

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: P220403

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)  
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-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

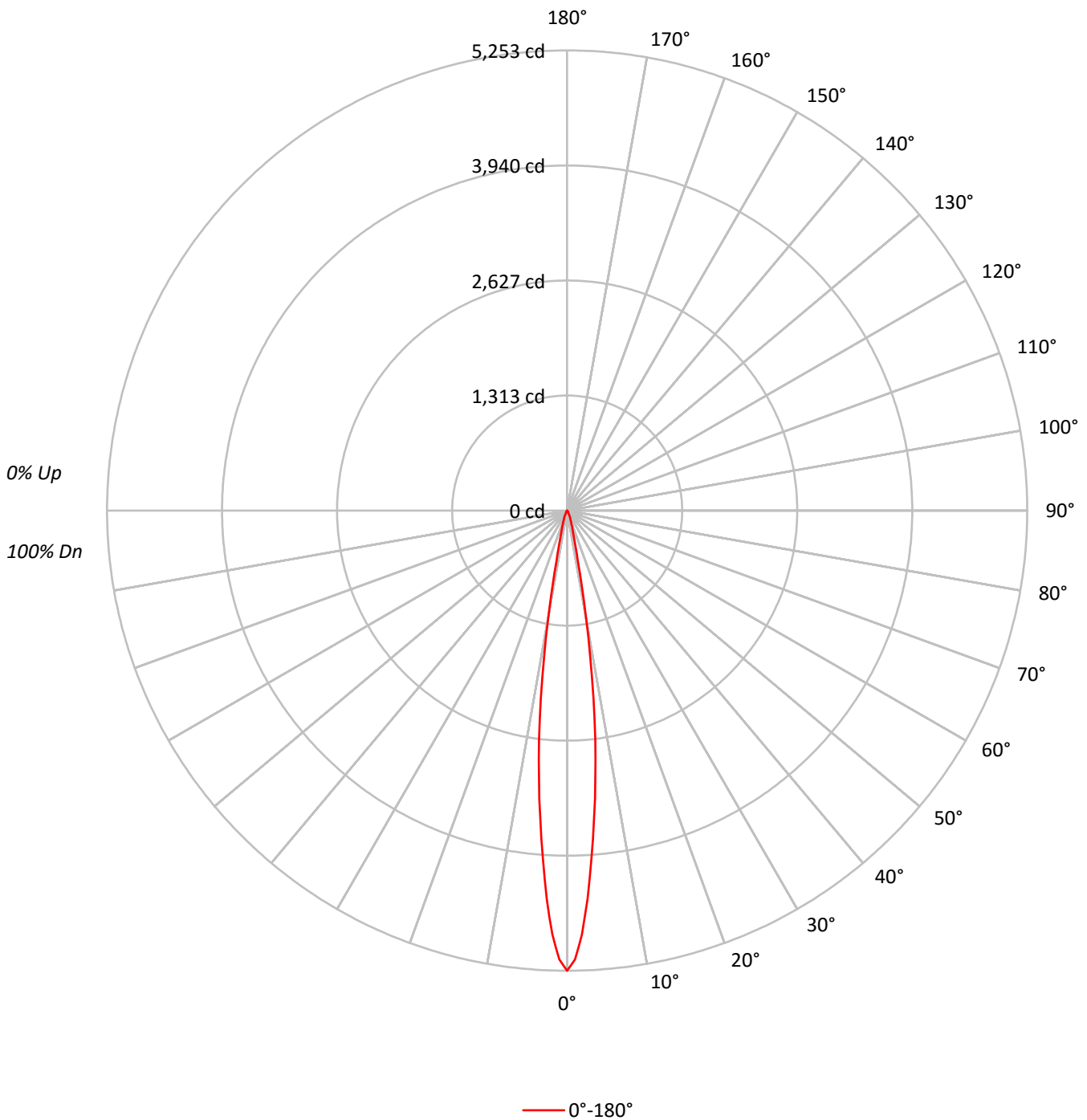
Lumens per Lamp: N/A  
Luminaire Lumens: 398.2 lumens  
Efficiency: N/A  
Efficacy: 39.8 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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: 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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96
3	110	106	103	101	108	105	102	100	103	101	99	100	99	97	98	97	96	95
4	108	103	100	98	106	102	100	97	101	98	96	99	97	95	97	96	94	93
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	93	92
6	104	99	96	93	103	98	95	93	97	94	92	96	94	92	95	93	91	90
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	94	92	90	89
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88
9	99	94	91	89	98	93	90	88	93	90	88	92	90	88	91	89	88	87
10	97	92	89	87	97	92	89	87	91	89	87	91	89	87	90	88	87	86

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

	0°
0°	2591575
5°	1748382
10°	622331
15°	129535
20°	62480
25°	30268
30°	10369
35°	5240
40°	3929
45°	2442
50°	1996
55°	1462
60°	1677
65°	1051
70°	1298
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	66.3
10°-20°	94.7	23.8
20°-30°	26.6	6.7
30°-40°	6.1	1.5
40°-50°	3.2	0.8
50°-60°	1.8	0.5
60°-70°	1.2	0.3
70°-80°	0.4	0.1
80°-90°	0.0	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°	385.5	96.8
0°-40°	391.7	98.4
0°-60°	396.6	99.6
0°-90°	398.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5253	
5°	3530	264
15°	254	95
25°	56	27
35°	9	6
45°	4	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5252.7
1°	5123.3
2°	4843.6
3°	4437.1
4°	3981.9
5°	3530.2
6°	3084.6
7°	2632.9
8°	2161.2
9°	1685.2
10°	1242.2
11°	866.9
12°	588.9
13°	417.8
14°	317.9
15°	253.6
17.5°	164.2
20°	119.0
22.5°	86.0
25°	55.6
27.5°	32.1
30°	18.2
32.5°	12.2
35°	8.7
37.5°	6.9
40°	6.1
42.5°	5.2
45°	3.5
47.5°	3.5
50°	2.6
52.5°	2.6
55°	1.7
57.5°	1.7
60°	1.7
62.5°	1.7
65°	0.9
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0
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)