

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: P221974

Luminaire Tested: **9004-W2-FL-LED2790-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED2790-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

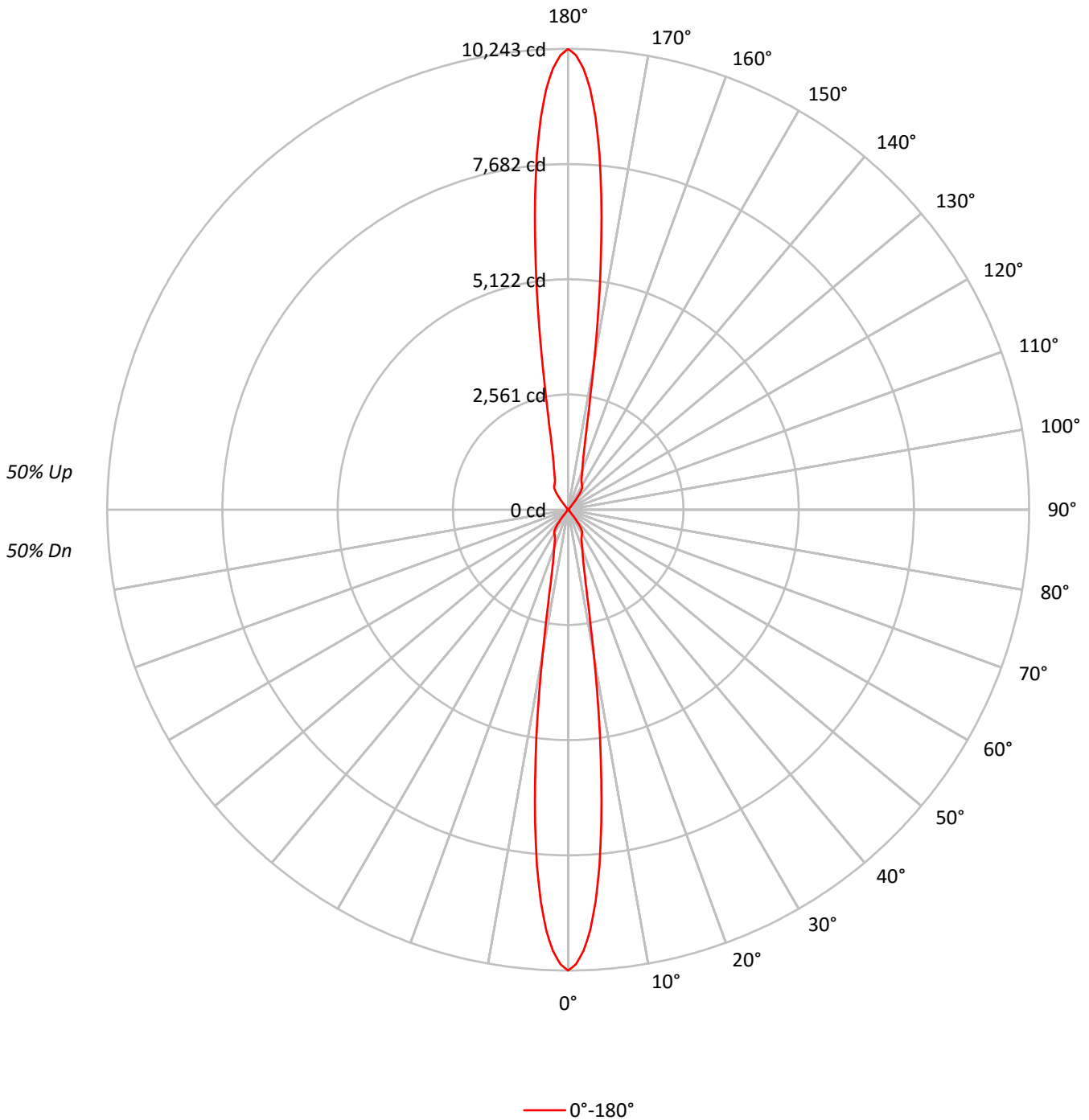
Lumens per Lamp: N/A  
Luminaire Lumens: 3262.6 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 40.2  
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	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

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

	0°
0°	1263454
5°	983477
10°	409612
15°	173182
20°	118857
25°	94859
30°	87664
35°	71720
40°	15103
45°	3454
50°	1228
55°	1011
60°	567
65°	350
70°	216
75°	286
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.9	18.3
10°-20°	418.3	12.8
20°-30°	329.7	10.1
30°-40°	259.6	8.0
40°-50°	21.0	0.6
50°-60°	4.1	0.1
60°-70°	1.1	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.1	0.0
120°-130°	4.1	0.1
130°-140°	21.0	0.6
140°-150°	259.6	8.0
150°-160°	329.7	10.1
160°-170°	418.3	12.8
170°-180°	596.9	18.3
0°-30°	1345.0	41.2
0°-40°	1604.6	49.2
0°-60°	1629.7	49.9
0°-90°	1631.3	50.0
90°-120°	1.6	0.1
90°-150°	286.3	8.8
90°-180°	1631.0	50.0
0°-180°	3262.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10243	
5°	7943	597
15°	1356	418
25°	697	330
35°	476	260
45°	20	21
55°	5	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	5	4
135°	20	21
145°	476	260
155°	697	330
165°	1356	418
175°	7943	597
180°	10243	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10243.2
1°	10102.2
2°	9809.3
3°	9355.1
4°	8733.8
5°	7943.0
6°	7029.9
7°	6043.4
8°	5075.6
9°	4101.3
10°	3270.4
11°	2607.1
12°	2126.1
13°	1785.4
14°	1538.5
15°	1356.2
16°	1219.4
17°	1119.2
18°	1043.0
19°	970.2
20°	905.5
21°	851.9
22°	804.2
23°	762.3
24°	725.6
25°	697.0
26°	675.5
27°	659.2
28°	643.5
29°	629.5
30°	615.5
32.5°	580.6
35°	476.3
37.5°	284.2
40°	93.8
42.5°	28.0
45°	19.8
47.5°	14.0
50°	6.4
52.5°	5.8
55°	4.7
57.5°	3.5
60°	2.3
62.5°	1.2
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°	0.0
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	2.3
122.5°	3.5
125°	4.7
127.5°	5.8
130°	6.4
132.5°	14.0
135°	19.8
137.5°	28.0
140°	93.8
142.5°	284.2
145°	476.3
147.5°	580.6
150°	615.5
151°	629.5
152°	643.5
153°	659.2
154°	675.5
155°	697.0
156°	725.6
157°	762.3
158°	804.2
159°	851.9
160°	905.5
161°	970.2



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1043.0
163°	1119.2
164°	1219.4
165°	1356.2
166°	1538.5
167°	1785.4
168°	2126.1
169°	2607.1
170°	3270.4
171°	4101.3
172°	5075.6
173°	6043.4
174°	7029.9
175°	7943.0
176°	8733.8
177°	9355.1
178°	9809.3
179°	10102.2
180°	10243.2

(END OF REPORT)