

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: P220712

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1104.1 lumens
Efficiency: N/A
Efficacy: 112.7 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

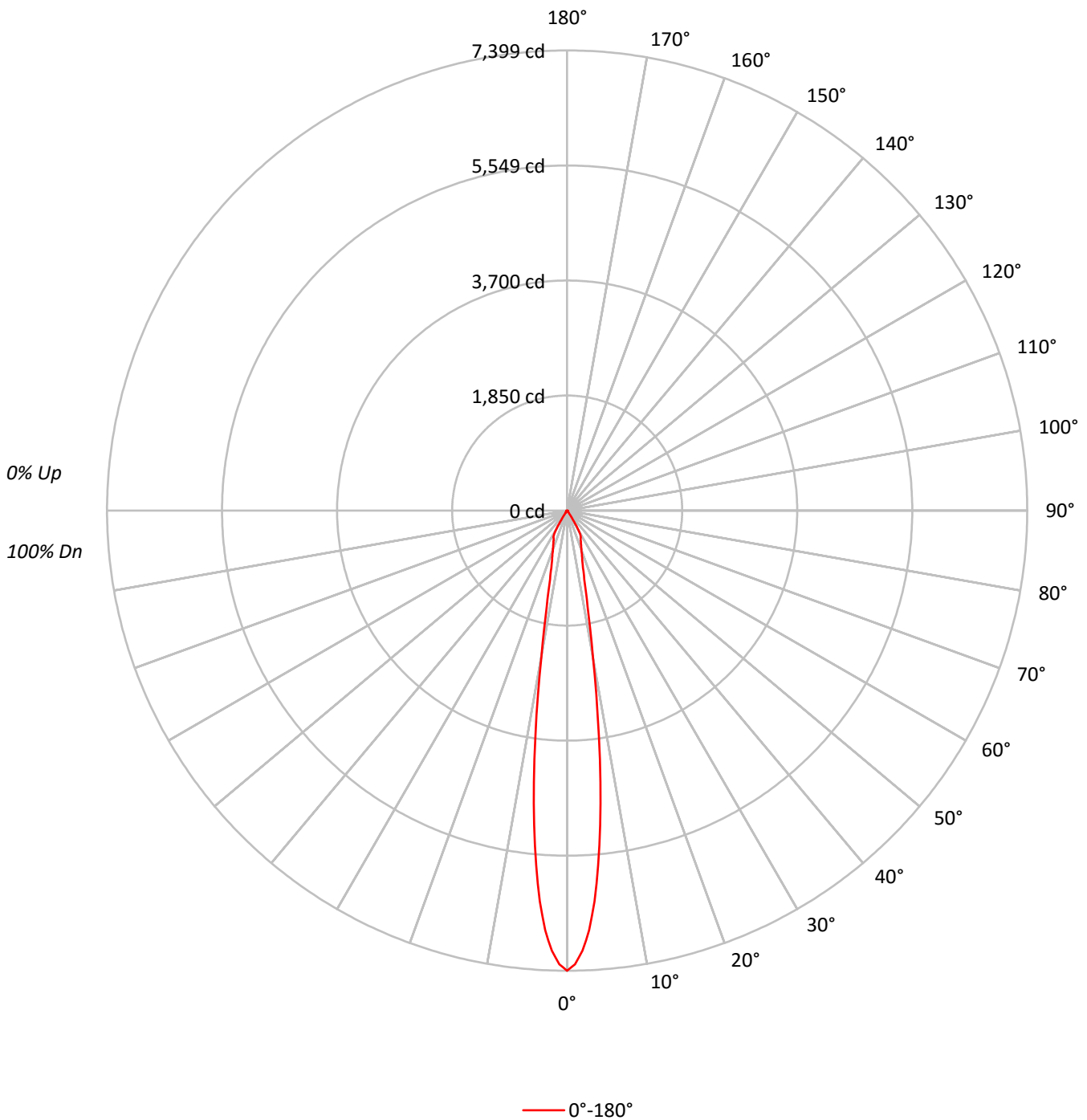
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97		98	96	94		96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91		95	92	90		93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87		92	89	86		90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84		89	85	83		87	84	82	81
6	96	89	85	81	95	89	84	81	87	83	81		86	83	80		85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78		83	80	77		82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75		81	78	75		80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76	73	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	912671
5°	709223
10°	300534
15°	128489
20°	87735
25°	69927
30°	52271
35°	6927
40°	3703
45°	2704
50°	2878
55°	3140
60°	3503
65°	4028
70°	4688
75°	5576
80°	6535
85°	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.2	39.1
10°-20°	309.8	28.1
20°-30°	239.0	21.6
30°-40°	66.2	6.0
40°-50°	12.8	1.2
50°-60°	13.1	1.2
60°-70°	13.6	1.2
70°-80°	12.2	1.1
80°-90°	5.1	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°	981.0	88.8
0°-40°	1047.2	94.8
0°-60°	1073.2	97.2
0°-90°	1104.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7399	
5°	5728	432
15°	1006	310
25°	514	239
35°	46	66
45°	16	13
55°	15	13
65°	14	14
75°	12	12
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7399.3
1°	7295.6
2°	7080.8
3°	6754.3
4°	6300.3
5°	5728.0
6°	5081.7
7°	4399.5
8°	3660.8
9°	2991.1
10°	2399.5
11°	1933.4
12°	1579.8
13°	1323.9
14°	1142.9
15°	1006.2
16°	904.6
17°	828.6
18°	768.8
19°	716.5
20°	668.4
22.5°	579.0
25°	513.8
26°	497.0
27°	482.8
28°	465.7
29°	428.5
30°	367.0
32.5°	176.4
35°	46.0
37.5°	29.7
40°	23.0
42.5°	17.1
45°	15.5
47.5°	15.0
50°	15.0
52.5°	14.6
55°	14.6
57.5°	14.6
60°	14.2
62.5°	14.2
65°	13.8
67.5°	13.4
70°	13.0
72.5°	12.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	11.7
77.5°	10.9
80°	9.2
82.5°	7.5
85°	4.6
87.5°	2.1
90°	0.0

(END OF REPORT)