

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

(formerly Eaton)

Brand: CORELITE

Report Number: P519347

Luminaire Tested: **SQ4-WB-0U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519347
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

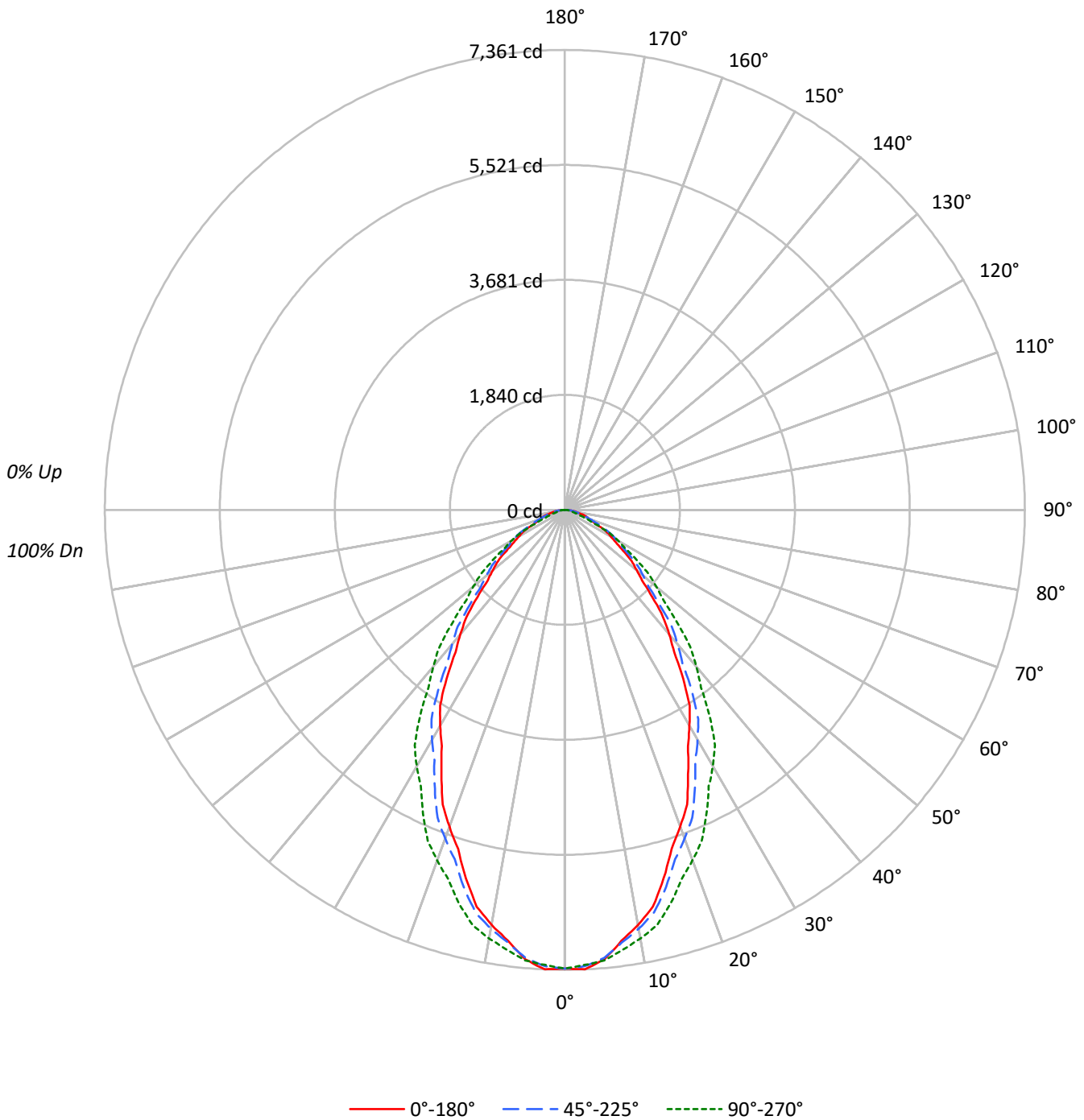
Lumens per Lamp: N/A
Luminaire Lumens: 10700.3 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5827	6025
65°	4150	4900	3892
70°	3679	3824	2376
75°	3408	3101	1454
80°	3138	2853	1256
85°	2844	2615	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	6.3
10°-20°	1751.9	16.4
20°-30°	2269.2	21.2
30°-40°	2222.1	20.8
40°-50°	1700.9	15.9
50°-60°	1133.4	10.6
60°-70°	618.5	5.8
70°-80°	257.7	2.4
80°-90°	73.0	0.7
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°	4694.7	43.9
0°-40°	6916.8	64.6
0°-60°	9751.1	91.1
0°-90°	10700.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10700.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7343	7343	7343	7343	7343	
5°	7224	7152	7198	7215	7240	672
15°	6109	6087	6251	6421	6531	1706
25°	4669	4681	4923	5138	5365	2147
35°	3299	3315	3538	3776	4044	2051
45°	1978	2016	2149	2312	2523	1543
55°	1137	1185	1253	1301	1408	1031
65°	570	618	673	588	535	593
75°	287	287	261	179	122	306
85°	81	81	74	48	29	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7343.1	7343.1	7343.1	7343.1	7343.1
2.5°	7361.2	7295.6	7312.2	7311.7	7291.6
5°	7223.9	7151.5	7198.1	7214.8	7240.0
7.5°	6955.8	6901.0	6986.1	7049.2	7100.2
10°	6747.0	6699.8	6808.3	6900.0	6966.2
12.5°	6504.7	6465.1	6599.5	6722.6	6808.9
15°	6109.1	6087.0	6250.8	6420.9	6531.2
17.5°	5685.7	5675.0	5862.9	6061.4	6202.5
20°	5397.0	5393.8	5600.0	5806.7	5970.5
22.5°	5105.7	5112.6	5329.3	5544.3	5730.8
25°	4668.8	4681.4	4923.3	5137.9	5364.8
27.5°	4264.8	4270.4	4520.6	4747.1	4989.1
30°	3988.9	4004.7	4249.9	4484.4	4736.5
32.5°	3713.1	3731.4	3971.5	4213.9	4471.0
35°	3299.4	3315.2	3537.9	3775.9	4043.7
37.5°	2872.8	2894.2	3091.9	3317.0	3580.4
40°	2597.0	2628.5	2803.2	3015.3	3273.6
42.5°	2331.5	2370.6	2532.6	2733.8	2966.9
45°	1978.4	2016.2	2149.1	2311.8	2522.9
47.5°	1674.2	1717.7	1819.8	1959.9	2140.1
50°	1501.5	1542.4	1636.8	1740.6	1910.7
52.5°	1349.4	1390.4	1474.4	1554.4	1699.3
55°	1137.4	1184.7	1253.4	1300.9	1408.1
57.5°	963.4	1008.8	1063.3	1084.7	1149.6
60°	847.4	897.8	947.3	944.9	979.5
62.5°	741.7	784.6	833.9	799.8	801.7
65°	570.3	617.6	673.4	588.4	534.9
67.5°	460.8	470.8	528.4	410.3	346.7
70°	409.2	409.2	425.3	317.8	264.2
72.5°	360.2	360.2	345.4	258.4	202.3
75°	286.8	286.8	261.0	179.1	122.4
77.5°	221.0	218.5	199.8	133.7	88.9
80°	177.2	177.2	161.1	105.5	70.9
82.5°	138.5	138.5	125.0	82.5	52.8
85°	80.6	80.6	74.1	47.9	29.0
87.5°	28.4	28.4	25.8	15.4	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)