

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: P221821

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-F-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
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-F-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3367.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

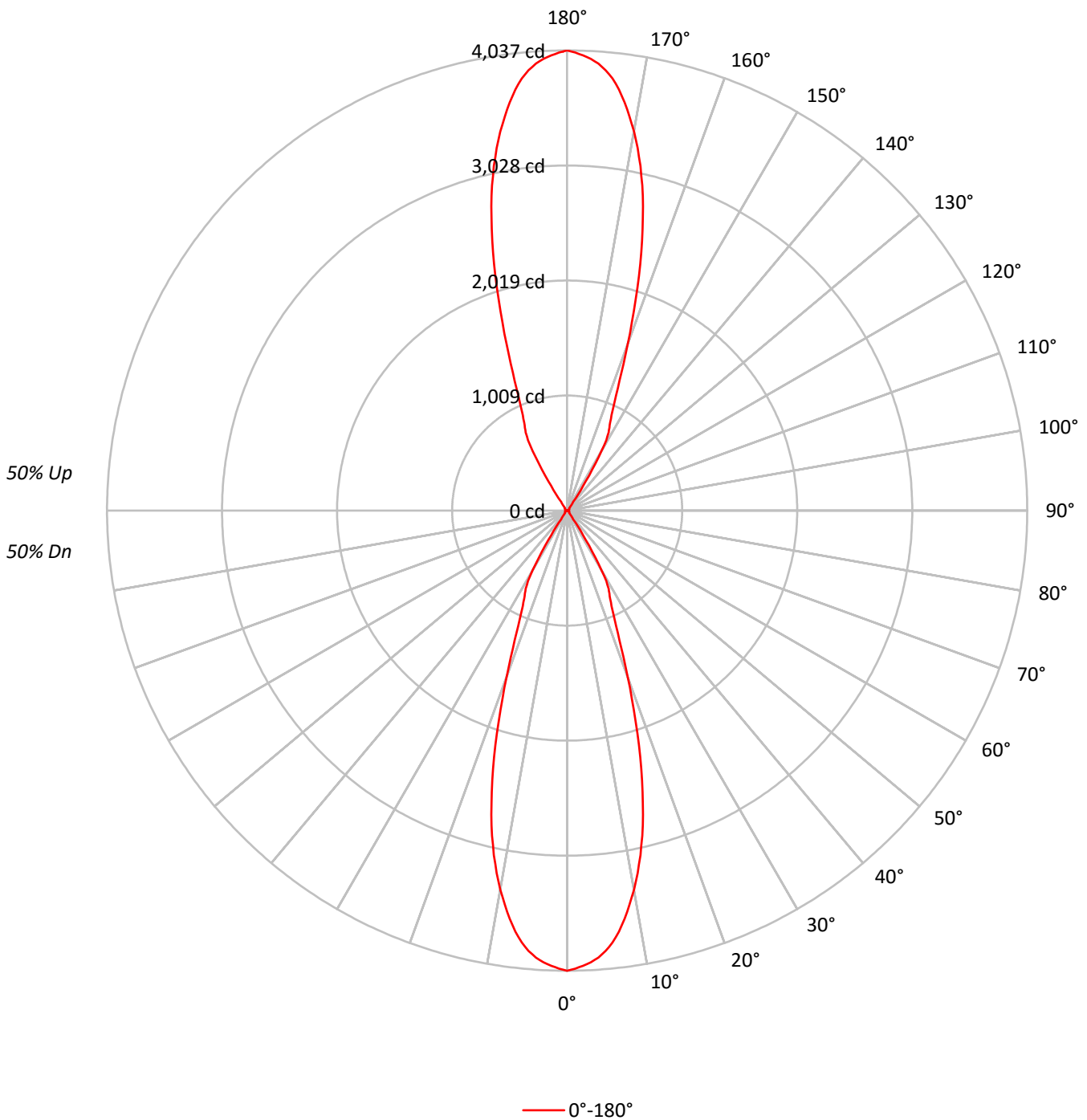
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

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

	0°
0°	497996
5°	480199
10°	422851
15°	326508
20°	203849
25°	125509
30°	86026
35°	13522
40°	6135
45°	4134
50°	4318
55°	4688
60°	5230
65°	5837
70°	6744
75°	8340
80°	9731
85°	9765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.1	10.5
10°-20°	686.6	20.4
20°-30°	444.6	13.2
30°-40°	114.4	3.4
40°-50°	19.5	0.6
50°-60°	19.7	0.6
60°-70°	19.8	0.6
70°-80°	17.8	0.5
80°-90°	7.5	0.2
90°-100°	7.5	0.2
100°-110°	17.8	0.5
110°-120°	19.8	0.6
120°-130°	19.7	0.6
130°-140°	19.5	0.6
140°-150°	114.4	3.4
150°-160°	444.6	13.2
160°-170°	686.6	20.4
170°-180°	354.1	10.5
0°-30°	1485.3	44.1
0°-40°	1599.6	47.5
0°-60°	1638.9	48.7
0°-90°	1683.9	50.0
90°-120°	45.1	1.3
90°-150°	198.7	5.9
90°-180°	1684.0	50.0
0°-180°	3367.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4037	
5°	3878	354
15°	2557	687
25°	922	445
35°	90	114
45°	24	20
55°	22	20
65°	20	20
75°	18	18
85°	7	7
90°	0	1
95°	7	7
105°	18	18
115°	20	20
125°	22	20
135°	24	20
145°	90	114
155°	922	445
165°	2557	687
175°	3878	354
180°	4037	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4037.4
1°	4019.3
2°	3995.6
3°	3967.5
4°	3931.4
5°	3878.3
6°	3810.9
7°	3723.0
8°	3617.5
9°	3500.2
10°	3376.1
11°	3240.0
12°	3090.3
13°	2928.1
14°	2750.3
15°	2556.9
16°	2357.2
17°	2151.9
18°	1946.0
19°	1743.3
20°	1553.0
21°	1378.9
22°	1227.3
23°	1099.4
24°	998.9
25°	922.2
26°	861.6
27°	814.8
28°	775.5
29°	706.9
30°	604.0
32.5°	302.0
35°	89.8
37.5°	57.4
40°	38.1
42.5°	24.3
45°	23.7
47.5°	23.1
50°	22.5
52.5°	22.5
55°	21.8
57.5°	21.8
60°	21.2
62.5°	20.6
65°	20.0

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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.3
70°	18.7
72.5°	18.1
75°	17.5
77.5°	15.6
80°	13.7
82.5°	10.6
85°	6.9
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.9
97.5°	10.6
100°	13.7
102.5°	15.6
105°	17.5
107.5°	18.1
110°	18.7
112.5°	19.3
115°	20.0
117.5°	20.6
120°	21.2
122.5°	21.8
125°	21.8
127.5°	22.5
130°	22.5
132.5°	23.1
135°	23.7
137.5°	24.3
140°	38.1
142.5°	57.4
145°	89.8
147.5°	302.0
150°	604.0
151°	706.9
152°	775.5
153°	814.8
154°	861.6
155°	922.2
156°	998.9
157°	1099.4
158°	1227.3
159°	1378.9
160°	1553.0
161°	1743.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1946.0
163°	2151.9
164°	2357.2
165°	2556.9
166°	2750.3
167°	2928.1
168°	3090.3
169°	3240.0
170°	3376.1
171°	3500.2
172°	3617.5
173°	3723.0
174°	3810.9
175°	3878.3
176°	3931.4
177°	3967.5
178°	3995.6
179°	4019.3
180°	4037.4

(END OF REPORT)