

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-BB-0U-075D-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-BB-0U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

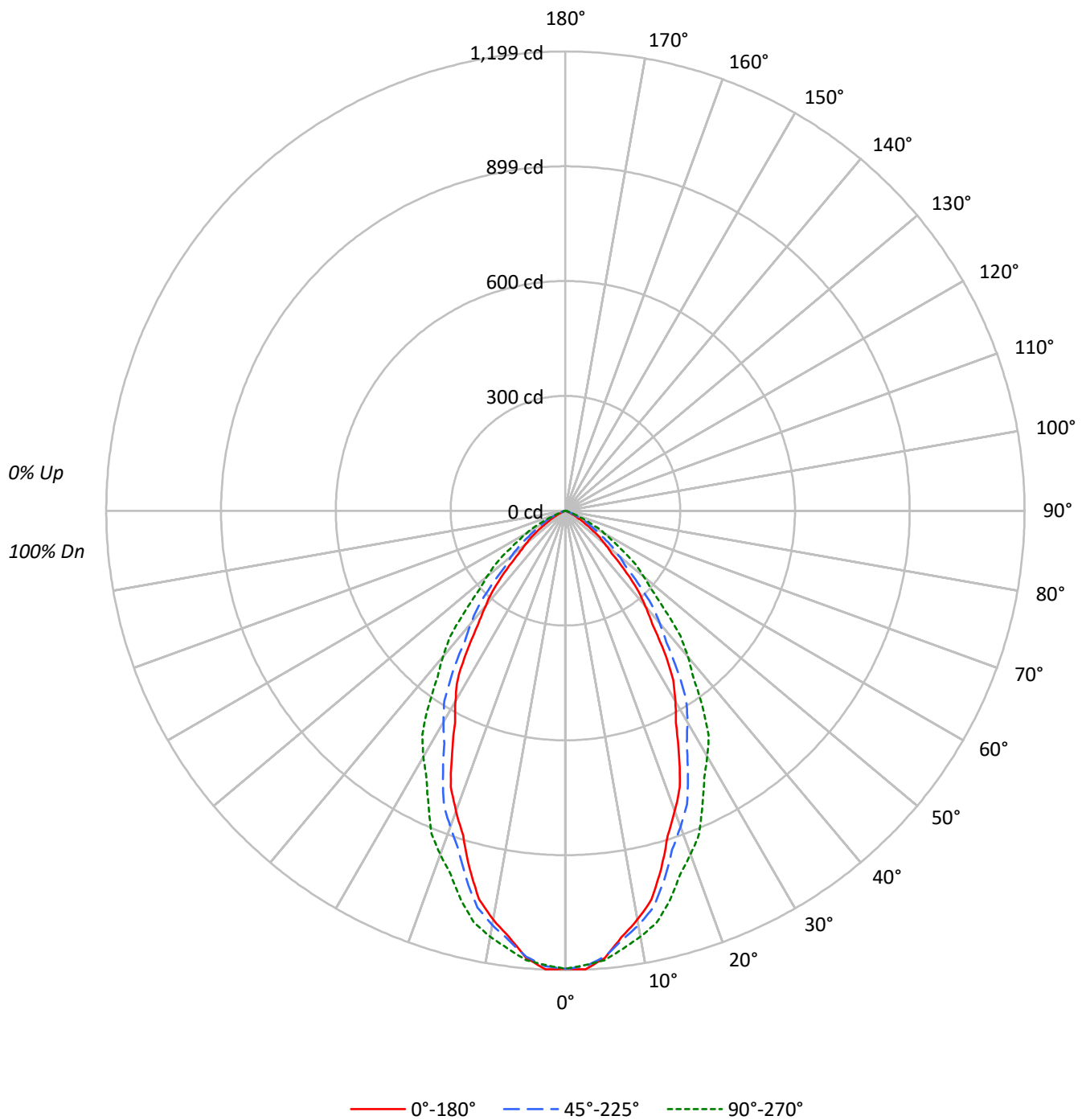
Lumens per Lamp: N/A
Luminaire Lumens: 1426.5 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	91	85	81	97	90	84	80	87	82	79		85	81	77		82
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	70	65	74	68	64		72	67	64		71
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	53		62	57	53		61
8	72	61	54	50	71	61	54	49	59	53	49		58	53	49		57
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54
10	65	54	47	42	63	53	47	42	52	46	42		51	46	42		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11033	11033	11033
5°	10855	10828	10909
10°	10157	10292	10580
15°	9234	9527	10057
20°	8196	8622	9377
25°	7138	7703	8616
30°	6114	6786	7895
35°	5070	5760	7024
40°	3895	4606	5986
45°	2816	3488	4816
50°	1918	2599	3819
55°	1247	1880	2968
60°	716	1323	2146
65°	190	808	1087
70°	94	251	313
75°	43	21	0
80°	32	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	7.7
10°-20°	279.1	19.6
20°-30°	349.4	24.5
30°-40°	322.7	22.6
40°-50°	216.9	15.2
50°-60°	112.0	7.9
60°-70°	35.1	2.5
70°-80°	2.2	0.2
80°-90°	0.0	0.0
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°	737.6	51.7
0°-40°	1060.3	74.3
0°-60°	1389.2	97.4
0°-90°	1426.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1172	1160	1169	1173	1178	109
15°	967	963	997	1031	1053	269
25°	701	707	757	808	846	321
35°	450	461	511	572	624	279
45°	216	229	267	319	369	169
55°	78	90	117	150	184	72
65°	9	17	37	45	50	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.8	1195.8	1195.8	1195.8	1195.8
2.5°	1198.6	1187.3	1190.3	1190.2	1187.0
5°	1172.1	1160.2	1169.2	1173.3	1177.9
7.5°	1122.6	1113.3	1130.6	1143.5	1152.9
10°	1084.2	1076.2	1098.6	1116.3	1129.3
12.5°	1039.7	1033.6	1060.7	1084.9	1101.5
15°	966.7	963.3	997.4	1030.9	1052.9
17.5°	888.5	888.4	927.3	968.8	995.4
20°	834.8	836.5	878.2	924.0	955.1
22.5°	781.1	785.1	829.6	877.4	913.0
25°	701.2	706.8	756.7	808.5	846.4
27.5°	624.3	632.6	685.1	738.9	785.1
30°	573.9	583.5	637.0	693.6	741.1
32.5°	524.4	535.8	587.9	647.8	696.2
35°	450.1	461.4	511.4	571.6	623.6
37.5°	373.4	384.5	433.3	492.6	548.8
40°	323.4	335.8	382.4	439.8	497.0
42.5°	278.0	290.5	334.3	390.7	444.7
45°	215.8	228.8	267.3	319.3	369.1
47.5°	164.2	178.3	212.1	259.2	304.5
50°	133.6	147.8	181.1	222.6	266.1
52.5°	109.1	122.8	152.8	191.9	231.9
55°	77.5	90.5	116.9	150.0	184.5
57.5°	53.6	64.8	88.4	116.1	143.1
60°	38.8	49.5	71.7	94.2	116.3
62.5°	25.8	35.6	57.4	74.6	89.4
65°	8.7	16.6	37.0	44.7	49.8
67.5°	4.4	5.3	19.4	20.5	22.2
70°	3.5	3.5	9.3	9.9	11.6
72.5°	2.5	2.5	3.7	4.8	5.1
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)