

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: P221910

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1722.1 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

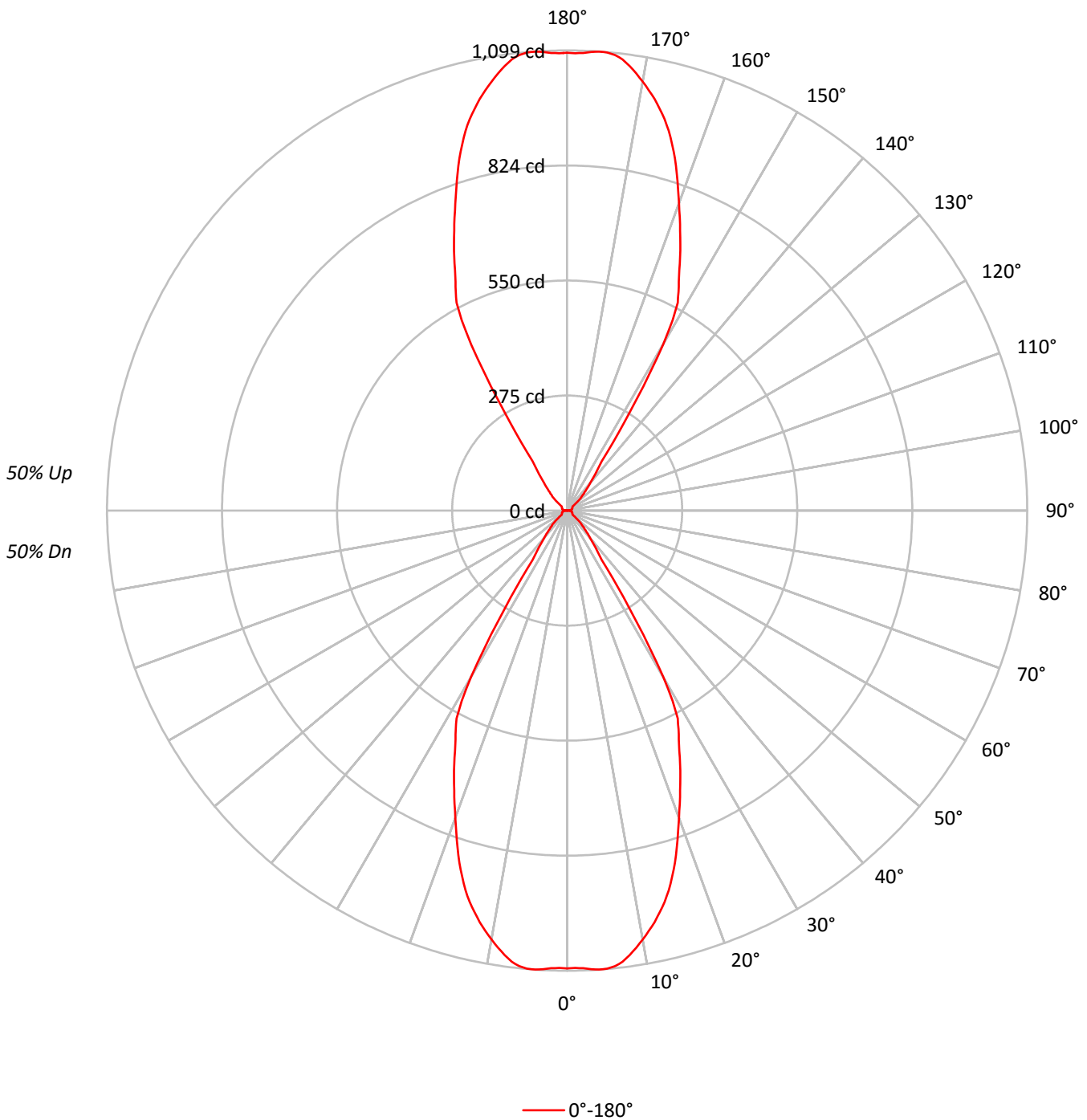
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

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

	0°
0°	134878
5°	135963
10°	130271
15°	119869
20°	102463
25°	86258
30°	65203
35°	21668
40°	13767
45°	9367
50°	5469
55°	3269
60°	3602
65°	3969
70°	4544
75°	5528
80°	6606
85°	6510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	6.0
10°-20°	258.9	15.0
20°-30°	290.0	16.8
30°-40°	121.3	7.0
40°-50°	42.1	2.4
50°-60°	15.3	0.9
60°-70°	13.5	0.8
70°-80°	12.0	0.7
80°-90°	5.0	0.3
90°-100°	5.0	0.3
100°-110°	12.0	0.7
110°-120°	13.5	0.8
120°-130°	15.3	0.9
130°-140°	42.1	2.4
140°-150°	121.3	7.0
150°-160°	290.0	16.8
160°-170°	258.9	15.0
170°-180°	102.9	6.0
0°-30°	651.8	37.9
0°-40°	773.1	44.9
0°-60°	830.5	48.2
0°-90°	861.1	50.0
90°-120°	30.5	1.8
90°-150°	209.2	12.1
90°-180°	861.0	50.0
0°-180°	1722.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1094	
5°	1098	103
15°	939	259
25°	634	290
35°	144	121
45°	54	42
55°	15	15
65°	14	13
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	13
125°	15	15
135°	54	42
145°	144	121
155°	634	290
165°	939	259
175°	1098	103
180°	1094	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1093.5
1°	1092.5
2°	1093.5
3°	1096.8
4°	1098.8
5°	1098.1
6°	1094.2
7°	1085.5
8°	1072.0
9°	1056.7
10°	1040.1
11°	1022.6
12°	1004.7
13°	984.5
14°	962.9
15°	938.7
16°	909.9
17°	879.7
18°	847.2
19°	813.4
20°	780.6
21°	750.1
22°	720.6
23°	691.4
24°	662.9
25°	633.8
26°	608.2
27°	585.7
28°	562.5
29°	520.1
30°	457.8
32.5°	274.5
35°	143.9
37.5°	110.0
40°	85.5
42.5°	66.6
45°	53.7
47.5°	43.1
50°	28.5
52.5°	16.9
55°	15.2
57.5°	14.9
60°	14.6
62.5°	14.3
65°	13.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	12.9
70°	12.6
72.5°	12.3
75°	11.6
77.5°	10.6
80°	9.3
82.5°	7.3
85°	4.6
87.5°	2.0
90°	0.0
92.5°	2.0
95°	4.6
97.5°	7.3
100°	9.3
102.5°	10.6
105°	11.6
107.5°	12.3
110°	12.6
112.5°	12.9
115°	13.6
117.5°	14.3
120°	14.6
122.5°	14.9
125°	15.2
127.5°	16.9
130°	28.5
132.5°	43.1
135°	53.7
137.5°	66.6
140°	85.5
142.5°	110.0
145°	143.9
147.5°	274.5
150°	457.8
151°	520.1
152°	562.5
153°	585.7
154°	608.2
155°	633.8
156°	662.9
157°	691.4
158°	720.6
159°	750.1
160°	780.6
161°	813.4



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	847.2
163°	879.7
164°	909.9
165°	938.7
166°	962.9
167°	984.5
168°	1004.7
169°	1022.6
170°	1040.1
171°	1056.7
172°	1072.0
173°	1085.5
174°	1094.2
175°	1098.1
176°	1098.8
177°	1096.8
178°	1093.5
179°	1092.5
180°	1093.5

(END OF REPORT)