

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: P519335

Luminaire Tested: **SQ4-WB-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519335
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12314.9 lumens
Efficiency: N/A
Efficacy: 87.5 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

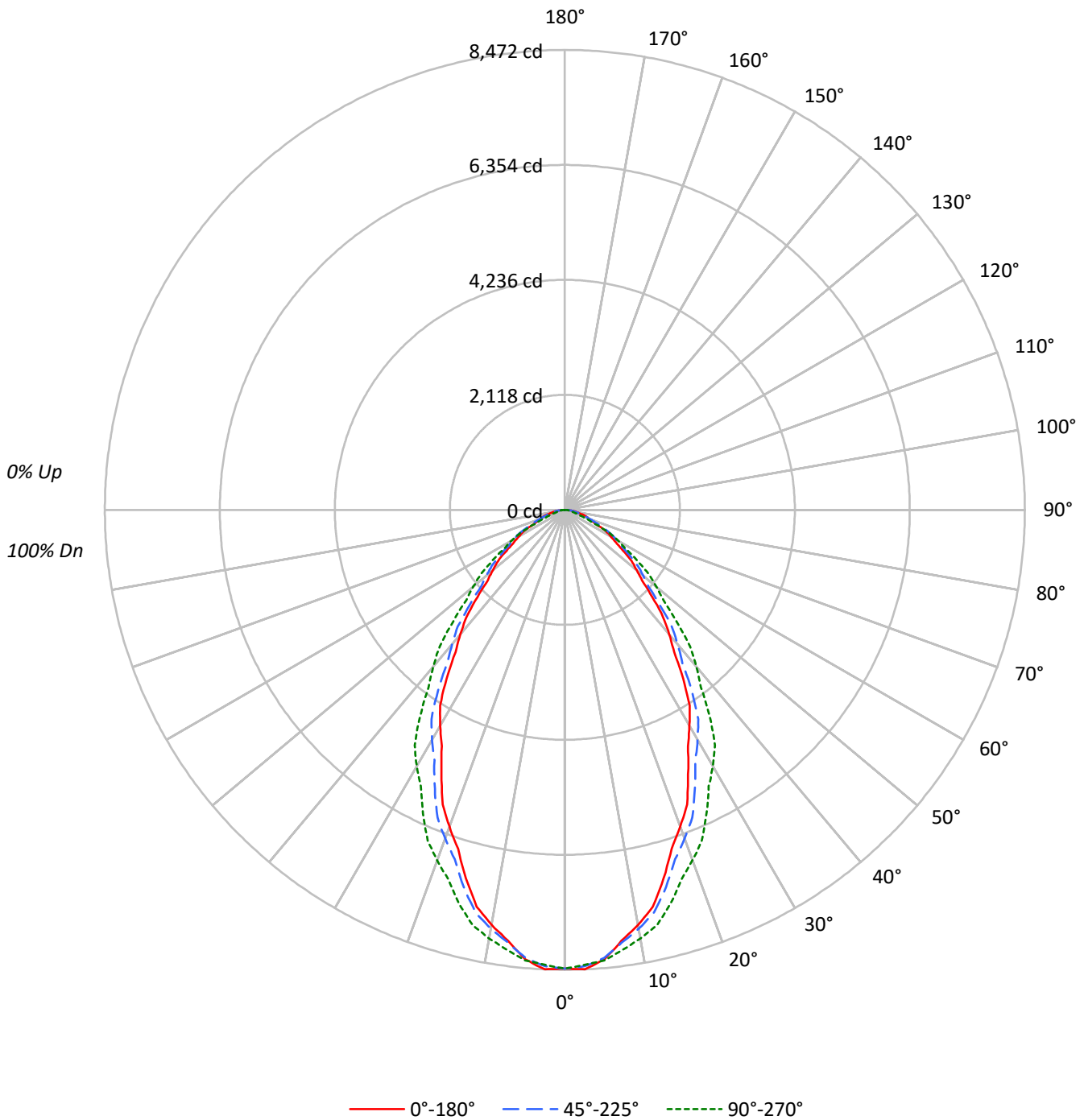
Input Watts (W): 140.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25037
15°	22386	22905	23932
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15126
45°	9903	10757	12629
50°	8268	9013	10521
55°	7019	7734	8689
60°	5999	6706	6934
65°	4777	5640	4480
70°	4234	4402	2734
75°	3921	3569	1674
80°	3613	3284	1445
85°	3271	3010	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.2	6.3
10°-20°	2016.2	16.4
20°-30°	2611.6	21.2
30°-40°	2557.4	20.8
40°-50°	1957.6	15.9
50°-60°	1304.4	10.6
60°-70°	711.8	5.8
70°-80°	296.6	2.4
80°-90°	84.0	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°	5403.0	43.9
0°-40°	7960.5	64.6
0°-60°	11222.5	91.1
0°-90°	12314.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12314.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8451	8451	8451	8451	8451	
5°	8314	8230	8284	8304	8332	773
15°	7031	7006	7194	7390	7517	1963
25°	5373	5388	5666	5913	6174	2471
35°	3797	3815	4072	4346	4654	2361
45°	2277	2320	2473	2661	2904	1776
55°	1309	1363	1442	1497	1620	1187
65°	656	711	775	677	616	682
75°	330	330	300	206	141	352
85°	93	93	85	55	33	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8451.1	8451.1	8451.1	8451.1	8451.1
2.5°	8471.9	8396.5	8415.5	8415.0	8391.8
5°	8313.9	8230.5	8284.3	8303.5	8332.5
7.5°	8005.4	7942.3	8040.3	8112.8	8171.5
10°	7765.1	7710.7	7835.6	7941.1	8017.3
12.5°	7486.2	7440.6	7595.3	7737.0	7836.3
15°	7030.9	7005.5	7194.0	7389.8	7516.7
17.5°	6543.6	6531.3	6747.6	6976.0	7138.4
20°	6211.3	6207.7	6445.0	6682.9	6871.4
22.5°	5876.1	5884.1	6133.5	6380.9	6595.5
25°	5373.3	5387.8	5666.2	5913.2	6174.3
27.5°	4908.3	4914.8	5202.7	5463.4	5741.9
30°	4590.8	4609.0	4891.2	5161.1	5451.2
32.5°	4273.4	4294.4	4570.8	4849.7	5145.6
35°	3797.3	3815.4	4071.7	4345.7	4653.9
37.5°	3306.3	3330.9	3558.5	3817.5	4120.6
40°	2988.9	3025.1	3226.2	3470.3	3767.6
42.5°	2683.3	2728.3	2914.7	3146.3	3414.6
45°	2276.9	2320.4	2473.4	2660.6	2903.6
47.5°	1926.8	1976.9	2094.4	2255.6	2463.0
50°	1728.1	1775.2	1883.8	2003.2	2199.0
52.5°	1553.0	1600.2	1696.9	1789.0	1955.7
55°	1309.0	1363.4	1442.5	1497.2	1620.5
57.5°	1108.8	1161.0	1223.7	1248.4	1323.1
60°	975.3	1033.3	1090.2	1087.4	1127.3
62.5°	853.6	903.0	959.7	920.4	922.6
65°	656.4	710.8	775.0	677.2	615.6
67.5°	530.3	541.9	608.2	472.3	399.0
70°	470.9	470.9	489.5	365.7	304.1
72.5°	414.6	414.6	397.5	297.4	232.9
75°	330.0	330.0	300.4	206.2	140.9
77.5°	254.4	251.5	229.9	153.8	102.3
80°	204.0	204.0	185.4	121.5	81.6
82.5°	159.5	159.5	143.9	94.9	60.8
85°	92.7	92.7	85.3	55.1	33.4
87.5°	32.6	32.6	29.7	17.7	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)