

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: P222041

Luminaire Tested: **9004-W2-FL-LED3097-M-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED3097-M-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3989.7 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

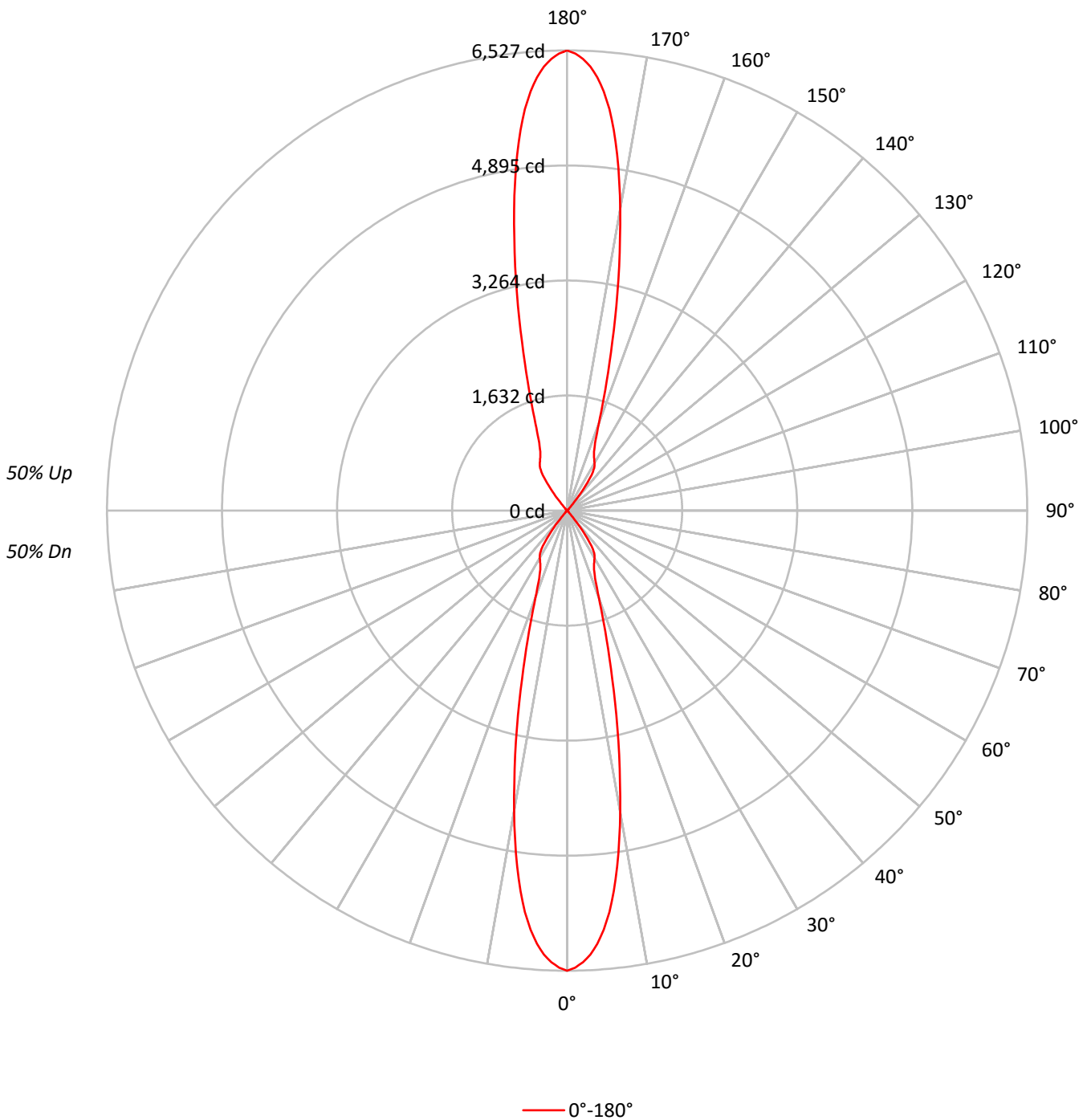
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

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

	0°
0°	805065
5°	738753
10°	542802
15°	316011
20°	172333
25°	122474
30°	110381
35°	86943
40°	19322
45°	5303
50°	1765
55°	1054
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.9	13.0
10°-20°	689.8	17.3
20°-30°	431.4	10.8
30°-40°	320.0	8.0
40°-50°	29.8	0.7
50°-60°	4.8	0.1
60°-70°	1.6	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°	1.6	0.0
120°-130°	4.8	0.1
130°-140°	29.8	0.7
140°-150°	320.0	8.0
150°-160°	431.4	10.8
160°-170°	689.8	17.3
170°-180°	516.9	13.0
0°-30°	1638.0	41.1
0°-40°	1958.0	49.1
0°-60°	1992.6	49.9
0°-90°	1994.8	50.0
90°-120°	2.3	0.1
90°-150°	356.8	8.9
90°-180°	1995.0	50.0
0°-180°	3989.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6527	
5°	5966	517
15°	2475	690
25°	900	431
35°	577	320
45°	30	30
55°	5	5
65°	1	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	2
125°	5	5
135°	30	30
145°	577	320
155°	900	431
165°	2475	690
175°	5966	517
180°	6527	



TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6526.9
1°	6483.8
2°	6410.4
3°	6304.5
4°	6159.1
5°	5966.5
6°	5727.2
7°	5438.5
8°	5101.8
9°	4726.3
10°	4333.8
11°	3932.2
12°	3543.3
13°	3164.3
14°	2804.3
15°	2474.7
16°	2174.7
17°	1912.8
18°	1677.8
19°	1478.7
20°	1312.9
21°	1181.6
22°	1076.4
23°	998.8
24°	941.6
25°	899.9
26°	868.9
27°	842.1
28°	817.4
29°	796.2
30°	775.0
32.5°	716.4
35°	577.4
37.5°	349.4
40°	120.0
42.5°	41.6
45°	30.4
47.5°	21.9
50°	9.2
52.5°	7.1
55°	4.9
57.5°	3.5
60°	2.8
62.5°	2.1
65°	1.4



TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.4
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
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°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	1.4
115°	1.4
117.5°	2.1
120°	2.8
122.5°	3.5
125°	4.9
127.5°	7.1
130°	9.2
132.5°	21.9
135°	30.4
137.5°	41.6
140°	120.0
142.5°	349.4
145°	577.4
147.5°	716.4
150°	775.0
151°	796.2
152°	817.4
153°	842.1
154°	868.9
155°	899.9
156°	941.6
157°	998.8
158°	1076.4
159°	1181.6
160°	1312.9
161°	1478.7



TEST NUMBER: P222041

CATALOG NUMBER: 9004-W2-FL-LED3097-M-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1677.8
163°	1912.8
164°	2174.7
165°	2474.7
166°	2804.3
167°	3164.3
168°	3543.3
169°	3932.2
170°	4333.8
171°	4726.3
172°	5101.8
173°	5438.5
174°	5727.2
175°	5966.5
176°	6159.1
177°	6304.5
178°	6410.4
179°	6483.8
180°	6526.9

(END OF REPORT)