

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: P220769

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 894.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

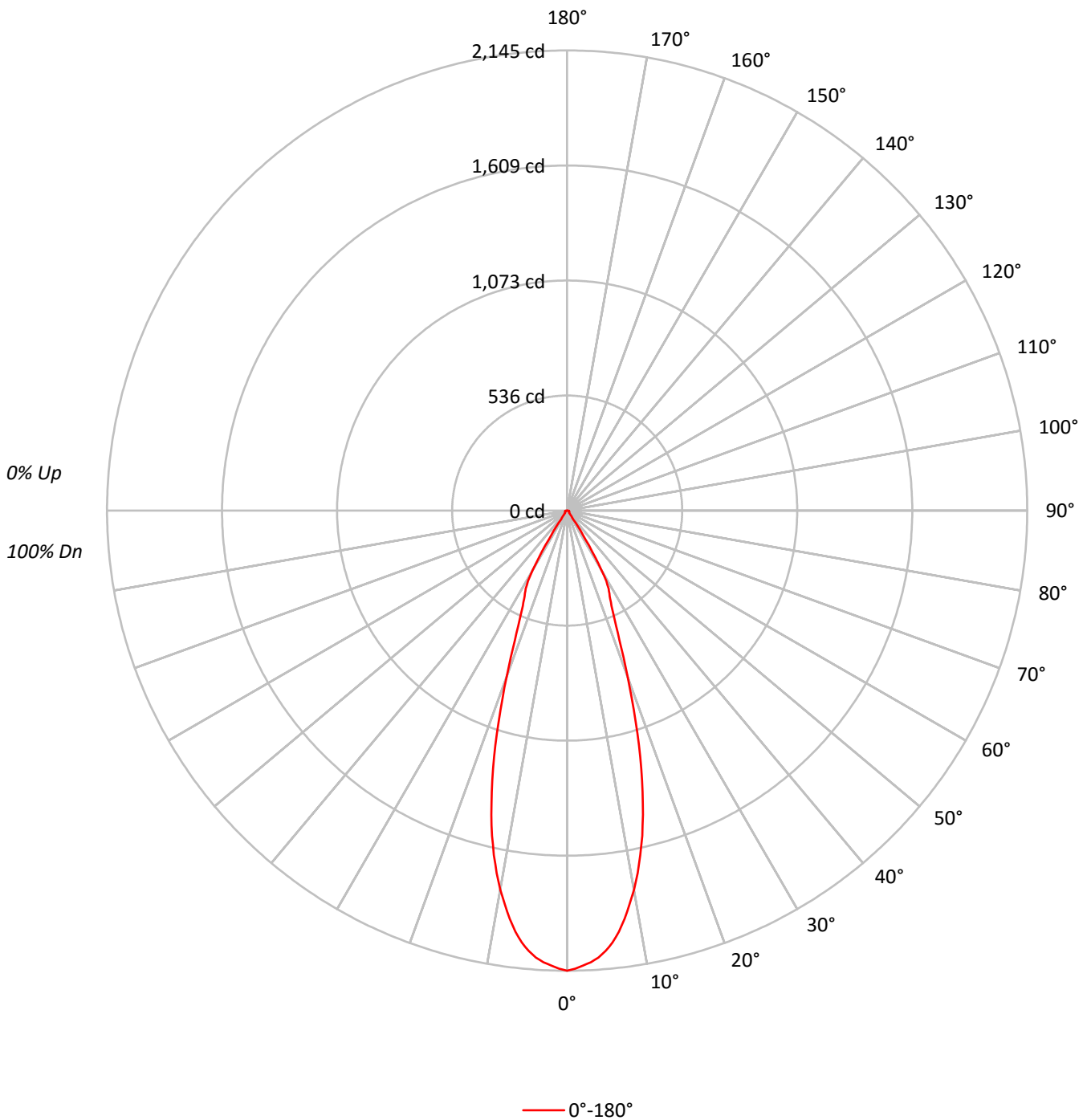
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264564
5°	255112
10°	224646
15°	173451
20°	108291
25°	66674
30°	45705
35°	7183
40°	3253
45°	2198
50°	2284
55°	2495
60°	2788
65°	3094
70°	3570
75°	4432
80°	5185
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	21.0
10°-20°	364.7	40.8
20°-30°	236.2	26.4
30°-40°	60.8	6.8
40°-50°	10.4	1.2
50°-60°	10.5	1.2
60°-70°	10.5	1.2
70°-80°	9.5	1.1
80°-90°	4.0	0.4
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°	789.1	88.2
0°-40°	849.8	95.0
0°-60°	870.6	97.3
0°-90°	894.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2145	
5°	2060	188
15°	1358	365
25°	490	236
35°	48	61
45°	13	10
55°	12	10
65°	11	11
75°	9	9
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2144.9
1°	2135.3
2°	2122.7
3°	2107.8
4°	2088.6
5°	2060.4
6°	2024.6
7°	1977.9
8°	1921.8
9°	1859.5
10°	1793.6
11°	1721.3
12°	1641.8
13°	1555.6
14°	1461.1
15°	1358.3
16°	1252.3
17°	1143.2
18°	1033.8
19°	926.1
20°	825.0
21°	732.5
22°	652.0
23°	584.0
24°	530.7
25°	489.9
26°	457.8
27°	432.9
28°	412.0
29°	375.6
30°	320.9
32.5°	160.4
35°	47.7
37.5°	30.5
40°	20.2
42.5°	12.9
45°	12.6
47.5°	12.3
50°	11.9
52.5°	11.9
55°	11.6
57.5°	11.6
60°	11.3
62.5°	10.9
65°	10.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.3
70°	9.9
72.5°	9.6
75°	9.3
77.5°	8.3
80°	7.3
82.5°	5.6
85°	3.6
87.5°	1.7
90°	0.0

(END OF REPORT)