

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: P221052

Luminaire Tested: **9004-W1-FL-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
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-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 955.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

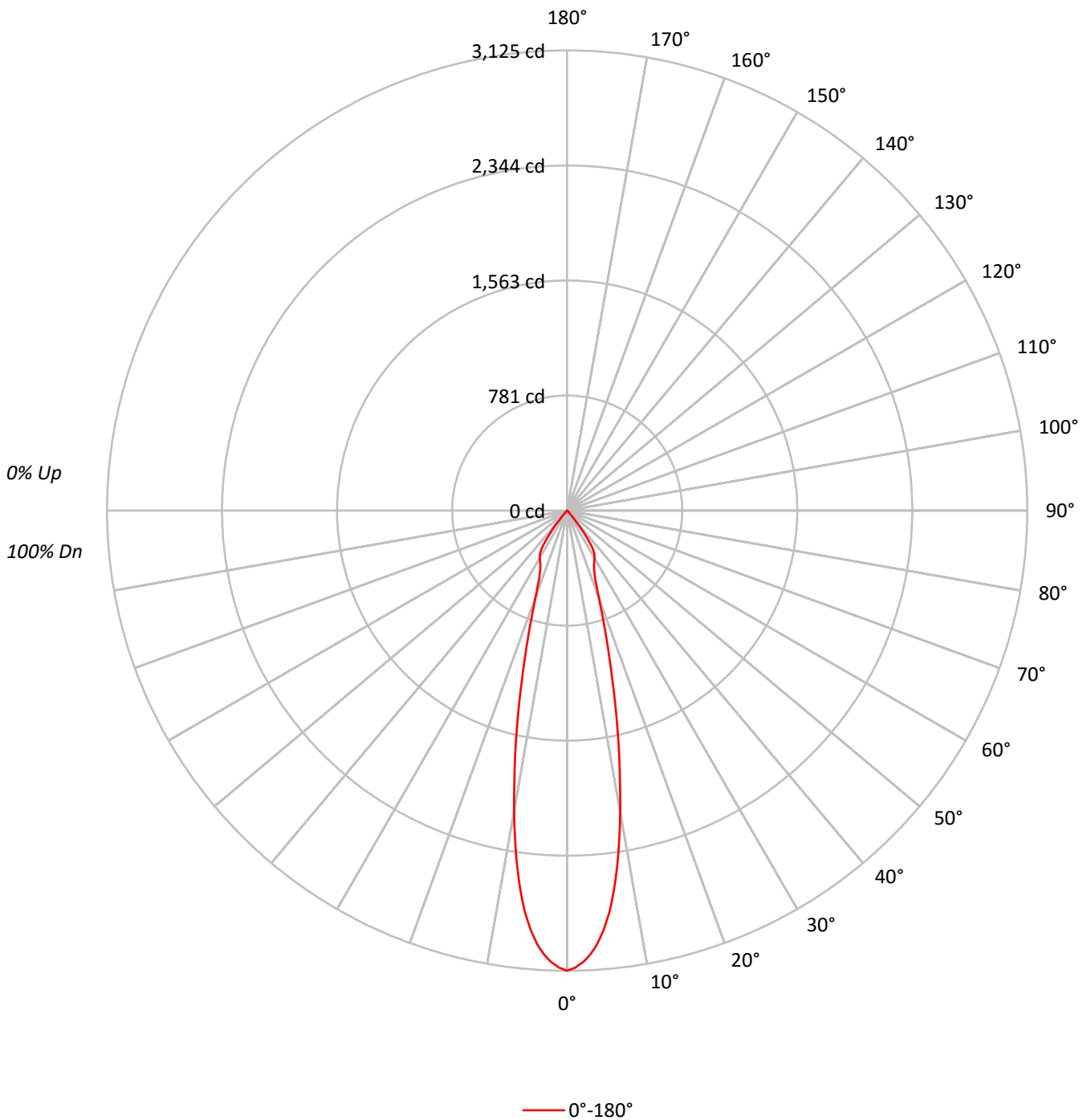
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	91	87	100	94	90	86	92	88	85		90	87	85		88	86	84	82
5	97	91	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	82	78	92	86	81	78	84	80	77		83	79	77		82	79	76	75
7	90	83	78	74	89	82	77	74	81	77	74		80	76	73		79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71		77	73	70		76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68		74	70	67		73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65		71	68	65		71	67	65	64

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

	0°
0°	385418
5°	353670
10°	259865
15°	151282
20°	82498
25°	58631
30°	52841
35°	41620
40°	9242
45°	2529
50°	844
55°	516
60°	345
65°	204
70°	108
75°	143
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.4	25.9
10°-20°	330.2	34.6
20°-30°	206.5	21.6
30°-40°	153.2	16.0
40°-50°	14.3	1.5
50°-60°	2.3	0.2
60°-70°	0.8	0.1
70°-80°	0.3	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°	784.2	82.1
0°-40°	937.4	98.2
0°-60°	953.9	99.9
0°-90°	955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3125	
5°	2856	247
15°	1185	330
25°	431	207
35°	276	153
45°	14	14
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3124.7
1°	3104.1
2°	3068.9
3°	3018.2
4°	2948.6
5°	2856.4
6°	2741.8
7°	2603.6
8°	2442.4
9°	2262.7
10°	2074.8
11°	1882.5
12°	1696.3
13°	1514.9
14°	1342.5
15°	1184.7
16°	1041.1
17°	915.7
18°	803.2
19°	707.9
20°	628.5
21°	565.7
22°	515.3
23°	478.1
24°	450.8
25°	430.8
26°	416.0
27°	403.1
28°	391.3
29°	381.2
30°	371.0
32.5°	343.0
35°	276.4
37.5°	167.3
40°	57.4
42.5°	19.9
45°	14.5
47.5°	10.5
50°	4.4
52.5°	3.4
55°	2.4
57.5°	1.7
60°	1.4
62.5°	1.0
65°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.7
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)