

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: P220778

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220778
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]-LED4097-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1651.8 lumens
Efficiency: N/A
Efficacy: 82.2 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

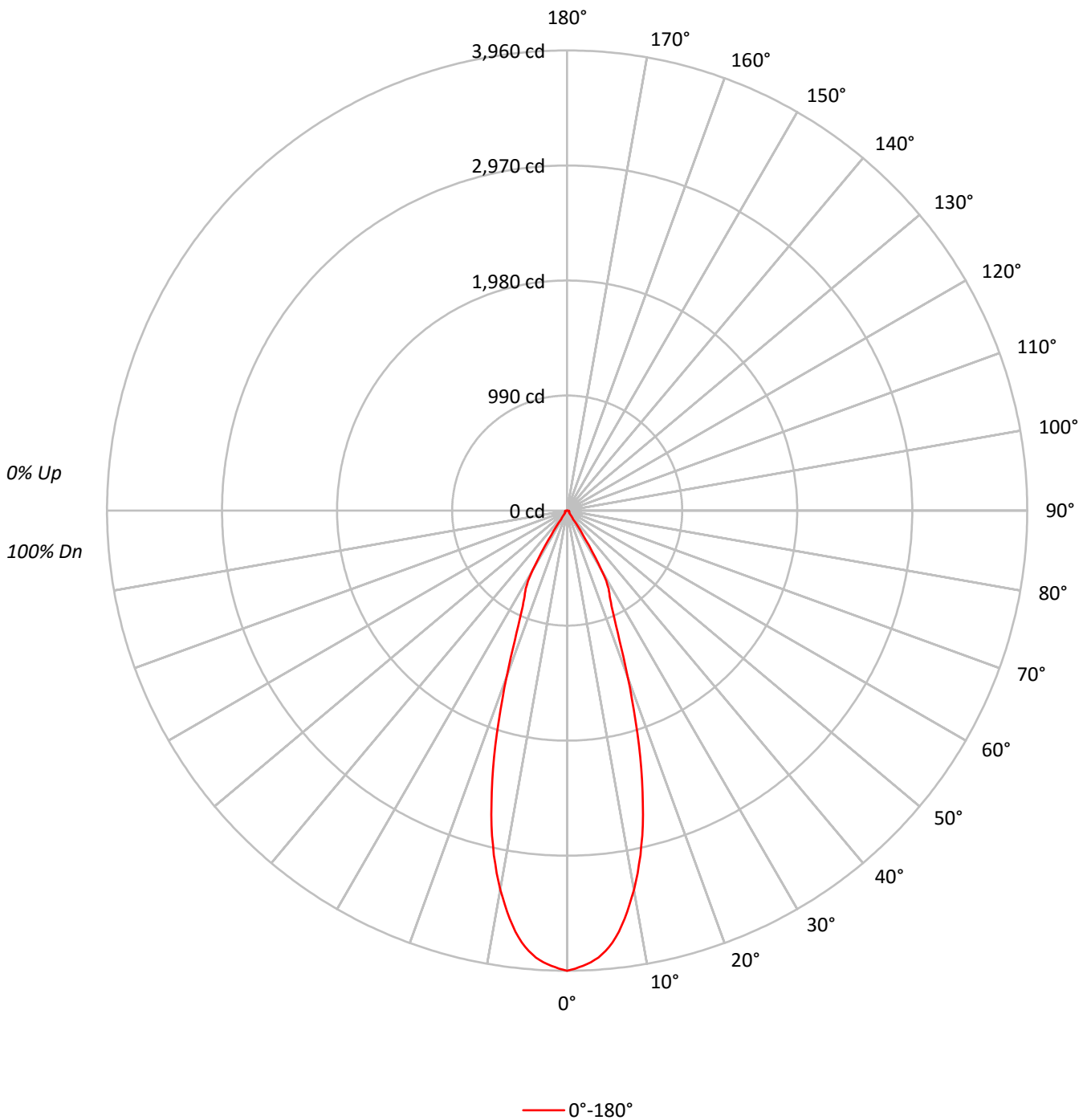
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	488498
5°	471036
10°	414773
15°	320276
20°	199951
25°	123113
30°	84374
35°	13266
40°	6006
45°	4064
50°	4222
55°	4602
60°	5131
65°	5720
70°	6636
75°	8149
80°	9589
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	21.0
10°-20°	673.5	40.8
20°-30°	436.1	26.4
30°-40°	112.2	6.8
40°-50°	19.1	1.2
50°-60°	19.3	1.2
60°-70°	19.4	1.2
70°-80°	17.5	1.1
80°-90°	7.3	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°	1456.9	88.2
0°-40°	1569.1	95.0
0°-60°	1607.6	97.3
0°-90°	1651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3960	
5°	3804	347
15°	2508	673
25°	905	436
35°	88	112
45°	23	19
55°	21	19
65°	20	19
75°	17	17
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3960.4
1°	3942.6
2°	3919.4
3°	3891.8
4°	3856.3
5°	3804.3
6°	3738.2
7°	3651.9
8°	3548.5
9°	3433.4
10°	3311.6
11°	3178.2
12°	3031.3
13°	2872.2
14°	2697.8
15°	2508.1
16°	2312.2
17°	2110.9
18°	1908.9
19°	1710.0
20°	1523.3
21°	1352.6
22°	1203.8
23°	1078.4
24°	979.8
25°	904.6
26°	845.2
27°	799.3
28°	760.7
29°	693.4
30°	592.4
32.5°	296.2
35°	88.1
37.5°	56.3
40°	37.3
42.5°	23.9
45°	23.3
47.5°	22.6
50°	22.0
52.5°	22.0
55°	21.4
57.5°	21.4
60°	20.8
62.5°	20.2
65°	19.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.0
70°	18.4
72.5°	17.7
75°	17.1
77.5°	15.3
80°	13.5
82.5°	10.4
85°	6.7
87.5°	3.1
90°	0.0

(END OF REPORT)