°	33.4	1.5
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°	634.0	28.5
0°-40°	1036.0	46.6
0°-60°	1803.8	81.1
0°-90°	2225.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	818	810	813	811	810	78
15°	787	781	787	787	787	222
25°	727	722	732	730	730	335
35°	640	638	649	645	645	400
45°	533	532	537	530	528	410
55°	408	402	402	396	396	363
65°	264	258	259	257	257	261
75°	114	119	126	127	127	123
85°	17	26	30	31	30	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.4	815.4	815.4	815.4	815.4
2.5°	820.2	813.1	815.4	813.5	810.5
5°	818.4	810.3	813.1	810.8	810.1
7.5°	812.5	804.4	808.1	806.6	805.8
10°	807.1	798.9	803.3	801.8	801.0
12.5°	799.8	792.3	797.2	795.7	795.6
15°	787.4	780.8	787.4	787.4	786.7
17.5°	771.9	765.8	772.9	773.4	772.9
20°	761.0	754.4	763.3	762.5	763.3
22.5°	747.7	742.3	751.8	749.8	750.6
25°	727.0	721.9	732.3	730.0	730.0
27.5°	702.6	698.9	710.3	707.9	707.9
30°	686.3	682.6	694.6	691.5	691.5
32.5°	668.1	665.6	677.1	673.4	673.4
35°	639.5	638.0	649.3	644.7	644.7
37.5°	609.9	608.5	618.8	613.3	611.5
40°	588.1	587.4	596.4	590.4	590.4
42.5°	566.4	565.6	573.5	566.2	566.2
45°	533.0	531.5	536.8	530.0	528.5
47.5°	496.6	495.1	498.4	491.0	490.3
50°	471.9	470.4	471.9	465.0	464.3
52.5°	446.5	443.8	444.1	437.3	437.1
55°	407.7	402.5	402.4	396.4	396.4
57.5°	366.6	359.8	360.4	355.3	354.5
60°	338.2	330.8	331.4	326.9	326.1
62.5°	310.4	301.9	303.6	298.5	298.4
65°	264.2	258.3	259.0	256.7	256.7
67.5°	219.8	214.4	218.3	216.5	216.4
70°	187.2	183.5	188.7	188.7	188.0
72.5°	157.0	156.9	163.4	163.4	163.8
75°	114.0	119.2	126.1	126.8	126.8
77.5°	76.1	85.3	92.9	93.2	93.0
80°	54.4	64.7	71.7	73.2	72.5
82.5°	36.8	47.8	53.6	55.1	54.4
85°	16.6	25.5	30.2	30.9	30.2
87.5°	4.8	10.1	12.1	12.1	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)