

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: P519323

Luminaire Tested: **SQ4-WB-0U-100D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519323
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-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

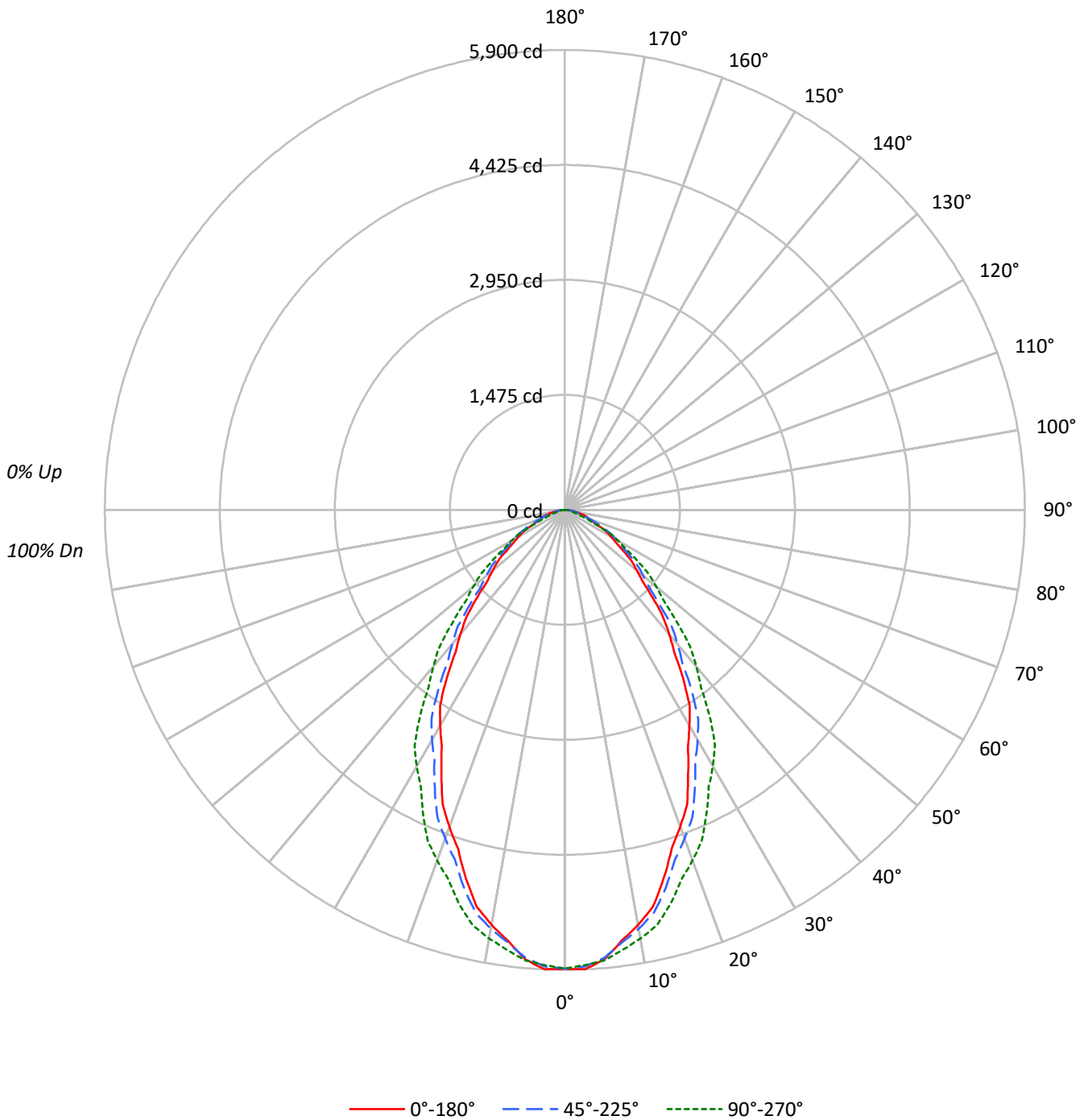
Lumens per Lamp: N/A
Luminaire Lumens: 8577.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8796
50°	5758	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3326	3928	3120
70°	2949	3065	1904
75°	2732	2486	1166
80°	2515	2286	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	6.3
10°-20°	1404.3	16.4
20°-30°	1818.9	21.2
30°-40°	1781.2	20.8
40°-50°	1363.4	15.9
50°-60°	908.5	10.6
60°-70°	495.8	5.8
70°-80°	206.6	2.4
80°-90°	58.5	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°	3763.1	43.9
0°-40°	5544.3	64.6
0°-60°	7816.2	91.1
0°-90°	8577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5886	5886	5886	5886	5886	
5°	5790	5732	5770	5783	5803	539
15°	4897	4879	5010	5147	5235	1367
25°	3742	3752	3946	4118	4300	1721
35°	2645	2657	2836	3027	3241	1644
45°	1586	1616	1723	1853	2022	1237
55°	912	950	1005	1043	1129	827
65°	457	495	540	472	429	475
75°	230	230	209	144	98	245
85°	65	65	59	38	23	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5900.5	5847.9	5861.2	5860.8	5844.7
5°	5790.4	5732.4	5769.8	5783.2	5803.4
7.5°	5575.6	5531.6	5599.8	5650.4	5691.3
10°	5408.2	5370.3	5457.3	5530.8	5583.8
12.5°	5214.0	5182.2	5289.9	5388.6	5457.8
15°	4896.8	4879.1	5010.5	5146.8	5235.2
17.5°	4557.5	4548.9	4699.5	4858.6	4971.7
20°	4326.0	4323.5	4488.8	4654.5	4785.8
22.5°	4092.6	4098.1	4271.8	4444.1	4593.6
25°	3742.4	3752.5	3946.4	4118.4	4300.2
27.5°	3418.5	3423.0	3623.5	3805.1	3999.1
30°	3197.4	3210.0	3406.6	3594.6	3796.6
32.5°	2976.3	2991.0	3183.5	3377.7	3583.8
35°	2644.7	2657.3	2835.8	3026.7	3241.3
37.5°	2302.7	2319.9	2478.4	2658.8	2869.9
40°	2081.7	2106.9	2247.0	2417.0	2624.0
42.5°	1868.9	1900.2	2030.0	2191.3	2378.2
45°	1585.8	1616.1	1722.7	1853.1	2022.3
47.5°	1342.0	1376.8	1458.7	1571.0	1715.4
50°	1203.5	1236.4	1312.0	1395.2	1531.5
52.5°	1081.6	1114.5	1181.9	1246.0	1362.1
55°	911.7	949.6	1004.7	1042.8	1128.6
57.5°	772.2	808.6	852.3	869.5	921.5
60°	679.3	719.7	759.3	757.4	785.1
62.5°	594.5	628.9	668.4	641.1	642.6
65°	457.1	495.0	539.8	471.7	428.7
67.5°	369.3	377.4	423.6	328.9	277.9
70°	328.0	328.0	340.9	254.7	211.8
72.5°	288.7	288.7	276.9	207.1	162.2
75°	229.9	229.9	209.2	143.6	98.1
77.5°	177.2	175.2	160.1	107.1	71.3
80°	142.0	142.0	129.1	84.6	56.8
82.5°	111.1	111.1	100.2	66.1	42.4
85°	64.6	64.6	59.4	38.4	23.2
87.5°	22.7	22.7	20.7	12.4	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)