

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-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-PC3-0U-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

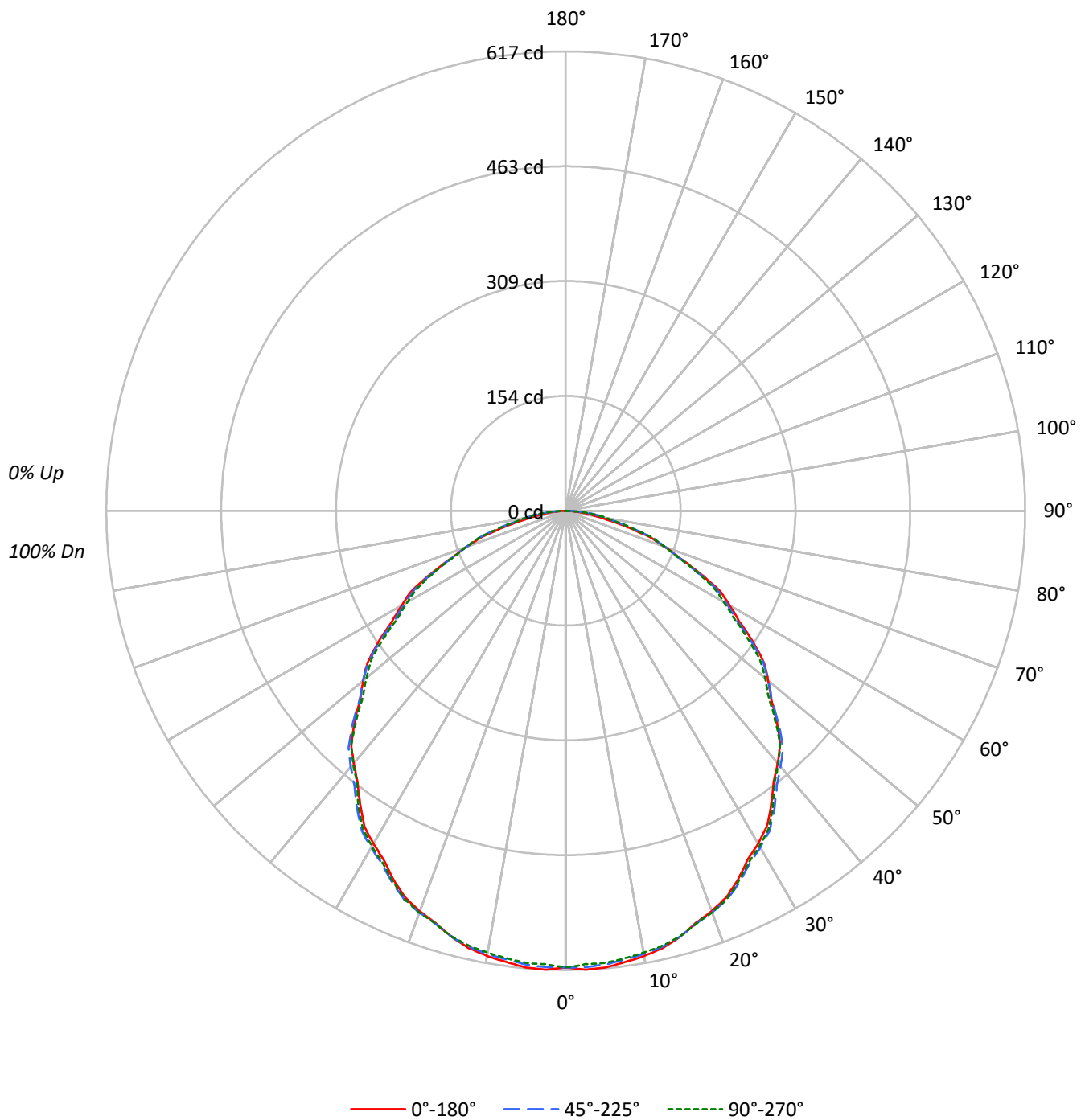
Lumens per Lamp: N/A
Luminaire Lumens: 1674.7 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3803	3778	3764
10°	3794	3776	3766
15°	3774	3774	3770
20°	3749	3760	3760
25°	3714	3740	3729
30°	3668	3712	3697
35°	3614	3669	3643
40°	3554	3604	3567
45°	3489	3514	3459
50°	3398	3398	3343
55°	3290	3247	3199
60°	3132	3068	3020
65°	2895	2837	2812
70°	2534	2554	2545
75°	2039	2255	2270
80°	1449	1913	1930
85°	882	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.5
10°-20°	166.7	10.0
20°-30°	252.4	15.1
30°-40°	302.6	18.1
40°-50°	308.5	18.4
50°-60°	269.3	16.1
60°-70°	192.8	11.5
70°-80°	99.3	5.9
80°-90°	25.1	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°	477.1	28.5
0°-40°	779.7	46.6
0°-60°	1357.5	81.1
0°-90°	1674.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	616	610	612	610	610	58
15°	593	588	593	593	592	167
25°	547	543	551	549	549	252
35°	481	480	489	485	485	301
45°	401	400	404	399	398	309
55°	307	303	303	298	298	274
65°	199	194	195	193	193	197
75°	86	90	95	96	96	93
85°	12	19	23	23	23	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.6	613.6	613.6	613.6	613.6
2.5°	617.3	612.0	613.6	612.2	610.0
5°	615.9	609.8	611.9	610.2	609.7
7.5°	611.5	605.4	608.2	607.0	606.5
10°	607.4	601.3	604.6	603.4	602.9
12.5°	601.9	596.3	600.0	598.9	598.8
15°	592.6	587.6	592.6	592.6	592.1
17.5°	580.9	576.4	581.7	582.0	581.7
20°	572.7	567.7	574.4	573.9	574.4
22.5°	562.7	558.6	565.8	564.3	564.9
25°	547.2	543.3	551.1	549.4	549.4
27.5°	528.8	526.0	534.6	532.7	532.7
30°	516.5	513.7	522.7	520.5	520.5
32.5°	502.9	501.0	509.6	506.8	506.8
35°	481.3	480.1	488.6	485.2	485.2
37.5°	459.0	458.0	465.7	461.6	460.2
40°	442.6	442.1	448.9	444.3	444.3
42.5°	426.3	425.7	431.6	426.1	426.1
45°	401.1	400.0	404.0	398.8	397.7
47.5°	373.8	372.6	375.1	369.5	369.0
50°	355.1	354.0	355.1	350.0	349.4
52.5°	336.0	334.0	334.2	329.1	329.0
55°	306.8	302.9	302.8	298.3	298.3
57.5°	275.9	270.8	271.3	267.4	266.8
60°	254.6	249.0	249.4	246.0	245.5
62.5°	233.6	227.2	228.5	224.7	224.5
65°	198.9	194.4	194.9	193.2	193.2
67.5°	165.5	161.3	164.3	163.0	162.8
70°	140.9	138.1	142.0	142.0	141.5
72.5°	118.2	118.1	123.0	123.0	123.3
75°	85.8	89.7	94.9	95.5	95.5
77.5°	57.3	64.2	69.9	70.1	70.0
80°	40.9	48.7	54.0	55.1	54.5
82.5°	27.7	36.0	40.3	41.5	40.9
85°	12.5	19.2	22.7	23.3	22.7
87.5°	3.6	7.6	9.1	9.1	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)