

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: P221008

Luminaire Tested: **9004-W1-FL-LED3590-W-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
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-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1740.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

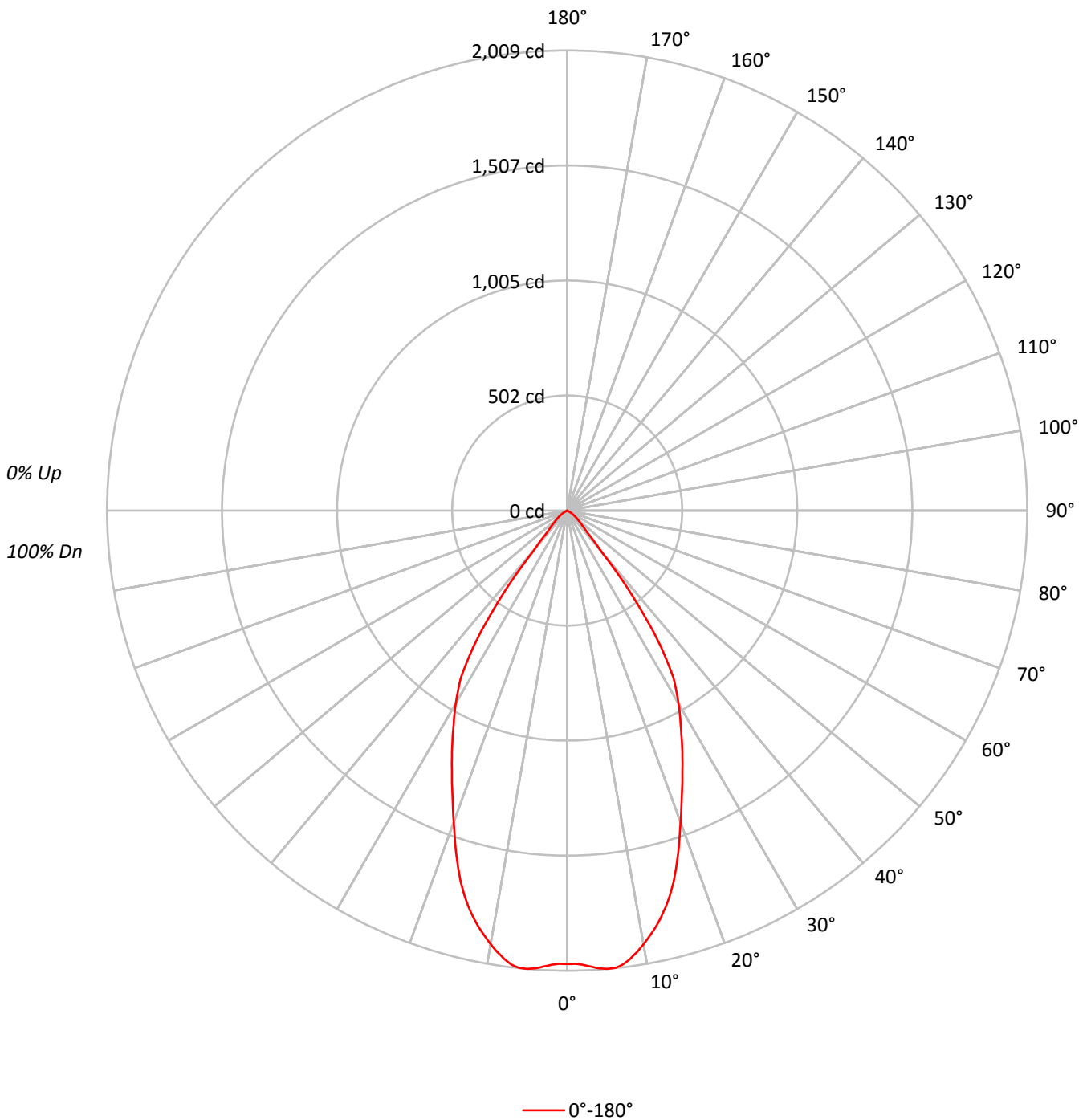
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	52	61	56	52	60	55	52	59	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244187
5°	248748
10°	240840
15°	221809
20°	190080
25°	162105
30°	138624
35°	103627
40°	36776
45°	17199
50°	11379
55°	7656
60°	3848
65°	905
70°	685
75°	572
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	10.9
10°-20°	479.4	27.5
20°-30°	547.3	31.4
30°-40°	401.8	23.1
40°-50°	85.3	4.9
50°-60°	32.3	1.9
60°-70°	4.6	0.3
70°-80°	1.2	0.1
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°	1215.8	69.8
0°-40°	1617.5	92.9
0°-60°	1735.1	99.7
0°-90°	1740.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1980	
5°	2009	189
15°	1737	479
25°	1191	547
35°	688	402
45°	99	85
55°	36	32
65°	3	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1979.7
1°	1979.1
2°	1984.1
3°	1994.1
4°	2003.4
5°	2009.0
6°	2007.8
7°	1997.2
8°	1976.6
9°	1951.0
10°	1922.9
11°	1891.1
12°	1858.7
13°	1821.9
14°	1781.9
15°	1737.0
16°	1685.8
17°	1629.1
18°	1570.4
19°	1508.7
20°	1448.1
21°	1392.0
22°	1337.7
23°	1286.5
24°	1237.9
25°	1191.1
26°	1145.5
27°	1099.4
28°	1055.1
29°	1013.9
30°	973.3
32.5°	864.1
35°	688.2
37.5°	464.8
40°	228.4
42.5°	128.5
45°	98.6
47.5°	77.4
50°	59.3
52.5°	46.8
55°	35.6
57.5°	25.6
60°	15.6
62.5°	4.4
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.5
70°	1.9
72.5°	1.9
75°	1.2
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)