

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: P221329

Luminaire Tested: **9002-W2-FL-LED3097-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-FL-LED3097-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

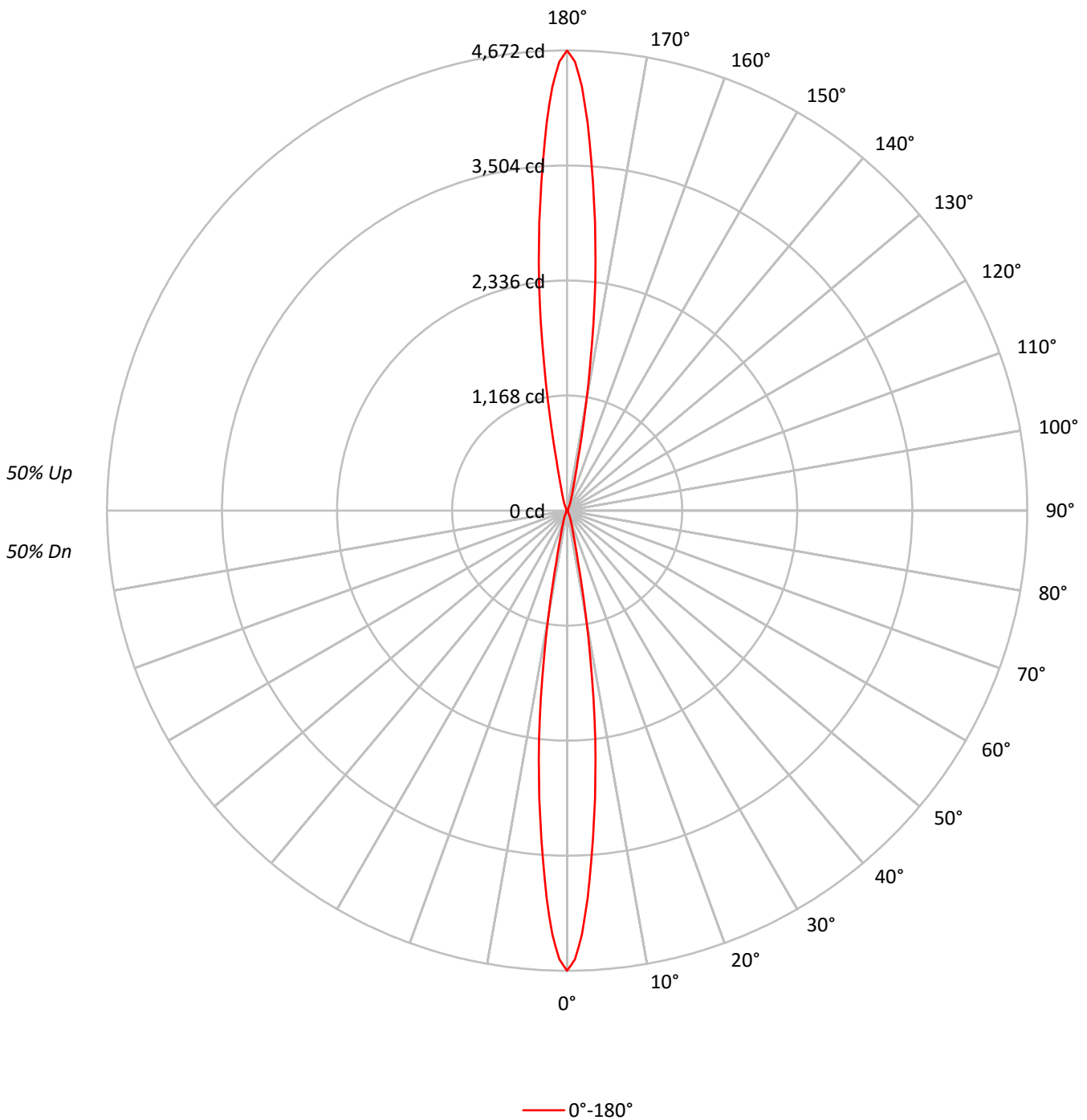
Lumens per Lamp: N/A  
Luminaire Lumens: 708.2 lumens  
Efficiency: N/A  
Efficacy: 35.4 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

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	96	93	94	91	89	87	78	77	75	66	65	64	55	55	54	49				
2	96	91	87	83	89	85	82	79	74	71	70	63	62	61	54	53	52	48				
3	91	85	80	76	85	80	76	72	70	67	65	61	59	58	53	52	51	47				
4	87	80	74	70	81	75	71	67	67	64	61	59	57	55	52	51	50	47				
5	83	75	70	66	78	71	67	63	64	61	58	57	55	53	51	49	49	46				
6	79	71	66	62	75	68	63	60	61	58	56	55	53	52	50	49	48	45				
7	76	68	63	59	72	65	61	57	59	56	54	54	52	50	49	48	47	45				
8	73	65	60	57	70	63	58	55	57	54	52	53	50	49	48	47	46	44				
9	71	63	58	55	67	60	56	53	56	53	50	52	49	48	47	46	45	44				
10	69	61	56	53	65	58	54	51	54	51	49	50	48	47	47	45	44	43				

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

	0°
0°	2304921
5°	1554981
10°	553495
15°	115233
20°	55550
25°	26893
30°	9229
35°	4638
40°	3478
45°	2163
50°	1765
55°	1290
60°	1480
65°	934
70°	1154
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.0	33.2
10°-20°	84.2	11.9
20°-30°	23.7	3.3
30°-40°	5.5	0.8
40°-50°	2.8	0.4
50°-60°	1.6	0.2
60°-70°	1.0	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.1
110°-120°	1.0	0.1
120°-130°	1.6	0.2
130°-140°	2.8	0.4
140°-150°	5.5	0.8
150°-160°	23.7	3.3
160°-170°	84.2	11.9
170°-180°	235.0	33.2
0°-30°	342.9	48.4
0°-40°	348.3	49.2
0°-60°	352.7	49.8
0°-90°	354.1	50.0
90°-120°	1.6	0.2
90°-150°	11.4	1.6
90°-180°	354.0	50.0
0°-180°	708.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4672	
5°	3140	235
15°	226	84
25°	49	24
35°	8	5
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	3	3
145°	8	5
155°	49	24
165°	226	84
175°	3140	235
180°	4672	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4671.7
1°	4556.6
2°	4307.9
3°	3946.3
4°	3541.5
5°	3139.7
6°	2743.4
7°	2341.7
8°	1922.2
9°	1498.8
10°	1104.8
11°	771.0
12°	523.8
13°	371.6
14°	282.8
15°	225.6
17.5°	146.0
20°	105.8
22.5°	76.5
25°	49.4
27.5°	28.6
30°	16.2
32.5°	10.8
35°	7.7
37.5°	6.2
40°	5.4
42.5°	4.6
45°	3.1
47.5°	3.1
50°	2.3
52.5°	2.3
55°	1.5
57.5°	1.5
60°	1.5
62.5°	1.5
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
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°	0.0
102.5°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.5
120°	1.5
122.5°	1.5
125°	1.5
127.5°	2.3
130°	2.3
132.5°	3.1
135°	3.1
137.5°	4.6
140°	5.4
142.5°	6.2
145°	7.7
147.5°	10.8
150°	16.2
152.5°	28.6
155°	49.4
157.5°	76.5
160°	105.8
162.5°	146.0
165°	225.6
166°	282.8
167°	371.6
168°	523.8
169°	771.0
170°	1104.8
171°	1498.8
172°	1922.2
173°	2341.7
174°	2743.4
175°	3139.7
176°	3541.5
177°	3946.3
178°	4307.9
179°	4556.6



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CANDELA DISTRIBUTION (continued):

180°  $\left| \begin{array}{c} 0^\circ \\ 4671.7 \end{array} \right.$

(END OF REPORT)