

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: P220717

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 875.5 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

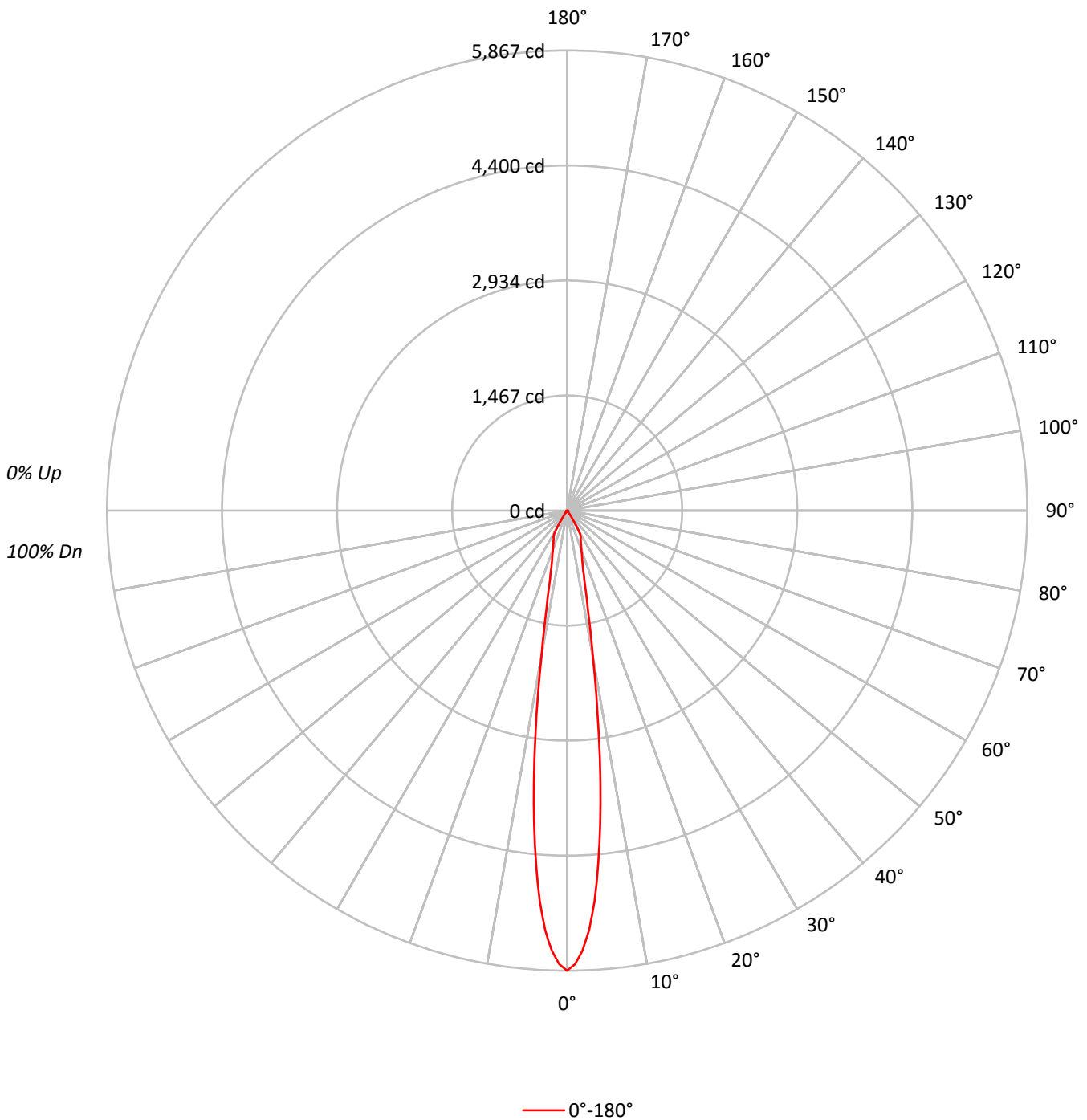
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

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

	0°
0°	723656
5°	562339
10°	238298
15°	101876
20°	69569
25°	55446
30°	41446
35°	5496
40°	2930
45°	2146
50°	2284
55°	2495
60°	2788
65°	3181
70°	3715
75°	4432
80°	5185
85°	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	39.1
10°-20°	245.6	28.1
20°-30°	189.5	21.6
30°-40°	52.5	6.0
40°-50°	10.2	1.2
50°-60°	10.4	1.2
60°-70°	10.8	1.2
70°-80°	9.7	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°	777.8	88.8
0°-40°	830.4	94.8
0°-60°	850.9	97.2
0°-90°	875.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5867	
5°	4542	343
15°	798	246
25°	407	190
35°	36	53
45°	12	10
55°	12	10
65°	11	11
75°	9	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5866.9
1°	5784.7
2°	5614.4
3°	5355.5
4°	4995.5
5°	4541.7
6°	4029.3
7°	3488.3
8°	2902.6
9°	2371.6
10°	1902.6
11°	1533.0
12°	1252.6
13°	1049.8
14°	906.2
15°	797.8
16°	717.3
17°	657.0
18°	609.6
19°	568.1
20°	530.0
22.5°	459.1
25°	407.4
26°	394.1
27°	382.8
28°	369.3
29°	339.8
30°	291.0
32.5°	139.9
35°	36.5
37.5°	23.5
40°	18.2
42.5°	13.6
45°	12.3
47.5°	11.9
50°	11.9
52.5°	11.6
55°	11.6
57.5°	11.6
60°	11.3
62.5°	11.3
65°	10.9
67.5°	10.6
70°	10.3
72.5°	9.9



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	9.3
77.5°	8.6
80°	7.3
82.5°	6.0
85°	3.6
87.5°	1.7
90°	0.0

(END OF REPORT)