

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: P220402

Luminaire Tested: **9002-W1-FL-LED3090-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220402  
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-LED3090-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

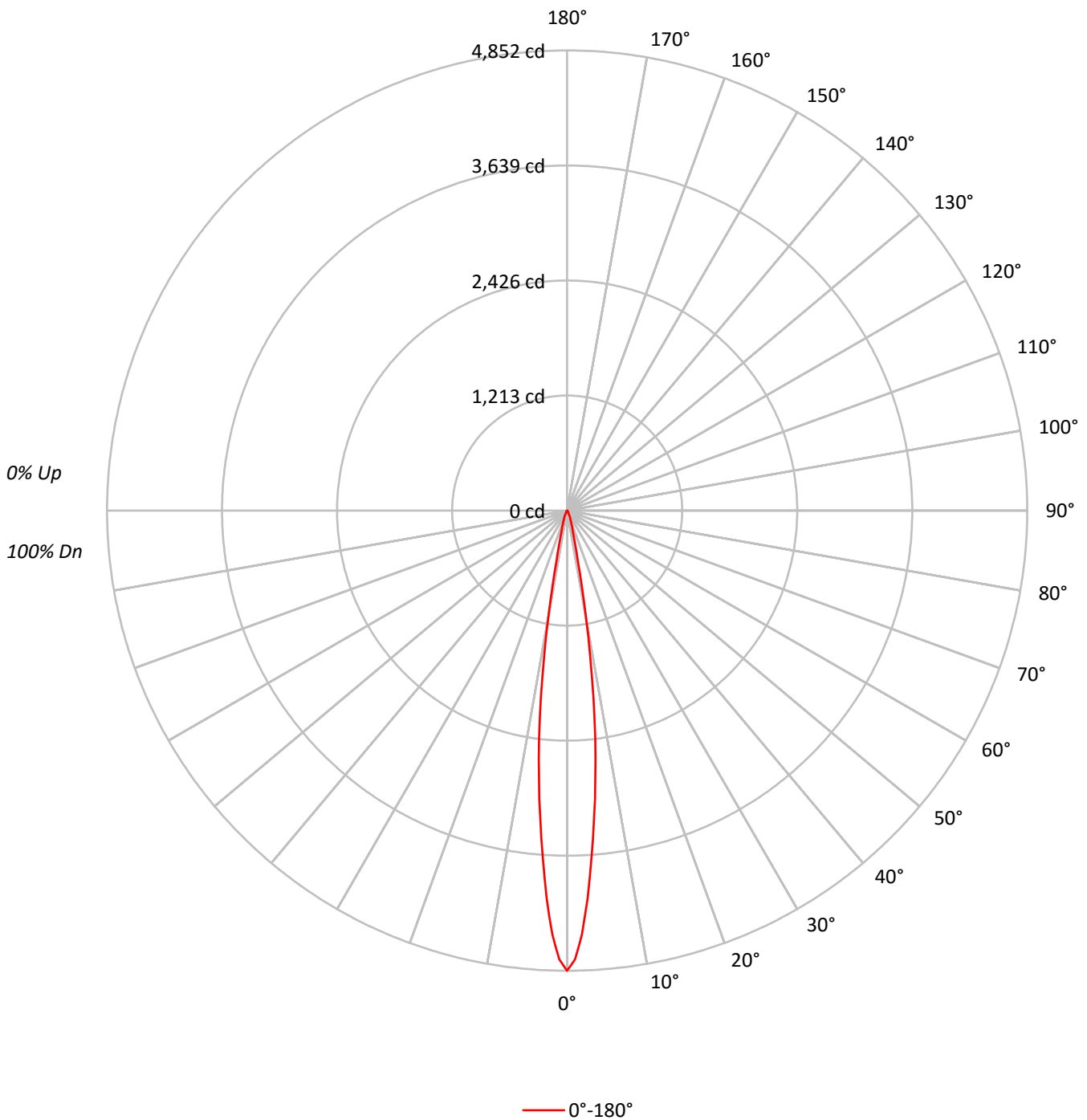
Lumens per Lamp: N/A  
Luminaire Lumens: 367.8 lumens  
Efficiency: N/A  
Efficacy: 36.8 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P220402  
CATALOG NUMBER: 9002-W1-FL-LED3090-S-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P220402

CATALOG NUMBER: 9002-W1-FL-LED3090-S-BK-L1-UNV

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

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

0°	
0°	2393828
5°	1614957
10°	574837
15°	119677
20°	57702
25°	27981
30°	9571
35°	4818
40°	3607
45°	2233
50°	1842
55°	1376
60°	1579
65°	934
70°	1154
75°	0
80°	0
85°	0



TEST NUMBER: P220402

CATALOG NUMBER: 9002-W1-FL-LED3090-S-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	66.4
10°-20°	87.5	23.8
20°-30°	24.6	6.7
30°-40°	5.6	1.5
40°-50°	2.9	0.8
50°-60°	1.7	0.5
60°-70°	1.1	0.3
70°-80°	0.3	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°	356.1	96.8
0°-40°	361.8	98.4
0°-60°	366.4	99.6
0°-90°	367.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	367.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4852	
5°	3261	244
15°	234	87
25°	51	25
35°	8	6
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P220402

CATALOG NUMBER: 9002-W1-FL-LED3090-S-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4851.9
1°	4732.4
2°	4474.0
3°	4098.5
4°	3678.1
5°	3260.8
6°	2849.2
7°	2432.0
8°	1996.3
9°	1556.6
10°	1147.4
11°	800.8
12°	544.0
13°	385.9
14°	293.7
15°	234.3
17.5°	151.6
20°	109.9
22.5°	79.4
25°	51.4
27.5°	29.7
30°	16.8
32.5°	11.2
35°	8.0
37.5°	6.4
40°	5.6
42.5°	4.8
45°	3.2
47.5°	3.2
50°	2.4
52.5°	2.4
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



TEST NUMBER: P220402

CATALOG NUMBER: 9002-W1-FL-LED3090-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)