

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-PP3-0U-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-PP3-0U-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

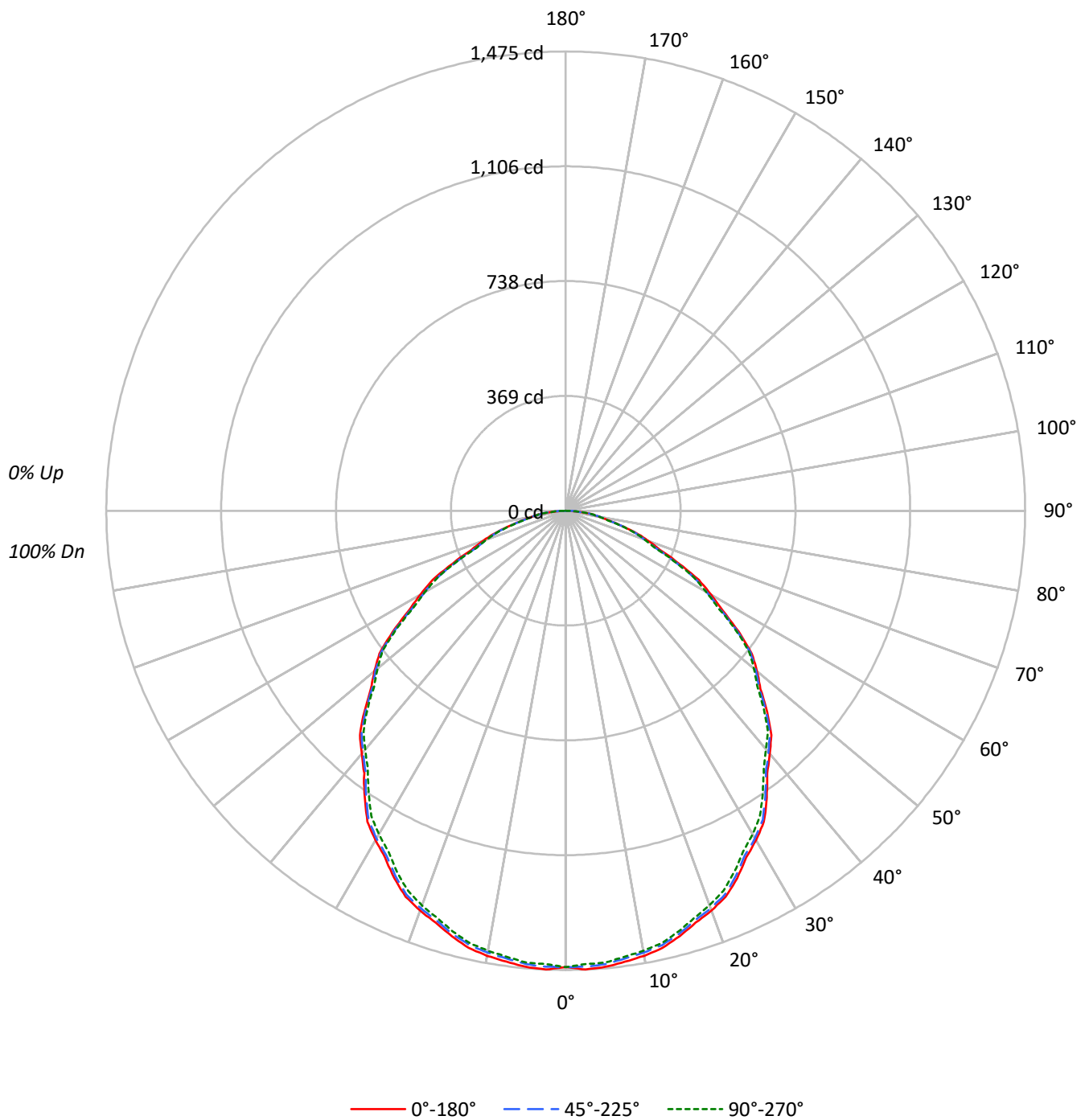
Lumens per Lamp: N/A
Luminaire Lumens: 3751.3 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	105	101	97	107	103	99	96	98	95	93			95	92	90		85
2	100	92	86	80	97	90	84	79	87	82	77			84	79	76		72
3	92	81	74	67	89	80	73	67	77	71	66			74	69	64		61
4	84	72	64	57	82	71	63	57	69	62	56			66	60	56		53
5	77	65	56	50	75	64	56	49	62	54	49			60	53	48		46
6	72	59	50	44	70	58	49	43	56	49	43			54	48	43		40
7	66	53	45	39	65	52	44	39	51	44	38			49	43	38		36
8	62	49	40	35	60	48	40	34	47	39	34			45	39	34		32
9	58	45	37	31	56	44	36	31	43	36	31			42	35	31		29
10	54	41	34	28	53	41	33	28	40	33	28			39	33	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13523	13523	13523
5°	13622	13538	13491
10°	13598	13503	13442
15°	13509	13435	13362
20°	13420	13344	13243
25°	13259	13168	13038
30°	13014	12946	12782
35°	12674	12588	12428
40°	12268	12191	12052
45°	11934	11850	11733
50°	11506	11431	11321
55°	10909	10764	10682
60°	9931	9647	9599
65°	8750	8385	8357
70°	7553	7243	7243
75°	6502	6409	6320
80°	5733	5802	5664
85°	4488	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.7
10°-20°	395.7	10.5
20°-30°	592.7	15.8
30°-40°	695.3	18.5
40°-50°	697.4	18.6
50°-60°	595.0	15.9
60°-70°	388.0	10.3
70°-80°	194.7	5.2
80°-90°	53.9	1.4
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°	1127.1	30.0
0°-40°	1822.3	48.6
0°-60°	3114.7	83.0
0°-90°	3751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1471	1457	1462	1457	1457	140
15°	1414	1400	1407	1401	1399	399
25°	1302	1288	1294	1282	1281	599
35°	1125	1114	1118	1105	1103	703
45°	915	908	908	899	899	704
55°	678	676	669	665	664	603
65°	401	393	384	382	383	400
75°	182	182	180	178	177	198
85°	42	46	46	46	46	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1474.9	1462.9	1465.7	1463.5	1457.4
5°	1470.8	1457.0	1461.8	1456.7	1456.7
7.5°	1460.8	1445.7	1450.5	1445.4	1445.1
10°	1451.5	1436.5	1441.3	1436.1	1434.8
12.5°	1438.2	1423.1	1428.9	1422.8	1422.5
15°	1414.3	1400.5	1406.6	1401.4	1398.9
17.5°	1387.3	1372.2	1379.6	1372.4	1371.4
20°	1366.8	1351.7	1359.1	1348.8	1348.8
22.5°	1342.1	1327.0	1335.4	1322.1	1322.1
25°	1302.5	1287.5	1293.5	1281.9	1280.7
27.5°	1255.5	1240.7	1247.0	1233.9	1233.7
30°	1221.6	1207.8	1215.2	1201.0	1199.8
32.5°	1184.6	1171.8	1177.2	1163.0	1161.7
35°	1125.3	1114.0	1117.6	1104.7	1103.4
37.5°	1062.8	1051.3	1055.4	1044.3	1043.8
40°	1018.6	1011.1	1012.2	1003.2	1000.7
42.5°	977.5	969.0	970.1	961.1	960.6
45°	914.6	908.3	908.2	899.2	899.2
47.5°	847.8	843.0	841.6	834.2	833.9
50°	801.6	797.8	796.4	790.0	788.7
52.5°	753.3	751.5	747.1	741.7	741.4
55°	678.2	675.7	669.2	665.4	664.1
57.5°	596.8	591.8	584.5	578.8	579.8
60°	538.2	533.2	522.8	520.2	520.2
62.5°	481.7	475.7	465.3	461.7	463.7
65°	400.8	393.2	384.1	381.5	382.8
67.5°	327.3	320.5	310.6	310.6	309.6
70°	280.0	276.3	268.5	268.5	268.5
72.5°	237.9	236.1	230.4	230.4	229.4
75°	182.4	182.4	179.8	178.5	177.3
77.5°	136.7	137.2	135.9	134.6	132.3
80°	107.9	110.4	109.2	107.9	106.6
82.5°	81.2	83.7	83.5	81.2	80.9
85°	42.4	46.2	46.2	46.2	46.2
87.5°	11.3	15.3	16.4	16.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)