

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: P221895

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)  
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]-LED4097-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1640.6 lumens  
Efficiency: N/A  
Efficacy: 83.3 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

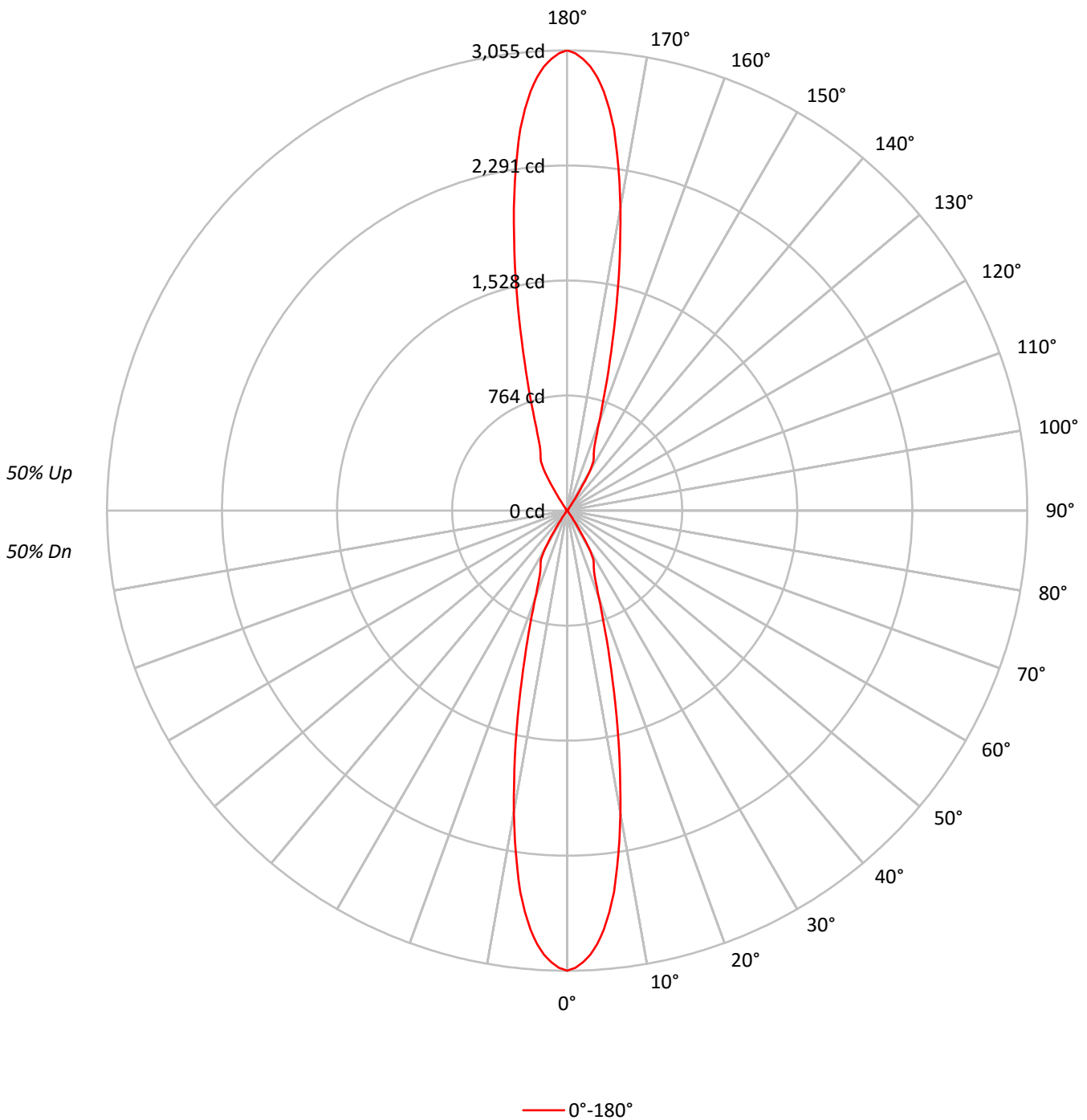
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	101	98	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34

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

	0°
0°	376870
5°	345771
10°	255119
15°	148907
20°	80752
25°	57065
30°	41361
35°	5135
40°	1755
45°	698
50°	441
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.1	14.8
10°-20°	324.7	19.8
20°-30°	197.0	12.0
30°-40°	50.4	3.1
40°-50°	3.6	0.2
50°-60°	1.5	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	1.5	0.1
130°-140°	3.6	0.2
140°-150°	50.4	3.1
150°-160°	197.0	12.0
160°-170°	324.7	19.8
170°-180°	242.1	14.8
0°-30°	763.8	46.6
0°-40°	814.2	49.6
0°-60°	819.3	49.9
0°-90°	820.3	50.0
90°-120°	1.0	0.1
90°-150°	56.5	3.4
90°-180°	820.0	50.0
0°-180°	1640.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3055	
5°	2793	242
15°	1166	325
25°	419	197
35°	34	50
45°	4	4
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	4
145°	34	50
155°	419	197
165°	1166	325
175°	2793	242
180°	3055	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3055.4
1°	3035.9
2°	3001.1
3°	2951.4
4°	2883.4
5°	2792.6
6°	2679.2
7°	2551.6
8°	2388.5
9°	2214.5
10°	2036.9
11°	1849.9
12°	1666.3
13°	1490.6
14°	1321.9
15°	1166.1
16°	1026.9
17°	901.3
18°	789.2
19°	694.8
20°	615.2
21°	552.6
22°	502.8
23°	466.0
24°	439.9
25°	419.3
26°	402.7
27°	388.5
28°	371.6
29°	340.7
30°	290.4
32.5°	138.2
35°	34.1
37.5°	18.6
40°	10.9
42.5°	5.0
45°	4.0
47.5°	3.3
50°	2.3
52.5°	2.0
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
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°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	1.0
120°	1.0
122.5°	1.3
125°	1.7
127.5°	2.0
130°	2.3
132.5°	3.3
135°	4.0
137.5°	5.0
140°	10.9
142.5°	18.6
145°	34.1
147.5°	138.2
150°	290.4
151°	340.7
152°	371.6
153°	388.5
154°	402.7
155°	419.3
156°	439.9
157°	466.0
158°	502.8
159°	552.6
160°	615.2
161°	694.8



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	789.2
163°	901.3
164°	1026.9
165°	1166.1
166°	1321.9
167°	1490.6
168°	1666.3
169°	1849.9
170°	2036.9
171°	2214.5
172°	2388.5
173°	2551.6
174°	2679.2
175°	2792.6
176°	2883.4
177°	2951.4
178°	3001.1
179°	3035.9
180°	3055.4

(END OF REPORT)