

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: P220781

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-F-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
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]-LED3590-F-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2181.6 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

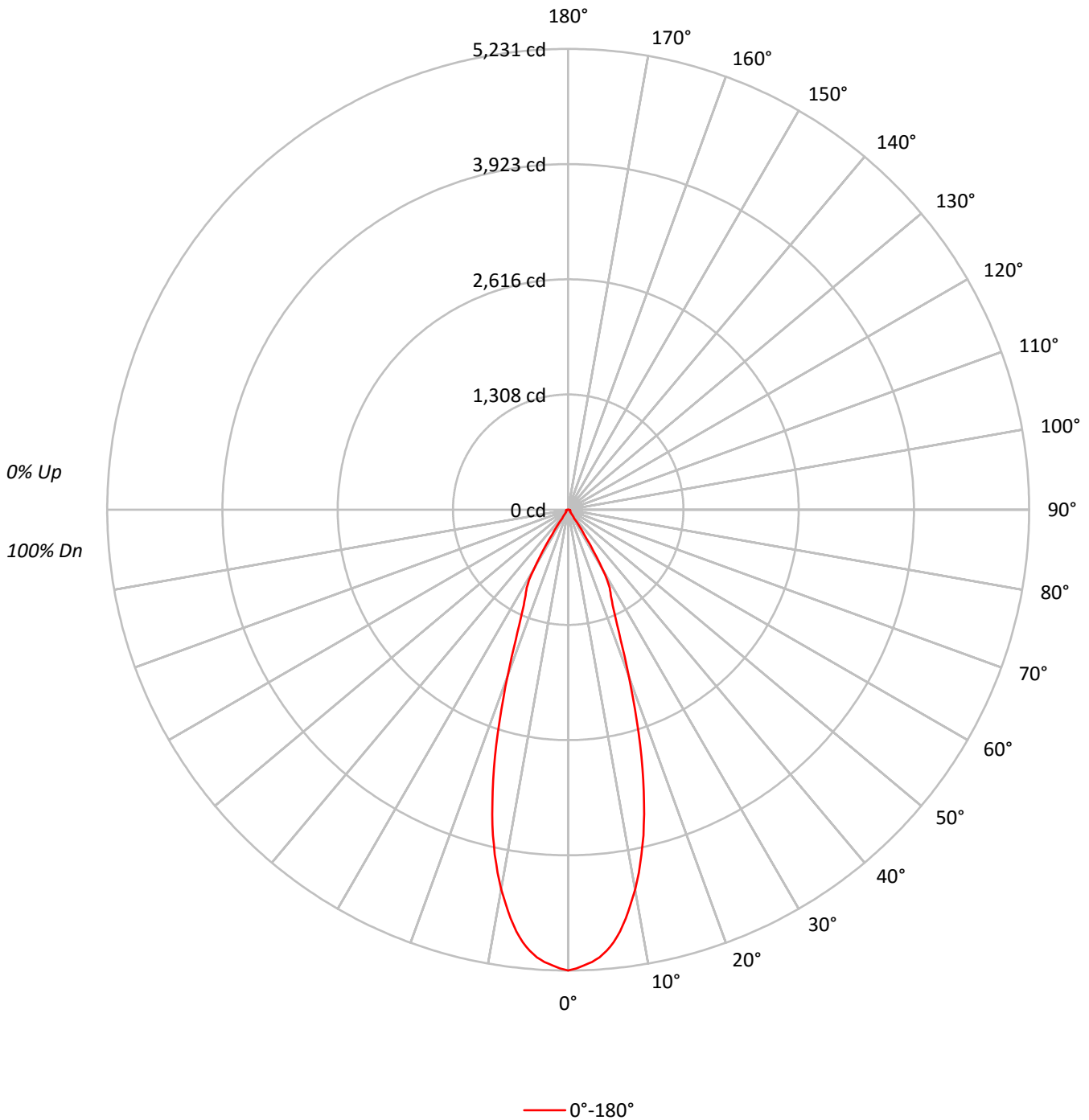
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

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

	0°
0°	645184
5°	622130
10°	547824
15°	422996
20°	264085
25°	162595
30°	111449
35°	17527
40°	7938
45°	5355
50°	5584
55°	6086
60°	6784
65°	7559
70°	8727
75°	10771
80°	12644
85°	12596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.7	21.0
10°-20°	889.5	40.8
20°-30°	576.0	26.4
30°-40°	148.2	6.8
40°-50°	25.3	1.2
50°-60°	25.6	1.2
60°-70°	25.7	1.2
70°-80°	23.0	1.1
80°-90°	9.7	0.4
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°	1924.2	88.2
0°-40°	2072.4	95.0
0°-60°	2123.2	97.3
0°-90°	2181.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5231	
5°	5025	459
15°	3312	889
25°	1195	576
35°	116	148
45°	31	25
55°	28	26
65°	26	26
75°	23	23
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5230.7
1°	5207.3
2°	5176.5
3°	5140.2
4°	5093.3
5°	5024.6
6°	4937.3
7°	4823.3
8°	4686.7
9°	4534.7
10°	4373.9
11°	4197.6
12°	4003.7
13°	3793.5
14°	3563.1
15°	3312.5
16°	3053.9
17°	2787.9
18°	2521.2
19°	2258.5
20°	2011.9
21°	1786.4
22°	1590.0
23°	1424.3
24°	1294.1
25°	1194.7
26°	1116.3
27°	1055.7
28°	1004.8
29°	915.8
30°	782.5
32.5°	391.2
35°	116.4
37.5°	74.4
40°	49.3
42.5°	31.5
45°	30.7
47.5°	29.9
50°	29.1
52.5°	29.1
55°	28.3
57.5°	28.3
60°	27.5
62.5°	26.7
65°	25.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	25.1
70°	24.2
72.5°	23.4
75°	22.6
77.5°	20.2
80°	17.8
82.5°	13.7
85°	8.9
87.5°	4.0
90°	0.0

(END OF REPORT)