

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-PR1-0U-075D-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-PR1-0U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

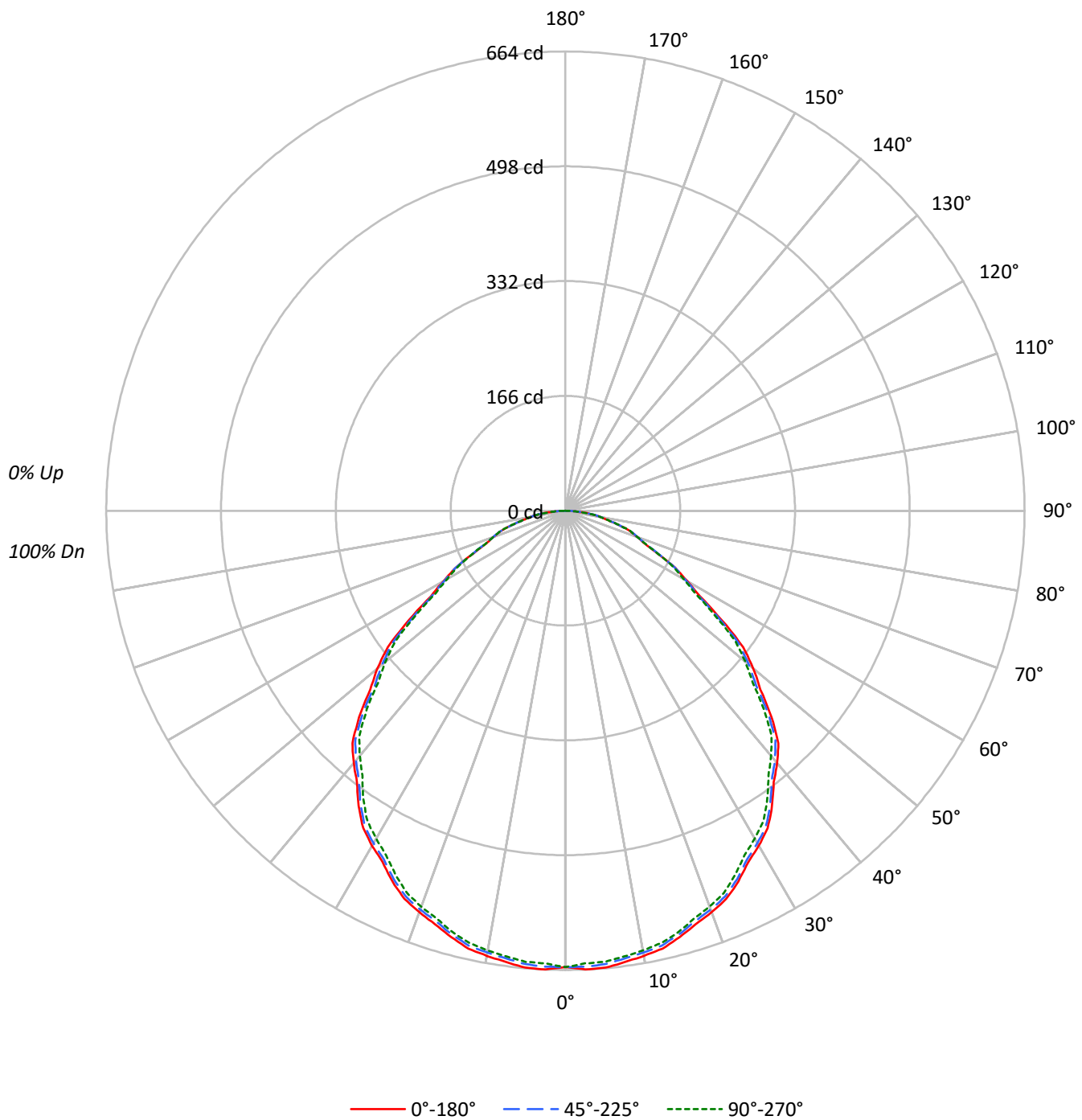
Lumens per Lamp: N/A
Luminaire Lumens: 1649.4 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4058	4058	4058
5°	4095	4063	4042
10°	4082	4053	4032
15°	4064	4038	4017
20°	4043	4017	3988
25°	4015	3988	3942
30°	3972	3943	3887
35°	3913	3879	3823
40°	3824	3783	3714
45°	3668	3604	3530
50°	3393	3312	3247
55°	2962	2894	2833
60°	2496	2475	2426
65°	2158	2167	2151
70°	1982	1993	1993
75°	1904	1904	1918
80°	1792	1810	1792
85°	1447	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.8
10°-20°	178.5	10.8
20°-30°	269.2	16.3
30°-40°	320.8	19.5
40°-50°	316.3	19.2
50°-60°	241.7	14.7
60°-70°	149.6	9.1
70°-80°	85.0	5.2
80°-90°	25.8	1.6
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°	510.1	30.9
0°-40°	831.0	50.4
0°-60°	1389.0	84.2
0°-90°	1649.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	663	656	658	656	655	63
15°	638	632	634	632	631	180
25°	592	584	588	581	581	272
35°	521	515	517	510	509	325
45°	422	416	414	407	406	323
55°	276	272	270	265	264	247
65°	148	147	149	148	148	150
75°	80	80	80	81	81	85
85°	20	22	23	23	23	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.8	659.8	659.8	659.8	659.8
2.5°	663.9	658.1	659.8	658.3	655.2
5°	663.2	656.0	658.1	655.8	654.7
7.5°	658.1	651.0	653.1	650.8	650.1
10°	653.5	646.9	649.0	646.7	645.6
12.5°	648.5	641.4	644.0	641.2	640.1
15°	638.2	631.5	634.2	631.9	630.8
17.5°	626.8	619.7	622.4	619.7	618.3
20°	617.7	611.1	613.7	609.7	609.2
22.5°	607.7	601.0	603.7	598.4	598.3
25°	591.6	584.4	587.6	581.3	580.8
27.5°	572.4	565.7	568.4	562.0	561.3
30°	559.2	552.5	555.2	548.4	547.3
32.5°	544.2	538.0	540.2	533.4	532.7
35°	521.1	515.0	516.6	509.7	509.2
37.5°	494.9	489.3	490.2	482.7	482.1
40°	476.2	470.7	471.1	463.1	462.6
42.5°	455.8	450.2	449.7	441.8	441.2
45°	421.7	416.1	414.3	406.9	405.8
47.5°	382.8	377.2	373.8	367.8	367.0
50°	354.6	349.0	346.1	340.9	339.3
52.5°	324.1	318.6	316.1	311.4	309.7
55°	276.2	271.7	269.9	265.4	264.2
57.5°	230.6	227.6	227.1	222.6	222.2
60°	202.9	201.2	201.2	197.2	197.2
62.5°	179.2	178.0	178.9	176.3	175.8
65°	148.3	147.2	148.9	147.8	147.8
67.5°	123.9	123.9	124.9	124.5	124.5
70°	110.2	110.2	110.8	110.8	110.8
72.5°	98.0	97.5	99.0	99.0	98.5
75°	80.1	80.1	80.1	80.7	80.7
77.5°	62.4	62.5	63.0	62.8	62.4
80°	50.6	51.1	51.1	50.6	50.6
82.5°	38.8	39.3	39.3	39.2	38.8
85°	20.5	21.6	22.7	22.7	22.7
87.5°	5.9	7.7	9.1	9.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)