

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: P220816

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220816
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]-LED4080-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1037.5 lumens
Efficiency: N/A
Efficacy: 105.9 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

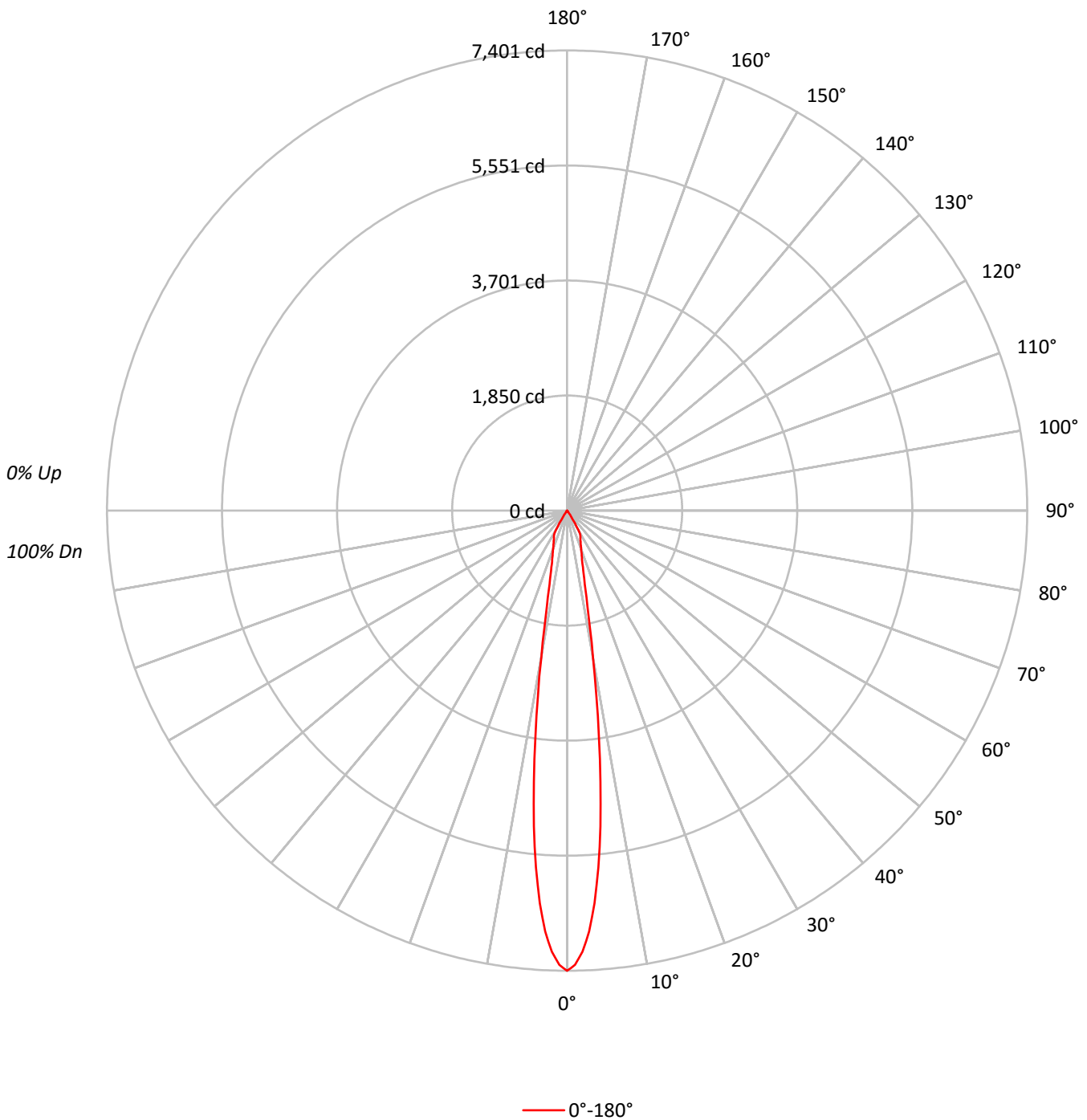
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	912930
5°	713259
10°	300433
15°	127314
20°	86200
25°	68443
30°	50676
35°	4593
40°	1691
45°	506
50°	403
55°	452
60°	321
65°	233
70°	144
75°	191
80°	284
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.6	41.8
10°-20°	306.4	29.5
20°-30°	233.9	22.5
30°-40°	57.4	5.5
40°-50°	3.1	0.3
50°-60°	1.7	0.2
60°-70°	0.8	0.1
70°-80°	0.4	0.0
80°-90°	0.2	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°	974.0	93.9
0°-40°	1031.3	99.4
0°-60°	1036.1	99.9
0°-90°	1037.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7401	
5°	5761	434
15°	997	306
25°	503	234
35°	30	57
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7401.4
1°	7306.5
2°	7097.5
3°	6776.8
4°	6327.9
5°	5760.6
6°	5108.4
7°	4391.9
8°	3670.4
9°	3009.9
10°	2398.7
11°	1914.6
12°	1560.1
13°	1309.3
14°	1130.8
15°	997.0
16°	894.2
17°	819.4
18°	760.0
19°	704.4
20°	656.7
22.5°	566.4
25°	502.9
26°	485.8
27°	471.5
28°	457.3
29°	419.7
30°	355.8
32.5°	160.1
35°	30.5
37.5°	16.7
40°	10.5
42.5°	4.6
45°	2.9
47.5°	2.5
50°	2.1
52.5°	2.1
55°	2.1
57.5°	1.7
60°	1.3
62.5°	1.3
65°	0.8
67.5°	0.4
70°	0.4
72.5°	0.4



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)