

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMIERE

Report Number: P220371

Luminaire Tested: **9002-W1-FL-LED3590-S-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W1-FL-LED3590-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 413.1 lumens  
Efficiency: N/A  
Efficacy: 41.3 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

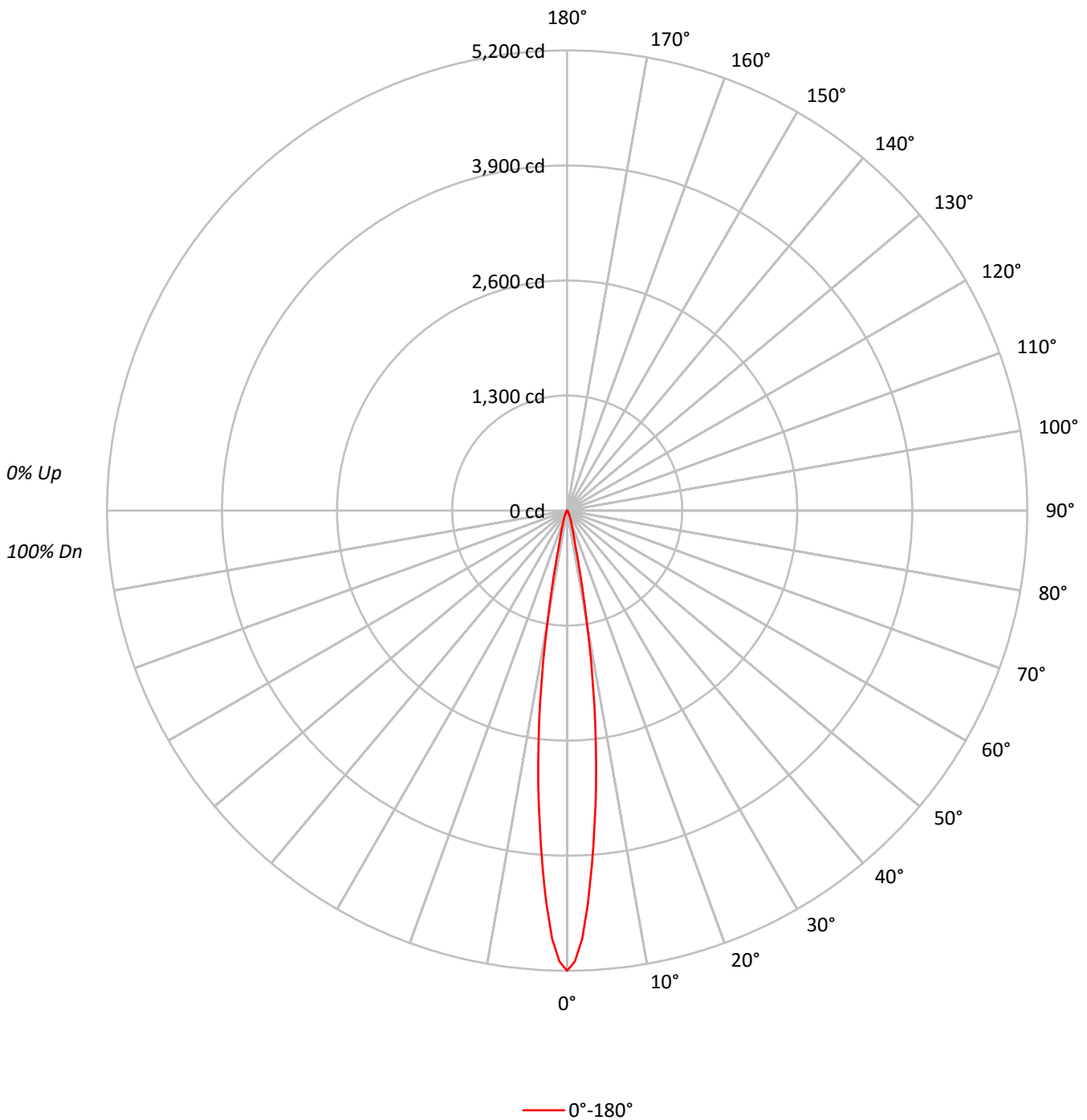
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100
1	116	114	112	110	113	112	110	109	108	106	105	105	104	103	102	102	101	100	99	99	98
2	112	109	107	104	110	108	105	103	105	103	101	101	102	100	99	99	99	98	97	97	96
3	110	106	102	100	108	104	101	99	102	100	98	98	100	98	96	96	98	96	95	95	94
4	107	103	99	97	106	102	98	96	100	97	95	95	98	96	94	94	96	94	93	93	92
5	105	100	97	94	104	99	96	94	98	95	93	93	96	94	92	92	95	93	91	91	90
6	103	98	94	92	102	97	94	92	96	93	91	91	95	92	90	90	94	92	90	90	89
7	101	96	92	90	100	95	92	90	94	91	89	89	93	91	89	89	92	90	89	89	88
8	99	94	91	88	98	94	90	88	93	90	88	88	92	89	88	88	91	89	87	87	87
9	98	92	89	87	97	92	89	87	91	89	87	87	91	88	86	86	90	88	86	86	85
10	96	91	88	86	95	91	88	86	90	87	85	85	89	87	85	85	89	87	85	85	84

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2565475
5°	1763041
10°	642771
15°	132242
20°	63845
25°	31683
30°	11850
35°	6264
40°	5024
45°	3628
50°	3301
55°	3011
60°	3454
65°	4086
70°	3751
75°	3241
80°	2557
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	64.7
10°-20°	97.9	23.7
20°-30°	27.9	6.8
30°-40°	7.3	1.8
40°-50°	4.3	1.0
50°-60°	3.4	0.8
60°-70°	3.1	0.8
70°-80°	1.8	0.4
80°-90°	0.1	0.0
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°	393.0	95.1
0°-40°	400.3	96.9
0°-60°	408.0	98.8
0°-90°	413.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5200	
5°	3560	267
15°	259	98
25°	58	28
35°	10	7
45°	5	4
55°	4	3
65°	4	3
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5199.8
1°	5093.8
2°	4841.9
3°	4455.4
4°	4008.0
5°	3559.8
6°	3116.8
7°	2666.8
8°	2197.7
9°	1727.8
10°	1283.0
11°	899.9
12°	619.4
13°	436.1
14°	325.7
15°	258.9
17.5°	168.5
20°	121.6
22.5°	89.5
25°	58.2
27.5°	34.7
30°	20.8
32.5°	13.9
35°	10.4
37.5°	8.7
40°	7.8
42.5°	6.1
45°	5.2
47.5°	5.2
50°	4.3
52.5°	4.3
55°	3.5
57.5°	3.5
60°	3.5
62.5°	3.5
65°	3.5
67.5°	2.6
70°	2.6
72.5°	2.6
75°	1.7
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)