

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-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-WB-0U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

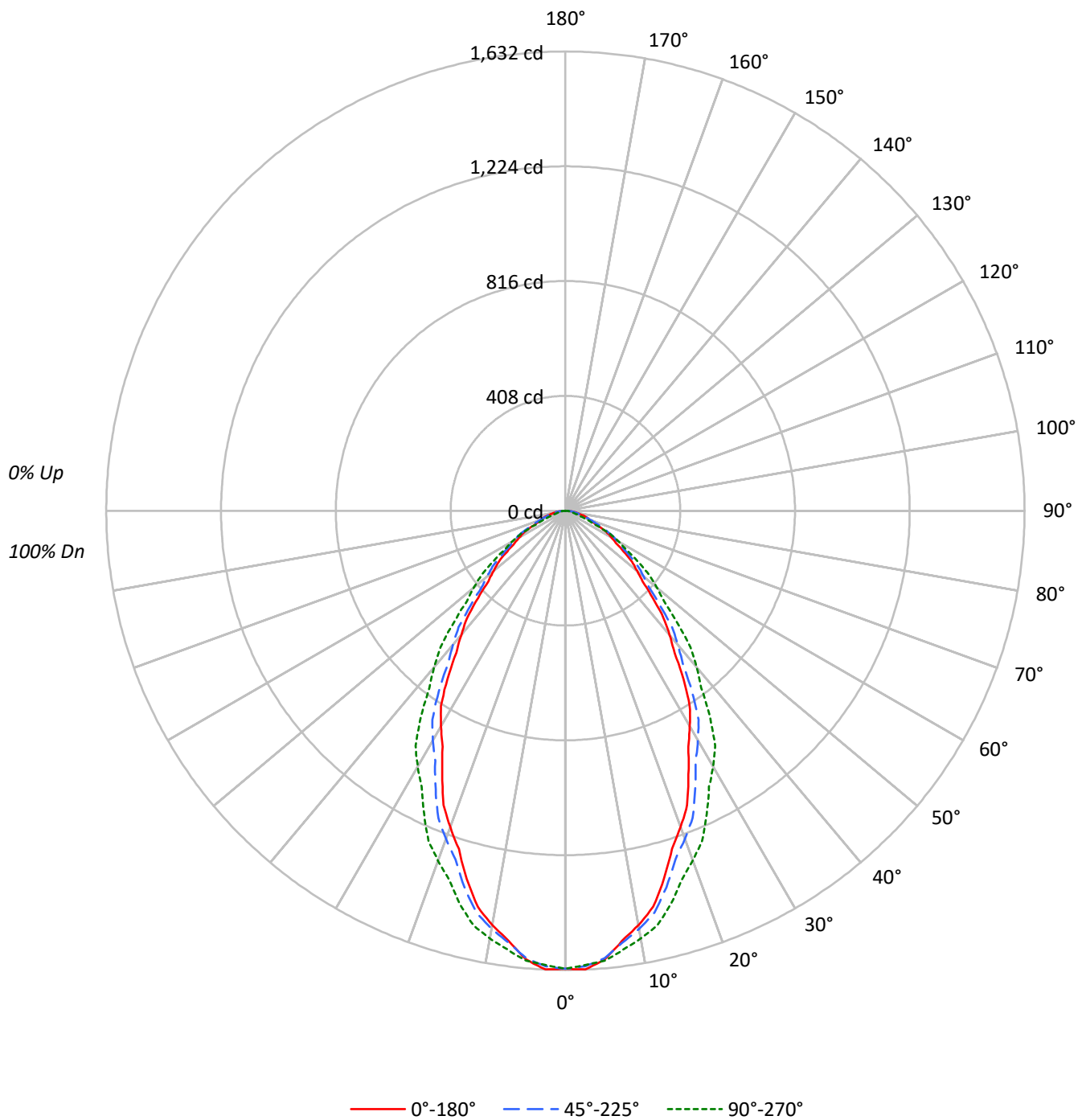
Lumens per Lamp: N/A
Luminaire Lumens: 2371.6 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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
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°	10010	10010	10010
5°	9886	9850	9908
10°	9340	9425	9643
15°	8622	8822	9218
20°	7830	8124	8662
25°	7023	7406	8069
30°	6279	6690	7456
35°	5491	5888	6729
40°	4622	4989	5826
45°	3814	4143	4864
50°	3185	3472	4052
55°	2703	2979	3347
60°	2310	2583	2671
65°	1840	2173	1725
70°	1631	1696	1054
75°	1511	1374	644
80°	1392	1265	556
85°	1263	1157	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	6.3
10°-20°	388.3	16.4
20°-30°	503.0	21.2
30°-40°	492.5	20.8
40°-50°	377.0	15.9
50°-60°	251.2	10.6
60°-70°	137.1	5.8
70°-80°	57.1	2.4
80°-90°	16.2	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°	1040.5	43.9
0°-40°	1533.0	64.6
0°-60°	2161.2	91.1
0°-90°	2371.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1601	1585	1595	1599	1605	149
15°	1354	1349	1385	1423	1448	378
25°	1035	1038	1091	1139	1189	476
35°	731	735	784	837	896	455
45°	438	447	476	512	559	342
55°	252	263	278	288	312	229
65°	126	137	149	130	118	131
75°	64	64	58	40	27	68
85°	18	18	16	11	6	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1631.5	1617.0	1620.7	1620.6	1616.1
5°	1601.1	1585.0	1595.4	1599.1	1604.7
7.5°	1541.7	1529.5	1548.4	1562.4	1573.7
10°	1495.4	1484.9	1509.0	1529.3	1544.0
12.5°	1441.7	1432.9	1462.7	1490.0	1509.1
15°	1354.0	1349.1	1385.4	1423.1	1447.6
17.5°	1260.2	1257.8	1299.5	1343.4	1374.7
20°	1196.2	1195.5	1241.2	1287.0	1323.3
22.5°	1131.6	1133.2	1181.2	1228.8	1270.2
25°	1034.8	1037.6	1091.2	1138.8	1189.0
27.5°	945.2	946.5	1001.9	1052.2	1105.8
30°	884.1	887.6	942.0	993.9	1049.8
32.5°	823.0	827.0	880.3	934.0	990.9
35°	731.3	734.8	784.1	836.9	896.2
37.5°	636.7	641.5	685.3	735.2	793.6
40°	575.6	582.6	621.3	668.3	725.6
42.5°	516.8	525.4	561.3	605.9	657.6
45°	438.5	446.9	476.3	512.4	559.2
47.5°	371.1	380.7	403.3	434.4	474.3
50°	332.8	341.9	362.8	385.8	423.5
52.5°	299.1	308.2	326.8	344.5	376.6
55°	252.1	262.6	277.8	288.3	312.1
57.5°	213.5	223.6	235.7	240.4	254.8
60°	187.8	199.0	210.0	209.4	217.1
62.5°	164.4	173.9	184.8	177.3	177.7
65°	126.4	136.9	149.3	130.4	118.5
67.5°	102.1	104.4	117.1	90.9	76.8
70°	90.7	90.7	94.3	70.4	58.6
72.5°	79.8	79.8	76.6	57.3	44.8
75°	63.6	63.6	57.8	39.7	27.1
77.5°	49.0	48.4	44.3	29.6	19.7
80°	39.3	39.3	35.7	23.4	15.7
82.5°	30.7	30.7	27.7	18.3	11.7
85°	17.9	17.9	16.4	10.6	6.4
87.5°	6.3	6.3	5.7	3.4	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)