

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: P221730

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
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]-LED2790-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1670.2 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

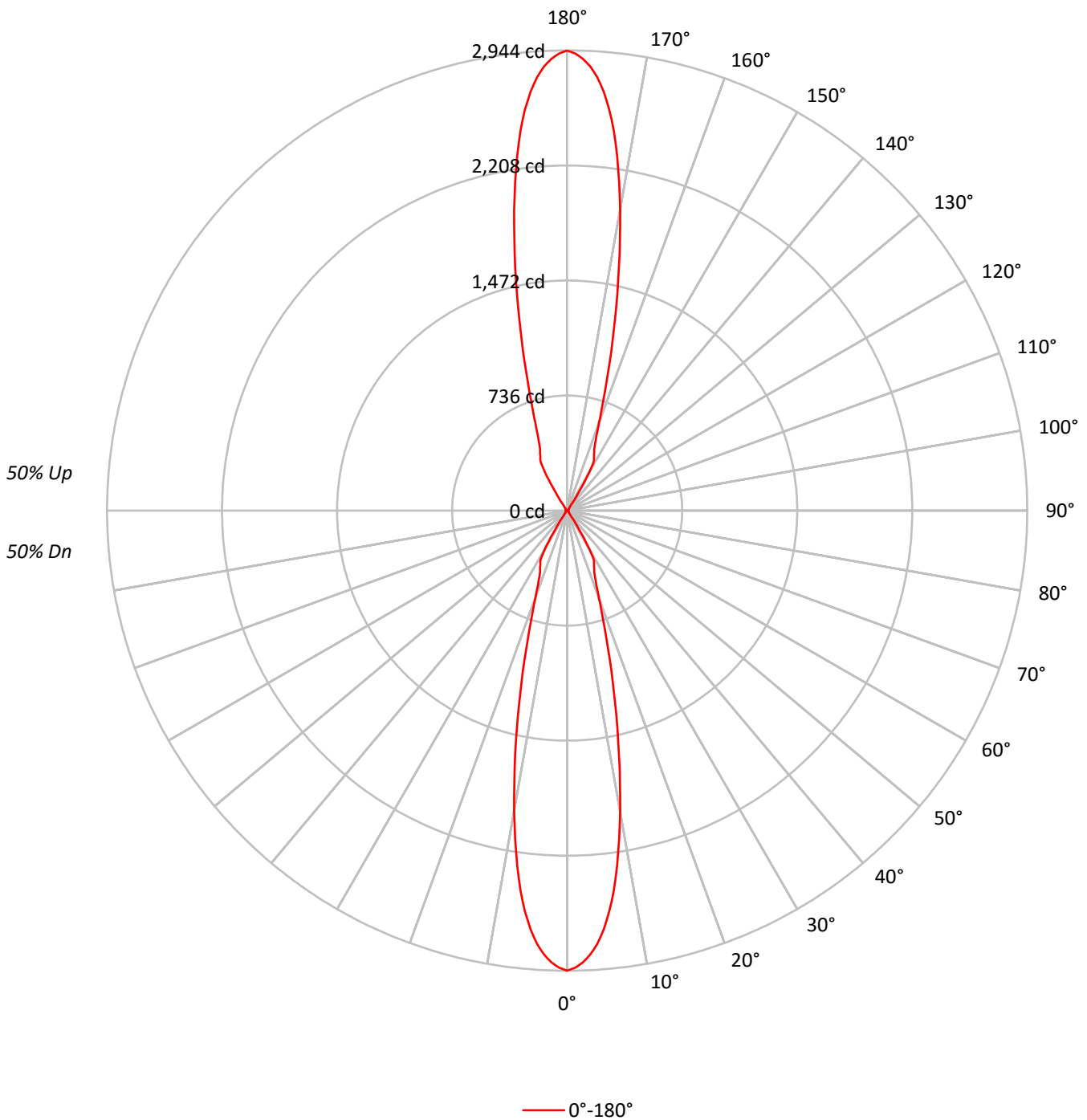
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	94	92	93	90	88	85	77	75	74		65	64	63		54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66		61	59	58		51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61		57	55	53		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		54	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	44	42	39
6	74	65	59	55	70	62	57	53	55	51	48		49	46	44		44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46		47	44	42		42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43		45	42	40		41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41		43	40	38		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	34	33

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

	0°
0°	363068
5°	332943
10°	244322
15°	143097
20°	78074
25°	55623
30°	41147
35°	5933
40°	3253
45°	2303
50°	2360
55°	2452
60°	2714
65°	3035
70°	3534
75°	4337
80°	5185
85°	4953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.7	13.9
10°-20°	311.6	18.7
20°-30°	192.4	11.5
30°-40°	53.6	3.2
40°-50°	10.8	0.6
50°-60°	10.3	0.6
60°-70°	10.4	0.6
70°-80°	9.3	0.6
80°-90°	3.9	0.2
90°-100°	3.9	0.2
100°-110°	9.3	0.6
110°-120°	10.4	0.6
120°-130°	10.3	0.6
130°-140°	10.8	0.6
140°-150°	53.6	3.2
150°-160°	192.4	11.5
160°-170°	311.6	18.7
170°-180°	232.7	13.9
0°-30°	736.7	44.1
0°-40°	790.3	47.3
0°-60°	811.5	48.6
0°-90°	835.1	50.0
90°-120°	23.7	1.4
90°-150°	98.4	5.9
90°-180°	835.0	50.0
0°-180°	1670.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2944	
5°	2689	233
15°	1121	312
25°	409	192
35°	39	54
45°	13	11
55°	11	10
65°	10	10
75°	9	9
85°	4	4
90°	0	0
95°	4	4
105°	9	9
115°	10	10
125°	11	10
135°	13	11
145°	39	54
155°	409	192
165°	1121	312
175°	2689	233
180°	2944	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2943.5
1°	2925.2
2°	2891.4
3°	2843.5
4°	2777.6
5°	2689.0
6°	2579.2
7°	2448.6
8°	2292.8
9°	2125.4
10°	1950.7
11°	1772.8
12°	1597.1
13°	1425.9
14°	1266.9
15°	1120.6
16°	985.9
17°	865.1
18°	759.1
19°	668.6
20°	594.8
21°	533.9
22°	488.2
23°	453.5
24°	427.7
25°	408.7
26°	393.3
27°	379.7
28°	366.8
29°	337.8
30°	288.9
32.5°	140.0
35°	39.4
37.5°	27.1
40°	20.2
42.5°	14.2
45°	13.2
47.5°	12.6
50°	12.3
52.5°	11.7
55°	11.4
57.5°	11.4
60°	11.0
62.5°	11.0
65°	10.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	10.1
70°	9.8
72.5°	9.5
75°	9.1
77.5°	8.2
80°	7.3
82.5°	5.7
85°	3.5
87.5°	1.6
90°	0.0
92.5°	1.6
95°	3.5
97.5°	5.7
100°	7.3
102.5°	8.2
105°	9.1
107.5°	9.5
110°	9.8
112.5°	10.1
115°	10.4
117.5°	11.0
120°	11.0
122.5°	11.4
125°	11.4
127.5°	11.7
130°	12.3
132.5°	12.6
135°	13.2
137.5°	14.2
140°	20.2
142.5°	27.1
145°	39.4
147.5°	140.0
150°	288.9
151°	337.8
152°	366.8
153°	379.7
154°	393.3
155°	408.7
156°	427.7
157°	453.5
158°	488.2
159°	533.9
160°	594.8
161°	668.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	759.1
163°	865.1
164°	985.9
165°	1120.6
166°	1266.9
167°	1425.9
168°	1597.1
169°	1772.8
170°	1950.7
171°	2125.4
172°	2292.8
173°	2448.6
174°	2579.2
175°	2689.0
176°	2777.6
177°	2843.5
178°	2891.4
179°	2925.2
180°	2943.5

(END OF REPORT)