

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: P519354

Luminaire Tested: **SQ4-WB-0U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519354
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

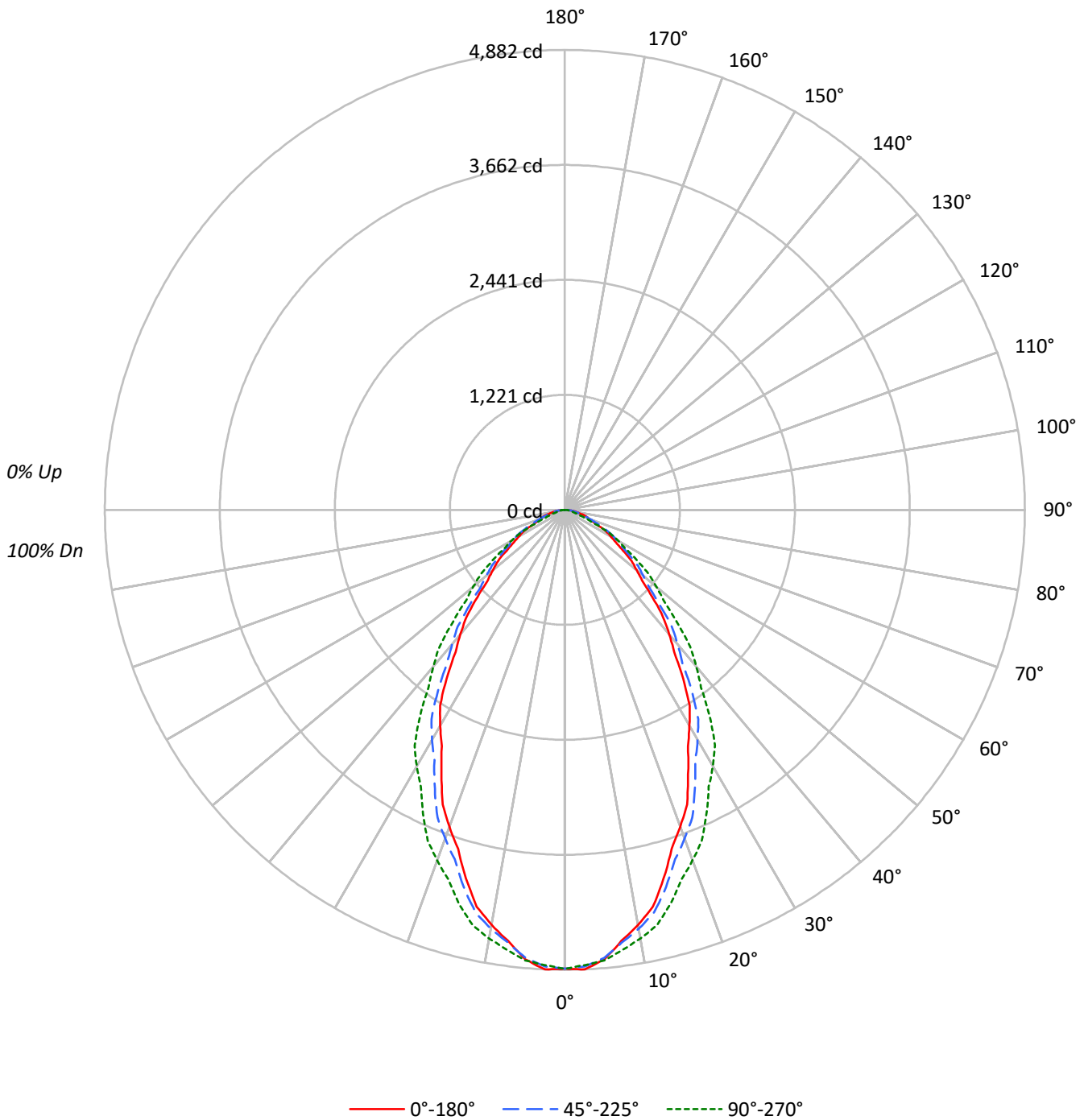
Lumens per Lamp: N/A
Luminaire Lumens: 7097.3 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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	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°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15104
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6687	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2363
75°	3390	3085	1447
80°	3121	2840	1249
85°	2826	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	6.3
10°-20°	1162.0	16.4
20°-30°	1505.1	21.2
30°-40°	1473.9	20.8
40°-50°	1128.2	15.9
50°-60°	751.8	10.6
60°-70°	410.2	5.8
70°-80°	170.9	2.4
80°-90°	48.4	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°	3113.9	43.9
0°-40°	4587.8	64.6
0°-60°	6467.7	91.1
0°-90°	7097.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7097.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4871	4871	4871	4871	4871	
5°	4792	4743	4774	4786	4802	446
15°	4052	4037	4146	4259	4332	1132
25°	3097	3105	3266	3408	3558	1424
35°	2188	2199	2347	2504	2682	1361
45°	1312	1337	1426	1533	1673	1023
55°	754	786	831	863	934	684
65°	378	410	447	390	355	393
75°	190	190	173	119	81	203
85°	53	53	49	32	19	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4870.6	4870.6	4870.6	4870.6	4870.6
2.5°	4882.5	4839.1	4850.0	4849.7	4836.4
5°	4791.5	4743.4	4774.4	4785.5	4802.2
7.5°	4613.7	4577.3	4633.8	4675.6	4709.4
10°	4475.2	4443.8	4515.8	4576.6	4620.5
12.5°	4314.5	4288.1	4377.3	4459.0	4516.2
15°	4052.0	4037.4	4146.1	4258.9	4332.0
17.5°	3771.2	3764.1	3888.8	4020.4	4114.0
20°	3579.7	3577.6	3714.4	3851.5	3960.1
22.5°	3386.5	3391.1	3534.8	3677.4	3801.1
25°	3096.7	3105.1	3265.6	3407.9	3558.4
27.5°	2828.7	2832.5	2998.4	3148.7	3309.2
30°	2645.8	2656.2	2818.9	2974.4	3141.6
32.5°	2462.9	2475.0	2634.3	2795.0	2965.5
35°	2188.4	2198.9	2346.6	2504.5	2682.1
37.5°	1905.5	1919.7	2050.8	2200.1	2374.8
40°	1722.5	1743.4	1859.3	2000.0	2171.3
42.5°	1546.4	1572.4	1679.8	1813.3	1967.9
45°	1312.2	1337.3	1425.5	1533.4	1673.4
47.5°	1110.5	1139.3	1207.1	1300.0	1419.5
50°	995.9	1023.1	1085.7	1154.5	1267.3
52.5°	895.0	922.2	978.0	1031.0	1127.1
55°	754.4	785.8	831.4	862.9	933.9
57.5°	639.0	669.1	705.3	719.5	762.5
60°	562.1	595.5	628.3	626.7	649.7
62.5°	492.0	520.4	553.1	530.5	531.7
65°	378.3	409.6	446.7	390.3	354.8
67.5°	305.6	312.3	350.5	272.2	230.0
70°	271.4	271.4	282.1	210.8	175.2
72.5°	238.9	238.9	229.1	171.4	134.2
75°	190.2	190.2	173.1	118.8	81.2
77.5°	146.6	144.9	132.5	88.7	59.0
80°	117.5	117.5	106.9	70.0	47.0
82.5°	91.9	91.9	82.9	54.7	35.0
85°	53.4	53.4	49.2	31.8	19.2
87.5°	18.8	18.8	17.1	10.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)