

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: P222130

Luminaire Tested: **9004-W2-FL-LED4097-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
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-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

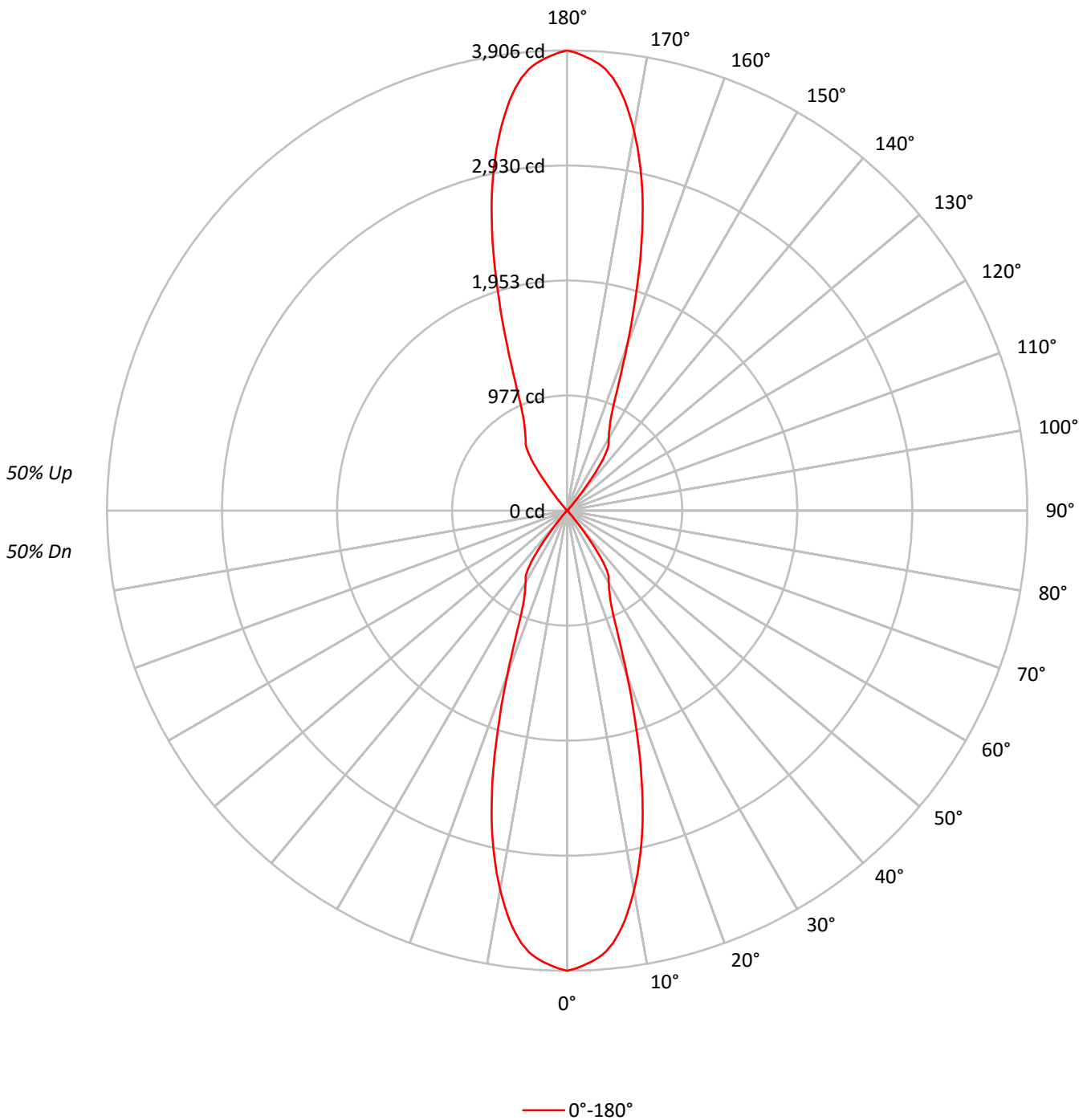
Lumens per Lamp: N/A  
Luminaire Lumens: 3513.9 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 40.2  
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



TEST NUMBER: P222130  
CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222130

CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

**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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

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

	0°
0°	481850
5°	465353
10°	409713
15°	314722
20°	194648
25°	120609
30°	100511
35°	80453
40°	17535
45°	3733
50°	710
55°	387
60°	296
65°	175
70°	216
75°	286
80°	0
85°	0



TEST NUMBER: P222130

CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	9.8
10°-20°	660.9	18.8
20°-30°	434.1	12.4
30°-40°	292.7	8.3
40°-50°	23.1	0.7
50°-60°	1.6	0.0
60°-70°	0.8	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	0.8	0.0
120°-130°	1.6	0.0
130°-140°	23.1	0.7
140°-150°	292.7	8.3
150°-160°	434.1	12.4
160°-170°	660.9	18.8
170°-180°	343.2	9.8
0°-30°	1438.2	40.9
0°-40°	1730.9	49.3
0°-60°	1755.6	50.0
0°-90°	1757.0	50.0
90°-120°	1.4	0.0
90°-150°	318.7	9.1
90°-180°	1757.0	50.0
0°-180°	3513.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3906	
5°	3758	343
15°	2465	661
25°	886	434
35°	534	293
45°	21	23
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	21	23
145°	534	293
155°	886	434
165°	2465	661
175°	3758	343
180°	3906	



TEST NUMBER: P222130

CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3906.5
1°	3889.4
2°	3864.3
3°	3836.8
4°	3804.3
5°	3758.4
6°	3695.4
7°	3613.4
8°	3512.4
9°	3395.5
10°	3271.2
11°	3134.8
12°	2986.0
13°	2823.9
14°	2651.3
15°	2464.6
16°	2268.1
17°	2065.0
18°	1861.8
19°	1670.8
20°	1482.9
21°	1320.1
22°	1173.9
23°	1052.7
24°	959.0
25°	886.2
26°	833.6
27°	793.2
28°	758.9
29°	730.8
30°	705.7
32.5°	653.0
35°	534.3
37.5°	317.6
40°	108.9
42.5°	32.4
45°	21.4
47.5°	13.5
50°	3.7
52.5°	1.8
55°	1.8
57.5°	1.2
60°	1.2
62.5°	1.2
65°	0.6



TEST NUMBER: P222130

CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	0.6
117.5°	1.2
120°	1.2
122.5°	1.2
125°	1.8
127.5°	1.8
130°	3.7
132.5°	13.5
135°	21.4
137.5°	32.4
140°	108.9
142.5°	317.6
145°	534.3
147.5°	653.0
150°	705.7
151°	730.8
152°	758.9
153°	793.2
154°	833.6
155°	886.2
156°	959.0
157°	1052.7
158°	1173.9
159°	1320.1
160°	1482.9
161°	1670.8



TEST NUMBER: P222130

CATALOG NUMBER: 9004-W2-FL-LED4097-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1861.8
163°	2065.0
164°	2268.1
165°	2464.6
166°	2651.3
167°	2823.9
168°	2986.0
169°	3134.8
170°	3271.2
171°	3395.5
172°	3512.4
173°	3613.4
174°	3695.4
175°	3758.4
176°	3804.3
177°	3836.8
178°	3864.3
179°	3889.4
180°	3906.5

(END OF REPORT)