

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: P221067

Luminaire Tested: **9004-W1-FL-LED4097-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED4097-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1729.7 lumens
Efficiency: N/A
Efficacy: 86.1 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

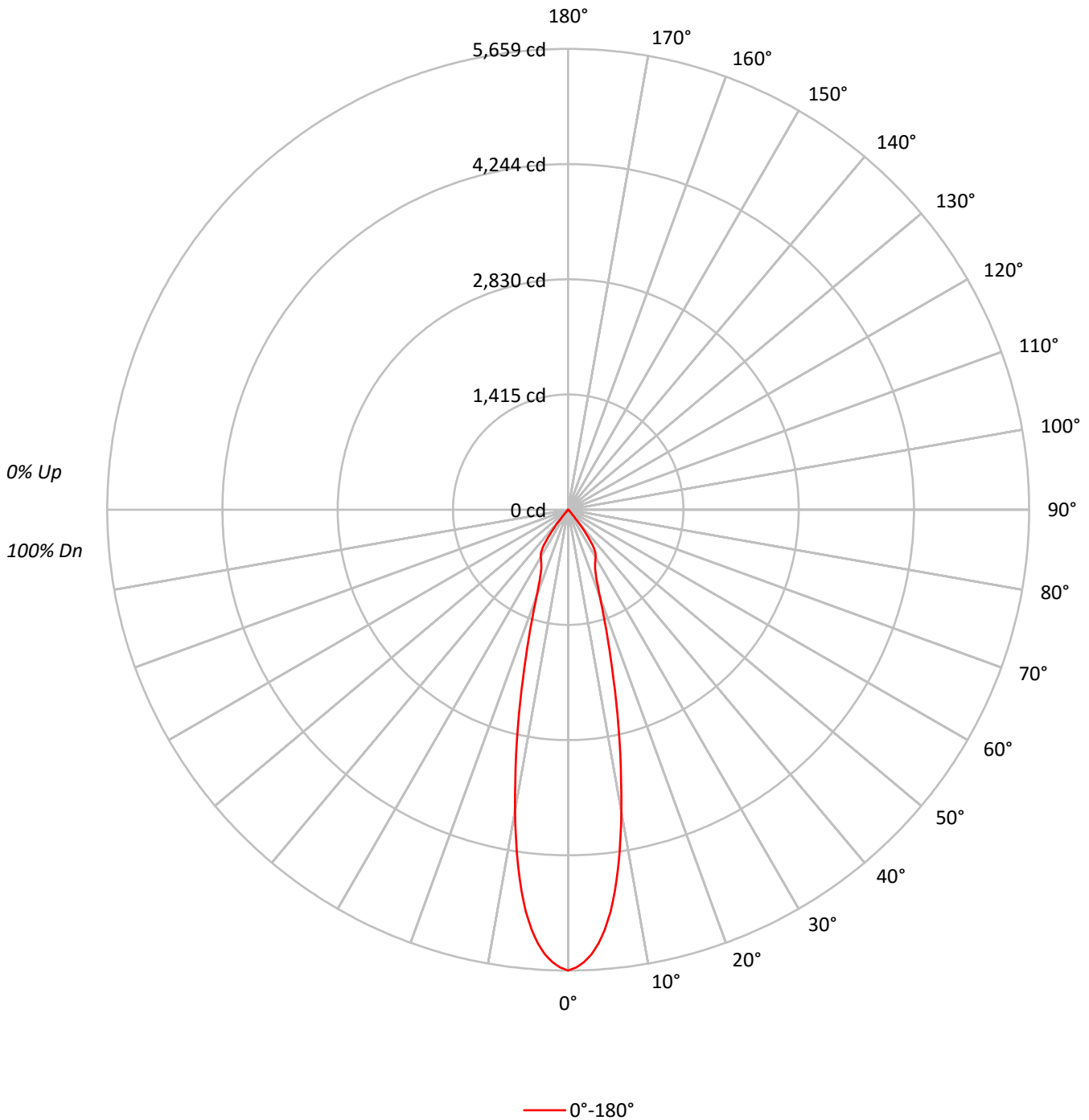
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	101	95	91	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	86	82	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	698062
5°	640554
10°	470659
15°	273999
20°	149428
25°	106196
30°	95711
35°	75379
40°	16746
45°	4588
50°	1535
55°	925
60°	592
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	25.9
10°-20°	598.1	34.6
20°-30°	374.0	21.6
30°-40°	277.4	16.0
40°-50°	25.8	1.5
50°-60°	4.1	0.2
60°-70°	1.4	0.1
70°-80°	0.6	0.0
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°	1420.3	82.1
0°-40°	1697.7	98.2
0°-60°	1727.7	99.9
0°-90°	1729.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5659	
5°	5173	448
15°	2146	598
25°	780	374
35°	501	277
45°	26	26
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5659.4
1°	5622.0
2°	5558.4
3°	5466.6
4°	5340.5
5°	5173.4
6°	4965.9
7°	4715.6
8°	4423.7
9°	4098.1
10°	3757.8
11°	3409.6
12°	3072.3
13°	2743.7
14°	2431.6
15°	2145.7
16°	1885.6
17°	1658.6
18°	1454.8
19°	1282.2
20°	1138.4
21°	1024.5
22°	933.3
23°	866.0
24°	816.4
25°	780.3
26°	753.4
27°	730.1
28°	708.7
29°	690.4
30°	672.0
32.5°	621.2
35°	500.6
37.5°	303.0
40°	104.0
42.5°	36.1
45°	26.3
47.5°	19.0
50°	8.0
52.5°	6.1
55°	4.3
57.5°	3.1
60°	2.4
62.5°	1.8
65°	1.2



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)