

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: P220821

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

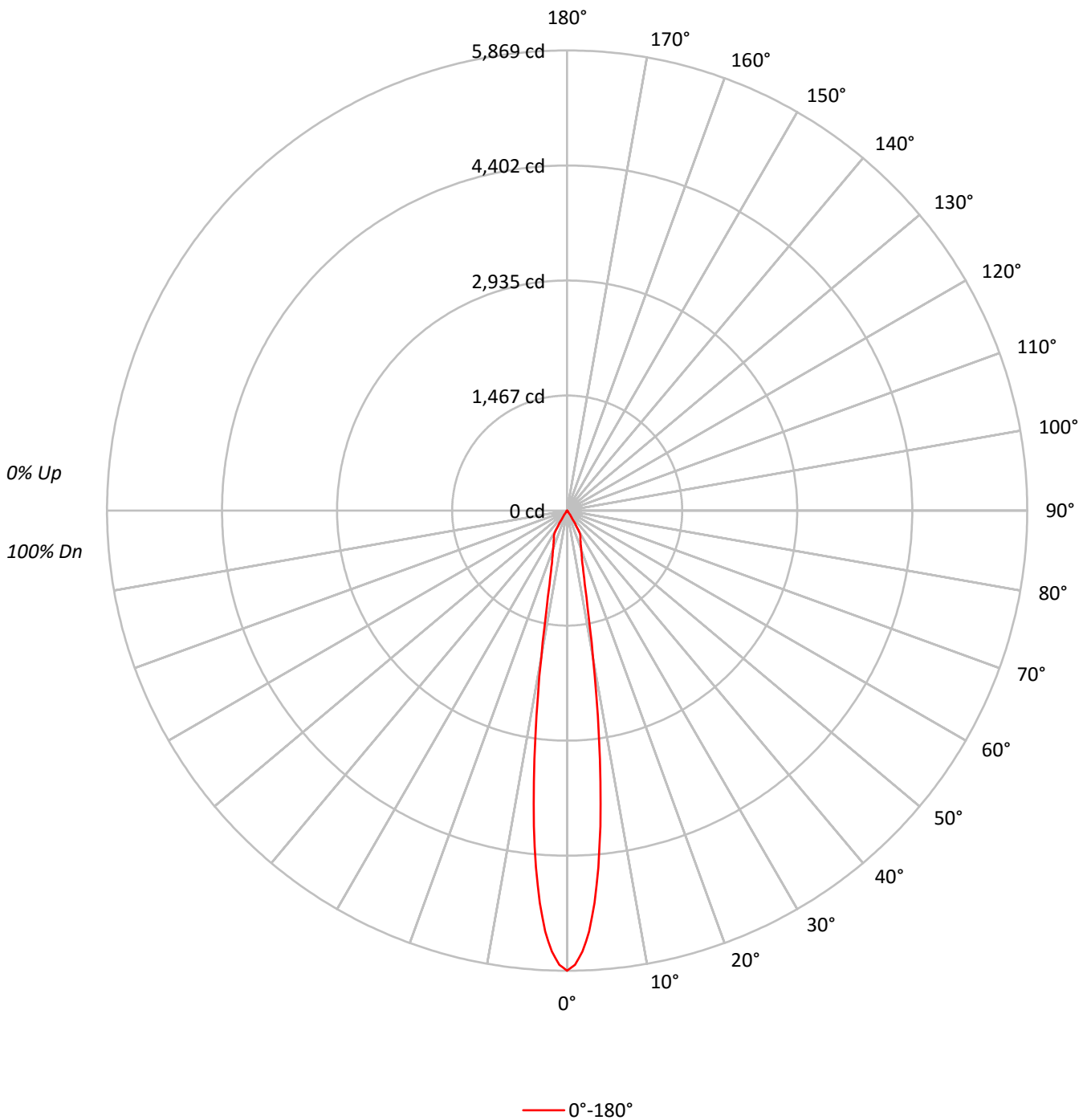
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	95	91	88	100	95	91	88	93	90	87	91	89	86	90	88	86	85
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	87	84	82	86	83	81	86	83	81	80
8	93	86	82	80	92	86	82	79	85	82	79	84	81	79	83	81	78	78
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	78	76	75
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	79	77	74	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	723866
5°	565546
10°	238210
15°	100944
20°	68348
25°	54275
30°	40179
35°	3644
40°	1336
45°	401
50°	326
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	41.8
10°-20°	242.9	29.5
20°-30°	185.5	22.5
30°-40°	45.5	5.5
40°-50°	2.4	0.3
50°-60°	1.4	0.2
60°-70°	0.7	0.1
70°-80°	0.3	0.0
80°-90°	0.1	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°	772.3	93.9
0°-40°	817.8	99.4
0°-60°	821.6	99.9
0°-90°	822.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5869	
5°	4568	344
15°	790	243
25°	399	186
35°	24	45
45°	2	2
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5868.6
1°	5793.3
2°	5627.6
3°	5373.4
4°	5017.4
5°	4567.6
6°	4050.5
7°	3482.4
8°	2910.3
9°	2386.5
10°	1901.9
11°	1518.1
12°	1237.0
13°	1038.1
14°	896.6
15°	790.5
16°	709.0
17°	649.7
18°	602.6
19°	558.5
20°	520.7
22.5°	449.1
25°	398.8
26°	385.2
27°	373.9
28°	362.6
29°	332.8
30°	282.1
32.5°	127.0
35°	24.2
37.5°	13.3
40°	8.3
42.5°	3.6
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.7
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7
67.5°	0.3
70°	0.3
72.5°	0.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)