

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: P221825

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-M-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221825  
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-L3-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: 4001.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

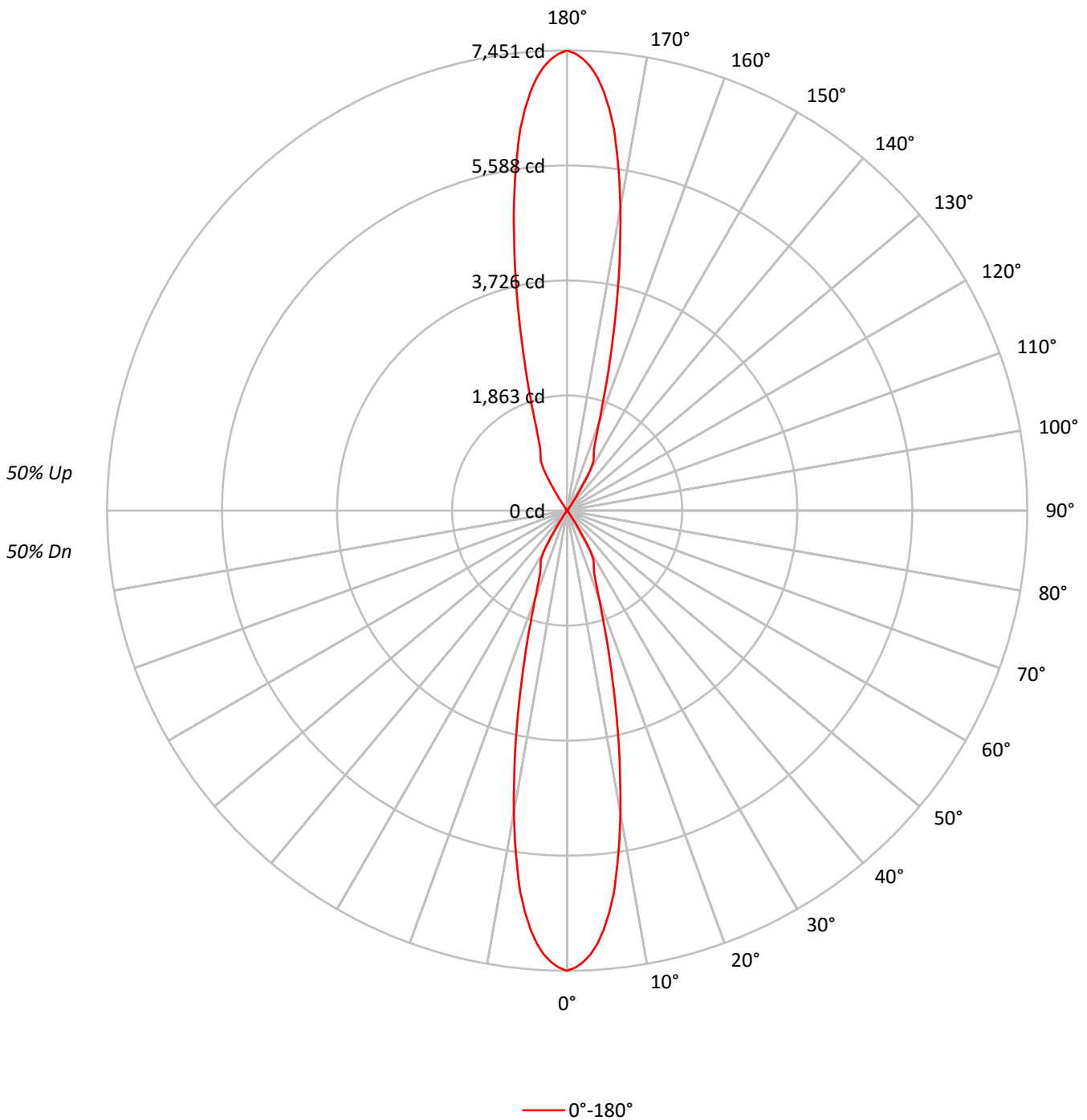
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	919073
5°	843217
10°	622134
15°	363131
20°	196932
25°	139159
30°	100853
35°	12543
40°	4299
45°	1692
50°	1094
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.5	14.8
10°-20°	791.9	19.8
20°-30°	480.4	12.0
30°-40°	122.9	3.1
40°-50°	8.8	0.2
50°-60°	3.6	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.6	0.1
130°-140°	8.8	0.2
140°-150°	122.9	3.1
150°-160°	480.4	12.0
160°-170°	791.9	19.8
170°-180°	590.5	14.8
0°-30°	1862.7	46.6
0°-40°	1985.6	49.6
0°-60°	1998.0	49.9
0°-90°	2000.5	50.0
90°-120°	2.5	0.1
90°-150°	137.8	3.4
90°-180°	2000.0	50.0
0°-180°	4001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7451	
5°	6810	590
15°	2844	792
25°	1022	480
35°	83	123
45°	10	9
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	4
135°	10	9
145°	83	123
155°	1022	480
165°	2844	792
175°	6810	590
180°	7451	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7451.2
1°	7403.5
2°	7318.6
3°	7197.4
4°	7031.6
5°	6810.2
6°	6533.7
7°	6222.5
8°	5824.8
9°	5400.4
10°	4967.2
11°	4511.3
12°	4063.5
13°	3635.1
14°	3223.6
15°	2843.7
16°	2504.2
17°	2197.8
18°	1924.6
19°	1694.3
20°	1500.3
21°	1347.5
22°	1226.2
23°	1136.5
24°	1072.7
25°	1022.5
26°	982.1
27°	947.4
28°	906.1
29°	831.0
30°	708.1
32.5°	337.1
35°	83.3
37.5°	45.3
40°	26.7
42.5°	12.1
45°	9.7
47.5°	8.1
50°	5.7
52.5°	4.8
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
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°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.8
130°	5.7
132.5°	8.1
135°	9.7
137.5°	12.1
140°	26.7
142.5°	45.3
145°	83.3
147.5°	337.1
150°	708.1
151°	831.0
152°	906.1
153°	947.4
154°	982.1
155°	1022.5
156°	1072.7
157°	1136.5
158°	1226.2
159°	1347.5
160°	1500.3
161°	1694.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1924.6
163°	2197.8
164°	2504.2
165°	2843.7
166°	3223.6
167°	3635.1
168°	4063.5
169°	4511.3
170°	4967.2
171°	5400.4
172°	5824.8
173°	6222.5
174°	6533.7
175°	6810.2
176°	7031.6
177°	7197.4
178°	7318.6
179°	7403.5
180°	7451.2

(END OF REPORT)