

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: P221769

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221769  
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]-LED3090-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1675.7 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

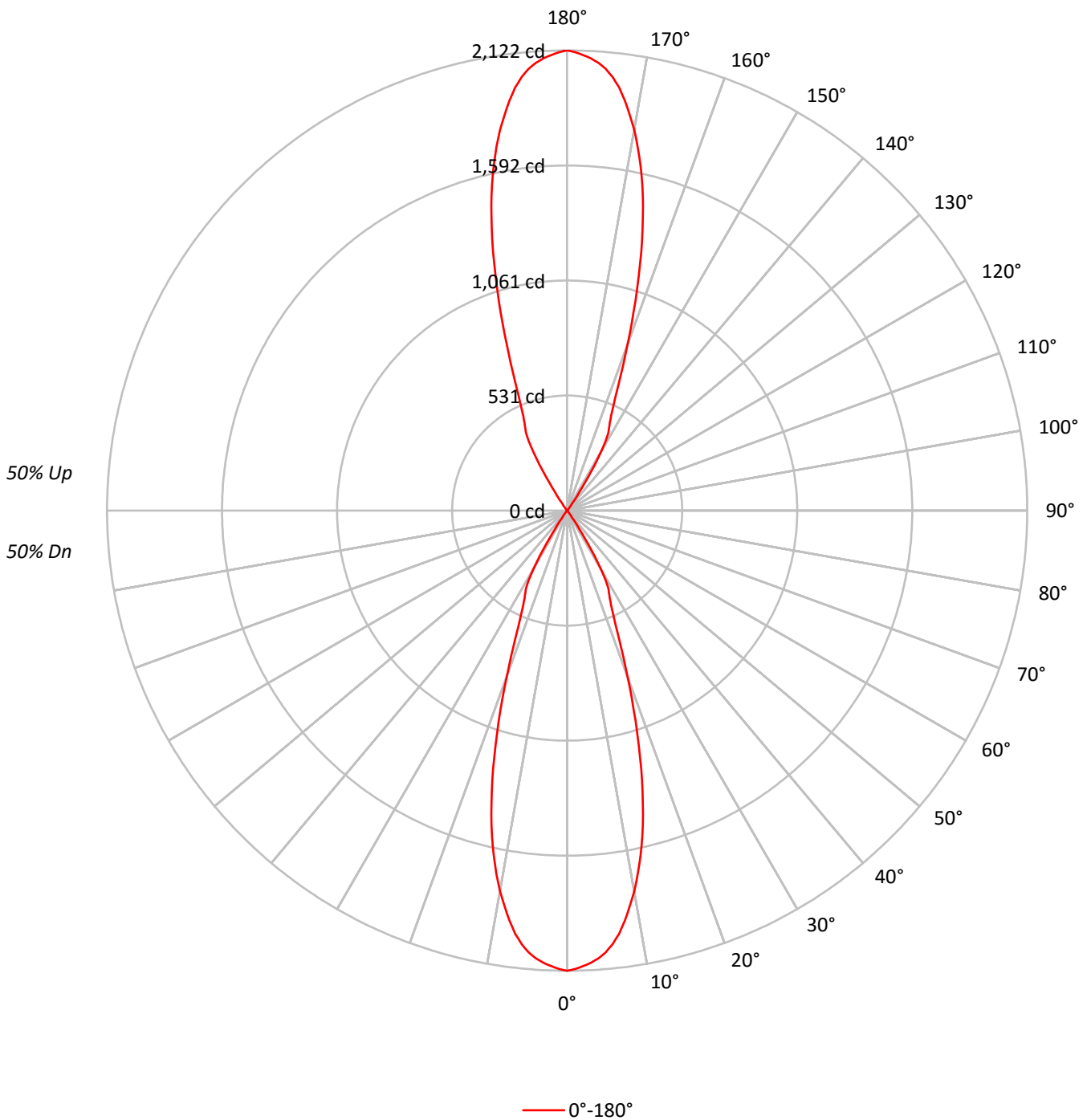
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	261764
5°	253094
10°	223180
15°	171816
20°	106584
25°	65204
30°	44380
35°	5873
40°	1658
45°	401
50°	326
55°	215
60°	173
65°	204
70°	108
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.7	11.1
10°-20°	360.9	21.5
20°-30°	231.4	13.8
30°-40°	54.5	3.3
40°-50°	2.6	0.2
50°-60°	1.0	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°	1.0	0.1
130°-140°	2.6	0.2
140°-150°	54.5	3.3
150°-160°	231.4	13.8
160°-170°	360.9	21.5
170°-180°	186.7	11.1
0°-30°	779.1	46.5
0°-40°	833.6	49.7
0°-60°	837.2	50.0
0°-90°	837.9	50.0
90°-120°	0.7	0.0
90°-150°	58.8	3.5
90°-180°	838.0	50.0
0°-180°	1675.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2122	
5°	2044	187
15°	1346	361
25°	479	231
35°	39	55
45°	2	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	2	3
145°	39	55
155°	479	231
165°	1346	361
175°	2044	187
180°	2122	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2122.2
1°	2114.5
2°	2102.2
3°	2088.1
4°	2069.8
5°	2044.1
6°	2009.7
7°	1966.0
8°	1909.3
9°	1847.6
10°	1781.9
11°	1707.5
12°	1627.7
13°	1541.3
14°	1445.6
15°	1345.5
16°	1239.4
17°	1129.6
18°	1020.2
19°	914.1
20°	812.0
21°	721.3
22°	640.2
23°	572.2
24°	520.5
25°	479.1
26°	448.1
27°	424.0
28°	402.7
29°	366.3
30°	311.6
32.5°	148.8
35°	39.0
37.5°	20.7
40°	10.3
42.5°	3.3
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.3
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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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°	0.7
117.5°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.3
130°	1.7
132.5°	2.0
135°	2.3
137.5°	3.3
140°	10.3
142.5°	20.7
145°	39.0
147.5°	148.8
150°	311.6
151°	366.3
152°	402.7
153°	424.0
154°	448.1
155°	479.1
156°	520.5
157°	572.2
158°	640.2
159°	721.3
160°	812.0
161°	914.1



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1020.2
163°	1129.6
164°	1239.4
165°	1345.5
166°	1445.6
167°	1541.3
168°	1627.7
169°	1707.5
170°	1781.9
171°	1847.6
172°	1909.3
173°	1966.0
174°	2009.7
175°	2044.1
176°	2069.8
177°	2088.1
178°	2102.2
179°	2114.5
180°	2122.2

(END OF REPORT)