

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: P221796

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1592.7 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

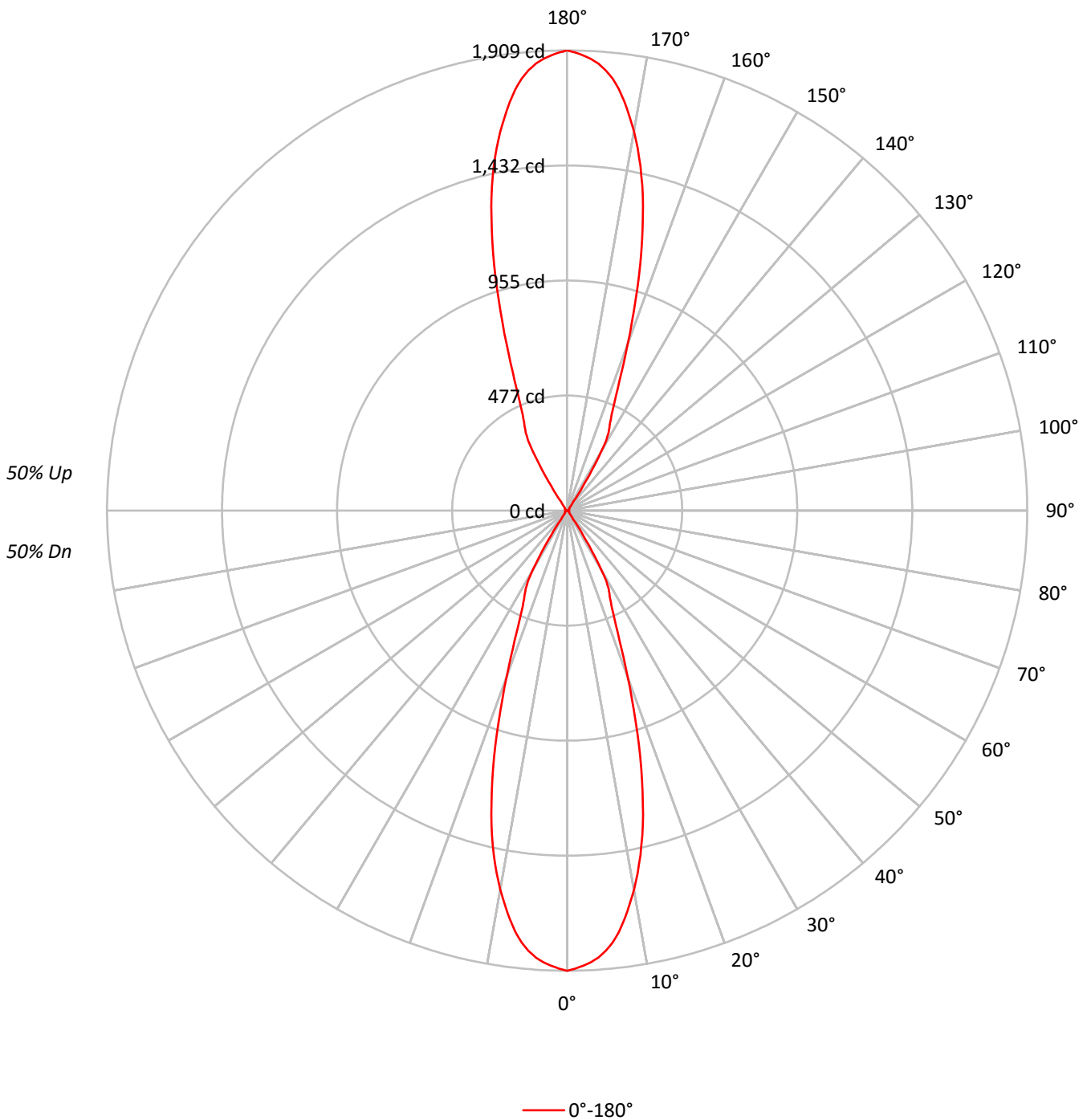
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

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

	0°
0°	235516
5°	227092
10°	199972
15°	154411
20°	96399
25°	59352
30°	40677
35°	6400
40°	2898
45°	1954
50°	2034
55°	2215
60°	2467
65°	2743
70°	3210
75°	3956
80°	4617
85°	4529



TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	10.5
10°-20°	324.7	20.4
20°-30°	210.3	13.2
30°-40°	54.1	3.4
40°-50°	9.2	0.6
50°-60°	9.3	0.6
60°-70°	9.3	0.6
70°-80°	8.5	0.5
80°-90°	3.5	0.2
90°-100°	3.5	0.2
100°-110°	8.5	0.5
110°-120°	9.3	0.6
120°-130°	9.3	0.6
130°-140°	9.2	0.6
140°-150°	54.1	3.4
150°-160°	210.3	13.2
160°-170°	324.7	20.4
170°-180°	167.4	10.5
0°-30°	702.4	44.1
0°-40°	756.5	47.5
0°-60°	775.0	48.7
0°-90°	796.3	50.0
90°-120°	21.3	1.3
90°-150°	93.9	5.9
90°-180°	796.0	50.0
0°-180°	1592.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1909	
5°	1834	167
15°	1209	325
25°	436	210
35°	42	54
45°	11	9
55°	10	9
65°	9	9
75°	8	8
85°	3	3
90°	0	0
95°	3	3
105°	8	8
115°	9	9
125°	10	9
135°	11	9
145°	42	54
155°	436	210
165°	1209	325
175°	1834	167
180°	1909	



TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1909.4
1°	1900.8
2°	1889.6
3°	1876.3
4°	1859.2
5°	1834.1
6°	1802.3
7°	1760.7
8°	1710.8
9°	1655.3
10°	1596.6
11°	1532.3
12°	1461.5
13°	1384.8
14°	1300.7
15°	1209.2
16°	1114.8
17°	1017.7
18°	920.3
19°	824.4
20°	734.4
21°	652.1
22°	580.4
23°	519.9
24°	472.4
25°	436.1
26°	407.5
27°	385.4
28°	366.8
29°	334.3
30°	285.6
32.5°	142.8
35°	42.5
37.5°	27.1
40°	18.0
42.5°	11.5
45°	11.2
47.5°	10.9
50°	10.6
52.5°	10.6
55°	10.3
57.5°	10.3
60°	10.0
62.5°	9.7
65°	9.4



TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	9.1
70°	8.9
72.5°	8.6
75°	8.3
77.5°	7.4
80°	6.5
82.5°	5.0
85°	3.2
87.5°	1.5
90°	0.0
92.5°	1.5
95°	3.2
97.5°	5.0
100°	6.5
102.5°	7.4
105°	8.3
107.5°	8.6
110°	8.9
112.5°	9.1
115°	9.4
117.5°	9.7
120°	10.0
122.5°	10.3
125°	10.3
127.5°	10.6
130°	10.6
132.5°	10.9
135°	11.2
137.5°	11.5
140°	18.0
142.5°	27.1
145°	42.5
147.5°	142.8
150°	285.6
151°	334.3
152°	366.8
153°	385.4
154°	407.5
155°	436.1
156°	472.4
157°	519.9
158°	580.4
159°	652.1
160°	734.4
161°	824.4



TEST NUMBER: P221796

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	920.3
163°	1017.7
164°	1114.8
165°	1209.2
166°	1300.7
167°	1384.8
168°	1461.5
169°	1532.3
170°	1596.6
171°	1655.3
172°	1710.8
173°	1760.7
174°	1802.3
175°	1834.1
176°	1859.2
177°	1876.3
178°	1889.6
179°	1900.8
180°	1909.4

(END OF REPORT)