

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: P221728

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-M-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221728  
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]-LED2790-M-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2882.4 lumens  
Efficiency: N/A  
Efficacy: 71.7 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

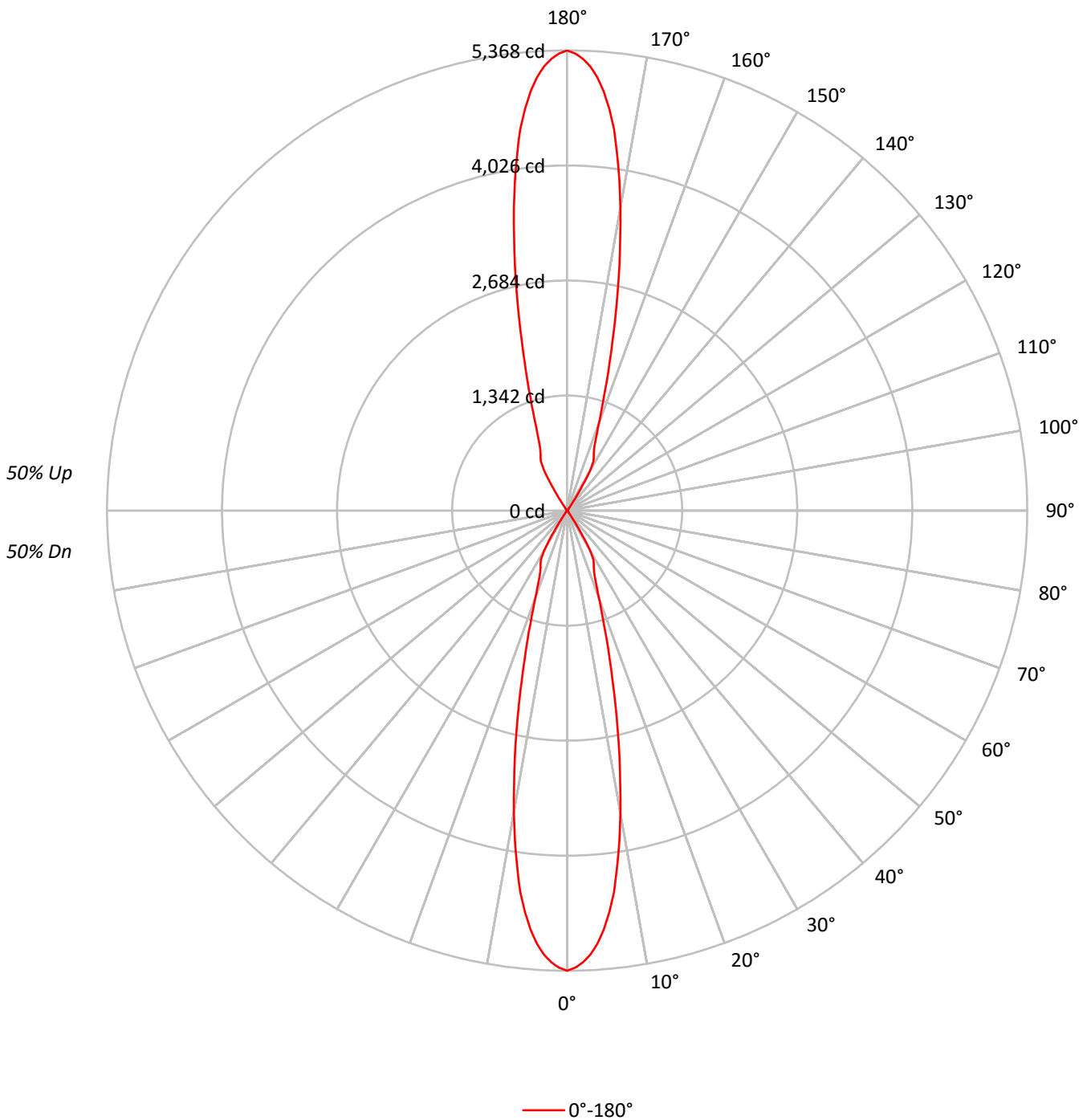
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	662107
5°	607458
10°	448189
15°	261600
20°	141868
25°	100249
30°	72652
35°	9035
40°	3092
45°	1221
50°	787
55°	624
60°	419
65°	350
70°	216
75°	286
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.4	14.8
10°-20°	570.5	19.8
20°-30°	346.1	12.0
30°-40°	88.5	3.1
40°-50°	6.3	0.2
50°-60°	2.6	0.1
60°-70°	1.1	0.0
70°-80°	0.6	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.6	0.0
110°-120°	1.1	0.0
120°-130°	2.6	0.1
130°-140°	6.3	0.2
140°-150°	88.5	3.1
150°-160°	346.1	12.0
160°-170°	570.5	19.8
170°-180°	425.4	14.8
0°-30°	1341.9	46.6
0°-40°	1430.5	49.6
0°-60°	1439.3	49.9
0°-90°	1441.2	50.0
90°-120°	1.9	0.1
90°-150°	99.3	3.4
90°-180°	1441.0	50.0
0°-180°	2882.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5368	
5°	4906	425
15°	2049	570
25°	737	346
35°	60	89
45°	7	6
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	7	6
145°	60	89
155°	737	346
165°	2049	570
175°	4906	425
180°	5368	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5367.9
1°	5333.6
2°	5272.4
3°	5185.1
4°	5065.7
5°	4906.1
6°	4707.0
7°	4482.8
8°	4196.3
9°	3890.5
10°	3578.4
11°	3250.0
12°	2927.4
13°	2618.7
14°	2322.3
15°	2048.6
16°	1804.1
17°	1583.4
18°	1386.5
19°	1220.6
20°	1080.8
21°	970.7
22°	883.4
23°	818.8
24°	772.8
25°	736.6
26°	707.5
27°	682.5
28°	652.8
29°	598.6
30°	510.1
32.5°	242.8
35°	60.0
37.5°	32.6
40°	19.2
42.5°	8.7
45°	7.0
47.5°	5.8
50°	4.1
52.5°	3.5
55°	2.9
57.5°	2.3
60°	1.7
62.5°	1.7
65°	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
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°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.7
120°	1.7
122.5°	2.3
125°	2.9
127.5°	3.5
130°	4.1
132.5°	5.8
135°	7.0
137.5°	8.7
140°	19.2
142.5°	32.6
145°	60.0
147.5°	242.8
150°	510.1
151°	598.6
152°	652.8
153°	682.5
154°	707.5
155°	736.6
156°	772.8
157°	818.8
158°	883.4
159°	970.7
160°	1080.8
161°	1220.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1386.5
163°	1583.4
164°	1804.1
165°	2048.6
166°	2322.3
167°	2618.7
168°	2927.4
169°	3250.0
170°	3578.4
171°	3890.5
172°	4196.3
173°	4482.8
174°	4707.0
175°	4906.1
176°	5065.7
177°	5185.1
178°	5272.4
179°	5333.6
180°	5367.9

(END OF REPORT)