

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-050D-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-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

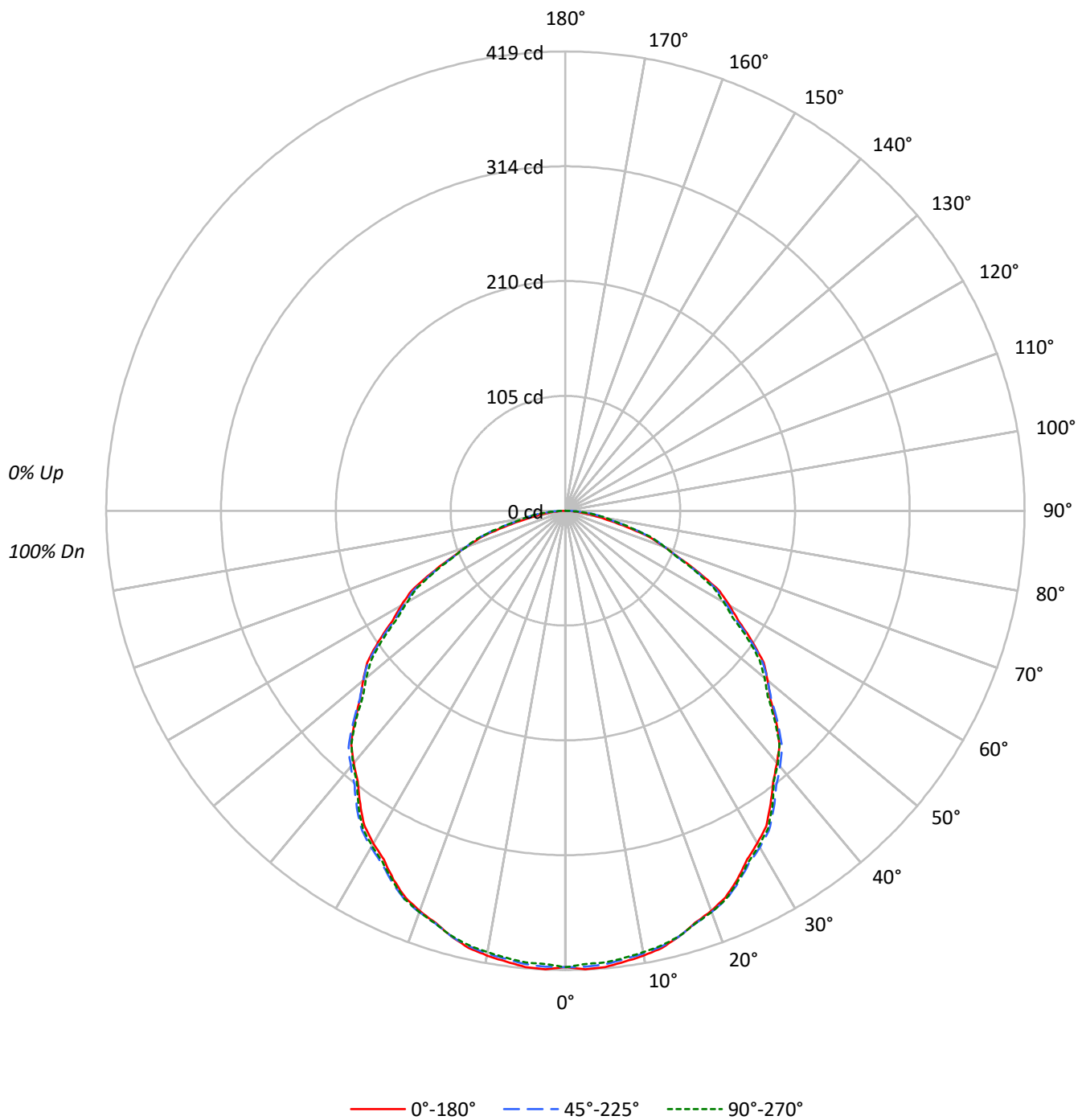
Lumens per Lamp: N/A
Luminaire Lumens: 1136.3 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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°	2561	2561	2561
5°	2580	2564	2554
10°	2574	2562	2554
15°	2560	2560	2558
20°	2544	2551	2551
25°	2519	2538	2530
30°	2489	2519	2508
35°	2452	2489	2472
40°	2411	2446	2421
45°	2368	2384	2348
50°	2305	2305	2269
55°	2233	2204	2170
60°	2124	2081	2048
65°	1963	1924	1908
70°	1719	1734	1726
75°	1383	1530	1540
80°	985	1296	1311
85°	600	1087	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.5
10°-20°	113.1	10.0
20°-30°	171.2	15.1
30°-40°	205.3	18.1
40°-50°	209.3	18.4
50°-60°	182.7	16.1
60°-70°	130.8	11.5
70°-80°	67.4	5.9
80°-90°	17.0	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°	323.7	28.5
0°-40°	529.0	46.6
0°-60°	921.1	81.1
0°-90°	1136.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	418	414	415	414	414	40
15°	402	399	402	402	402	113
25°	371	369	374	373	373	171
35°	326	326	332	329	329	204
45°	272	271	274	271	270	210
55°	208	206	206	202	202	186
65°	135	132	132	131	131	133
75°	58	61	64	65	65	63
85°	8	13	15	16	15	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.4	416.4	416.4	416.4	416.4
2.5°	418.8	415.2	416.4	415.4	413.9
5°	417.9	413.7	415.2	414.0	413.7
7.5°	414.9	410.7	412.7	411.9	411.5
10°	412.1	408.0	410.2	409.4	409.0
12.5°	408.4	404.6	407.1	406.3	406.3
15°	402.1	398.7	402.1	402.1	401.7
17.5°	394.1	391.1	394.7	394.9	394.7
20°	388.6	385.2	389.8	389.4	389.8
22.5°	381.8	379.0	383.9	382.9	383.3
25°	371.2	368.6	373.9	372.8	372.8
27.5°	358.8	356.9	362.7	361.5	361.5
30°	350.4	348.5	354.7	353.1	353.1
32.5°	341.2	339.9	345.7	343.9	343.9
35°	326.5	325.8	331.5	329.2	329.2
37.5°	311.4	310.7	316.0	313.2	312.3
40°	300.3	299.9	304.6	301.5	301.5
42.5°	289.2	288.8	292.8	289.1	289.1
45°	272.2	271.4	274.1	270.6	269.9
47.5°	253.6	252.8	254.5	250.7	250.4
50°	240.9	240.2	240.9	237.5	237.1
52.5°	228.0	226.6	226.8	223.3	223.2
55°	208.2	205.5	205.5	202.4	202.4
57.5°	187.2	183.7	184.0	181.4	181.0
60°	172.7	168.9	169.2	166.9	166.5
62.5°	158.5	154.2	155.1	152.4	152.4
65°	134.9	131.9	132.2	131.1	131.1
67.5°	112.3	109.5	111.5	110.6	110.5
70°	95.6	93.7	96.4	96.4	96.0
72.5°	80.2	80.1	83.4	83.4	83.7
75°	58.2	60.9	64.4	64.8	64.8
77.5°	38.9	43.5	47.4	47.6	47.5
80°	27.8	33.0	36.6	37.4	37.0
82.5°	18.8	24.4	27.4	28.1	27.8
85°	8.5	13.0	15.4	15.8	15.4
87.5°	2.5	5.2	6.2	6.2	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)