

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-PW1-0U-100D-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-PW1-0U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

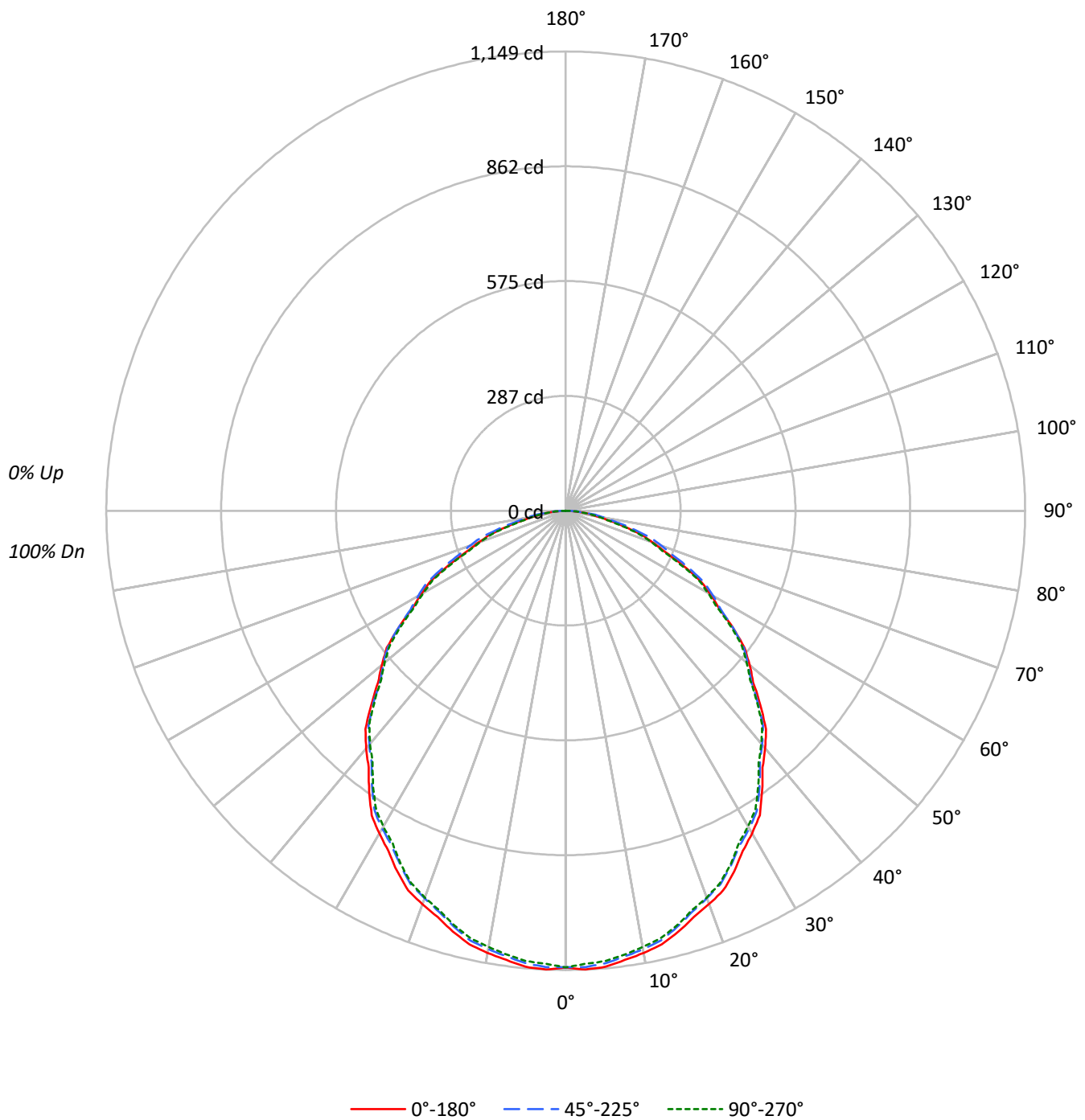
Lumens per Lamp: N/A
Luminaire Lumens: 2906.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10609	10526	10478
10°	10525	10439	10383
15°	10413	10298	10258
20°	10289	10131	10111
25°	10144	9960	9930
30°	9930	9780	9716
35°	9648	9512	9455
40°	9347	9202	9165
45°	8983	8866	8826
50°	8611	8539	8481
55°	8208	8208	8080
60°	7708	7857	7578
65°	7054	7405	6879
70°	6218	6817	6056
75°	5311	6099	5169
80°	4118	5133	4171
85°	2668	3938	3515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.7
10°-20°	303.7	10.4
20°-30°	450.5	15.5
30°-40°	527.2	18.1
40°-50°	524.8	18.1
50°-60°	453.2	15.6
60°-70°	326.2	11.2
70°-80°	171.1	5.9
80°-90°	42.4	1.5
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°	861.9	29.6
0°-40°	1389.0	47.8
0°-60°	2367.1	81.4
0°-90°	2906.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1133	1136	1133	1131	108
15°	1090	1076	1078	1076	1074	307
25°	996	980	978	972	975	458
35°	857	845	844	837	840	535
45°	688	683	680	677	676	531
55°	510	509	510	503	502	455
65°	323	333	339	326	315	320
75°	149	163	171	160	145	160
85°	25	33	37	35	33	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1148.9	1139.5	1142.5	1140.0	1134.4
5°	1145.5	1132.7	1136.5	1133.4	1131.4
7.5°	1133.8	1122.0	1124.8	1121.5	1120.4
10°	1123.4	1111.6	1114.3	1110.2	1108.3
12.5°	1111.3	1098.7	1101.4	1097.4	1096.2
15°	1090.2	1076.4	1078.1	1076.0	1074.0
17.5°	1065.6	1051.6	1051.9	1048.7	1048.3
20°	1047.9	1033.1	1031.8	1027.8	1029.8
22.5°	1028.5	1013.0	1011.6	1006.1	1008.8
25°	996.5	979.8	978.4	972.4	975.4
27.5°	959.5	943.0	943.0	934.6	937.8
30°	932.1	916.4	918.0	908.0	912.0
32.5°	903.1	889.0	889.8	879.9	883.8
35°	856.6	844.8	844.5	836.6	839.5
37.5°	809.1	798.7	797.0	792.4	793.2
40°	776.1	767.2	764.0	761.0	761.0
42.5°	741.5	733.4	730.2	728.0	727.2
45°	688.5	682.6	679.5	677.4	676.4
47.5°	636.2	630.7	627.9	626.5	625.5
50°	599.9	596.0	594.9	591.9	590.9
52.5°	563.7	561.3	560.3	556.4	555.4
55°	510.3	509.4	510.3	503.3	502.3
57.5°	454.8	456.4	459.6	450.1	447.7
60°	417.7	421.7	425.8	414.6	410.7
62.5°	379.9	386.2	392.0	379.2	373.7
65°	323.1	333.0	339.2	325.9	315.1
67.5°	268.4	280.6	288.1	273.7	261.5
70°	230.5	244.3	252.7	238.3	224.5
72.5°	197.5	212.8	219.6	206.0	192.3
75°	149.0	162.8	171.1	159.7	145.0
77.5°	105.7	118.7	125.6	115.7	103.5
80°	77.5	91.3	96.6	88.4	78.5
82.5°	55.0	66.4	70.1	65.1	58.4
85°	25.2	33.0	37.2	35.2	33.2
87.5°	6.4	12.0	15.3	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)