

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: P221621

Luminaire Tested: **9003-W2-FL-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29477)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9003-W2-FL-LED3590-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH 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: 1423.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: General Diffuse

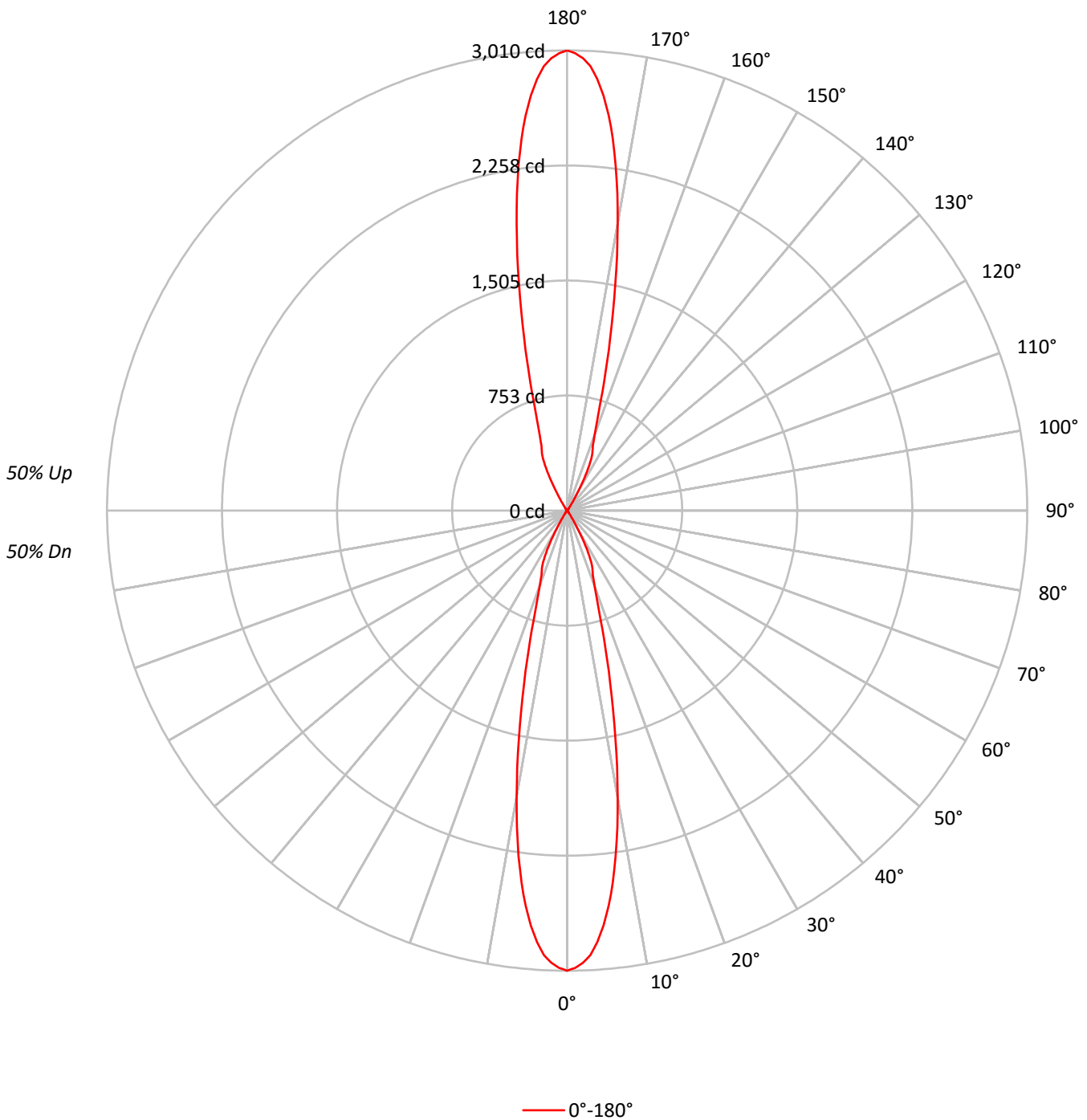
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

**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	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	75	65	64	64	54	54	53	48				
2	95	90	85	82	88	84	80	77	72	70	68	62	60	59	52	51	51	46				
3	89	83	78	73	83	78	73	70	68	65	62	59	57	55	50	49	48	45				
4	85	77	71	67	79	72	68	64	64	60	58	56	54	52	49	47	46	43				
5	80	72	66	62	75	68	63	59	60	57	54	54	51	49	47	46	44	42				
6	76	67	61	57	71	64	59	55	57	54	51	51	49	47	46	44	43	40				
7	72	63	58	54	68	60	55	52	55	51	48	49	47	45	44	42	41	39				
8	69	60	54	50	65	57	52	49	52	48	46	47	45	43	43	41	40	38				
9	66	57	51	48	62	55	50	46	50	46	44	46	43	41	41	40	38	37				
10	63	54	49	45	60	52	47	44	48	44	42	44	41	39	40	38	37	36				

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

	0°
0°	660035
5°	599756
10°	423884
15°	229059
20°	121834
25°	89618
30°	36183
35°	6933
40°	3635
45°	1644
50°	1330
55°	1185
60°	965
65°	934
70°	833
75°	763
80°	505
85°	1006



TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	16.4
10°-20°	284.8	20.0
20°-30°	156.8	11.0
30°-40°	26.0	1.8
40°-50°	4.8	0.3
50°-60°	2.7	0.2
60°-70°	1.7	0.1
70°-80°	0.9	0.1
80°-90°	0.3	0.0
90°-100°	0.3	0.0
100°-110°	0.9	0.1
110°-120°	1.7	0.1
120°-130°	2.7	0.2
130°-140°	4.8	0.3
140°-150°	26.0	1.8
150°-160°	156.8	11.0
160°-170°	284.8	20.0
170°-180°	233.5	16.4
0°-30°	675.0	47.4
0°-40°	701.0	49.3
0°-60°	708.5	49.8
0°-90°	711.5	50.0
90°-120°	3.0	0.2
90°-150°	36.5	2.6
90°-180°	711.0	50.0
0°-180°	1423.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3010	
5°	2725	233
15°	1009	285
25°	370	157
35°	26	26
45°	5	5
55°	3	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	3	3
135°	5	5
145°	26	26
155°	370	157
165°	1009	285
175°	2725	233
180°	3010	



TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3010.0
1°	2991.6
2°	2960.5
3°	2911.4
4°	2828.1
5°	2724.7
6°	2599.8
7°	2451.2
8°	2282.0
9°	2096.6
10°	1903.7
11°	1709.1
12°	1518.0
13°	1335.2
14°	1166.4
15°	1009.0
16°	873.2
17°	750.9
18°	655.3
19°	579.0
20°	522.1
21°	478.7
22°	447.1
23°	424.7
24°	402.4
25°	370.4
26°	330.5
27°	285.8
28°	237.1
29°	189.4
30°	142.9
32.5°	51.7
35°	25.9
37.5°	18.4
40°	12.7
42.5°	6.6
45°	5.3
47.5°	4.8
50°	3.9
52.5°	3.5
55°	3.1
57.5°	2.6
60°	2.2
62.5°	2.2
65°	1.8



TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.3
70°	1.3
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.4
97.5°	0.4
100°	0.4
102.5°	0.9
105°	0.9
107.5°	0.9
110°	1.3
112.5°	1.3
115°	1.8
117.5°	2.2
120°	2.2
122.5°	2.6
125°	3.1
127.5°	3.5
130°	3.9
132.5°	4.8
135°	5.3
137.5°	6.6
140°	12.7
142.5°	18.4
145°	25.9
147.5°	51.7
150°	142.9
151°	189.4
152°	237.1
153°	285.8
154°	330.5
155°	370.4
156°	402.4
157°	424.7
158°	447.1
159°	478.7
160°	522.1
161°	579.0



TEST NUMBER: P221621

CATALOG NUMBER: 9003-W2-FL-LED3590-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	655.3
163°	750.9
164°	873.2
165°	1009.0
166°	1166.4
167°	1335.2
168°	1518.0
169°	1709.1
170°	1903.7
171°	2096.6
172°	2282.0
173°	2451.2
174°	2599.8
175°	2724.7
176°	2828.1
177°	2911.4
178°	2960.5
179°	2991.6
180°	3010.0

(END OF REPORT)