

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: P220737

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 894.7 lumens
Efficiency: N/A
Efficacy: 91.3 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

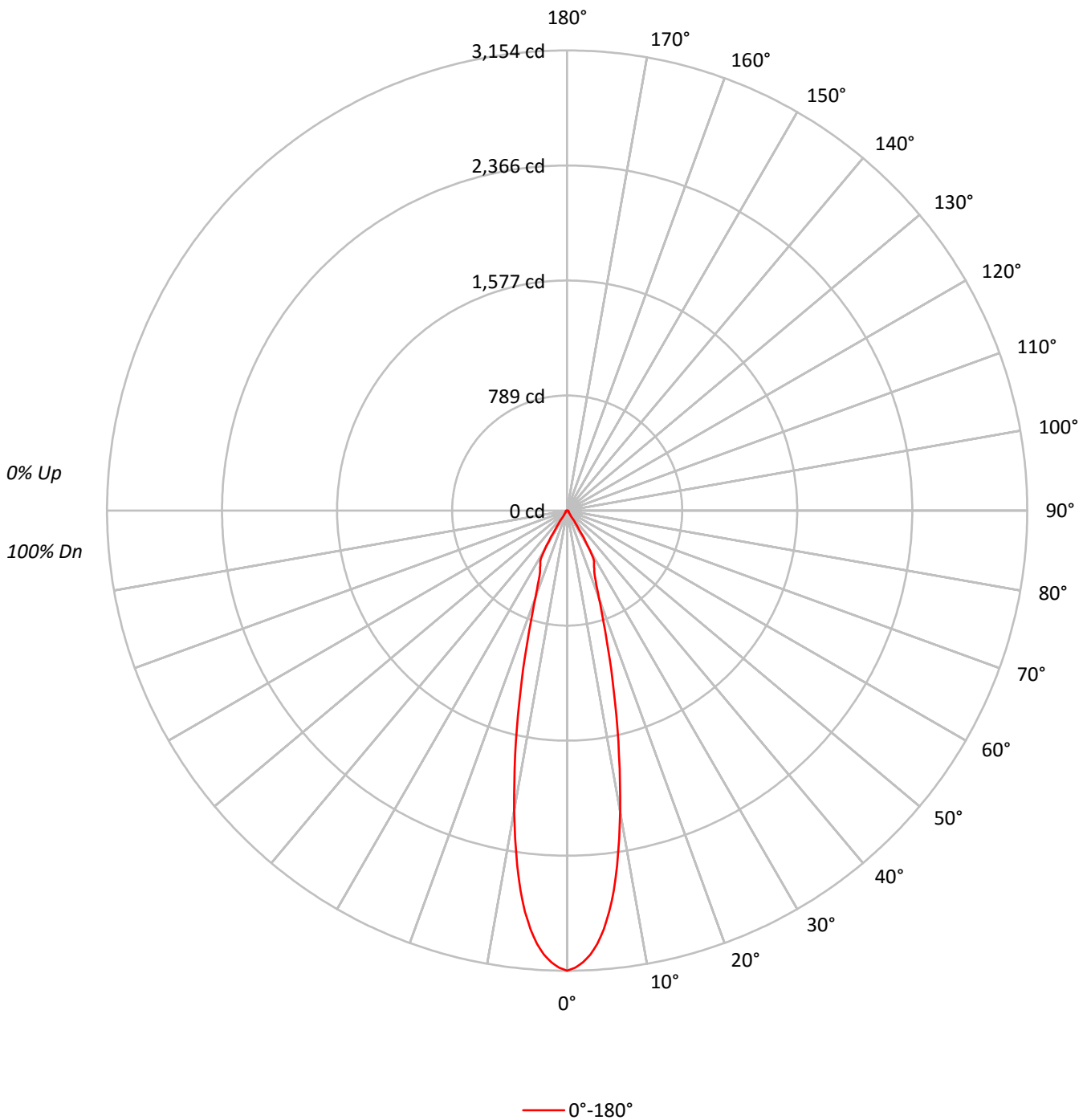
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90
3	105	100	95	92	103	98	94	91	96	93	90	93	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	388995
5°	356716
10°	261769
15°	153313
20°	83653
25°	59597
30°	44081
35°	6354
40°	3478
45°	2477
50°	2533
55°	2624
60°	2911
65°	3269
70°	3787
75°	4670
80°	5540
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	27.9
10°-20°	333.9	37.3
20°-30°	206.1	23.0
30°-40°	57.4	6.4
40°-50°	11.6	1.3
50°-60°	11.1	1.2
60°-70°	11.1	1.2
70°-80°	10.0	1.1
80°-90°	4.2	0.5
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°	789.3	88.2
0°-40°	846.7	94.6
0°-60°	869.4	97.2
0°-90°	894.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3154	
5°	2881	249
15°	1201	334
25°	438	206
35°	42	57
45°	14	12
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3153.7
1°	3134.1
2°	3098.0
3°	3046.6
4°	2976.0
5°	2881.0
6°	2763.4
7°	2623.6
8°	2456.6
9°	2277.2
10°	2090.0
11°	1899.4
12°	1711.2
13°	1527.7
14°	1357.4
15°	1200.6
16°	1056.3
17°	926.9
18°	813.4
19°	716.4
20°	637.3
21°	572.1
22°	523.1
23°	485.9
24°	458.2
25°	437.9
26°	421.4
27°	406.8
28°	393.0
29°	361.9
30°	309.5
32.5°	150.0
35°	42.2
37.5°	29.1
40°	21.6
42.5°	15.2
45°	14.2
47.5°	13.5
50°	13.2
52.5°	12.5
55°	12.2
57.5°	12.2
60°	11.8
62.5°	11.8
65°	11.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.8
70°	10.5
72.5°	10.1
75°	9.8
77.5°	8.8
80°	7.8
82.5°	6.1
85°	3.7
87.5°	1.7
90°	0.0

(END OF REPORT)