

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-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-PP3-0U-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

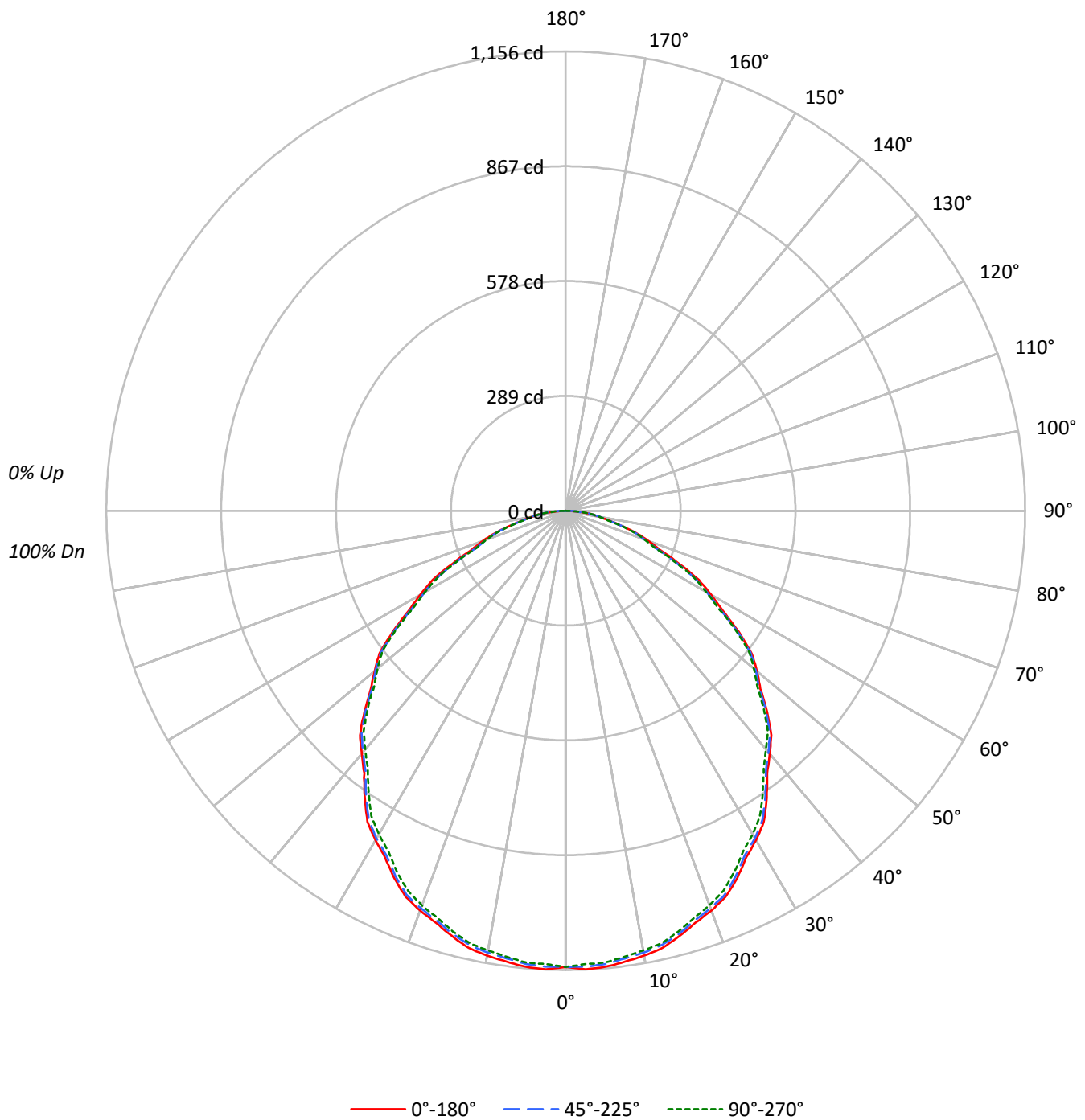
Lumens per Lamp: N/A
Luminaire Lumens: 2939.6 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10596	10596	10596
5°	10675	10609	10572
10°	10657	10581	10534
15°	10586	10528	10471
20°	10515	10457	10377
25°	10391	10318	10217
30°	10199	10144	10016
35°	9932	9863	9739
40°	9613	9553	9444
45°	9351	9286	9193
50°	9015	8958	8872
55°	8549	8435	8371
60°	7783	7560	7523
65°	6857	6571	6549
70°	5918	5676	5676
75°	5094	5023	4951
80°	4495	4548	4436
85°	3515	3832	3832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.7
10°-20°	310.1	10.5
20°-30°	464.5	15.8
30°-40°	544.8	18.5
40°-50°	546.5	18.6
50°-60°	466.2	15.9
60°-70°	304.1	10.3
70°-80°	152.5	5.2
80°-90°	42.2	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°	883.2	30.0
0°-40°	1428.0	48.6
0°-60°	2440.8	83.0
0°-90°	2939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1153	1142	1146	1142	1142	109
15°	1108	1097	1102	1098	1096	313
25°	1021	1009	1014	1005	1004	469
35°	882	873	876	866	865	551
45°	717	712	712	705	705	552
55°	532	530	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	40
90°	0	0	0	0	0	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1155.8	1146.3	1148.5	1146.8	1142.1
5°	1152.6	1141.7	1145.5	1141.5	1141.5
7.5°	1144.7	1132.9	1136.7	1132.6	1132.4
10°	1137.5	1125.6	1129.4	1125.4	1124.4
12.5°	1127.0	1115.2	1119.7	1114.9	1114.7
15°	1108.3	1097.4	1102.2	1098.2	1096.2
17.5°	1087.1	1075.3	1081.1	1075.4	1074.6
20°	1071.0	1059.2	1065.0	1056.9	1056.9
22.5°	1051.7	1039.9	1046.5	1036.0	1036.0
25°	1020.7	1008.9	1013.6	1004.6	1003.6
27.5°	983.9	972.2	977.2	966.9	966.7
30°	957.3	946.5	952.2	941.1	940.2
32.5°	928.3	918.2	922.4	911.4	910.4
35°	881.8	872.9	875.7	865.7	864.7
37.5°	832.9	823.8	827.0	818.4	818.0
40°	798.2	792.3	793.2	786.1	784.1
42.5°	766.0	759.3	760.2	753.1	752.7
45°	716.7	711.8	711.7	704.6	704.6
47.5°	664.4	660.6	659.5	653.7	653.5
50°	628.1	625.2	624.1	619.0	618.1
52.5°	590.3	588.9	585.4	581.2	581.0
55°	531.5	529.5	524.4	521.4	520.4
57.5°	467.7	463.7	458.0	453.6	454.4
60°	421.8	417.8	409.7	407.7	407.7
62.5°	377.5	372.8	364.6	361.8	363.4
65°	314.1	308.2	301.0	299.0	300.0
67.5°	256.5	251.2	243.4	243.4	242.6
70°	219.4	216.5	210.4	210.4	210.4
72.5°	186.4	185.0	180.6	180.6	179.8
75°	142.9	142.9	140.9	139.9	138.9
77.5°	107.1	107.5	106.5	105.5	103.7
80°	84.6	86.5	85.6	84.5	83.5
82.5°	63.6	65.6	65.4	63.6	63.4
85°	33.2	36.2	36.2	36.2	36.2
87.5°	8.9	12.0	12.9	12.9	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)