

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-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-PP3-0U-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

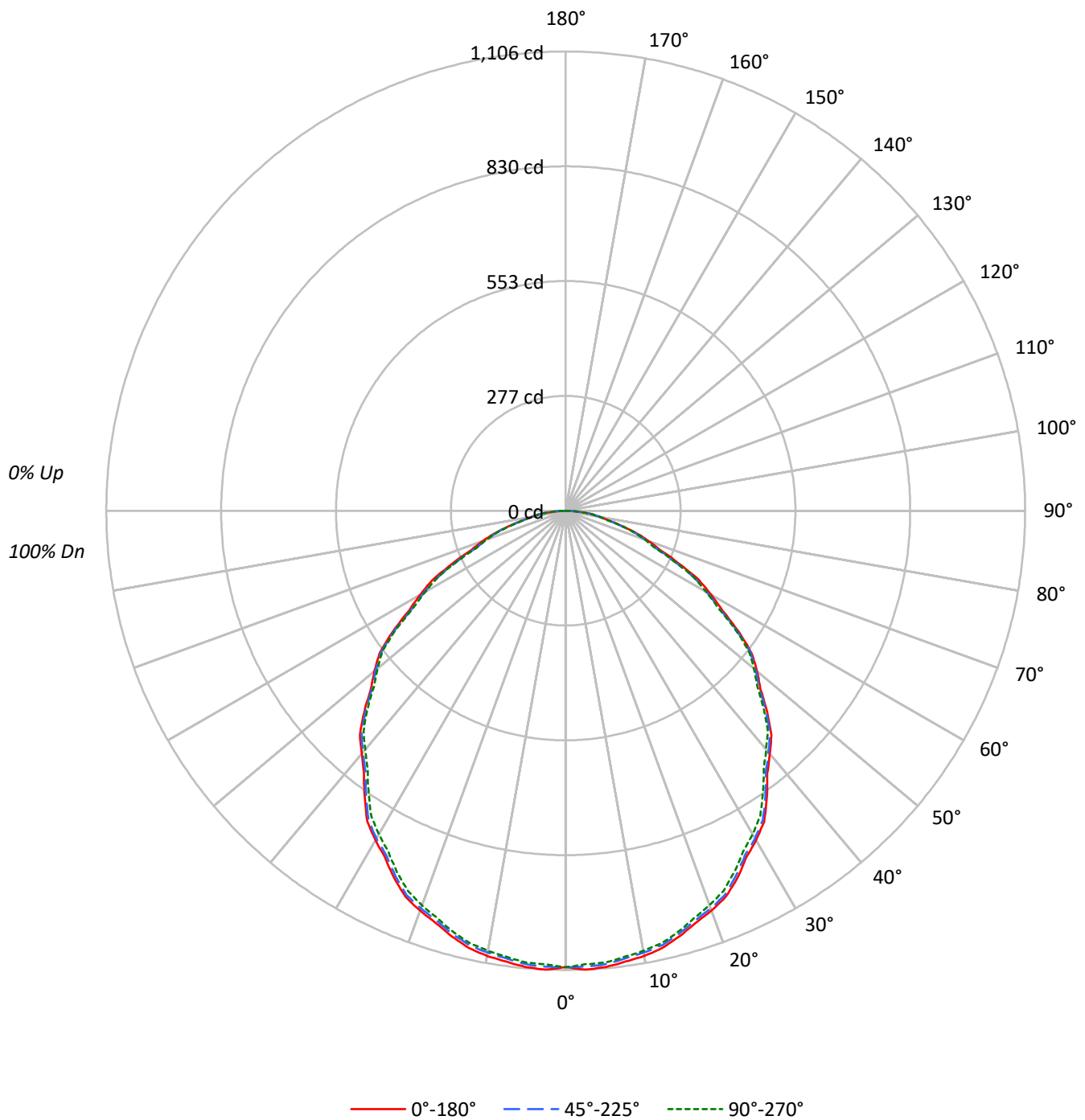
Lumens per Lamp: N/A
Luminaire Lumens: 2813.5 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6762	6762	6762
5°	6811	6769	6745
10°	6800	6751	6721
15°	6754	6717	6681
20°	6710	6672	6621
25°	6630	6584	6519
30°	6507	6473	6391
35°	6337	6294	6214
40°	6134	6096	6026
45°	5966	5925	5866
50°	5753	5716	5660
55°	5455	5382	5341
60°	4966	4823	4800
65°	4375	4193	4178
70°	3777	3622	3622
75°	3251	3206	3161
80°	2866	2901	2834
85°	2244	2449	2449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.7
10°-20°	296.8	10.5
20°-30°	444.6	15.8
30°-40°	521.4	18.5
40°-50°	523.1	18.6
50°-60°	446.2	15.9
60°-70°	291.0	10.3
70°-80°	146.0	5.2
80°-90°	40.4	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°	845.3	30.0
0°-40°	1366.8	48.6
0°-60°	2336.0	83.0
0°-90°	2813.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1103	1093	1096	1092	1092	105
15°	1061	1050	1055	1051	1049	299
25°	977	966	970	962	960	449
35°	844	836	838	828	828	527
45°	686	681	681	674	674	528
55°	509	507	502	499	498	452
65°	301	295	288	286	287	300
75°	137	137	135	134	133	148
85°	32	35	35	35	35	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1106.2	1097.1	1099.3	1097.6	1093.1
5°	1103.1	1092.7	1096.4	1092.5	1092.5
7.5°	1095.6	1084.3	1087.9	1084.0	1083.8
10°	1088.7	1077.3	1080.9	1077.1	1076.1
12.5°	1078.6	1067.3	1071.7	1067.1	1066.9
15°	1060.7	1050.4	1054.9	1051.0	1049.2
17.5°	1040.5	1029.2	1034.7	1029.3	1028.5
20°	1025.1	1013.8	1019.3	1011.6	1011.6
22.5°	1006.6	995.3	1001.6	991.5	991.5
25°	976.9	965.6	970.2	961.5	960.5
27.5°	941.6	930.5	935.3	925.4	925.3
30°	916.2	905.8	911.4	900.8	899.8
32.5°	888.5	878.8	882.9	872.3	871.3
35°	843.9	835.5	838.2	828.5	827.6
37.5°	797.1	788.5	791.5	783.2	782.9
40°	764.0	758.3	759.2	752.4	750.5
42.5°	733.2	726.7	727.6	720.8	720.4
45°	685.9	681.2	681.1	674.4	674.4
47.5°	635.9	632.3	631.2	625.6	625.4
50°	601.2	598.3	597.3	592.5	591.5
52.5°	564.9	563.6	560.3	556.3	556.1
55°	508.7	506.8	501.9	499.0	498.1
57.5°	447.6	443.8	438.4	434.1	434.9
60°	403.7	399.9	392.1	390.2	390.2
62.5°	361.3	356.8	348.9	346.3	347.8
65°	300.6	294.9	288.1	286.2	287.1
67.5°	245.5	240.4	233.0	232.9	232.2
70°	210.0	207.2	201.4	201.4	201.4
72.5°	178.4	177.1	172.8	172.8	172.1
75°	136.8	136.8	134.9	133.9	133.0
77.5°	102.5	102.9	101.9	100.9	99.2
80°	80.9	82.8	81.9	80.9	80.0
82.5°	60.9	62.8	62.6	60.9	60.7
85°	31.8	34.6	34.7	34.7	34.7
87.5°	8.5	11.5	12.3	12.3	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)