

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: P519338

Luminaire Tested: **SQ4-WB-0U-125D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519338
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-8
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

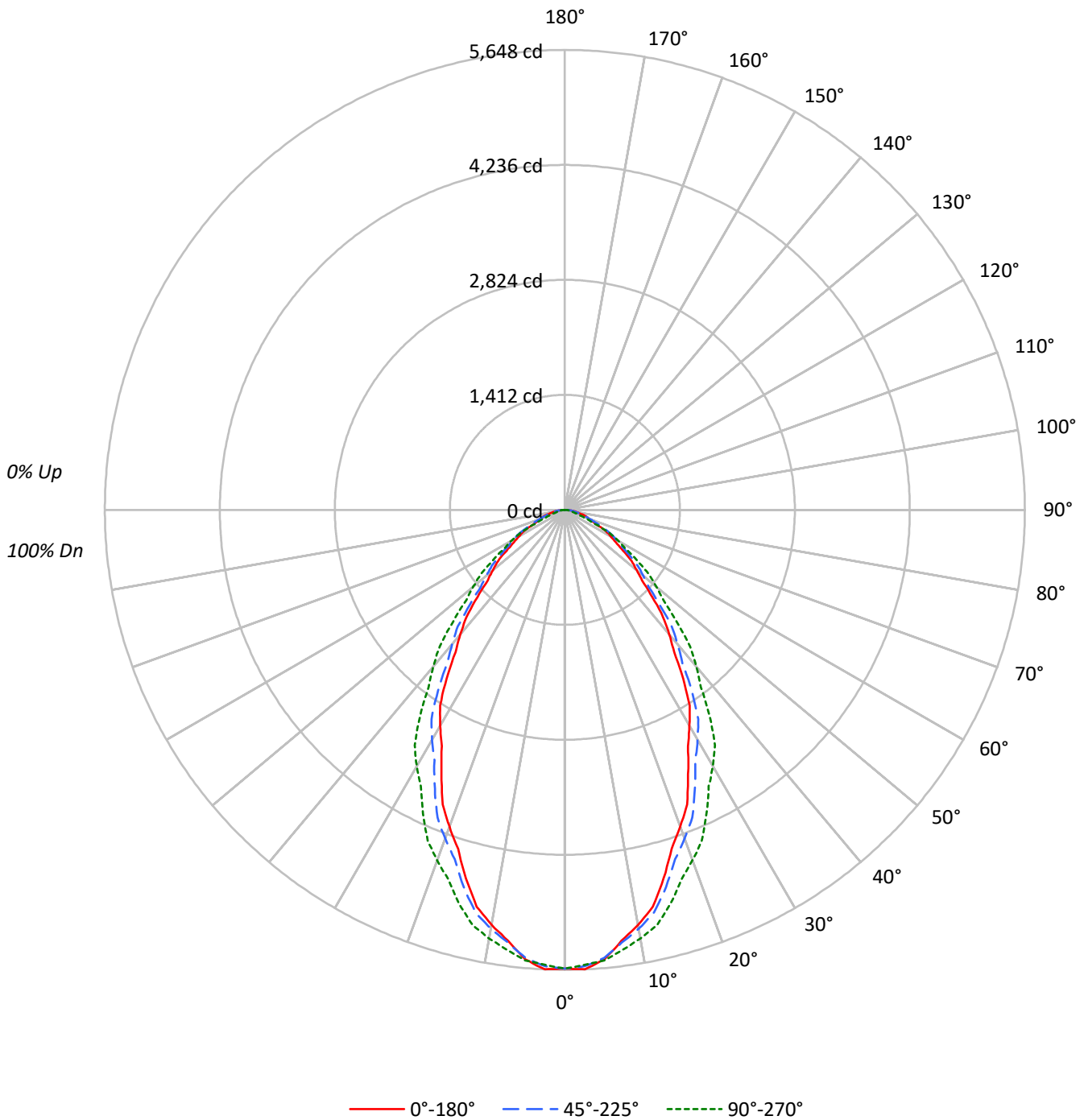
Lumens per Lamp: N/A
Luminaire Lumens: 8209.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25036
15°	22385	22905	23932
20°	20328	21093	22488
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15125
45°	9903	10757	12628
50°	8268	9013	10521
55°	7019	7735	8689
60°	5999	6706	6933
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3568	1674
80°	3613	3284	1445
85°	3271	3012	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	6.3
10°-20°	1344.2	16.4
20°-30°	1741.1	21.2
30°-40°	1704.9	20.8
40°-50°	1305.0	15.9
50°-60°	869.6	10.6
60°-70°	474.5	5.8
70°-80°	197.7	2.4
80°-90°	56.0	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°	3602.0	43.9
0°-40°	5307.0	64.6
0°-60°	7481.6	91.1
0°-90°	8209.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8209.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5634	5634	5634	5634	5634	
5°	5543	5487	5523	5536	5555	516
15°	4687	4670	4796	4926	5011	1309
25°	3582	3592	3778	3942	4116	1647
35°	2532	2544	2714	2897	3103	1574
45°	1518	1547	1649	1774	1936	1184
55°	873	909	962	998	1080	791
65°	438	474	517	452	410	455
75°	220	220	200	138	94	235
85°	62	62	57	37	22	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5634.1	5634.1	5634.1	5634.1	5634.1
2.5°	5647.9	5597.7	5610.4	5610.0	5594.5
5°	5542.6	5487.0	5522.8	5535.6	5555.0
7.5°	5336.9	5294.9	5360.2	5408.5	5447.7
10°	5176.7	5140.5	5223.7	5294.1	5344.8
12.5°	4990.8	4960.4	5063.5	5158.0	5224.2
15°	4687.2	4670.3	4796.0	4926.5	5011.1
17.5°	4362.4	4354.2	4498.4	4650.6	4758.9
20°	4140.9	4138.5	4296.6	4455.2	4580.9
22.5°	3917.4	3922.7	4089.0	4253.9	4397.0
25°	3582.2	3591.9	3777.5	3942.1	4116.2
27.5°	3272.2	3276.5	3468.5	3642.3	3827.9
30°	3060.6	3072.6	3260.8	3440.7	3634.1
32.5°	2848.9	2863.0	3047.2	3233.1	3430.4
35°	2531.5	2543.6	2714.5	2897.1	3102.6
37.5°	2204.2	2220.6	2372.3	2545.0	2747.1
40°	1992.6	2016.7	2150.8	2313.5	2511.7
42.5°	1788.9	1818.8	1943.1	2097.5	2276.4
45°	1517.9	1546.9	1648.9	1773.8	1935.7
47.5°	1284.5	1317.9	1396.3	1503.8	1642.0
50°	1152.0	1183.5	1255.9	1335.5	1466.0
52.5°	1035.3	1066.8	1131.3	1192.6	1303.8
55°	872.7	908.9	961.7	998.2	1080.3
57.5°	739.2	774.0	815.8	832.3	882.1
60°	650.2	688.9	726.8	725.0	751.5
62.5°	569.1	602.0	639.8	613.6	615.1
65°	437.6	473.8	516.7	451.5	410.4
67.5°	353.5	361.3	405.4	314.8	266.0
70°	314.0	314.0	326.3	243.8	202.7
72.5°	276.4	276.4	265.0	198.3	155.3
75°	220.0	220.0	200.2	137.5	93.9
77.5°	169.6	167.7	153.3	102.6	68.2
80°	136.0	136.0	123.6	81.0	54.4
82.5°	106.3	106.3	95.9	63.3	40.5
85°	61.8	61.8	56.9	36.8	22.2
87.5°	21.8	21.8	19.8	11.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)