

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: P221793

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)  
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-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1482.2 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

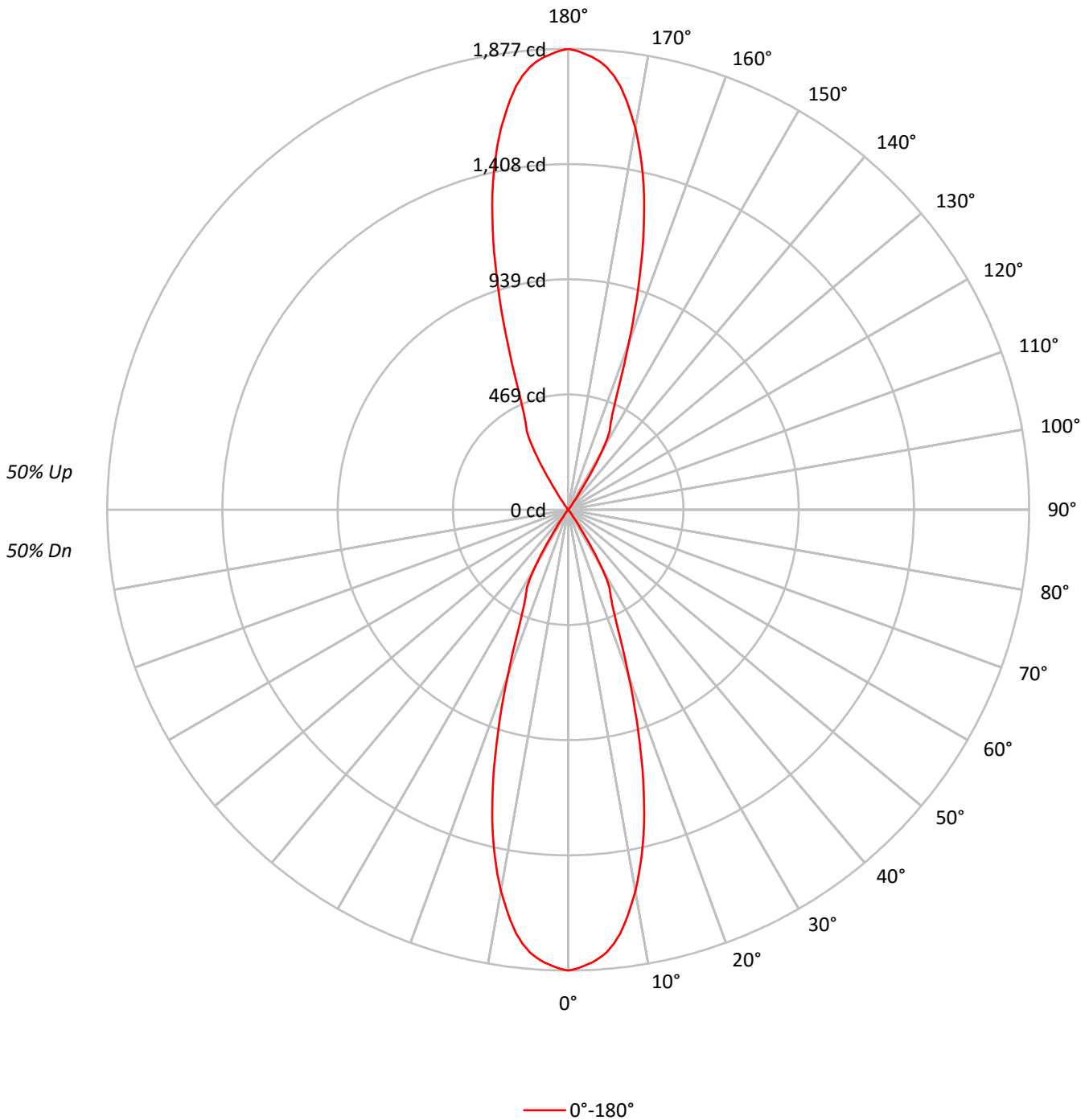
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

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

	0°
0°	231507
5°	223848
10°	197392
15°	151959
20°	94272
25°	57664
30°	39253
35°	5195
40°	1465
45°	366
50°	288
55°	194
60°	148
65°	175
70°	108
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	11.1
10°-20°	319.2	21.5
20°-30°	204.7	13.8
30°-40°	48.2	3.3
40°-50°	2.3	0.2
50°-60°	0.9	0.1
60°-70°	0.5	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	0.5	0.0
120°-130°	0.9	0.1
130°-140°	2.3	0.2
140°-150°	48.2	3.3
150°-160°	204.7	13.8
160°-170°	319.2	21.5
170°-180°	165.1	11.1
0°-30°	689.1	46.5
0°-40°	737.3	49.7
0°-60°	740.5	50.0
0°-90°	741.1	50.0
90°-120°	0.7	0.0
90°-150°	52.1	3.5
90°-180°	741.0	50.0
0°-180°	1482.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1877	
5°	1808	165
15°	1190	319
25°	424	205
35°	34	48
45°	2	2
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	0
125°	1	1
135°	2	2
145°	34	48
155°	424	205
165°	1190	319
175°	1808	165
180°	1877	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1876.9
1°	1870.1
2°	1859.2
3°	1846.8
4°	1830.6
5°	1807.9
6°	1777.5
7°	1738.8
8°	1688.7
9°	1634.1
10°	1576.0
11°	1510.2
12°	1439.6
13°	1363.2
14°	1278.5
15°	1190.0
16°	1096.2
17°	999.1
18°	902.3
19°	808.5
20°	718.2
21°	637.9
22°	566.2
23°	506.0
24°	460.3
25°	423.7
26°	396.3
27°	375.0
28°	356.1
29°	324.0
30°	275.6
32.5°	131.6
35°	34.5
37.5°	18.3
40°	9.1
42.5°	3.0
45°	2.1
47.5°	1.8
50°	1.5
52.5°	1.2
55°	0.9
57.5°	0.9
60°	0.6
62.5°	0.6
65°	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.6
120°	0.6
122.5°	0.9
125°	0.9
127.5°	1.2
130°	1.5
132.5°	1.8
135°	2.1
137.5°	3.0
140°	9.1
142.5°	18.3
145°	34.5
147.5°	131.6
150°	275.6
151°	324.0
152°	356.1
153°	375.0
154°	396.3
155°	423.7
156°	460.3
157°	506.0
158°	566.2
159°	637.9
160°	718.2
161°	808.5



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	902.3
163°	999.1
164°	1096.2
165°	1190.0
166°	1278.5
167°	1363.2
168°	1439.6
169°	1510.2
170°	1576.0
171°	1634.1
172°	1688.7
173°	1738.8
174°	1777.5
175°	1807.9
176°	1830.6
177°	1846.8
178°	1859.2
179°	1870.1
180°	1876.9

(END OF REPORT)