

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: P221321

Luminaire Tested: **9002-W2-FL-LED3090-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221321  
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-LED3090-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

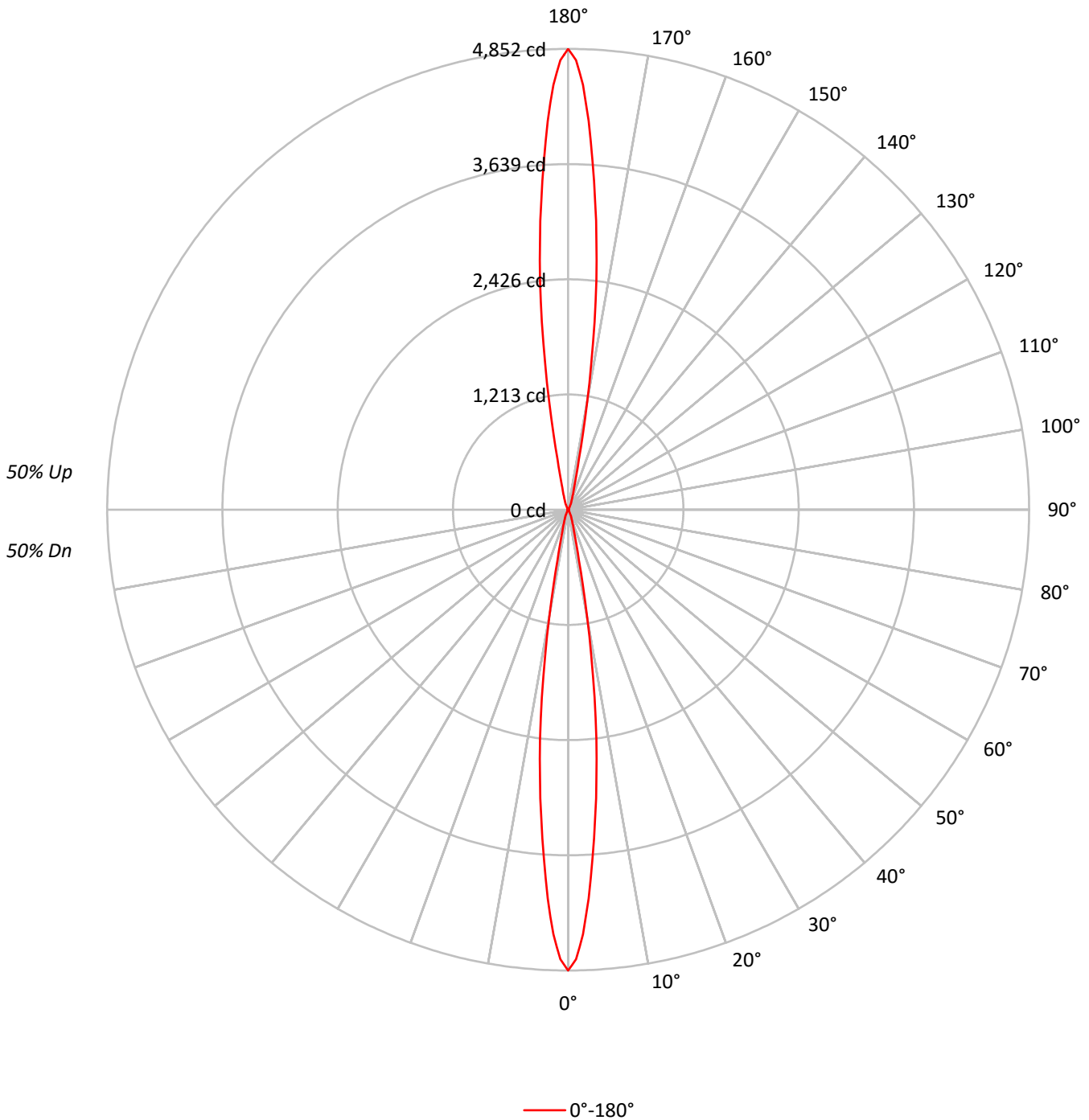
Lumens per Lamp: N/A  
Luminaire Lumens: 735.5 lumens  
Efficiency: N/A  
Efficacy: 36.8 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	2393828
5°	1614957
10°	574837
15°	119677
20°	57702
25°	27981
30°	9571
35°	4818
40°	3607
45°	2233
50°	1842
55°	1376
60°	1579
65°	934
70°	1154
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	33.2
10°-20°	87.5	11.9
20°-30°	24.6	3.3
30°-40°	5.6	0.8
40°-50°	2.9	0.4
50°-60°	1.7	0.2
60°-70°	1.1	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°	1.1	0.1
120°-130°	1.7	0.2
130°-140°	2.9	0.4
140°-150°	5.6	0.8
150°-160°	24.6	3.3
160°-170°	87.5	11.9
170°-180°	244.0	33.2
0°-30°	356.1	48.4
0°-40°	361.8	49.2
0°-60°	366.4	49.8
0°-90°	367.8	50.0
90°-120°	1.6	0.2
90°-150°	11.9	1.6
90°-180°	368.0	50.0
0°-180°	735.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4852	
5°	3261	244
15°	234	87
25°	51	25
35°	8	6
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	6
155°	51	25
165°	234	87
175°	3261	244
180°	4852	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4851.9
1°	4732.4
2°	4474.0
3°	4098.5
4°	3678.1
5°	3260.8
6°	2849.2
7°	2432.0
8°	1996.3
9°	1556.6
10°	1147.4
11°	800.8
12°	544.0
13°	385.9
14°	293.7
15°	234.3
17.5°	151.6
20°	109.9
22.5°	79.4
25°	51.4
27.5°	29.7
30°	16.8
32.5°	11.2
35°	8.0
37.5°	6.4
40°	5.6
42.5°	4.8
45°	3.2
47.5°	3.2
50°	2.4
52.5°	2.4
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
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°	1.6
120°	1.6
122.5°	1.6
125°	1.6
127.5°	2.4
130°	2.4
132.5°	3.2
135°	3.2
137.5°	4.8
140°	5.6
142.5°	6.4
145°	8.0
147.5°	11.2
150°	16.8
152.5°	29.7
155°	51.4
157.5°	79.4
160°	109.9
162.5°	151.6
165°	234.3
166°	293.7
167°	385.9
168°	544.0
169°	800.8
170°	1147.4
171°	1556.6
172°	1996.3
173°	2432.0
174°	2849.2
175°	3260.8
176°	3678.1
177°	4098.5
178°	4474.0
179°	4732.4



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CANDELA DISTRIBUTION (continued):

180° |  $\frac{0^\circ}{4851.9}$

(END OF REPORT)