

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: P221829

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1677.3 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

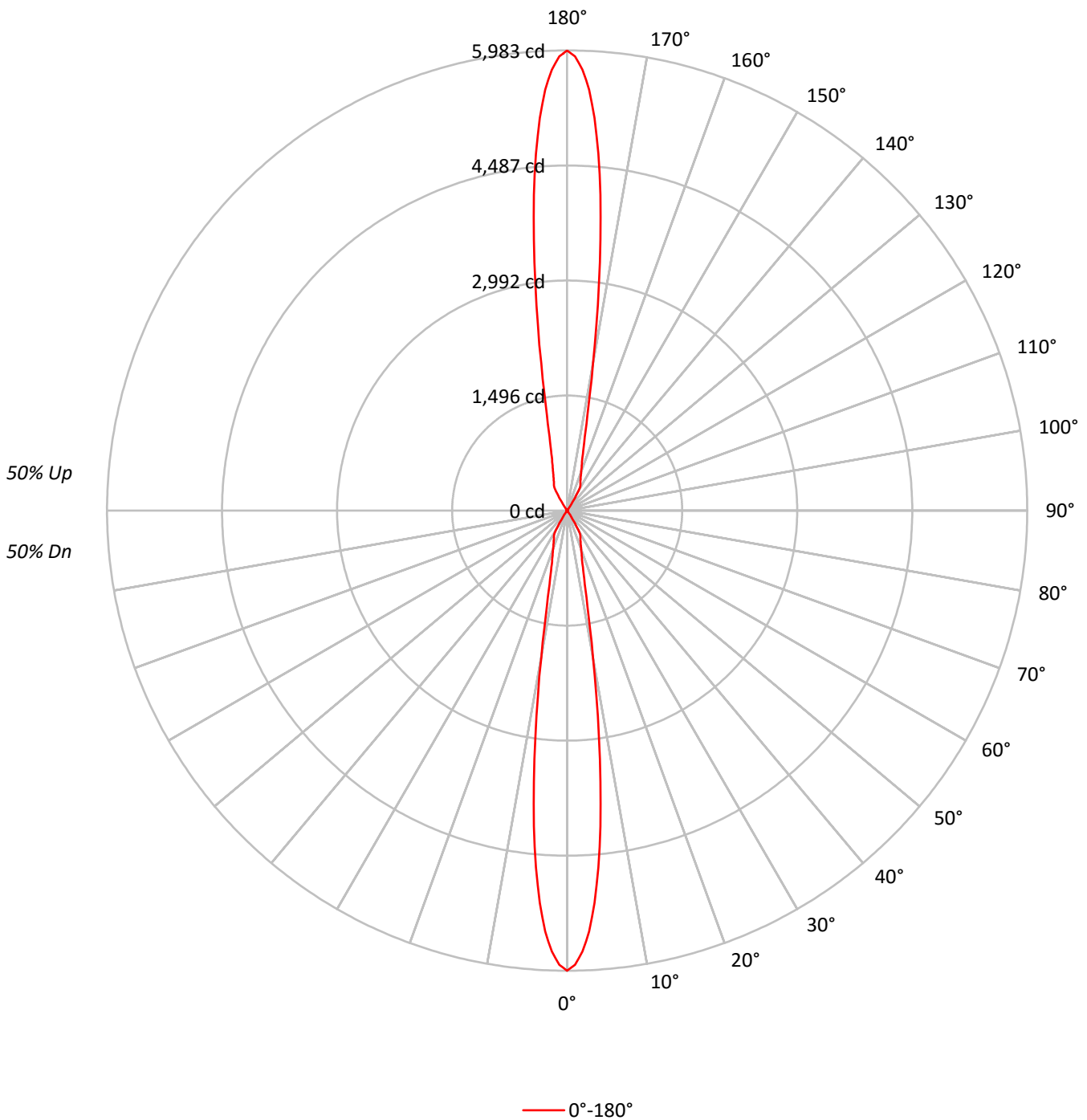
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

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

	0°
0°	737940
5°	576540
10°	242844
15°	102911
20°	69687
25°	55323
30°	40962
35°	3719
40°	1353
45°	419
50°	326
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°	350.5	20.9
10°-20°	247.7	14.8
20°-30°	189.1	11.3
30°-40°	46.4	2.8
40°-50°	2.5	0.1
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	1.4	0.1
130°-140°	2.5	0.1
140°-150°	46.4	2.8
150°-160°	189.1	11.3
160°-170°	247.7	14.8
170°-180°	350.5	20.9
0°-30°	787.3	46.9
0°-40°	833.7	49.7
0°-60°	837.5	49.9
0°-90°	838.6	50.0
90°-120°	1.2	0.1
90°-150°	51.4	3.1
90°-180°	839.0	50.0
0°-180°	1677.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5983	
5°	4656	351
15°	806	248
25°	406	189
35°	25	46
45°	2	2
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°	2	2
145°	25	46
155°	406	189
165°	806	248
175°	4656	351
180°	5983	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5982.7
1°	5906.0
2°	5737.1
3°	5477.9
4°	5115.0
5°	4656.4
6°	4129.3
7°	3550.1
8°	2966.9
9°	2433.0
10°	1938.9
11°	1547.6
12°	1261.1
13°	1058.3
14°	914.1
15°	805.9
16°	722.8
17°	662.3
18°	614.3
19°	569.4
20°	530.9
22.5°	457.9
25°	406.5
26°	392.7
27°	381.2
28°	369.7
29°	339.3
30°	287.6
32.5°	129.4
35°	24.7
37.5°	13.5
40°	8.4
42.5°	3.7
45°	2.4
47.5°	2.0
50°	1.7
52.5°	1.7
55°	1.7
57.5°	1.4
60°	1.0
62.5°	1.0
65°	0.7
67.5°	0.3
70°	0.3
72.5°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
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°	1.7
130°	1.7
132.5°	2.0
135°	2.4
137.5°	3.7
140°	8.4
142.5°	13.5
145°	24.7
147.5°	129.4
150°	287.6
151°	339.3
152°	369.7
153°	381.2
154°	392.7
155°	406.5
157.5°	457.9
160°	530.9
161°	569.4
162°	614.3
163°	662.3
164°	722.8
165°	805.9
166°	914.1
167°	1058.3



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1261.1
169°	1547.6
170°	1938.9
171°	2433.0
172°	2966.9
173°	3550.1
174°	4129.3
175°	4656.4
176°	5115.0
177°	5477.9
178°	5737.1
179°	5906.0
180°	5982.7

(END OF REPORT)