

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: P221362

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)  
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-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 792.2 lumens  
Efficiency: N/A  
Efficacy: 39.6 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

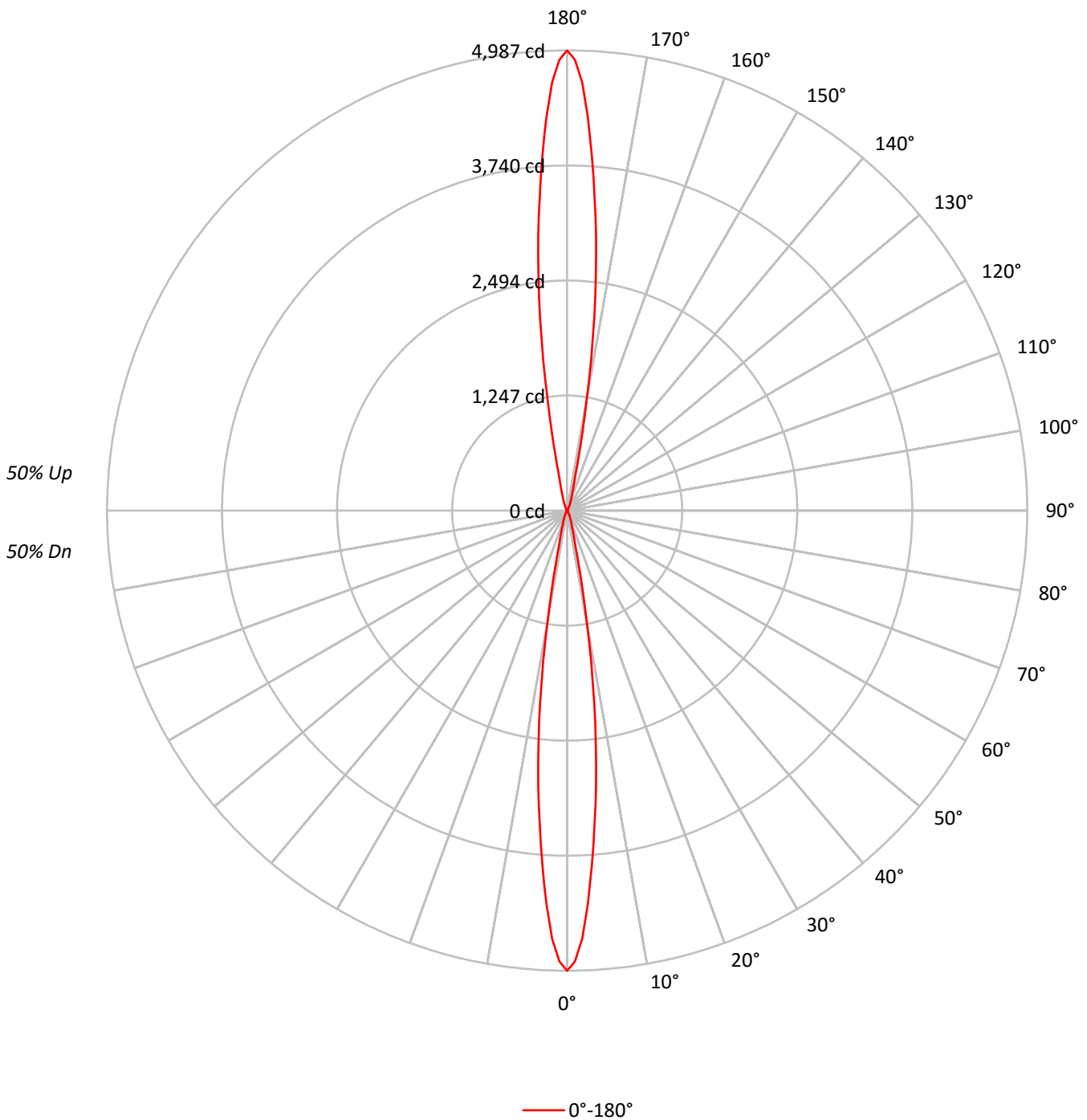
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	93	94	91	89	87	78	77	75	66	65	64	55	54	54	49				
2	96	91	87	83	89	85	81	78	73	71	69	63	62	60	53	53	52	48				
3	91	84	79	76	84	79	75	72	70	67	64	61	59	57	52	51	50	47				
4	86	79	74	70	81	75	70	67	66	63	61	58	56	55	51	50	49	46				
5	82	75	69	65	77	71	66	63	63	60	58	57	54	53	50	49	48	45				
6	79	71	65	61	74	67	63	59	61	58	55	55	53	51	49	48	47	45				
7	76	67	62	58	71	64	60	57	59	55	53	53	51	49	48	47	46	44				
8	73	65	59	56	69	62	57	54	57	54	51	52	50	48	48	46	45	43				
9	70	62	57	54	67	60	55	52	55	52	50	51	49	47	47	45	44	43				
10	68	60	55	52	65	58	54	51	54	51	48	50	48	46	46	45	44	42				

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

	0°
0°	2460385
5°	1690782
10°	616469
15°	126828
20°	61220
25°	30377
30°	11394
35°	6023
40°	4830
45°	3489
50°	3224
55°	2839
60°	3256
65°	3853
70°	3606
75°	3241
80°	2273
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.2	32.3
10°-20°	93.9	11.9
20°-30°	26.8	3.4
30°-40°	7.0	0.9
40°-50°	4.2	0.5
50°-60°	3.3	0.4
60°-70°	3.0	0.4
70°-80°	1.7	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.7	0.2
110°-120°	3.0	0.4
120°-130°	3.3	0.4
130°-140°	4.2	0.5
140°-150°	7.0	0.9
150°-160°	26.8	3.4
160°-170°	93.9	11.9
170°-180°	256.2	32.3
0°-30°	376.9	47.6
0°-40°	383.9	48.5
0°-60°	391.3	49.4
0°-90°	396.1	50.0
90°-120°	4.8	0.6
90°-150°	19.2	2.4
90°-180°	396.0	50.0
0°-180°	792.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4987	
5°	3414	256
15°	248	94
25°	56	27
35°	10	7
45°	5	4
55°	3	3
65°	3	3
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	3	3
125°	3	3
135°	5	4
145°	10	7
155°	56	27
165°	248	94
175°	3414	256
180°	4987	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4986.8
1°	4885.1
2°	4643.6
3°	4272.8
4°	3843.8
5°	3413.9
6°	2989.1
7°	2557.5
8°	2107.7
9°	1657.0
10°	1230.5
11°	863.1
12°	594.0
13°	418.2
14°	312.4
15°	248.3
17.5°	161.6
20°	116.6
22.5°	85.8
25°	55.8
27.5°	33.3
30°	20.0
32.5°	13.3
35°	10.0
37.5°	8.3
40°	7.5
42.5°	5.8
45°	5.0
47.5°	5.0
50°	4.2
52.5°	4.2
55°	3.3
57.5°	3.3
60°	3.3
62.5°	3.3
65°	3.3
67.5°	2.5
70°	2.5
72.5°	2.5
75°	1.7
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.8
102.5°	0.8
105°	1.7
107.5°	2.5
110°	2.5
112.5°	2.5
115°	3.3
117.5°	3.3
120°	3.3
122.5°	3.3
125°	3.3
127.5°	4.2
130°	4.2
132.5°	5.0
135°	5.0
137.5°	5.8
140°	7.5
142.5°	8.3
145°	10.0
147.5°	13.3
150°	20.0
152.5°	33.3
155°	55.8
157.5°	85.8
160°	116.6
162.5°	161.6
165°	248.3
166°	312.4
167°	418.2
168°	594.0
169°	863.1
170°	1230.5
171°	1657.0
172°	2107.7
173°	2557.5
174°	2989.1
175°	3413.9
176°	3843.8
177°	4272.8
178°	4643.6
179°	4885.1



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CANDELA DISTRIBUTION (continued):

180° |  $\frac{0^\circ}{4986.8}$

(END OF REPORT)