

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: P222146

Luminaire Tested: **9004-W2-FL-LED4097-S-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED4097-S-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 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: 4442.3 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

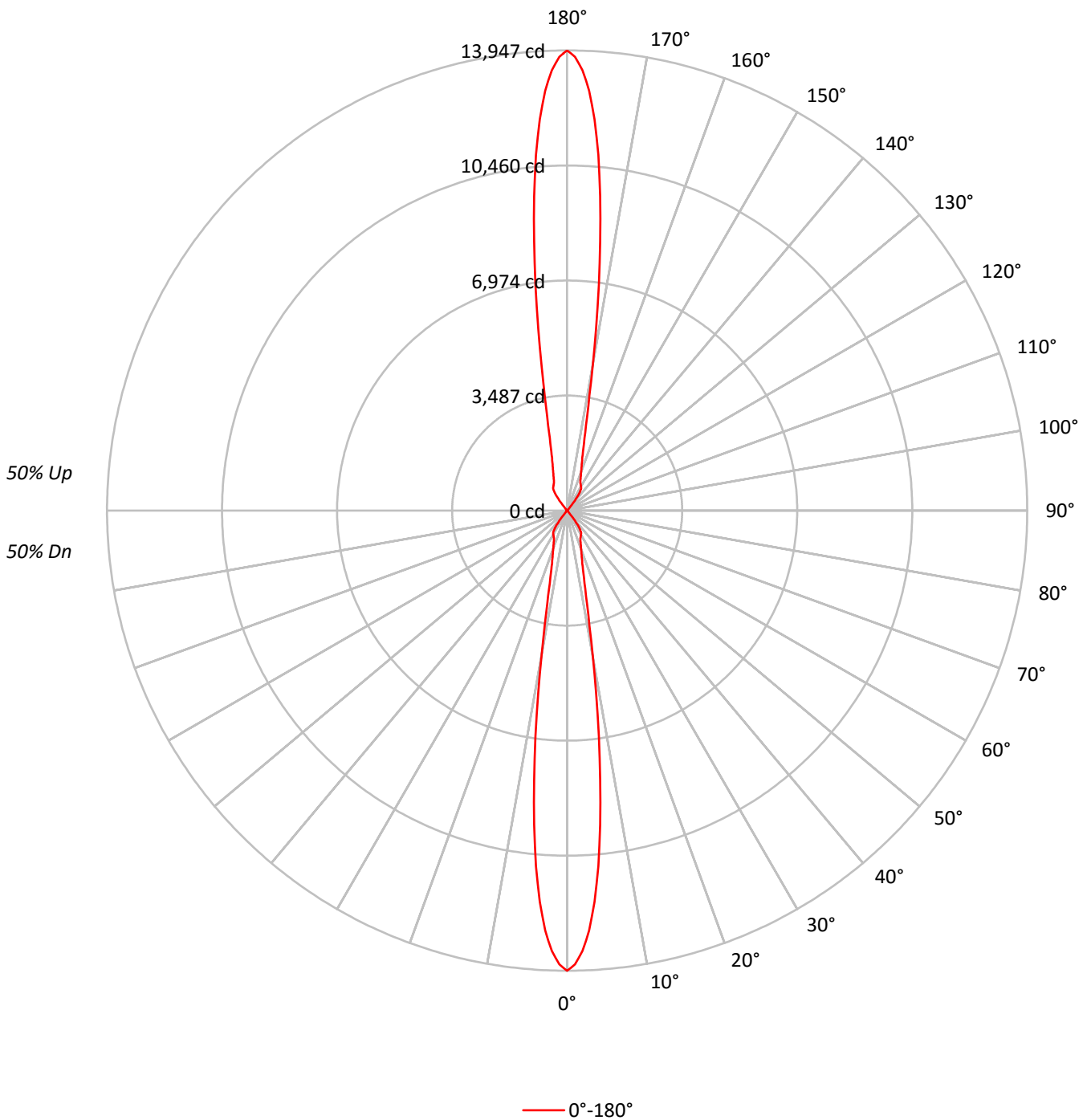
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

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

	0°
0°	1720326
5°	1339103
10°	557719
15°	235818
20°	161846
25°	129170
30°	119368
35°	97664
40°	20562
45°	4710
50°	1669
55°	1355
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.8	18.3
10°-20°	569.6	12.8
20°-30°	449.0	10.1
30°-40°	353.5	8.0
40°-50°	28.6	0.6
50°-60°	5.5	0.1
60°-70°	1.5	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.5	0.0
120°-130°	5.5	0.1
130°-140°	28.6	0.6
140°-150°	353.5	8.0
150°-160°	449.0	10.1
160°-170°	569.6	12.8
170°-180°	812.8	18.3
0°-30°	1831.4	41.2
0°-40°	2184.8	49.2
0°-60°	2218.9	50.0
0°-90°	2221.2	50.0
90°-120°	2.2	0.0
90°-150°	389.8	8.8
90°-180°	2221.0	50.0
0°-180°	4442.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13947	
5°	10815	813
15°	1847	570
25°	949	449
35°	649	353
45°	27	29
55°	6	6
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	6
135°	27	29
145°	649	353
155°	949	449
165°	1847	570
175°	10815	813
180°	13947	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13947.2
1°	13755.3
2°	13356.4
3°	12738.0
4°	11891.9
5°	10815.2
6°	9571.9
7°	8228.7
8°	6910.9
9°	5584.4
10°	4452.9
11°	3549.8
12°	2894.9
13°	2431.0
14°	2094.8
15°	1846.7
16°	1660.3
17°	1524.0
18°	1420.1
19°	1321.0
20°	1233.0
21°	1160.0
22°	1095.0
23°	1037.9
24°	988.0
25°	949.1
26°	919.8
27°	897.6
28°	876.2
29°	857.1
30°	838.1
32.5°	790.5
35°	648.6
37.5°	386.9
40°	127.7
42.5°	38.1
45°	27.0
47.5°	19.0
50°	8.7
52.5°	7.9
55°	6.3
57.5°	4.8
60°	3.2
62.5°	1.6
65°	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	3.2
122.5°	4.8
125°	6.3
127.5°	7.9
130°	8.7
132.5°	19.0
135°	27.0
137.5°	38.1
140°	127.7
142.5°	386.9
145°	648.6
147.5°	790.5
150°	838.1
151°	857.1
152°	876.2
153°	897.6
154°	919.8
155°	949.1
156°	988.0
157°	1037.9
158°	1095.0
159°	1160.0
160°	1233.0
161°	1321.0



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1420.1
163°	1524.0
164°	1660.3
165°	1846.7
166°	2094.8
167°	2431.0
168°	2894.9
169°	3549.8
170°	4452.9
171°	5584.4
172°	6910.9
173°	8228.7
174°	9571.9
175°	10815.2
176°	11891.9
177°	12738.0
178°	13356.4
179°	13755.3
180°	13947.2

(END OF REPORT)