

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: P220738

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220738
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]-LED4080-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1106.9 lumens
Efficiency: N/A
Efficacy: 112.9 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

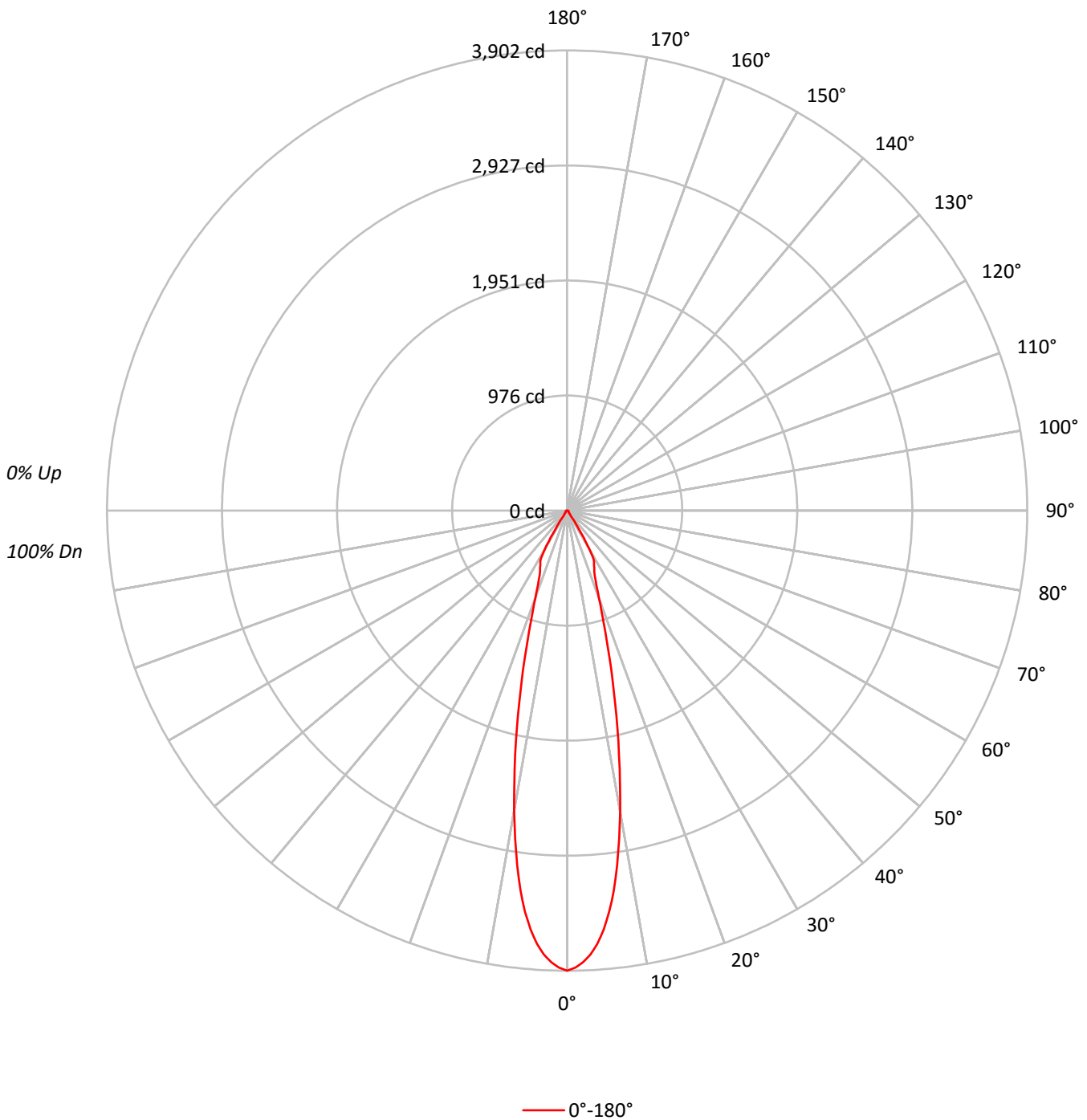
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	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°	481245
5°	441308
10°	323842
15°	189668
20°	103487
25°	73737
30°	54535
35°	7875
40°	4315
45°	3070
50°	3128
55°	3226
60°	3602
65°	4028
70°	4688
75°	5767
80°	6819
85°	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	27.9
10°-20°	413.0	37.3
20°-30°	255.0	23.0
30°-40°	71.1	6.4
40°-50°	14.4	1.3
50°-60°	13.7	1.2
60°-70°	13.8	1.2
70°-80°	12.4	1.1
80°-90°	5.2	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°	976.5	88.2
0°-40°	1047.5	94.6
0°-60°	1075.6	97.2
0°-90°	1106.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3902	
5°	3564	308
15°	1485	413
25°	542	255
35°	52	71
45°	18	14
55°	15	14
65°	14	14
75°	12	12
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3901.6
1°	3877.3
2°	3832.6
3°	3769.0
4°	3681.7
5°	3564.2
6°	3418.7
7°	3245.7
8°	3039.1
9°	2817.2
10°	2585.6
11°	2349.8
12°	2117.0
13°	1890.0
14°	1679.3
15°	1485.3
16°	1306.8
17°	1146.7
18°	1006.2
19°	886.2
20°	788.4
21°	707.7
22°	647.1
23°	601.1
24°	566.9
25°	541.8
26°	521.3
27°	503.3
28°	486.2
29°	447.7
30°	382.9
32.5°	185.6
35°	52.3
37.5°	36.0
40°	26.8
42.5°	18.8
45°	17.6
47.5°	16.7
50°	16.3
52.5°	15.5
55°	15.0
57.5°	15.0
60°	14.6
62.5°	14.6
65°	13.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.4
70°	13.0
72.5°	12.5
75°	12.1
77.5°	10.9
80°	9.6
82.5°	7.5
85°	4.6
87.5°	2.1
90°	0.0

(END OF REPORT)