

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: P221096

Luminaire Tested: **9004-W1-FL-LED3590-F-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-FL-LED3590-F-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

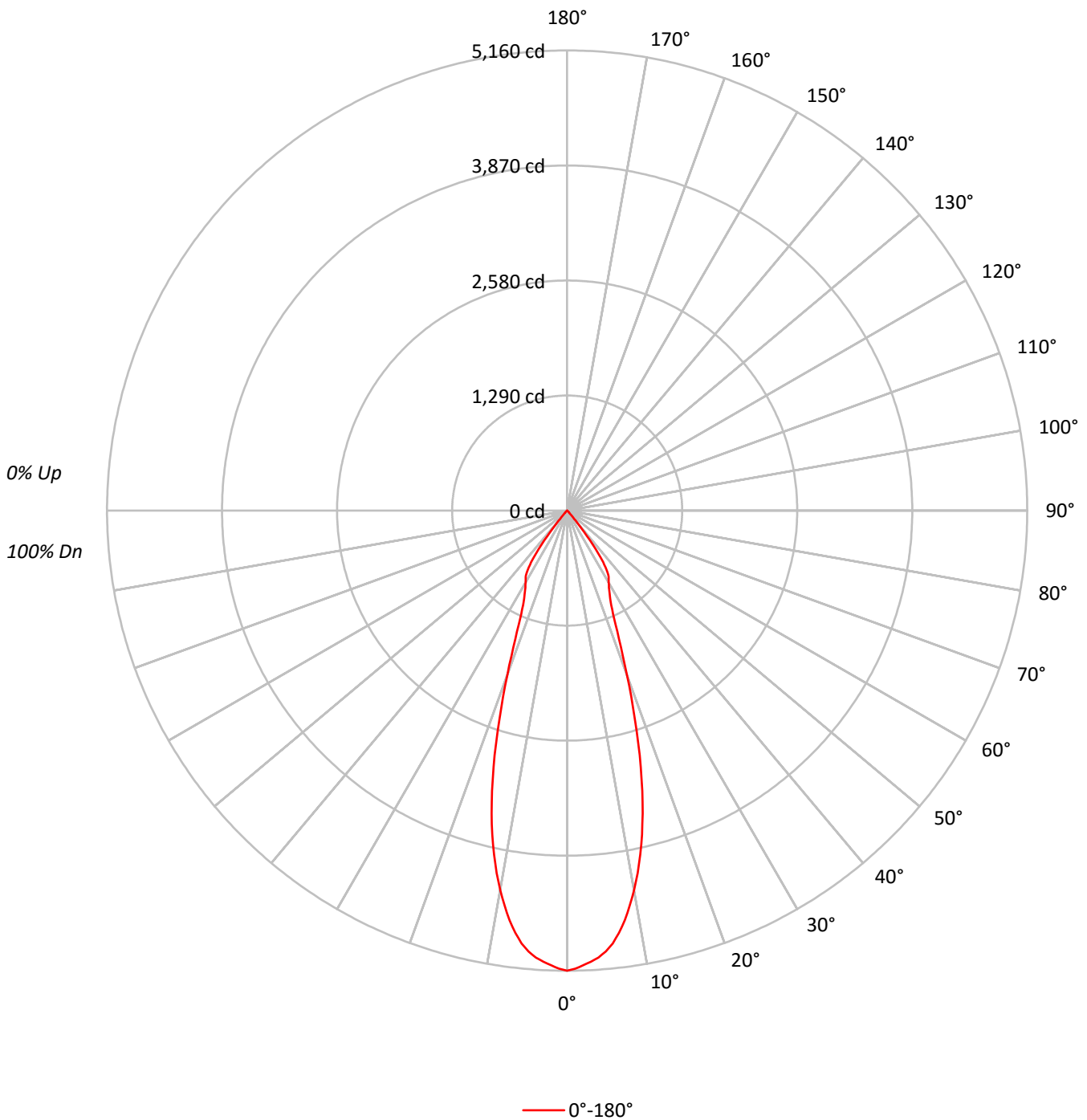
Lumens per Lamp: N/A  
Luminaire Lumens: 2320.5 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96		97	95	94		95	93	92	90
3	105	99	95	92	103	98	94	91	96	92	90		93	90	88		91	89	87	85
4	101	94	89	86	99	93	89	85	91	87	84		89	86	83		87	85	82	81
5	97	89	84	81	95	88	84	80	87	83	80		85	82	79		84	81	78	77
6	93	85	80	76	91	84	79	76	83	79	75		82	78	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72		78	74	71		77	74	71	70
8	86	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	65	81	74	69	65	73	68	65		72	68	65		71	67	65	64
10	79	71	66	63	78	70	66	62	70	65	62		69	65	62		68	65	62	61

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

	0°
0°	636414
5°	614614
10°	541136
15°	415666
20°	257089
25°	159301
30°	132742
35°	106262
40°	23170
45°	4937
50°	921
55°	516
60°	395
65°	233
70°	289
75°	381
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.3	19.5
10°-20°	872.9	37.6
20°-30°	573.3	24.7
30°-40°	386.6	16.7
40°-50°	30.5	1.3
50°-60°	2.1	0.1
60°-70°	1.1	0.0
70°-80°	0.7	0.0
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°	1899.5	81.9
0°-40°	2286.1	98.5
0°-60°	2318.7	99.9
0°-90°	2320.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5160	
5°	4964	453
15°	3255	873
25°	1170	573
35°	706	387
45°	28	31
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5159.6
1°	5136.9
2°	5103.8
3°	5067.4
4°	5024.6
5°	4963.9
6°	4880.7
7°	4772.4
8°	4639.0
9°	4484.6
10°	4320.5
11°	4140.3
12°	3943.8
13°	3729.6
14°	3501.7
15°	3255.1
16°	2995.7
17°	2727.3
18°	2458.9
19°	2206.7
20°	1958.6
21°	1743.6
22°	1550.4
23°	1390.3
24°	1266.6
25°	1170.5
26°	1100.9
27°	1047.6
28°	1002.3
29°	965.1
30°	932.0
32.5°	862.5
35°	705.7
37.5°	419.5
40°	143.9
42.5°	42.8
45°	28.3
47.5°	17.8
50°	4.8
52.5°	2.4
55°	2.4
57.5°	1.6
60°	1.6
62.5°	1.6
65°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)