

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: P519334

Luminaire Tested: **SQ4-WB-0U-125D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519334
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7749.3 lumens
Efficiency: N/A
Efficacy: 85.1 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

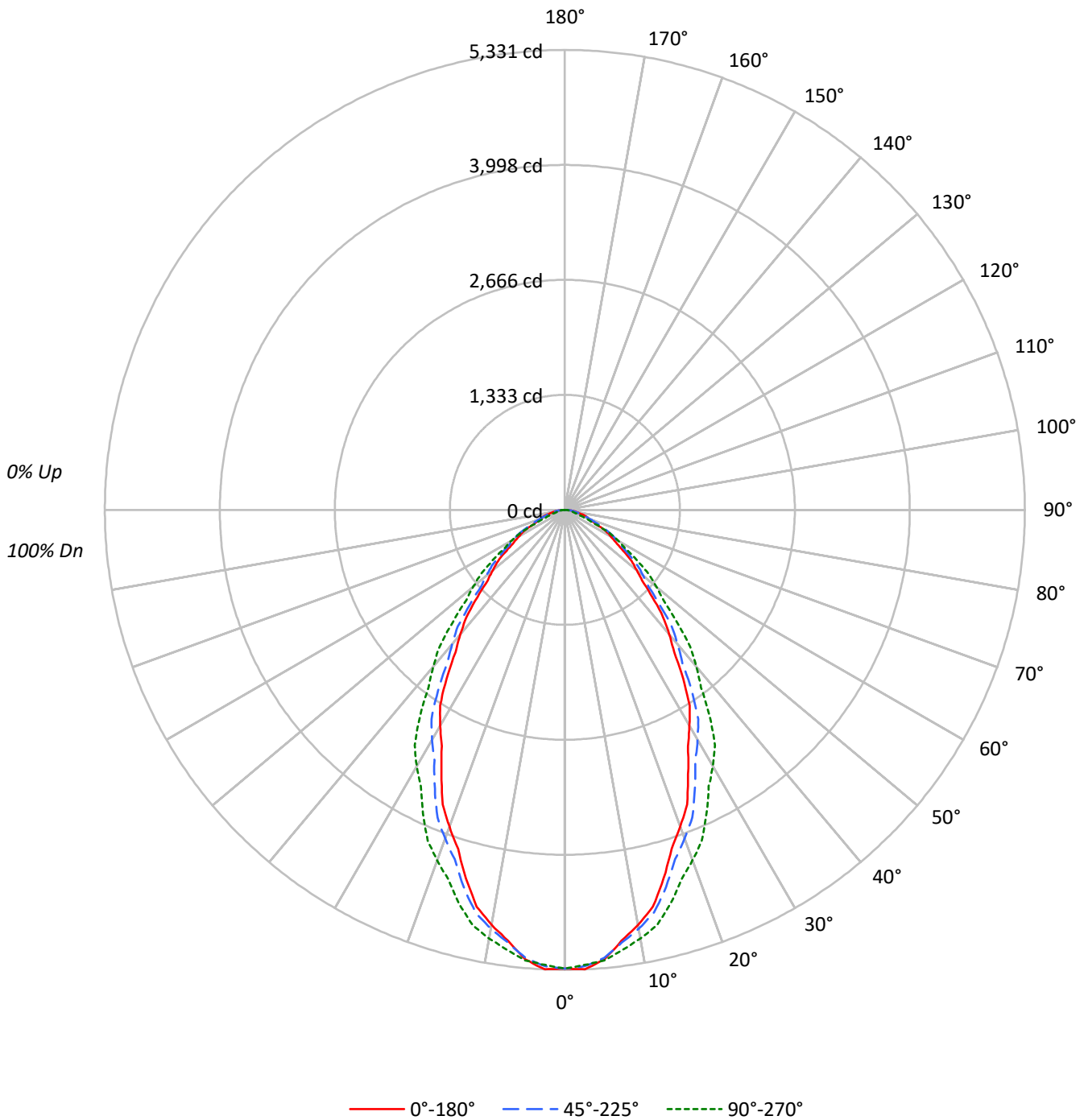
Input Watts (W): 91.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18148	19776
30°	15388	16395	18272
35°	13457	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9930
55°	6625	7300	8201
60°	5662	6329	6545
65°	4508	5324	4229
70°	3998	4154	2580
75°	3702	3369	1581
80°	3408	3100	1363
85°	3086	2842	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	6.3
10°-20°	1268.7	16.4
20°-30°	1643.4	21.2
30°-40°	1609.3	20.8
40°-50°	1231.8	15.9
50°-60°	820.8	10.6
60°-70°	447.9	5.8
70°-80°	186.6	2.4
80°-90°	52.8	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°	3399.9	43.9
0°-40°	5009.2	64.6
0°-60°	7061.8	91.1
0°-90°	7749.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7749.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5318	5318	5318	5318	5318	
5°	5232	5179	5213	5225	5243	487
15°	4424	4408	4527	4650	4730	1235
25°	3381	3390	3566	3721	3885	1555
35°	2390	2401	2562	2735	2928	1486
45°	1433	1460	1556	1674	1827	1117
55°	824	858	908	942	1020	747
65°	413	447	488	426	387	429
75°	208	208	189	130	89	222
85°	58	58	54	35	21	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5318.0	5318.0	5318.0	5318.0	5318.0
2.5°	5331.0	5283.6	5295.6	5295.2	5280.6
5°	5231.6	5179.2	5213.0	5225.1	5243.3
7.5°	5037.5	4997.8	5059.4	5105.1	5142.0
10°	4886.3	4852.1	4930.6	4997.0	5045.0
12.5°	4710.8	4682.1	4779.4	4868.6	4931.1
15°	4424.3	4408.3	4526.9	4650.1	4729.9
17.5°	4117.6	4109.9	4246.0	4389.7	4491.9
20°	3908.6	3906.3	4055.6	4205.3	4323.9
22.5°	3697.6	3702.6	3859.6	4015.2	4150.3
25°	3381.2	3390.3	3565.5	3721.0	3885.2
27.5°	3088.6	3092.7	3273.9	3437.9	3613.1
30°	2888.8	2900.2	3077.8	3247.7	3430.2
32.5°	2689.1	2702.3	2876.2	3051.7	3237.9
35°	2389.5	2400.9	2562.1	2734.6	2928.5
37.5°	2080.5	2096.0	2239.2	2402.2	2593.0
40°	1880.8	1903.6	2030.1	2183.7	2370.8
42.5°	1688.5	1716.8	1834.1	1979.8	2148.7
45°	1432.8	1460.1	1556.4	1674.2	1827.1
47.5°	1212.5	1244.0	1317.9	1419.4	1549.9
50°	1087.4	1117.1	1185.4	1260.5	1383.7
52.5°	977.3	1006.9	1067.8	1125.7	1230.7
55°	823.7	857.9	907.7	942.2	1019.7
57.5°	697.7	730.6	770.0	785.6	832.6
60°	613.7	650.2	686.0	684.3	709.4
62.5°	537.2	568.2	603.9	579.2	580.6
65°	413.0	447.2	487.7	426.1	387.4
67.5°	333.7	341.0	382.7	297.2	251.1
70°	296.4	296.4	308.0	230.1	191.3
72.5°	260.9	260.9	250.1	187.2	146.5
75°	207.7	207.7	189.0	129.7	88.7
77.5°	160.1	158.3	144.7	96.8	64.4
80°	128.3	128.3	116.7	76.4	51.3
82.5°	100.3	100.3	90.5	59.7	38.3
85°	58.3	58.3	53.7	34.7	21.0
87.5°	20.5	20.5	18.7	11.2	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)