

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: P220743

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-[RW, RI]-LED4097-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

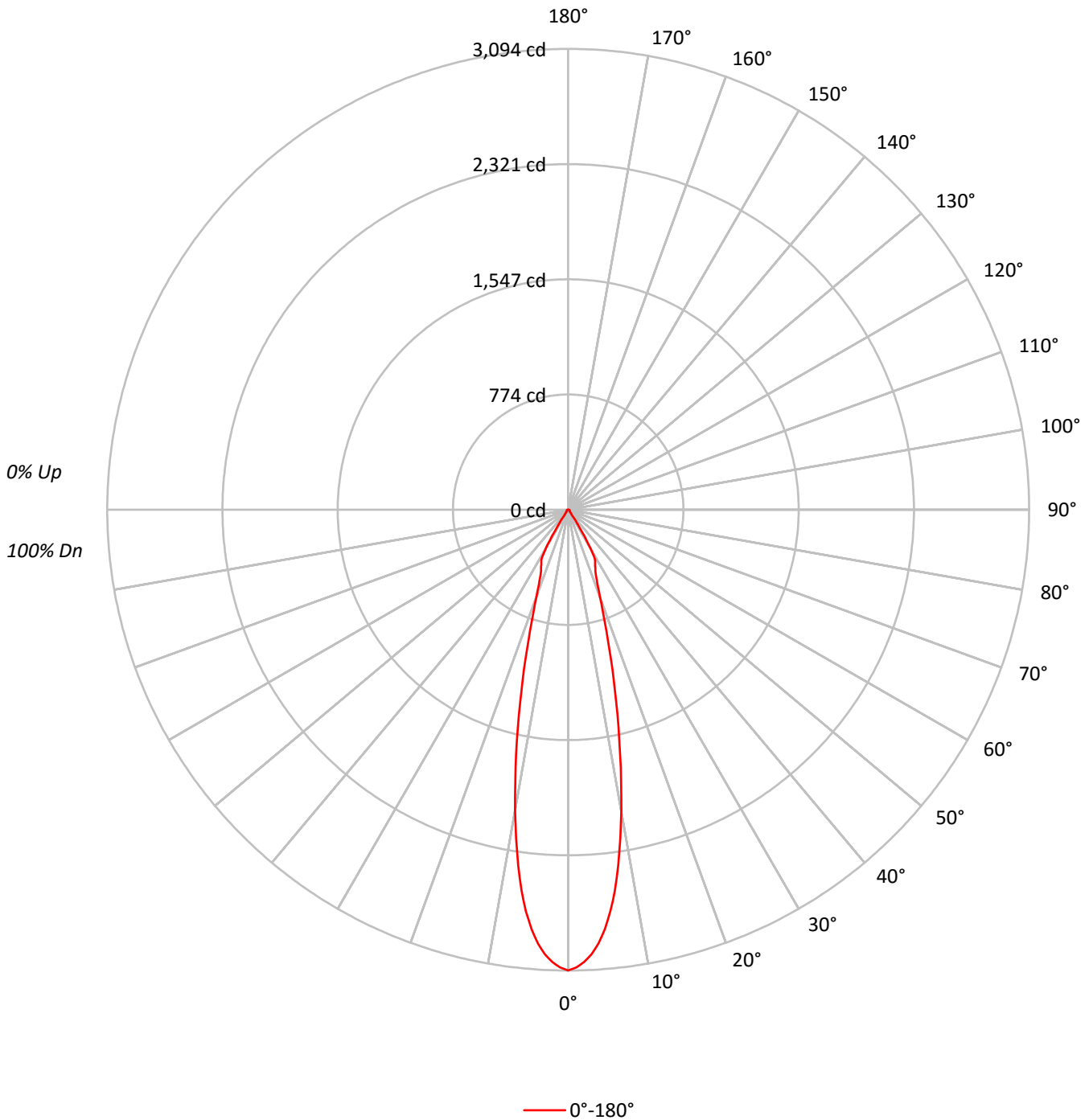
Lumens per Lamp: N/A  
Luminaire Lumens: 877.6 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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	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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	67	66

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

	0°
0°	381582
5°	349919
10°	256772
15°	150389
20°	82052
25°	58467
30°	43241
35°	6234
40°	3414
45°	2425
50°	2475
55°	2559
60°	2862
65°	3181
70°	3715
75°	4575
80°	5398
85°	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.6	27.9
10°-20°	327.5	37.3
20°-30°	202.2	23.0
30°-40°	56.3	6.4
40°-50°	11.4	1.3
50°-60°	10.8	1.2
60°-70°	10.9	1.2
70°-80°	9.8	1.1
80°-90°	4.1	0.5
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°	774.2	88.2
0°-40°	830.6	94.6
0°-60°	852.8	97.2
0°-90°	877.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3094	
5°	2826	245
15°	1178	327
25°	430	202
35°	41	56
45°	14	11
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3093.6
1°	3074.3
2°	3038.9
3°	2988.5
4°	2919.2
5°	2826.1
6°	2710.7
7°	2573.5
8°	2409.7
9°	2233.7
10°	2050.1
11°	1863.2
12°	1678.5
13°	1498.6
14°	1331.5
15°	1177.7
16°	1036.2
17°	909.2
18°	797.8
19°	702.7
20°	625.1
21°	561.2
22°	513.1
23°	476.6
24°	449.5
25°	429.6
26°	413.3
27°	399.1
28°	385.5
29°	355.0
30°	303.6
32.5°	147.2
35°	41.4
37.5°	28.5
40°	21.2
42.5°	14.9
45°	13.9
47.5°	13.3
50°	12.9
52.5°	12.3
55°	11.9
57.5°	11.9
60°	11.6
62.5°	11.6
65°	10.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	10.6
70°	10.3
72.5°	9.9
75°	9.6
77.5°	8.6
80°	7.6
82.5°	6.0
85°	3.6
87.5°	1.7
90°	0.0

(END OF REPORT)