

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: P221823

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221823  
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]-LED3590-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1672.6 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

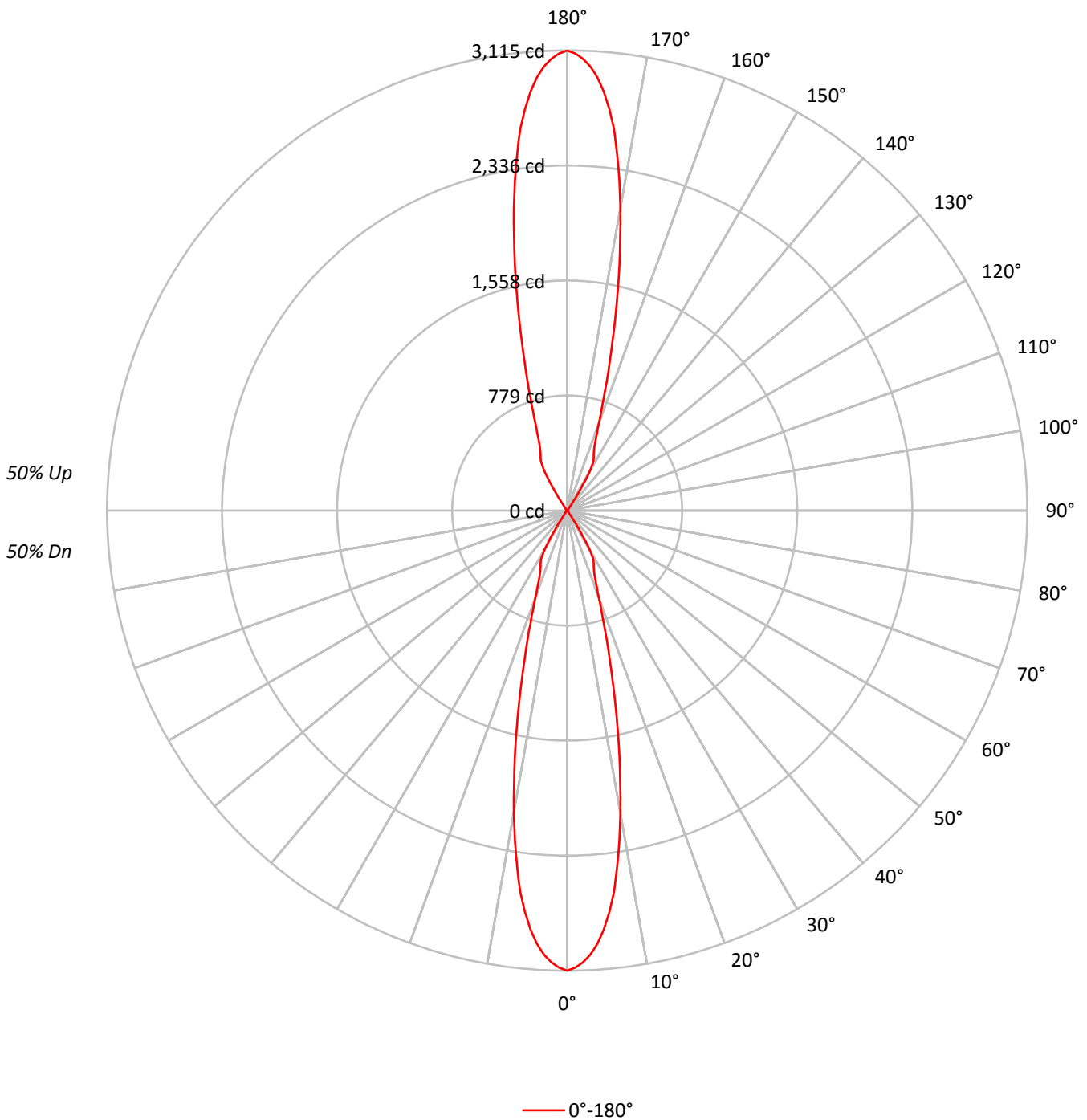
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	384209
5°	352494
10°	260078
15°	151806
20°	82327
25°	58181
30°	42158
35°	5240
40°	1803
45°	715
50°	461
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°	246.8	14.8
10°-20°	331.0	19.8
20°-30°	200.8	12.0
30°-40°	51.4	3.1
40°-50°	3.7	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°	3.7	0.2
140°-150°	51.4	3.1
150°-160°	200.8	12.0
160°-170°	331.0	19.8
170°-180°	246.8	14.8
0°-30°	778.7	46.6
0°-40°	830.1	49.6
0°-60°	835.3	49.9
0°-90°	836.3	50.0
90°-120°	1.0	0.1
90°-150°	57.6	3.4
90°-180°	836.0	50.0
0°-180°	1672.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3115	
5°	2847	247
15°	1189	331
25°	428	201
35°	35	51
45°	4	4
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	4
145°	35	51
155°	428	201
165°	1189	331
175°	2847	247
180°	3115	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3114.9
1°	3094.9
2°	3059.5
3°	3008.8
4°	2939.5
5°	2846.9
6°	2731.4
7°	2601.3
8°	2435.0
9°	2257.6
10°	2076.5
11°	1885.9
12°	1698.7
13°	1519.6
14°	1347.6
15°	1188.8
16°	1046.9
17°	918.8
18°	804.6
19°	708.3
20°	627.2
21°	563.3
22°	512.6
23°	475.1
24°	448.4
25°	427.5
26°	410.6
27°	396.0
28°	378.8
29°	347.4
30°	296.0
32.5°	140.9
35°	34.8
37.5°	18.9
40°	11.2
42.5°	5.1
45°	4.1
47.5°	3.4
50°	2.4
52.5°	2.0
55°	1.7
57.5°	1.4
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°	1.4
125°	1.7
127.5°	2.0
130°	2.4
132.5°	3.4
135°	4.1
137.5°	5.1
140°	11.2
142.5°	18.9
145°	34.8
147.5°	140.9
150°	296.0
151°	347.4
152°	378.8
153°	396.0
154°	410.6
155°	427.5
156°	448.4
157°	475.1
158°	512.6
159°	563.3
160°	627.2
161°	708.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	804.6
163°	918.8
164°	1046.9
165°	1188.8
166°	1347.6
167°	1519.6
168°	1698.7
169°	1885.9
170°	2076.5
171°	2257.6
172°	2435.0
173°	2601.3
174°	2731.4
175°	2846.9
176°	2939.5
177°	3008.8
178°	3059.5
179°	3094.9
180°	3114.9

(END OF REPORT)