

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: P221824

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)  
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-M-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 3088.2 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

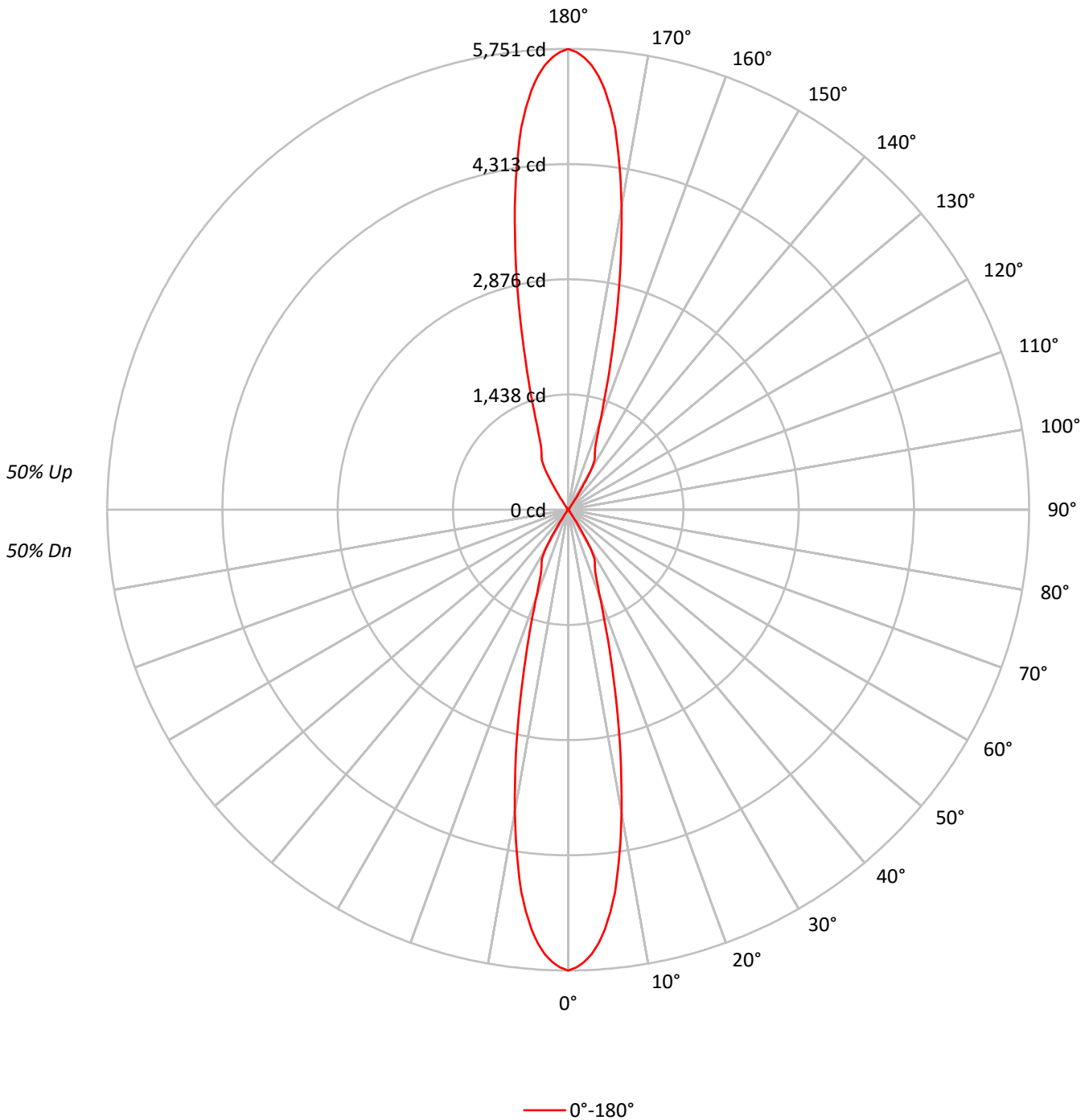
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

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

	0°
0°	709398
5°	650855
10°	480202
15°	280294
20°	152001
25°	107421
30°	77851
35°	9682
40°	3317
45°	1308
50°	844
55°	667
60°	469
65°	350
70°	216
75°	286
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.8	14.8
10°-20°	611.2	19.8
20°-30°	370.8	12.0
30°-40°	94.9	3.1
40°-50°	6.8	0.2
50°-60°	2.8	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.8	0.1
130°-140°	6.8	0.2
140°-150°	94.9	3.1
150°-160°	370.8	12.0
160°-170°	611.2	19.8
170°-180°	455.8	14.8
0°-30°	1437.8	46.6
0°-40°	1532.6	49.6
0°-60°	1542.2	49.9
0°-90°	1544.1	50.0
90°-120°	1.9	0.1
90°-150°	106.3	3.4
90°-180°	1544.0	50.0
0°-180°	3088.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5751	
5°	5257	456
15°	2195	611
25°	789	371
35°	64	95
45°	8	7
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	8	7
145°	64	95
155°	789	371
165°	2195	611
175°	5257	456
180°	5751	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5751.3
1°	5714.5
2°	5649.0
3°	5555.4
4°	5427.5
5°	5256.6
6°	5043.2
7°	4803.0
8°	4496.0
9°	4168.4
10°	3834.0
11°	3482.1
12°	3136.5
13°	2805.8
14°	2488.2
15°	2195.0
16°	1932.9
17°	1696.5
18°	1485.6
19°	1307.7
20°	1158.0
21°	1040.1
22°	946.5
23°	877.2
24°	827.9
25°	789.3
26°	758.1
27°	731.2
28°	699.4
29°	641.4
30°	546.6
32.5°	260.2
35°	64.3
37.5°	34.9
40°	20.6
42.5°	9.4
45°	7.5
47.5°	6.2
50°	4.4
52.5°	3.7
55°	3.1
57.5°	2.5
60°	1.9
62.5°	1.9
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°	0.6
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°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.9
120°	1.9
122.5°	2.5
125°	3.1
127.5°	3.7
130°	4.4
132.5°	6.2
135°	7.5
137.5°	9.4
140°	20.6
142.5°	34.9
145°	64.3
147.5°	260.2
150°	546.6
151°	641.4
152°	699.4
153°	731.2
154°	758.1
155°	789.3
156°	827.9
157°	877.2
158°	946.5
159°	1040.1
160°	1158.0
161°	1307.7



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1485.6
163°	1696.5
164°	1932.9
165°	2195.0
166°	2488.2
167°	2805.8
168°	3136.5
169°	3482.1
170°	3834.0
171°	4168.4
172°	4496.0
173°	4803.0
174°	5043.2
175°	5256.6
176°	5427.5
177°	5555.4
178°	5649.0
179°	5714.5
180°	5751.3

(END OF REPORT)