

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: P221775

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)  
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-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1651.3 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

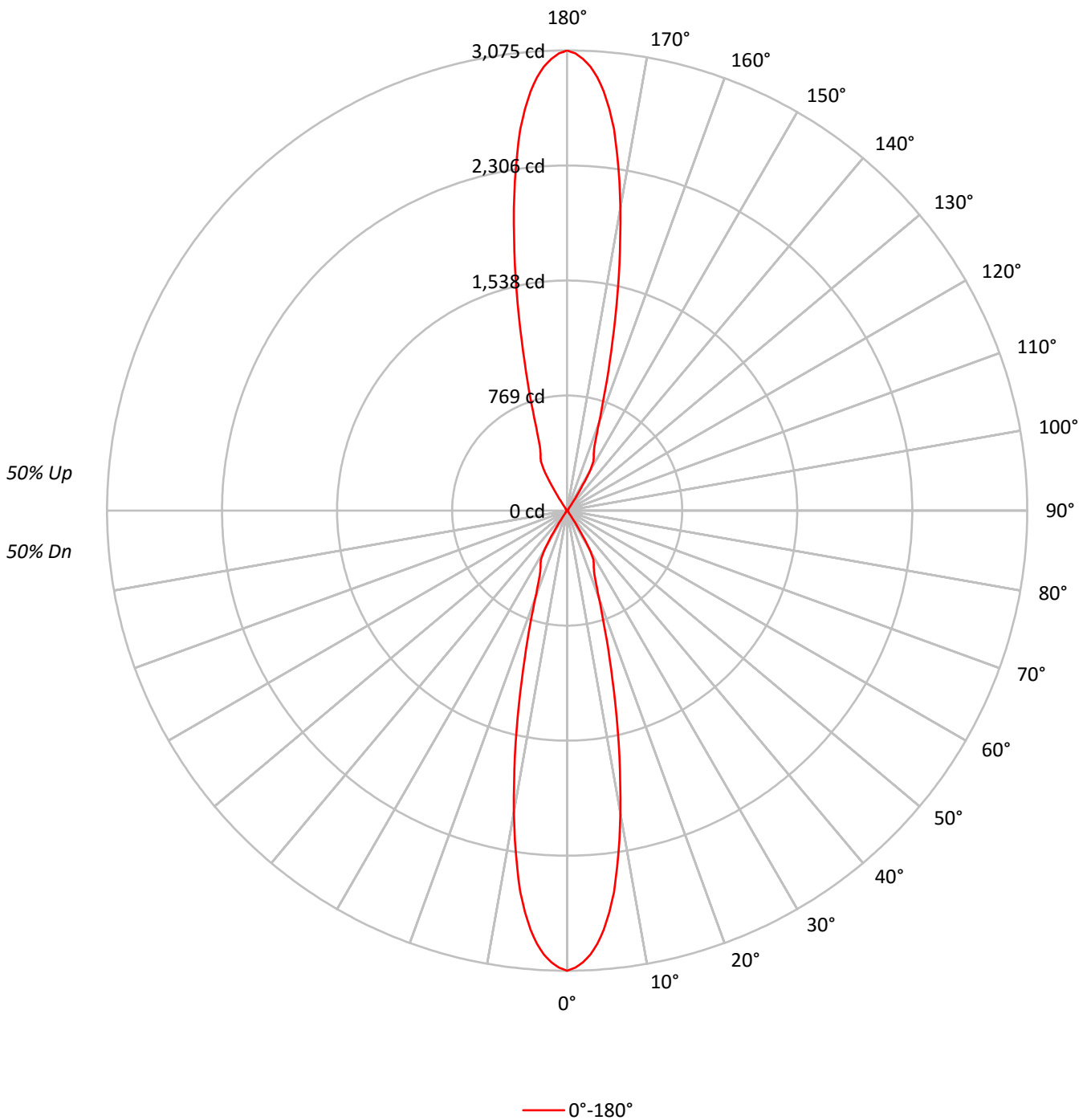
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

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

	0°
0°	379325
5°	348024
10°	256772
15°	149878
20°	81277
25°	57433
30°	41631
35°	5180
40°	1771
45°	698
50°	441
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.7	14.8
10°-20°	326.8	19.8
20°-30°	198.3	12.0
30°-40°	50.7	3.1
40°-50°	3.6	0.2
50°-60°	1.5	0.1
60°-70°	0.7	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°	0.7	0.0
120°-130°	1.5	0.1
130°-140°	3.6	0.2
140°-150°	50.7	3.1
150°-160°	198.3	12.0
160°-170°	326.8	19.8
170°-180°	243.7	14.8
0°-30°	768.8	46.6
0°-40°	819.5	49.6
0°-60°	824.6	49.9
0°-90°	825.6	50.0
90°-120°	1.0	0.1
90°-150°	56.8	3.4
90°-180°	826.0	50.0
0°-180°	1651.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3075	
5°	2811	244
15°	1174	327
25°	422	198
35°	34	51
45°	4	4
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	4
145°	34	51
155°	422	198
165°	1174	327
175°	2811	244
180°	3075	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3075.3
1°	3055.7
2°	3020.6
3°	2970.6
4°	2902.2
5°	2810.8
6°	2696.7
7°	2568.2
8°	2404.1
9°	2228.9
10°	2050.1
11°	1861.9
12°	1677.1
13°	1500.3
14°	1330.5
15°	1173.7
16°	1033.6
17°	907.1
18°	794.4
19°	699.3
20°	619.2
21°	556.1
22°	506.1
23°	469.1
24°	442.7
25°	422.0
26°	405.4
27°	391.0
28°	374.0
29°	343.0
30°	292.3
32.5°	139.1
35°	34.4
37.5°	18.7
40°	11.0
42.5°	5.0
45°	4.0
47.5°	3.3
50°	2.3
52.5°	2.0
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7



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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°	0.3
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°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	1.0
120°	1.0
122.5°	1.3
125°	1.7
127.5°	2.0
130°	2.3
132.5°	3.3
135°	4.0
137.5°	5.0
140°	11.0
142.5°	18.7
145°	34.4
147.5°	139.1
150°	292.3
151°	343.0
152°	374.0
153°	391.0
154°	405.4
155°	422.0
156°	442.7
157°	469.1
158°	506.1
159°	556.1
160°	619.2
161°	699.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	794.4
163°	907.1
164°	1033.6
165°	1173.7
166°	1330.5
167°	1500.3
168°	1677.1
169°	1861.9
170°	2050.1
171°	2228.9
172°	2404.1
173°	2568.2
174°	2696.7
175°	2810.8
176°	2902.2
177°	2970.6
178°	3020.6
179°	3055.7
180°	3075.3

(END OF REPORT)