

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: P220746

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220746
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-L2-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: 1652.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

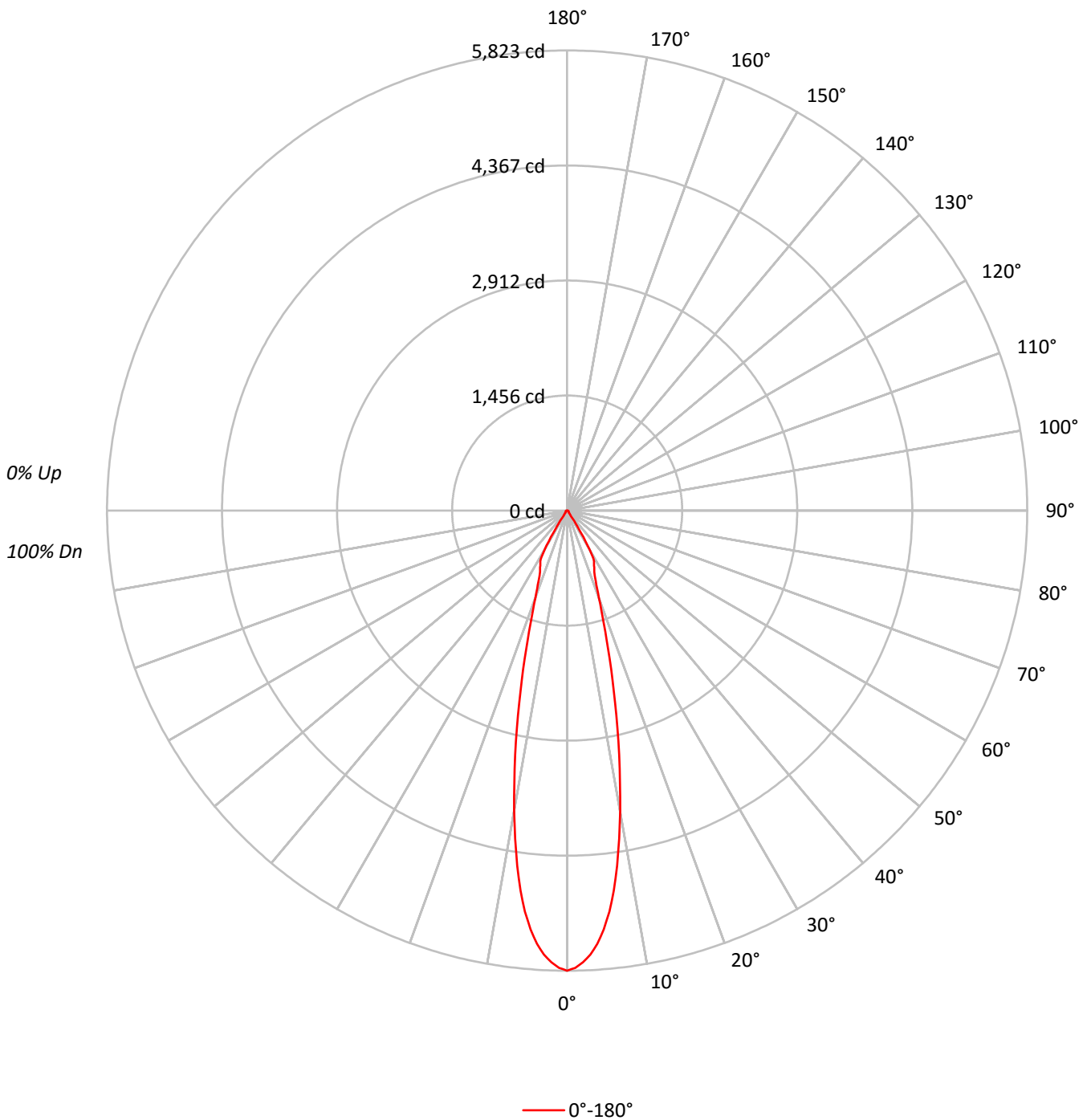
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	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°	718254
5°	658656
10°	483334
15°	283078
20°	154456
25°	110048
30°	81397
35°	11745
40°	6425
45°	4570
50°	4663
55°	4839
60°	5378
65°	6012
70°	6960
75°	8626
80°	10229
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	27.9
10°-20°	616.4	37.3
20°-30°	380.5	23.0
30°-40°	106.1	6.4
40°-50°	21.4	1.3
50°-60°	20.4	1.2
60°-70°	20.6	1.2
70°-80°	18.5	1.1
80°-90°	7.7	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°	1457.4	88.2
0°-40°	1563.4	94.6
0°-60°	1605.3	97.2
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5823	
5°	5320	460
15°	2217	616
25°	809	381
35°	78	106
45°	26	21
55°	22	20
65°	21	21
75°	18	18
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5823.1
1°	5786.9
2°	5720.1
3°	5625.3
4°	5494.9
5°	5319.6
6°	5102.5
7°	4844.2
8°	4535.9
9°	4204.6
10°	3859.0
11°	3507.1
12°	3159.6
13°	2820.8
14°	2506.3
15°	2216.8
16°	1950.4
17°	1711.4
18°	1501.8
19°	1322.7
20°	1176.7
21°	1056.3
22°	965.8
23°	897.2
24°	846.0
25°	808.6
26°	778.0
27°	751.2
28°	725.6
29°	668.2
30°	571.5
32.5°	277.0
35°	78.0
37.5°	53.7
40°	39.9
42.5°	28.1
45°	26.2
47.5°	25.0
50°	24.3
52.5°	23.1
55°	22.5
57.5°	22.5
60°	21.8
62.5°	21.8
65°	20.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	20.0
70°	19.3
72.5°	18.7
75°	18.1
77.5°	16.2
80°	14.4
82.5°	11.2
85°	6.9
87.5°	3.1
90°	0.0

(END OF REPORT)