

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: P220804

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-W-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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-W-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1589.9 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

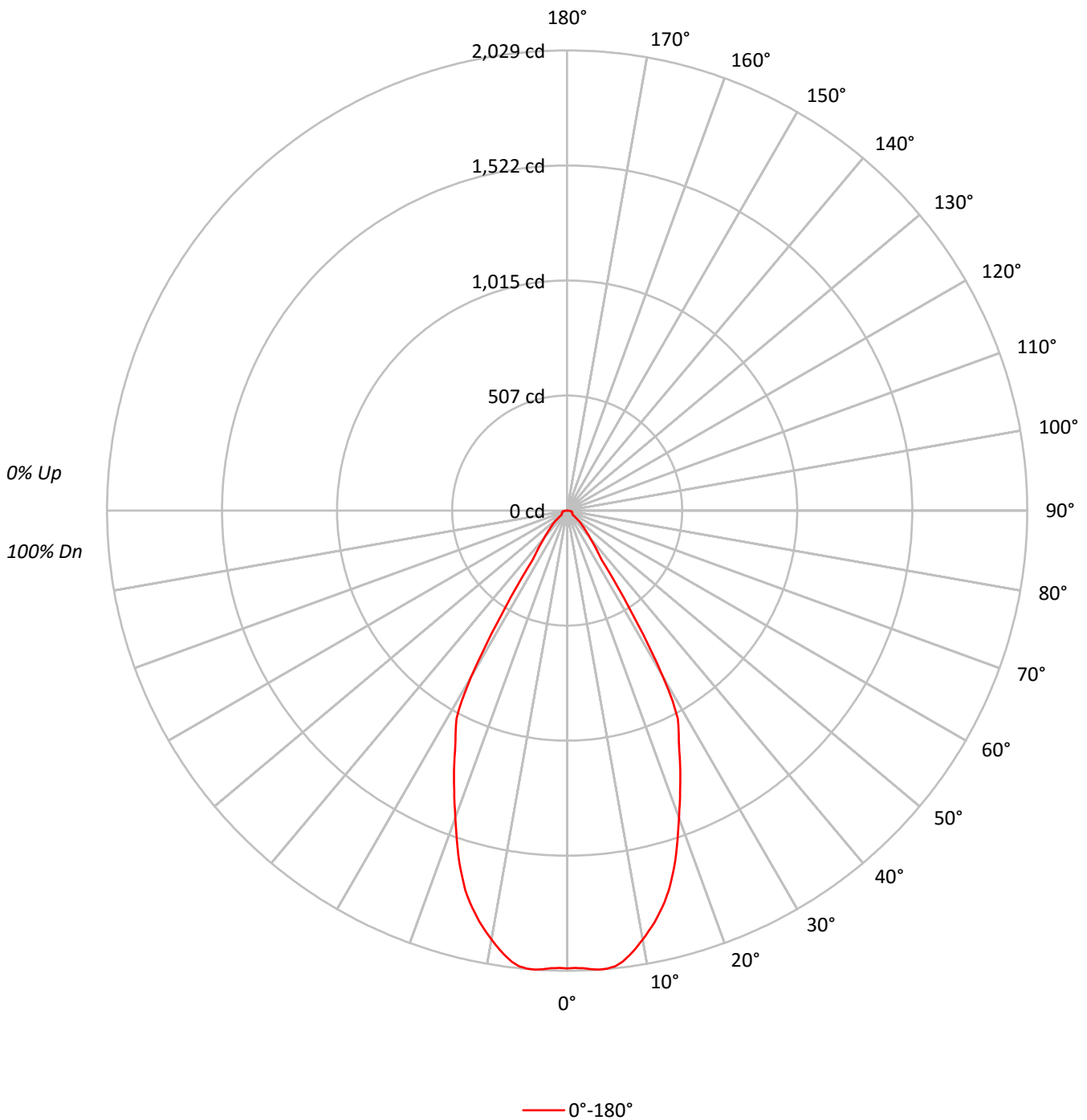
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

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

	0°
0°	249047
5°	251051
10°	240540
15°	221324
20°	189187
25°	159261
30°	120380
35°	39993
40°	25424
45°	17287
50°	10094
55°	6064
60°	6636
65°	7326
70°	8403
75°	10199
80°	12146
85°	12171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	12.0
10°-20°	478.0	30.1
20°-30°	535.4	33.7
30°-40°	223.9	14.1
40°-50°	77.8	4.9
50°-60°	28.2	1.8
60°-70°	24.9	1.6
70°-80°	22.1	1.4
80°-90°	9.3	0.6
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°	1203.6	75.7
0°-40°	1427.5	89.8
0°-60°	1533.5	96.5
0°-90°	1589.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2019	
5°	2028	190
15°	1733	478
25°	1170	535
35°	266	224
45°	99	78
55°	28	28
65°	25	25
75°	21	22
85°	9	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2019.1
1°	2017.2
2°	2019.1
3°	2025.2
4°	2028.8
5°	2027.6
6°	2020.3
7°	2004.4
8°	1979.3
9°	1951.1
10°	1920.5
11°	1888.1
12°	1855.0
13°	1817.7
14°	1777.9
15°	1733.2
16°	1680.0
17°	1624.3
18°	1564.3
19°	1501.9
20°	1441.3
21°	1385.0
22°	1330.5
23°	1276.7
24°	1224.0
25°	1170.2
26°	1123.1
27°	1081.4
28°	1038.6
29°	960.3
30°	845.2
32.5°	506.8
35°	265.6
37.5°	203.2
40°	157.9
42.5°	123.0
45°	99.1
47.5°	79.6
50°	52.6
52.5°	31.2
55°	28.2
57.5°	27.5
60°	26.9
62.5°	26.3
65°	25.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	23.9
70°	23.3
72.5°	22.6
75°	21.4
77.5°	19.6
80°	17.1
82.5°	13.5
85°	8.6
87.5°	3.7
90°	0.0

(END OF REPORT)