

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: P220752

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220752
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]-LED4097-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.5 lumens
Efficiency: N/A
Efficacy: 80.6 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

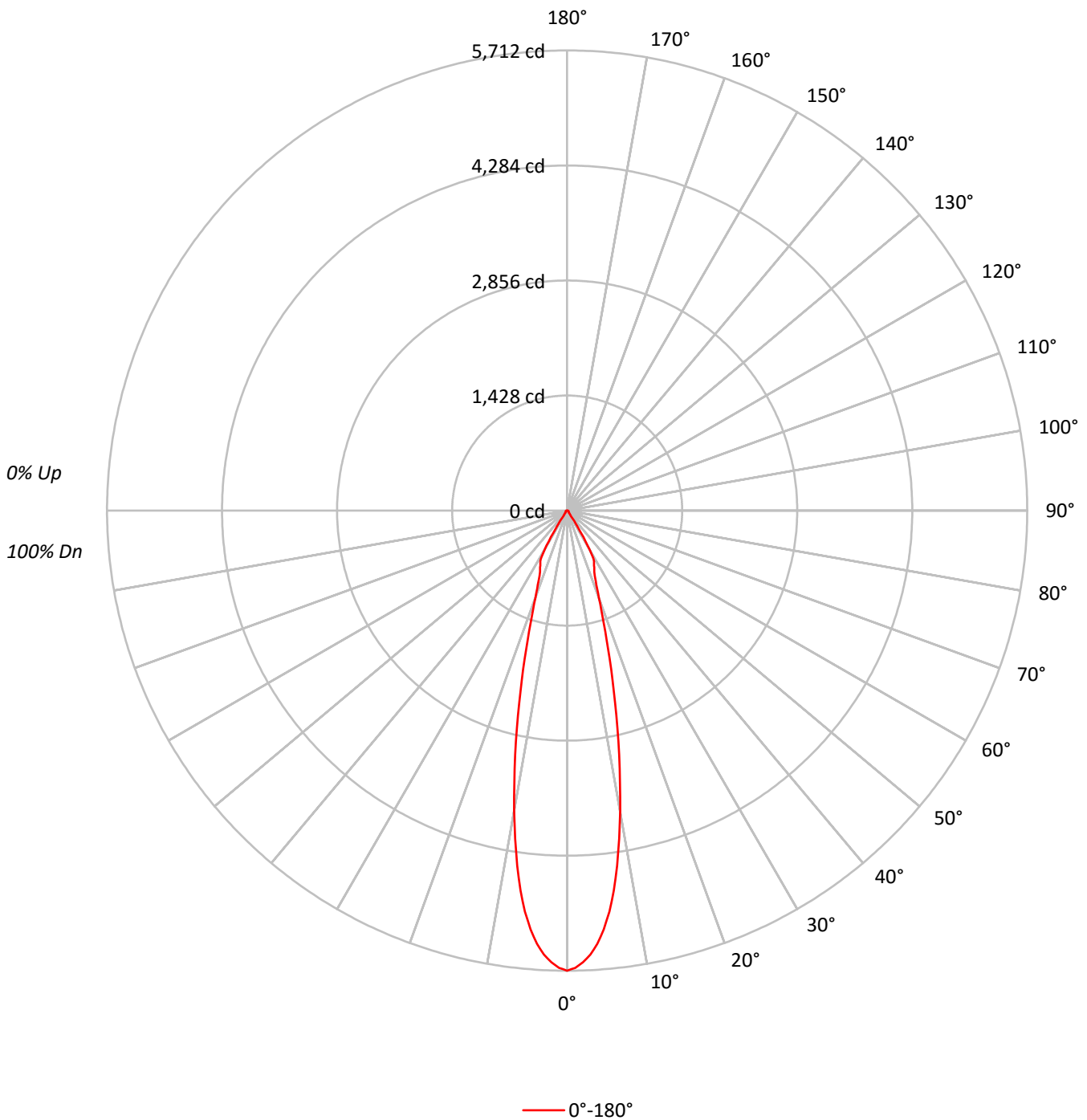
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	704550
5°	646088
10°	474103
15°	277677
20°	151515
25°	107952
30°	79845
35°	11519
40°	6312
45°	4483
50°	4586
55°	4731
60°	5279
65°	5896
70°	6852
75°	8435
80°	10016
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	27.9
10°-20°	604.7	37.3
20°-30°	373.3	23.0
30°-40°	104.0	6.4
40°-50°	21.0	1.3
50°-60°	20.0	1.2
60°-70°	20.2	1.2
70°-80°	18.1	1.1
80°-90°	7.6	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°	1429.6	88.2
0°-40°	1533.6	94.6
0°-60°	1574.6	97.2
0°-90°	1620.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5712	
5°	5218	452
15°	2174	605
25°	793	373
35°	76	104
45°	26	21
55°	22	20
65°	20	20
75°	18	18
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5712.0
1°	5676.5
2°	5611.0
3°	5518.0
4°	5390.1
5°	5218.1
6°	5005.1
7°	4751.7
8°	4449.4
9°	4124.4
10°	3785.3
11°	3440.2
12°	3099.3
13°	2766.9
14°	2458.5
15°	2174.5
16°	1913.2
17°	1678.8
18°	1473.1
19°	1297.5
20°	1154.3
21°	1036.1
22°	947.4
23°	880.1
24°	829.9
25°	793.2
26°	763.2
27°	736.9
28°	711.8
29°	655.5
30°	560.6
32.5°	271.7
35°	76.5
37.5°	52.6
40°	39.2
42.5°	27.5
45°	25.7
47.5°	24.5
50°	23.9
52.5°	22.6
55°	22.0
57.5°	22.0
60°	21.4
62.5°	21.4
65°	20.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.6
70°	19.0
72.5°	18.4
75°	17.7
77.5°	15.9
80°	14.1
82.5°	11.0
85°	6.7
87.5°	3.1
90°	0.0

(END OF REPORT)