

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: P221770

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221770  
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-L2-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**

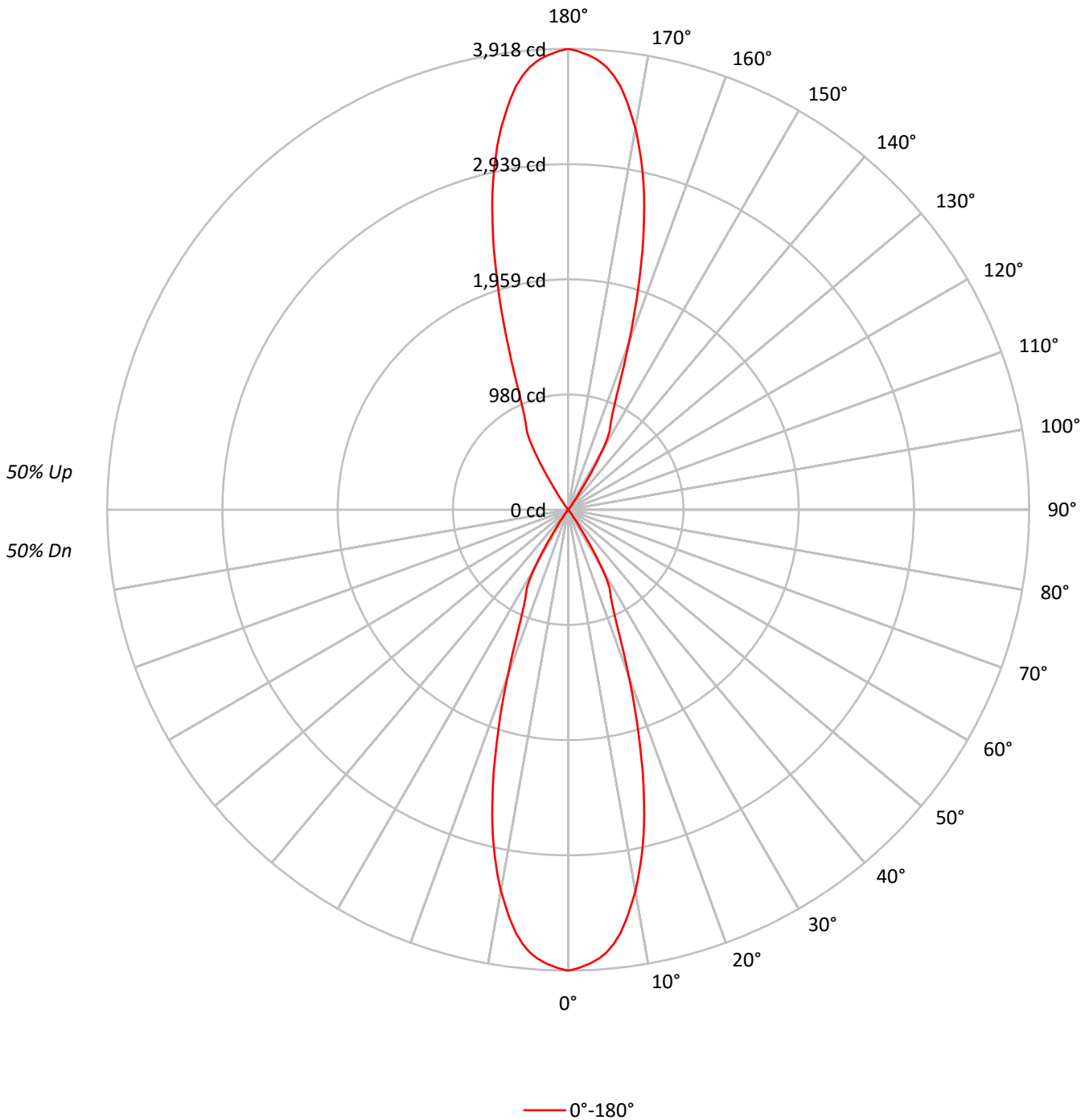
Lumens per Lamp: N/A  
Luminaire Lumens: 3094.1 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 40.2  
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°	483318
5°	467309
10°	412080
15°	317237
20°	196814
25°	120391
30°	81938
35°	10857
40°	3075
45°	750
50°	595
55°	387
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	11.1
10°-20°	666.4	21.5
20°-30°	427.3	13.8
30°-40°	100.7	3.3
40°-50°	4.8	0.2
50°-60°	1.8	0.1
60°-70°	1.0	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.0	0.0
120°-130°	1.8	0.1
130°-140°	4.8	0.2
140°-150°	100.7	3.3
150°-160°	427.3	13.8
160°-170°	666.4	21.5
170°-180°	344.8	11.1
0°-30°	1438.5	46.5
0°-40°	1539.2	49.7
0°-60°	1545.9	50.0
0°-90°	1547.1	50.0
90°-120°	1.4	0.0
90°-150°	108.7	3.5
90°-180°	1547.0	50.0
0°-180°	3094.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3918	
5°	3774	345
15°	2484	666
25°	885	427
35°	72	101
45°	4	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	5
145°	72	101
155°	885	427
165°	2484	666
175°	3774	345
180°	3918	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3918.4
1°	3904.2
2°	3881.4
3°	3855.6
4°	3821.7
5°	3774.2
6°	3710.8
7°	3630.1
8°	3525.4
9°	3411.4
10°	3290.1
11°	3152.7
12°	3005.5
13°	2845.9
14°	2669.1
15°	2484.3
16°	2288.4
17°	2085.8
18°	1883.7
19°	1687.8
20°	1499.4
21°	1331.8
22°	1182.1
23°	1056.4
24°	961.0
25°	884.6
26°	827.3
27°	782.9
28°	743.5
29°	676.4
30°	575.3
32.5°	274.7
35°	72.1
37.5°	38.2
40°	19.1
42.5°	6.2
45°	4.3
47.5°	3.7
50°	3.1
52.5°	2.5
55°	1.8
57.5°	1.8
60°	1.2
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°	0.0
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°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.8
125°	1.8
127.5°	2.5
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.2
140°	19.1
142.5°	38.2
145°	72.1
147.5°	274.7
150°	575.3
151°	676.4
152°	743.5
153°	782.9
154°	827.3
155°	884.6
156°	961.0
157°	1056.4
158°	1182.1
159°	1331.8
160°	1499.4
161°	1687.8



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1883.7
163°	2085.8
164°	2288.4
165°	2484.3
166°	2669.1
167°	2845.9
168°	3005.5
169°	3152.7
170°	3290.1
171°	3411.4
172°	3525.4
173°	3630.1
174°	3710.8
175°	3774.2
176°	3821.7
177°	3855.6
178°	3881.4
179°	3904.2
180°	3918.4

(END OF REPORT)