

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: P221360

Luminaire Tested: **9002-W2-FL-LED4097-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-FL-LED4097-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1691.2 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

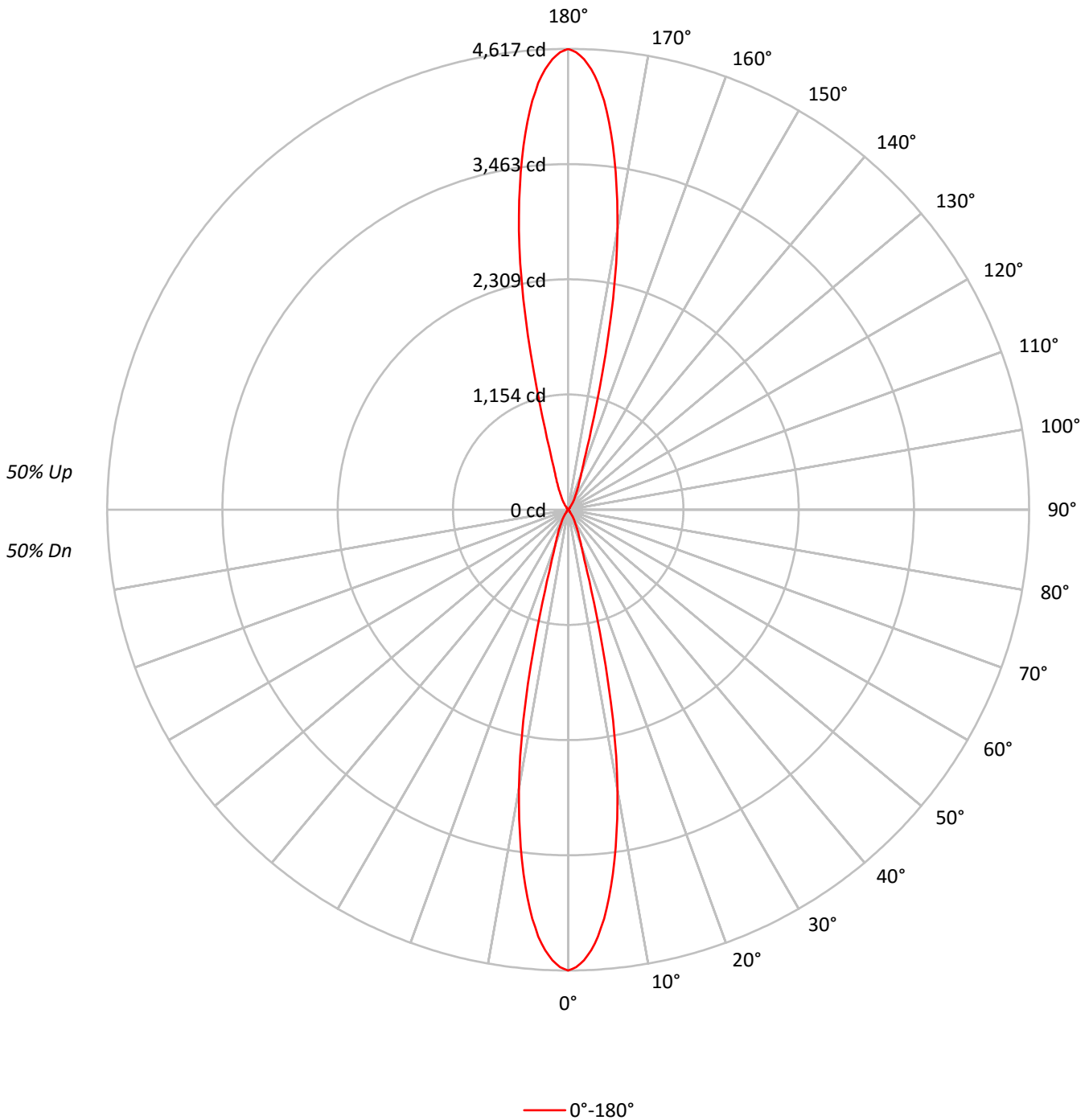
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	101	98	95	92	93	91	88	86	77	76	75		65	64	64		54	54	53	48
2	95	90	85	82	88	84	80	77	72	70	68		62	61	59		52	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	67	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	62	75	68	64	60	61	58	55		54	52	50		48	46	45	42
6	77	68	62	58	72	65	60	56	58	55	52		52	50	48		46	45	44	41
7	73	64	59	55	69	61	56	53	56	52	49		50	48	46		45	44	42	40
8	70	61	56	52	66	58	54	50	53	50	47		49	46	44		44	42	41	39
9	67	58	53	49	64	56	51	48	51	48	45		47	44	43		43	41	40	38
10	65	56	51	47	61	54	49	46	49	46	44		46	43	41		42	40	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2277884
5°	2037368
10°	1422363
15°	561250
20°	201617
25°	113831
30°	65003
35°	35114
40°	13976
45°	9280
50°	6371
55°	5763
60°	5723
65°	6771
70°	7213
75°	8006
80°	4830
85°	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.3	20.8
10°-20°	330.1	19.5
20°-30°	99.7	5.9
30°-40°	36.8	2.2
40°-50°	10.7	0.6
50°-60°	6.3	0.4
60°-70°	5.7	0.3
70°-80°	4.0	0.2
80°-90°	1.1	0.1
90°-100°	1.1	0.1
100°-110°	4.0	0.2
110°-120°	5.7	0.3
120°-130°	6.3	0.4
130°-140°	10.7	0.6
140°-150°	36.8	2.2
150°-160°	99.7	5.9
160°-170°	330.1	19.5
170°-180°	351.3	20.8
0°-30°	781.1	46.2
0°-40°	817.9	48.4
0°-60°	834.9	49.4
0°-90°	845.6	50.0
90°-120°	10.8	0.6
90°-150°	64.5	3.8
90°-180°	846.0	50.0
0°-180°	1691.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4617	
5°	4114	351
15°	1099	330
25°	209	100
35°	58	37
45°	13	11
55°	7	6
65°	6	6
75°	4	4
85°	1	1
90°	0	0
95°	1	1
105°	4	4
115°	6	6
125°	7	6
135°	13	11
145°	58	37
155°	209	100
165°	1099	330
175°	4114	351
180°	4617	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4616.9
1°	4584.4
2°	4516.9
3°	4419.4
4°	4287.0
5°	4113.7
6°	3907.1
7°	3677.2
8°	3416.4
9°	3137.4
10°	2839.1
11°	2514.2
12°	2159.3
13°	1787.8
14°	1422.9
15°	1098.8
16°	839.7
17°	650.6
18°	525.7
19°	442.4
20°	384.0
22.5°	282.4
25°	209.1
26°	184.9
27°	164.1
28°	145.8
29°	129.1
30°	114.1
32.5°	83.3
35°	58.3
37.5°	32.5
40°	21.7
42.5°	16.7
45°	13.3
47.5°	10.8
50°	8.3
52.5°	7.5
55°	6.7
57.5°	6.7
60°	5.8
62.5°	5.8
65°	5.8
67.5°	5.8
70°	5.0
72.5°	4.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	4.2
77.5°	3.3
80°	1.7
82.5°	1.7
85°	0.8
87.5°	0.8
90°	0.0
92.5°	0.8
95°	0.8
97.5°	1.7
100°	1.7
102.5°	3.3
105°	4.2
107.5°	4.2
110°	5.0
112.5°	5.8
115°	5.8
117.5°	5.8
120°	5.8
122.5°	6.7
125°	6.7
127.5°	7.5
130°	8.3
132.5°	10.8
135°	13.3
137.5°	16.7
140°	21.7
142.5°	32.5
145°	58.3
147.5°	83.3
150°	114.1
151°	129.1
152°	145.8
153°	164.1
154°	184.9
155°	209.1
157.5°	282.4
160°	384.0
161°	442.4
162°	525.7
163°	650.6
164°	839.7
165°	1098.8
166°	1422.9
167°	1787.8



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2159.3
169°	2514.2
170°	2839.1
171°	3137.4
172°	3416.4
173°	3677.2
174°	3907.1
175°	4113.7
176°	4287.0
177°	4419.4
178°	4516.9
179°	4584.4
180°	4616.9

(END OF REPORT)