

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: P221721

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221721  
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]-LED2790-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1584.2 lumens  
Efficiency: N/A  
Efficacy: 80.4 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

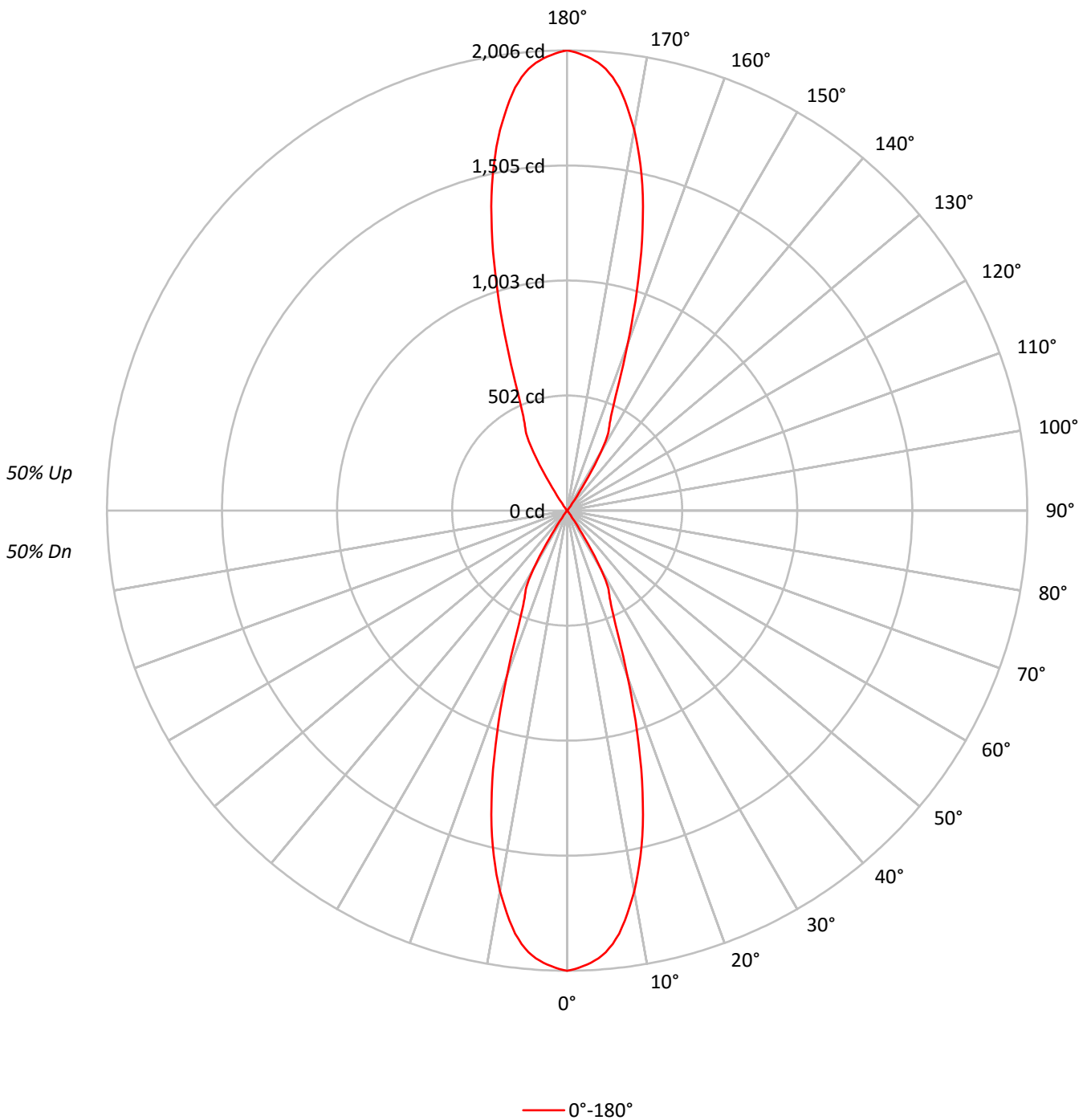
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	247456
5°	239264
10°	210981
15°	162418
20°	100756
25°	61638
30°	41959
35°	5556
40°	1578
45°	384
50°	307
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°	176.5	11.1
10°-20°	341.2	21.5
20°-30°	218.8	13.8
30°-40°	51.6	3.3
40°-50°	2.5	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°	2.5	0.2
140°-150°	51.6	3.3
150°-160°	218.8	13.8
160°-170°	341.2	21.5
170°-180°	176.5	11.1
0°-30°	736.5	46.5
0°-40°	788.1	49.7
0°-60°	791.5	50.0
0°-90°	792.1	50.0
90°-120°	0.7	0.0
90°-150°	55.6	3.5
90°-180°	792.0	50.0
0°-180°	1584.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2006	
5°	1932	177
15°	1272	341
25°	453	219
35°	37	52
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°	37	52
155°	453	219
165°	1272	341
175°	1932	177
180°	2006	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2006.2
1°	1998.9
2°	1987.2
3°	1974.0
4°	1956.6
5°	1932.4
6°	1899.9
7°	1858.6
8°	1804.9
9°	1746.6
10°	1684.5
11°	1614.1
12°	1538.8
13°	1457.1
14°	1366.6
15°	1271.9
16°	1171.7
17°	1067.9
18°	964.4
19°	864.2
20°	767.6
21°	681.9
22°	605.2
23°	540.9
24°	492.0
25°	452.9
26°	423.6
27°	400.9
28°	380.7
29°	346.3
30°	294.6
32.5°	140.7
35°	36.9
37.5°	19.6
40°	9.8
42.5°	3.2
45°	2.2
47.5°	1.9
50°	1.6
52.5°	1.3
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°	1.3
130°	1.6
132.5°	1.9
135°	2.2
137.5°	3.2
140°	9.8
142.5°	19.6
145°	36.9
147.5°	140.7
150°	294.6
151°	346.3
152°	380.7
153°	400.9
154°	423.6
155°	452.9
156°	492.0
157°	540.9
158°	605.2
159°	681.9
160°	767.6
161°	864.2



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	964.4
163°	1067.9
164°	1171.7
165°	1271.9
166°	1366.6
167°	1457.1
168°	1538.8
169°	1614.1
170°	1684.5
171°	1746.6
172°	1804.9
173°	1858.6
174°	1899.9
175°	1932.4
176°	1956.6
177°	1974.0
178°	1987.2
179°	1998.9
180°	2006.2

(END OF REPORT)