

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: P222070

Luminaire Tested: **9004-W2-FL-LED3590-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED3590-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

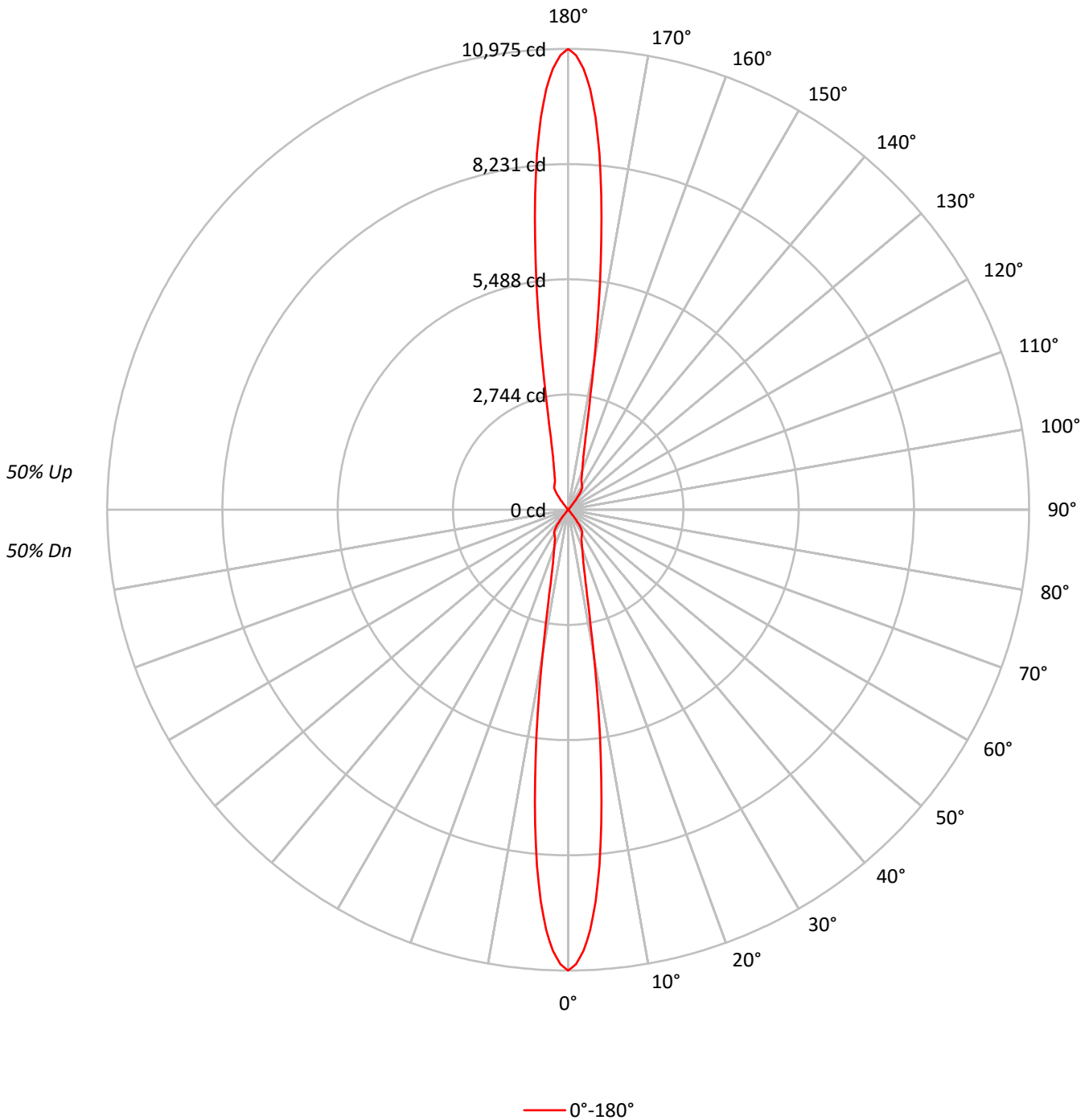
Lumens per Lamp: N/A  
Luminaire Lumens: 3495.5 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 40.2  
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	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

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

	0°
0°	1353694
5°	1053718
10°	438871
15°	185556
20°	127350
25°	101637
30°	93931
35°	76855
40°	16182
45°	3698
50°	1324
55°	1075
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.6	18.3
10°-20°	448.2	12.8
20°-30°	353.3	10.1
30°-40°	278.2	8.0
40°-50°	22.5	0.6
50°-60°	4.4	0.1
60°-70°	1.1	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.1	0.0
120°-130°	4.4	0.1
130°-140°	22.5	0.6
140°-150°	278.2	8.0
150°-160°	353.3	10.1
160°-170°	448.2	12.8
170°-180°	639.6	18.3
0°-30°	1441.1	41.2
0°-40°	1719.2	49.2
0°-60°	1746.1	50.0
0°-90°	1747.7	50.0
90°-120°	1.7	0.0
90°-150°	306.7	8.8
90°-180°	1748.0	50.0
0°-180°	3495.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10975	
5°	8510	640
15°	1453	448
25°	747	353
35°	510	278
45°	21	22
55°	5	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	5	4
135°	21	22
145°	510	278
155°	747	353
165°	1453	448
175°	8510	640
180°	10975	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10974.8
1°	10823.8
2°	10510.0
3°	10023.3
4°	9357.6
5°	8510.3
6°	7532.0
7°	6475.1
8°	5438.1
9°	4394.3
10°	3504.0
11°	2793.3
12°	2277.9
13°	1913.0
14°	1648.4
15°	1453.1
16°	1306.5
17°	1199.2
18°	1117.4
19°	1039.5
20°	970.2
21°	912.8
22°	861.6
23°	816.7
24°	777.4
25°	746.8
26°	723.8
27°	706.3
28°	689.4
29°	674.5
30°	659.5
32.5°	622.1
35°	510.4
37.5°	304.5
40°	100.5
42.5°	29.9
45°	21.2
47.5°	15.0
50°	6.9
52.5°	6.2
55°	5.0
57.5°	3.7
60°	2.5
62.5°	1.2
65°	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
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°	0.0
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	2.5
122.5°	3.7
125°	5.0
127.5°	6.2
130°	6.9
132.5°	15.0
135°	21.2
137.5°	29.9
140°	100.5
142.5°	304.5
145°	510.4
147.5°	622.1
150°	659.5
151°	674.5
152°	689.4
153°	706.3
154°	723.8
155°	746.8
156°	777.4
157°	816.7
158°	861.6
159°	912.8
160°	970.2
161°	1039.5



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1117.4
163°	1199.2
164°	1306.5
165°	1453.1
166°	1648.4
167°	1913.0
168°	2277.9
169°	2793.3
170°	3504.0
171°	4394.3
172°	5438.1
173°	6475.1
174°	7532.0
175°	8510.3
176°	9357.6
177°	10023.3
178°	10510.0
179°	10823.8
180°	10974.8

(END OF REPORT)