

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-FB-0U-075D-930-1D-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 (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-0U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

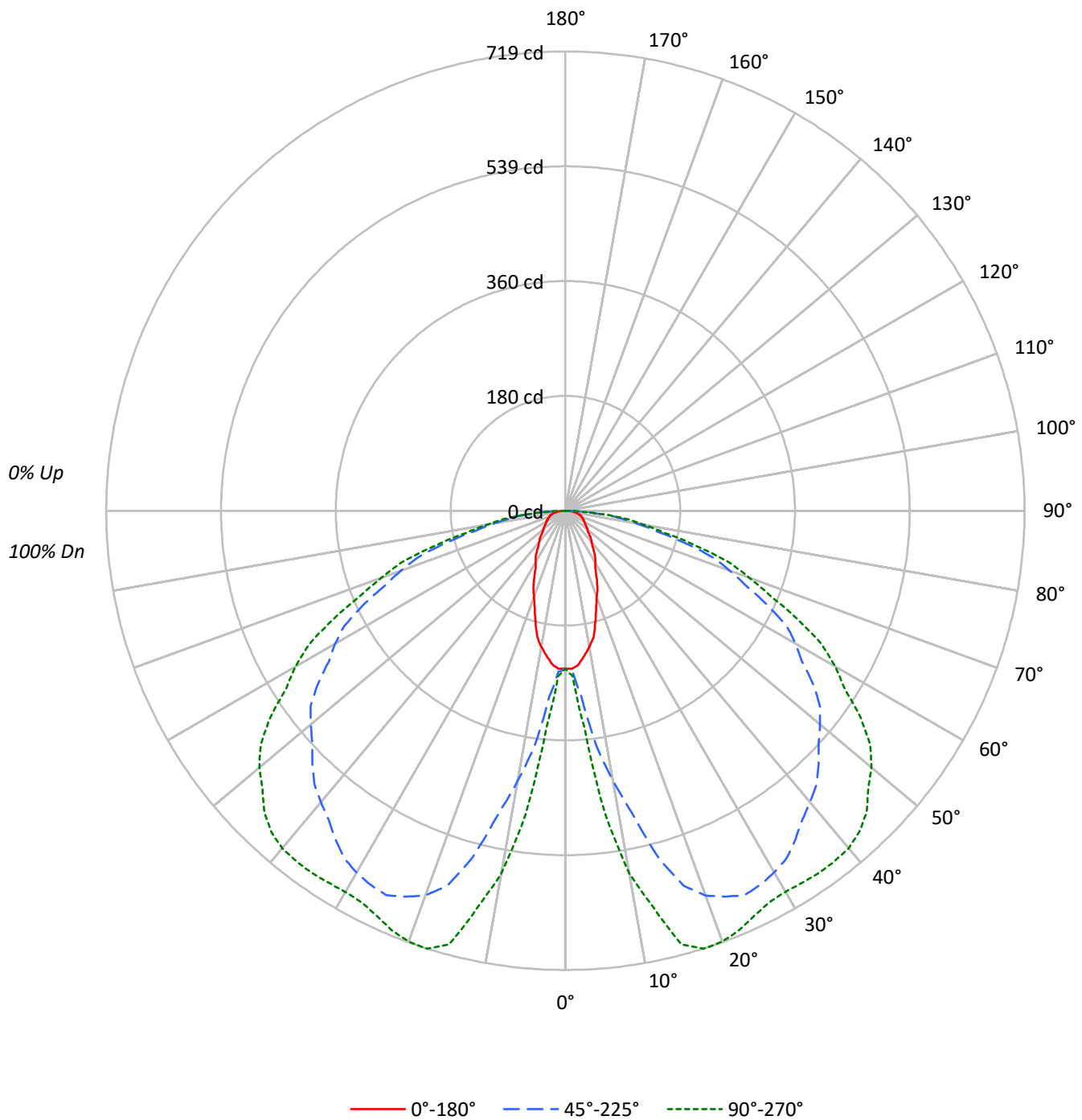
Lumens per Lamp: N/A
Luminaire Lumens: 1915.2 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48
5	73	60	50	43	71	58	50	43	56	48	42	54	47	42	52	46	41
6	67	53	44	37	65	52	43	37	50	42	36	49	42	36	47	41	36
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	43	36	31
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2283	2283	2283
5°	2233	2716	3162
10°	2027	4018	5397
15°	1725	5370	6712
20°	1406	6294	7048
25°	1175	6760	7121
30°	992	6969	7341
35°	879	7072	7797
40°	767	7174	8309
45°	695	7315	8700
50°	640	7470	8978
55°	614	7610	9075
60°	631	7680	9001
65°	659	7617	8739
70°	709	7385	8265
75°	795	6850	7575
80°	887	5919	6594
85°	847	4928	5642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 9113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.7
10°-20°	141.4	7.4
20°-30°	247.8	12.9
30°-40°	319.0	16.7
40°-50°	356.2	18.6
50°-60°	341.6	17.8
60°-70°	271.8	14.2
70°-80°	160.1	8.4
80°-90°	44.9	2.3
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°	421.6	22.0
0°-40°	740.6	38.7
0°-60°	1438.4	75.1
0°-90°	1915.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	248	248	248	248	248	
5°	241	258	293	331	341	22
15°	181	332	562	680	703	50
25°	115	376	664	698	700	53
35°	78	353	628	666	692	49
45°	53	277	561	637	667	41
55°	38	185	473	547	564	35
65°	30	121	349	394	400	30
75°	22	76	192	210	212	23
85°	8	21	47	52	53	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	247.5	247.5	247.5	247.5	247.5	247.5	247.5	247.5	247.5	247.5
2.5°	247.5	247.5	248.8	250.7	251.3	253.8	257.7	259.6	260.8	259.6
5°	241.1	244.3	254.6	269.8	284.9	301.6	323.1	333.4	339.8	341.4
7.5°	228.5	237.3	266.7	306.2	350.1	393.7	431.5	462.0	479.8	480.6
10°	216.4	231.6	276.9	337.4	397.9	459.9	511.7	543.5	569.0	576.1
12.5°	203.1	225.8	287.7	368.6	451.4	521.1	578.5	613.5	633.9	636.6
15°	180.6	214.1	303.2	417.8	520.4	604.0	658.9	686.7	699.5	702.7
17.5°	159.8	203.6	316.7	456.3	577.9	653.2	694.9	712.4	718.7	719.0
20°	143.2	193.4	323.1	483.0	607.2	674.8	705.0	716.2	719.4	717.8
22.5°	131.1	182.5	326.9	500.8	625.0	683.1	705.7	711.1	712.4	710.8
25°	115.4	164.7	327.1	524.4	643.0	685.1	697.1	698.7	700.3	699.5
27.5°	101.4	144.8	322.3	540.0	645.5	675.4	681.0	685.0	689.9	691.0
30°	93.1	132.1	315.9	545.1	643.0	665.3	670.8	678.0	686.7	689.1
32.5°	86.7	120.0	306.4	545.7	636.6	653.2	660.6	674.2	686.7	690.4
35°	78.0	101.9	290.5	541.1	622.3	633.4	649.3	671.6	688.3	692.3
37.5°	69.4	88.8	268.8	531.7	603.5	615.1	641.4	668.3	686.9	691.8
40°	63.7	81.2	252.3	522.8	588.9	602.4	635.0	664.5	684.3	689.9
42.5°	59.2	74.8	234.4	511.4	572.3	590.9	627.4	658.7	677.3	681.6
45°	53.3	65.3	206.1	490.2	546.7	574.5	614.3	644.6	662.1	666.8
47.5°	47.7	58.6	176.5	466.0	520.6	554.6	595.4	624.0	640.1	643.3
50°	44.6	54.1	156.8	448.8	502.1	538.7	580.1	608.8	622.3	625.5
52.5°	42.0	50.3	138.3	429.1	483.0	522.2	561.6	587.7	600.0	601.3
55°	38.2	45.4	113.8	398.7	452.8	493.4	531.6	552.3	561.0	564.2
57.5°	36.1	41.7	94.5	365.7	418.7	459.5	494.2	510.2	517.2	518.4
60°	34.2	39.8	84.3	342.2	397.1	435.3	465.5	479.0	485.4	487.8
62.5°	32.3	38.5	76.7	318.0	371.6	408.5	435.0	446.6	451.7	452.1
65°	30.2	36.6	67.6	280.9	331.8	366.0	386.7	396.3	398.7	400.3
67.5°	28.2	34.7	61.1	243.5	290.8	319.1	334.4	342.7	343.1	346.5
70°	26.3	33.4	57.3	218.0	260.2	287.3	300.0	306.4	305.6	306.4
72.5°	25.0	31.5	54.7	191.9	230.9	252.3	263.7	268.2	268.6	268.8
75°	22.3	27.9	50.9	152.0	183.0	201.3	210.1	209.3	211.7	212.5
77.5°	19.3	24.0	41.9	112.0	137.2	149.3	156.3	158.5	157.7	157.9
80°	16.7	21.5	34.2	85.9	106.6	116.2	122.5	124.1	123.3	124.1
82.5°	13.5	17.7	26.6	63.7	79.9	87.5	92.0	92.3	92.8	94.2
85°	8.0	10.3	15.9	35.0	44.6	48.5	51.7	52.5	53.3	53.3
87.5°	3.2	4.5	8.3	14.6	18.5	19.7	19.7	18.5	19.7	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)