

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: P221985

Luminaire Tested: **9004-W2-FL-LED2797-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221985  
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-LED2797-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

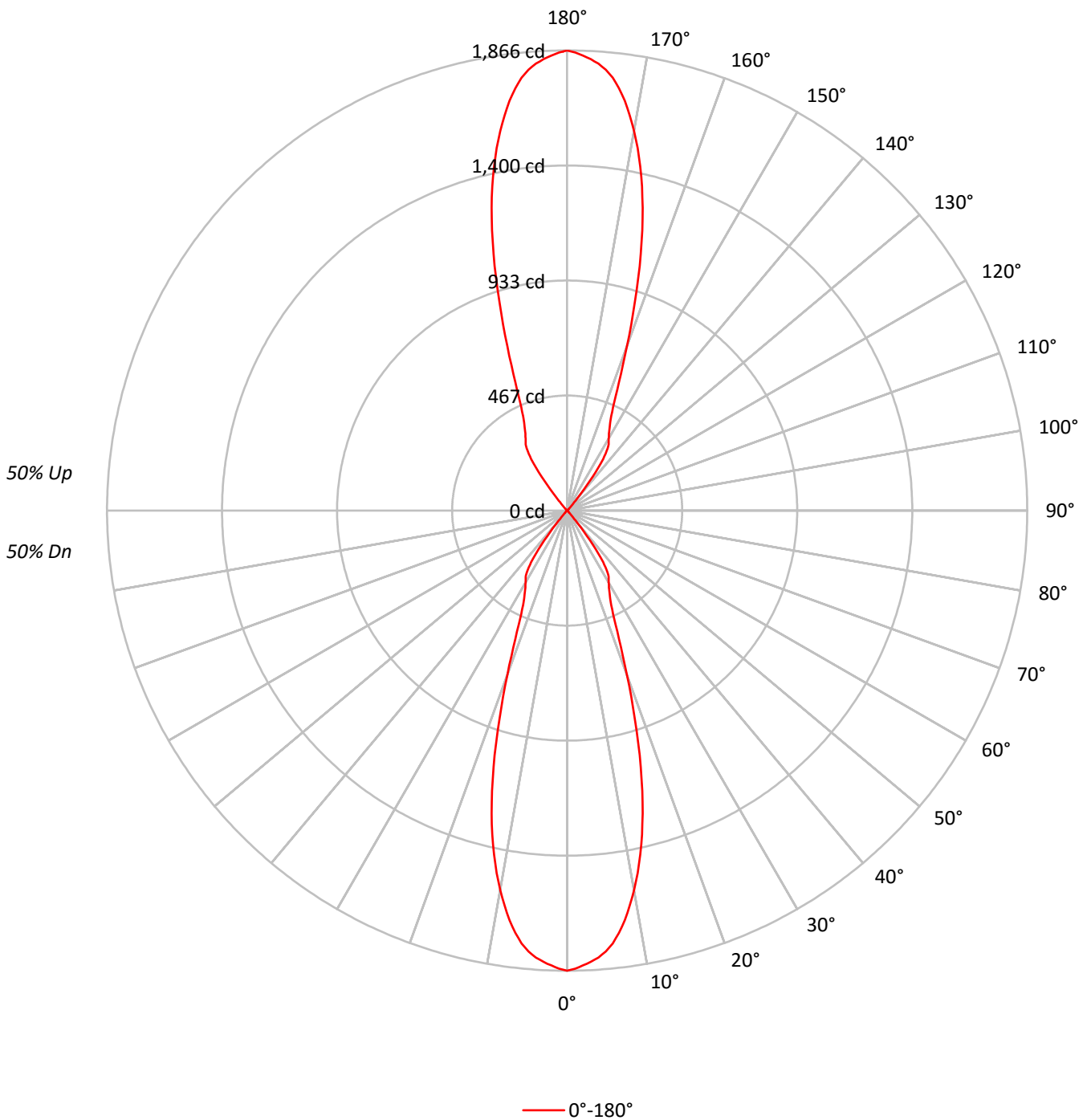
Lumens per Lamp: N/A  
Luminaire Lumens: 1678.4 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

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	40
5	78	69	63	58	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°	230138
5°	222264
10°	195688
15°	150312
20°	92973
25°	57610
30°	47998
35°	38427
40°	8373
45°	1779
50°	345
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°	163.9	9.8
10°-20°	315.7	18.8
20°-30°	207.3	12.4
30°-40°	139.8	8.3
40°-50°	11.0	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°	11.0	0.7
140°-150°	139.8	8.3
150°-160°	207.3	12.4
160°-170°	315.7	18.8
170°-180°	163.9	9.8
0°-30°	686.9	40.9
0°-40°	826.7	49.3
0°-60°	838.5	50.0
0°-90°	839.2	50.0
90°-120°	0.7	0.0
90°-150°	152.3	9.1
90°-180°	839.0	50.0
0°-180°	1678.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1866	
5°	1795	164
15°	1177	316
25°	423	207
35°	255	140
45°	10	11
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°	10	11
145°	255	140
155°	423	207
165°	1177	316
175°	1795	164
180°	1866	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1865.8
1°	1857.7
2°	1845.7
3°	1832.5
4°	1817.0
5°	1795.1
6°	1765.0
7°	1725.8
8°	1677.6
9°	1621.8
10°	1562.4
11°	1497.2
12°	1426.2
13°	1348.7
14°	1266.3
15°	1177.1
16°	1083.3
17°	986.3
18°	889.2
19°	798.0
20°	708.3
21°	630.5
22°	560.7
23°	502.8
24°	458.1
25°	423.3
26°	398.1
27°	378.8
28°	362.5
29°	349.0
30°	337.0
32.5°	311.9
35°	255.2
37.5°	151.7
40°	52.0
42.5°	15.5
45°	10.2
47.5°	6.4
50°	1.8
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°	1.8
132.5°	6.4
135°	10.2
137.5°	15.5
140°	52.0
142.5°	151.7
145°	255.2
147.5°	311.9
150°	337.0
151°	349.0
152°	362.5
153°	378.8
154°	398.1
155°	423.3
156°	458.1
157°	502.8
158°	560.7
159°	630.5
160°	708.3
161°	798.0



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	889.2
163°	986.3
164°	1083.3
165°	1177.1
166°	1266.3
167°	1348.7
168°	1426.2
169°	1497.2
170°	1562.4
171°	1621.8
172°	1677.6
173°	1725.8
174°	1765.0
175°	1795.1
176°	1817.0
177°	1832.5
178°	1845.7
179°	1857.7
180°	1865.8

(END OF REPORT)