

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: P220856

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-M-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)  
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-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1514.6 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

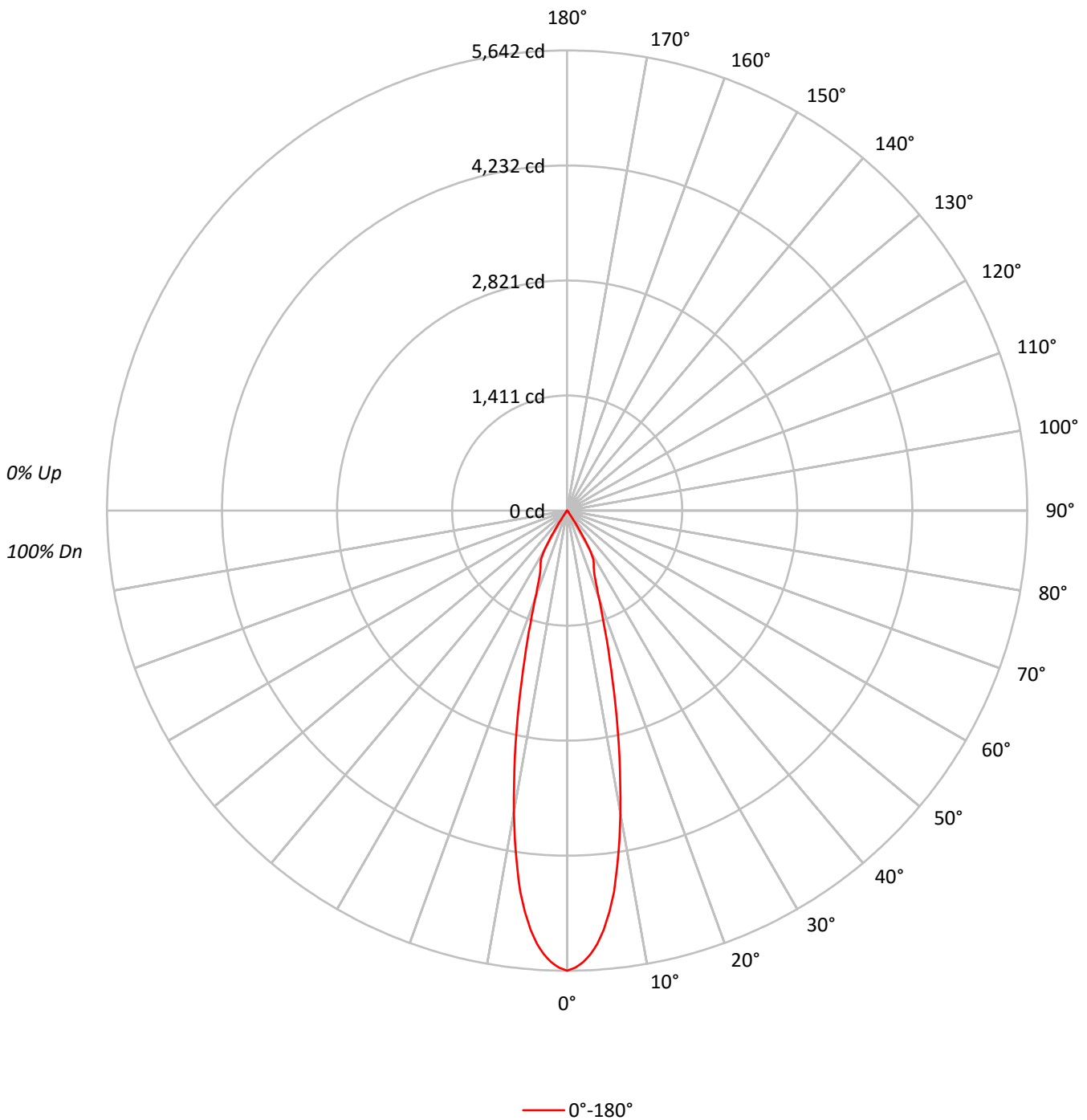
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	94	92	90	89
4	103	97	93	90	102	96	92	89	94	91	88	92	90	87	91	88	86	85
5	100	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	80	77	76
8	90	83	79	76	89	83	78	76	82	78	75	81	77	75	80	77	75	74
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	75	72	71
10	85	78	73	70	84	77	73	70	77	73	70	76	73	70	75	72	70	69

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

	0°
0°	695867
5°	638437
10°	471047
15°	274944
20°	149100
25°	105366
30°	76355
35°	9486
40°	3253
45°	1273
50°	825
55°	667
60°	444
65°	350
70°	216
75°	286
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.1	29.5
10°-20°	599.6	39.6
20°-30°	363.7	24.0
30°-40°	93.1	6.1
40°-50°	6.6	0.4
50°-60°	2.7	0.2
60°-70°	1.2	0.1
70°-80°	0.6	0.0
80°-90°	0.1	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°	1410.3	93.1
0°-40°	1503.4	99.3
0°-60°	1512.7	99.9
0°-90°	1514.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5642	
5°	5156	447
15°	2153	600
25°	774	364
35°	63	93
45°	7	7
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5641.6
1°	5605.5
2°	5541.2
3°	5449.4
4°	5324.0
5°	5156.3
6°	4947.0
7°	4711.3
8°	4410.2
9°	4088.9
10°	3760.9
11°	3415.7
12°	3076.6
13°	2752.3
14°	2440.7
15°	2153.1
16°	1896.0
17°	1664.1
18°	1457.2
19°	1282.8
20°	1135.9
21°	1020.2
22°	928.4
23°	860.5
24°	812.2
25°	774.2
26°	743.6
27°	717.3
28°	686.1
29°	629.2
30°	536.1
32.5°	255.2
35°	63.0
37.5°	34.3
40°	20.2
42.5°	9.2
45°	7.3
47.5°	6.1
50°	4.3
52.5°	3.7
55°	3.1
57.5°	2.4
60°	1.8
62.5°	1.8
65°	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)