

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: P221818

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)  
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-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3133.9 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

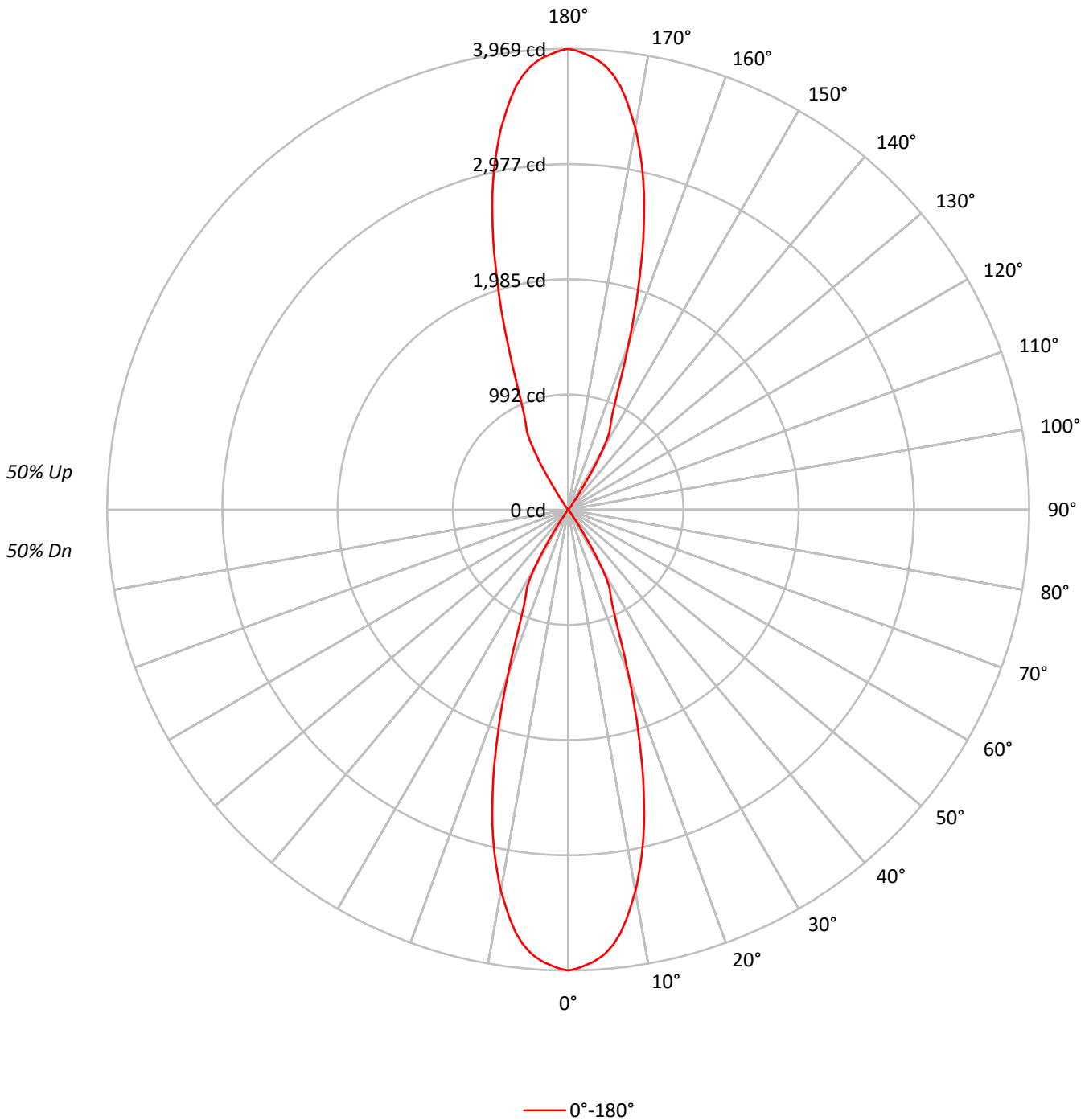
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61		58	56	54		50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53		52	50	48		46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46		48	45	43		42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44		45	43	40		41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41		43	41	39		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	35	33

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

	0°
0°	489534
5°	473327
10°	417378
15°	321323
20°	199334
25°	121943
30°	82992
35°	10992
40°	3108
45°	768
50°	595
55°	409
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.2	11.1
10°-20°	675.0	21.5
20°-30°	432.8	13.8
30°-40°	102.0	3.3
40°-50°	4.8	0.2
50°-60°	1.9	0.1
60°-70°	1.0	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.0	0.0
120°-130°	1.9	0.1
130°-140°	4.8	0.2
140°-150°	102.0	3.3
150°-160°	432.8	13.8
160°-170°	675.0	21.5
170°-180°	349.2	11.1
0°-30°	1457.0	46.5
0°-40°	1559.0	49.7
0°-60°	1565.7	50.0
0°-90°	1566.9	50.0
90°-120°	1.4	0.0
90°-150°	110.1	3.5
90°-180°	1567.0	50.0
0°-180°	3133.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3969	
5°	3823	349
15°	2516	675
25°	896	433
35°	73	102
45°	4	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	5
145°	73	102
155°	896	433
165°	2516	675
175°	3823	349
180°	3969	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3968.8
1°	3954.4
2°	3931.3
3°	3905.1
4°	3870.8
5°	3822.8
6°	3758.5
7°	3676.8
8°	3570.7
9°	3455.3
10°	3332.4
11°	3193.2
12°	3044.1
13°	2882.5
14°	2703.5
15°	2516.3
16°	2317.9
17°	2112.6
18°	1908.0
19°	1709.6
20°	1518.6
21°	1348.9
22°	1197.3
23°	1070.0
24°	973.3
25°	896.0
26°	837.9
27°	793.0
28°	753.1
29°	685.1
30°	582.7
32.5°	278.3
35°	73.0
37.5°	38.7
40°	19.3
42.5°	6.2
45°	4.4
47.5°	3.7
50°	3.1
52.5°	2.5
55°	1.9
57.5°	1.9
60°	1.2
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°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.9
125°	1.9
127.5°	2.5
130°	3.1
132.5°	3.7
135°	4.4
137.5°	6.2
140°	19.3
142.5°	38.7
145°	73.0
147.5°	278.3
150°	582.7
151°	685.1
152°	753.1
153°	793.0
154°	837.9
155°	896.0
156°	973.3
157°	1070.0
158°	1197.3
159°	1348.9
160°	1518.6
161°	1709.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1908.0
163°	2112.6
164°	2317.9
165°	2516.3
166°	2703.5
167°	2882.5
168°	3044.1
169°	3193.2
170°	3332.4
171°	3455.3
172°	3570.7
173°	3676.8
174°	3758.5
175°	3822.8
176°	3870.8
177°	3905.1
178°	3931.3
179°	3954.4
180°	3968.8

(END OF REPORT)