

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-100D-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-BB-0U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

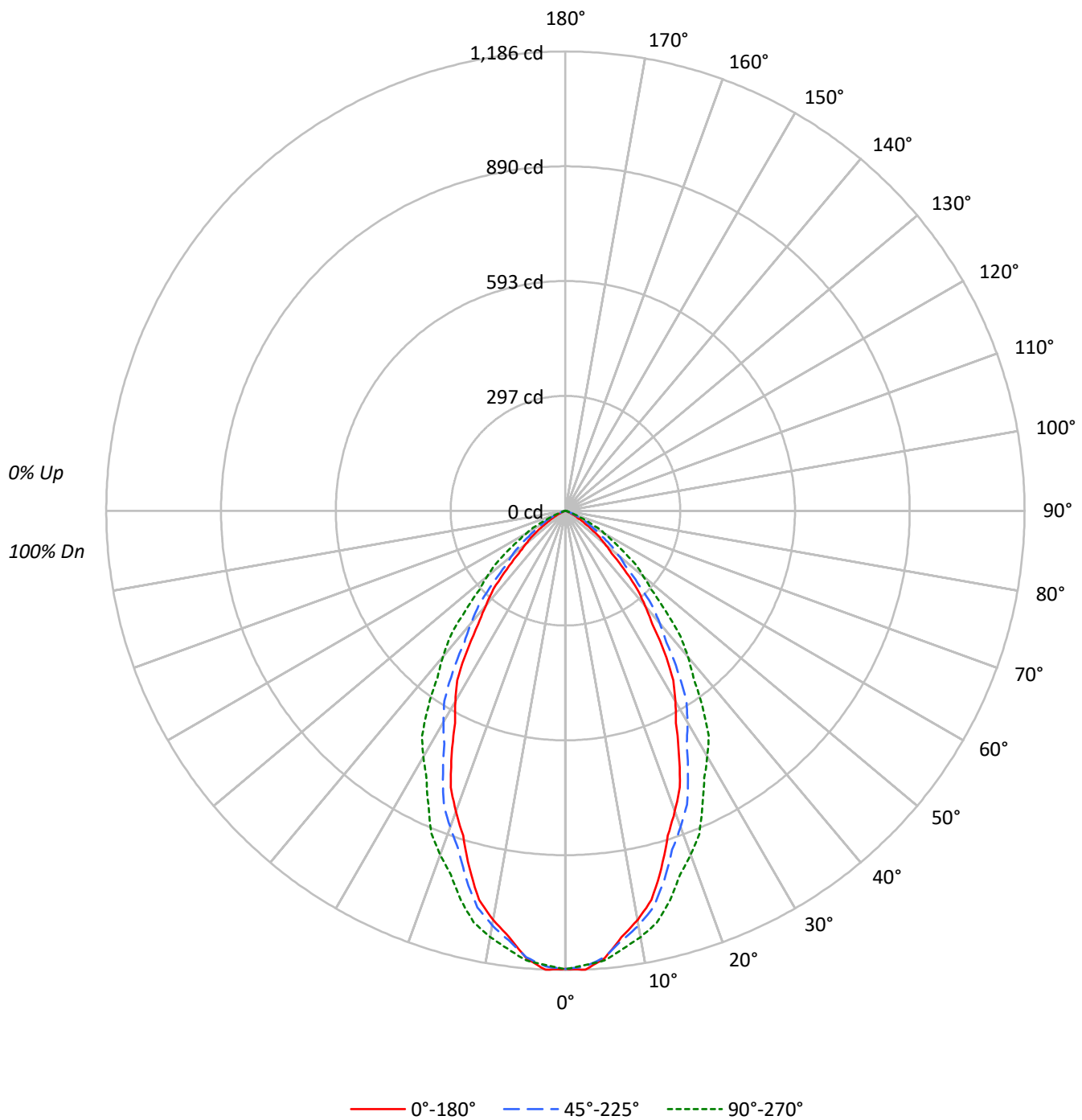
Lumens per Lamp: N/A
Luminaire Lumens: 1411.8 lumens
Efficiency: N/A
Efficacy: 25.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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

TEST NUMBER:

CATALOG NUMBER: SQ4-BB-0U-100D-927-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-BB-0U-100D-927-1D-UNV-STD-W-6

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°	7279	7279	7279
5°	7162	7145	7198
10°	6702	6791	6981
15°	6093	6286	6636
20°	5408	5689	6188
25°	4710	5083	5685
30°	4034	4477	5210
35°	3345	3801	4634
40°	2570	3039	3949
45°	1858	2301	3178
50°	1266	1715	2520
55°	822	1241	1959
60°	472	873	1416
65°	125	533	716
70°	61	165	207
75°	26	14	0
80°	21	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3178 cd/sqm

TEST NUMBER:

CATALOG NUMBER: SQ4-BB-0U-100D-927-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	7.7
10°-20°	276.2	19.6
20°-30°	345.8	24.5
30°-40°	319.4	22.6
40°-50°	214.6	15.2
50°-60°	110.9	7.9
60°-70°	34.7	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°	730.0	51.7
0°-40°	1049.4	74.3
0°-60°	1374.9	97.4
0°-90°	1411.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1160	1148	1157	1161	1166	108
15°	957	953	987	1020	1042	266
25°	694	700	749	800	838	318
35°	446	457	506	566	617	276
45°	214	226	264	316	365	168
55°	77	90	116	148	183	72
65°	9	16	37	44	49	14
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER:

CATALOG NUMBER: SQ4-BB-0U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.5	1183.5	1183.5	1183.5	1183.5
2.5°	1186.3	1175.1	1178.0	1177.9	1174.8
5°	1160.0	1148.3	1157.2	1161.3	1165.8
7.5°	1111.0	1101.8	1118.9	1131.7	1141.0
10°	1073.0	1065.2	1087.3	1104.8	1117.7
12.5°	1029.0	1023.0	1049.8	1073.7	1090.2
15°	956.8	953.4	987.1	1020.3	1042.1
17.5°	879.4	879.2	917.7	958.9	985.2
20°	826.2	827.9	869.2	914.5	945.3
22.5°	773.1	777.0	821.1	868.4	903.6
25°	694.0	699.6	748.9	800.2	837.7
27.5°	617.9	626.1	678.0	731.3	777.0
30°	568.0	577.5	630.4	686.4	733.5
32.5°	519.0	530.3	581.9	641.1	689.0
35°	445.5	456.7	506.2	565.7	617.2
37.5°	369.5	380.5	428.9	487.5	543.1
40°	320.1	332.4	378.5	435.3	491.8
42.5°	275.2	287.5	330.8	386.7	440.1
45°	213.6	226.4	264.5	316.0	365.3
47.5°	162.5	176.5	209.9	256.5	301.4
50°	132.3	146.3	179.2	220.3	263.4
52.5°	108.0	121.5	151.3	190.0	229.5
55°	76.7	89.6	115.7	148.5	182.7
57.5°	53.0	64.1	87.5	114.9	141.7
60°	38.4	49.0	71.0	93.3	115.1
62.5°	25.5	35.3	56.8	73.9	88.5
65°	8.6	16.4	36.6	44.2	49.2
67.5°	4.4	5.2	19.2	20.3	22.0
70°	3.4	3.4	9.2	9.8	11.5
72.5°	2.5	2.5	3.7	4.7	5.0
75°	1.1	1.1	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)