

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: P221961

Luminaire Tested: **9004-W2-FL-LED2790-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
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-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

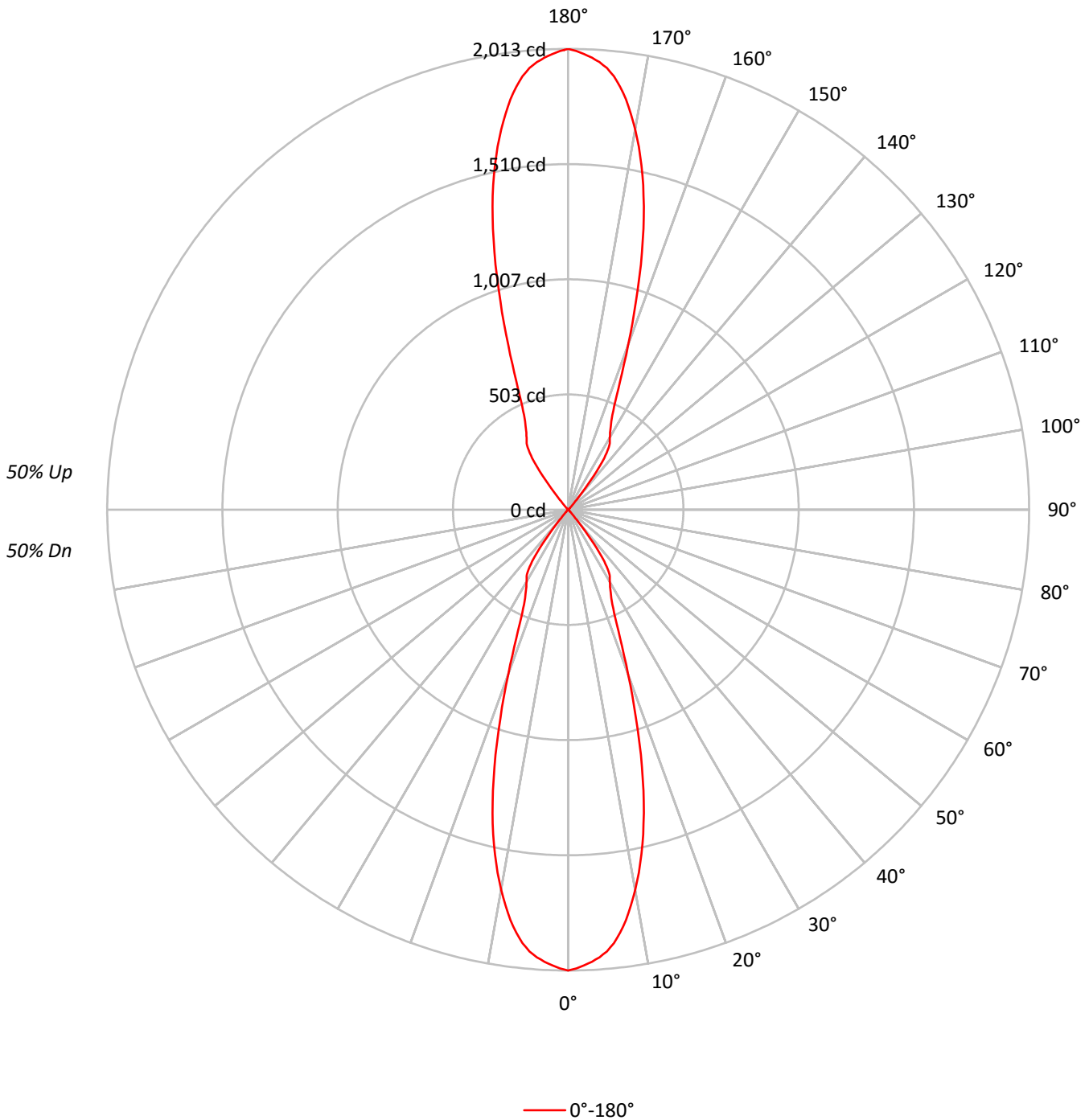
Lumens per Lamp: N/A  
Luminaire Lumens: 1810.7 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (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	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	41
5	78	69	63	59	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

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

	0°
0°	248307
5°	239808
10°	211131
15°	162188
20°	100310
25°	62155
30°	51787
35°	41454
40°	9033
45°	1919
50°	365
55°	194
60°	148
65°	88
70°	108
75°	143
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.9	9.8
10°-20°	340.6	18.8
20°-30°	223.7	12.4
30°-40°	150.8	8.3
40°-50°	11.9	0.7
50°-60°	0.8	0.0
60°-70°	0.4	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.4	0.0
120°-130°	0.8	0.0
130°-140°	11.9	0.7
140°-150°	150.8	8.3
150°-160°	223.7	12.4
160°-170°	340.6	18.8
170°-180°	176.9	9.8
0°-30°	741.1	40.9
0°-40°	892.0	49.3
0°-60°	904.6	50.0
0°-90°	905.3	50.0
90°-120°	0.7	0.0
90°-150°	164.2	9.1
90°-180°	905.0	50.0
0°-180°	1810.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2013	
5°	1937	177
15°	1270	341
25°	457	224
35°	275	151
45°	11	12
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	11	12
145°	275	151
155°	457	224
165°	1270	341
175°	1937	177
180°	2013	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2013.1
1°	2004.3
2°	1991.3
3°	1977.1
4°	1960.4
5°	1936.8
6°	1904.3
7°	1862.0
8°	1810.0
9°	1749.8
10°	1685.7
11°	1615.4
12°	1538.8
13°	1455.2
14°	1366.2
15°	1270.1
16°	1168.8
17°	1064.1
18°	959.4
19°	861.0
20°	764.2
21°	680.3
22°	604.9
23°	542.5
24°	494.2
25°	456.7
26°	429.6
27°	408.7
28°	391.1
29°	376.6
30°	363.6
32.5°	336.5
35°	275.3
37.5°	163.7
40°	56.1
42.5°	16.7
45°	11.0
47.5°	6.9
50°	1.9
52.5°	0.9
55°	0.9
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.3
117.5°	0.6
120°	0.6
122.5°	0.6
125°	0.9
127.5°	0.9
130°	1.9
132.5°	6.9
135°	11.0
137.5°	16.7
140°	56.1
142.5°	163.7
145°	275.3
147.5°	336.5
150°	363.6
151°	376.6
152°	391.1
153°	408.7
154°	429.6
155°	456.7
156°	494.2
157°	542.5
158°	604.9
159°	680.3
160°	764.2
161°	861.0



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	959.4
163°	1064.1
164°	1168.8
165°	1270.1
166°	1366.2
167°	1455.2
168°	1538.8
169°	1615.4
170°	1685.7
171°	1749.8
172°	1810.0
173°	1862.0
174°	1904.3
175°	1936.8
176°	1960.4
177°	1977.1
178°	1991.3
179°	2004.3
180°	2013.1

(END OF REPORT)