

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-WB-0U-125D-927-1D-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 ()
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

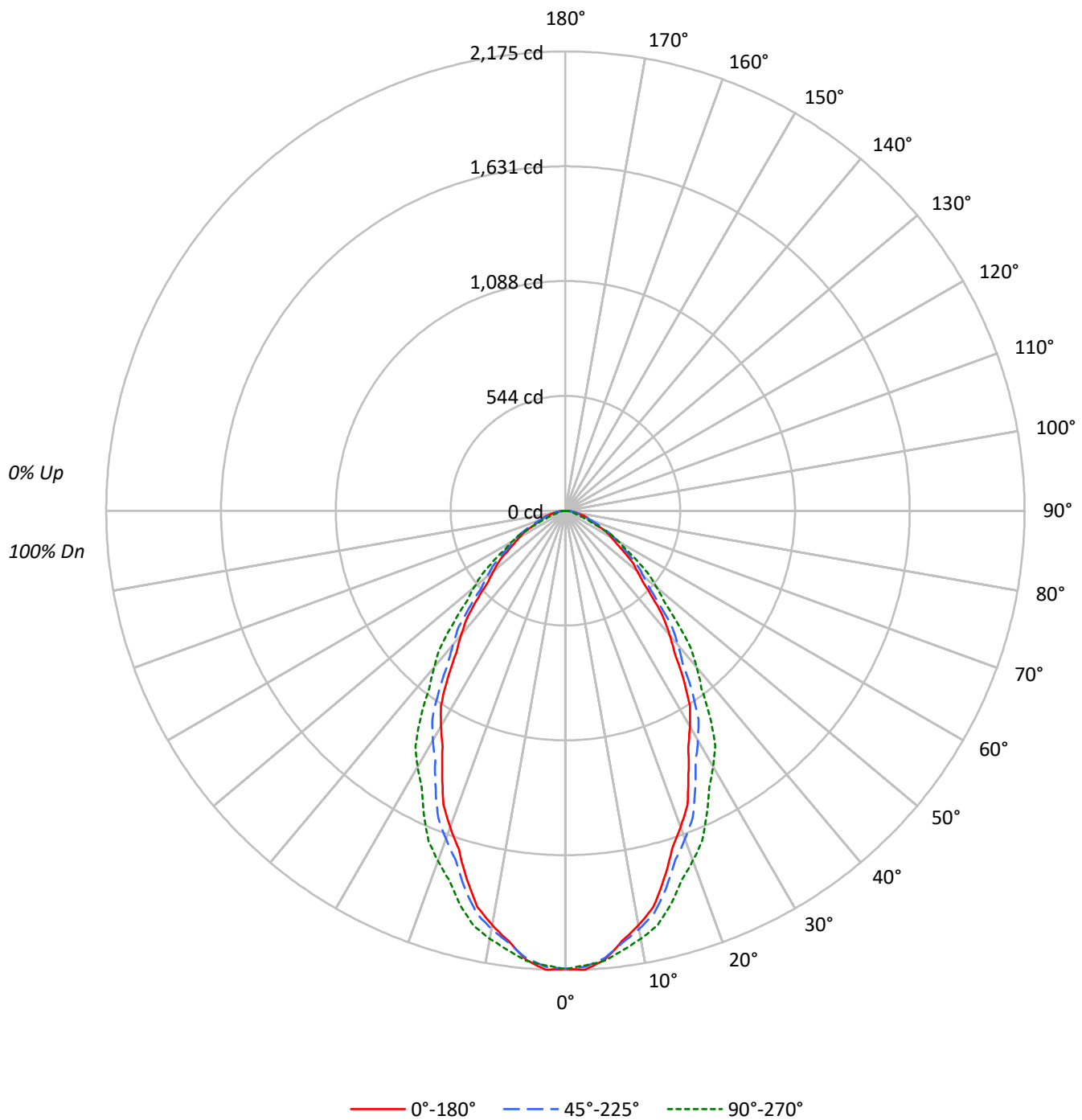
Lumens per Lamp: N/A
Luminaire Lumens: 3162.1 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20021	20021	20021
5°	19771	19701	19816
10°	18680	18849	19286
15°	17245	17644	18436
20°	15659	16248	17323
25°	14045	14811	16139
30°	12558	13380	14912
35°	10982	11776	13459
40°	9244	9977	11651
45°	7628	8287	9728
50°	6369	6943	8104
55°	5406	5958	6693
60°	4620	5165	5342
65°	3679	4344	3451
70°	3261	3391	2107
75°	3019	2748	1290
80°	2784	2529	1110
85°	2519	2318	910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	6.3
10°-20°	517.7	16.4
20°-30°	670.6	21.2
30°-40°	656.7	20.8
40°-50°	502.7	15.9
50°-60°	334.9	10.6
60°-70°	182.8	5.8
70°-80°	76.2	2.4
80°-90°	21.6	0.7
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°	1387.4	43.9
0°-40°	2044.0	64.6
0°-60°	2881.6	91.1
0°-90°	3162.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2135	2113	2127	2132	2140	199
15°	1805	1799	1847	1898	1930	504
25°	1380	1383	1455	1518	1585	634
35°	975	980	1046	1116	1195	606
45°	585	596	635	683	746	456
55°	336	350	370	384	416	305
65°	168	182	199	174	158	175
75°	85	85	77	53	36	90
85°	24	24	22	14	9	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2175.4	2156.0	2160.9	2160.8	2154.8
5°	2134.8	2113.4	2127.2	2132.1	2139.6
7.5°	2055.6	2039.4	2064.5	2083.2	2098.2
10°	1993.9	1979.9	2012.0	2039.1	2058.6
12.5°	1922.3	1910.6	1950.3	1986.7	2012.2
15°	1805.4	1798.8	1847.2	1897.5	1930.1
17.5°	1680.2	1677.1	1732.6	1791.3	1833.0
20°	1594.9	1594.0	1654.9	1716.0	1764.4
22.5°	1508.8	1510.9	1574.9	1638.4	1693.6
25°	1379.7	1383.4	1454.9	1518.4	1585.4
27.5°	1260.3	1262.0	1335.9	1402.9	1474.4
30°	1178.8	1183.5	1255.9	1325.2	1399.7
32.5°	1097.3	1102.7	1173.7	1245.3	1321.3
35°	975.0	979.7	1045.5	1115.9	1195.0
37.5°	849.0	855.3	913.7	980.2	1058.1
40°	767.5	776.8	828.4	891.1	967.4
42.5°	689.0	700.5	748.4	807.9	876.8
45°	584.6	595.8	635.1	683.2	745.6
47.5°	494.8	507.6	537.8	579.2	632.4
50°	443.7	455.8	483.7	514.4	564.6
52.5°	398.8	410.9	435.7	459.4	502.2
55°	336.1	350.1	370.4	384.5	416.1
57.5°	284.7	298.1	314.2	320.6	339.7
60°	250.4	265.3	279.9	279.2	289.5
62.5°	219.2	231.9	246.4	236.3	236.9
65°	168.5	182.5	199.0	173.9	158.1
67.5°	136.2	139.1	156.2	121.3	102.5
70°	120.9	120.9	125.7	93.9	78.1
72.5°	106.5	106.5	102.1	76.4	59.8
75°	84.7	84.7	77.1	52.9	36.2
77.5°	65.3	64.6	59.0	39.5	26.3
80°	52.4	52.4	47.6	31.2	20.9
82.5°	40.9	40.9	36.9	24.4	15.6
85°	23.8	23.8	21.9	14.2	8.6
87.5°	8.4	8.4	7.6	4.6	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)