

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: P222077

Luminaire Tested: **9004-W2-FL-LED3590-W-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)  
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-W-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4510.6 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

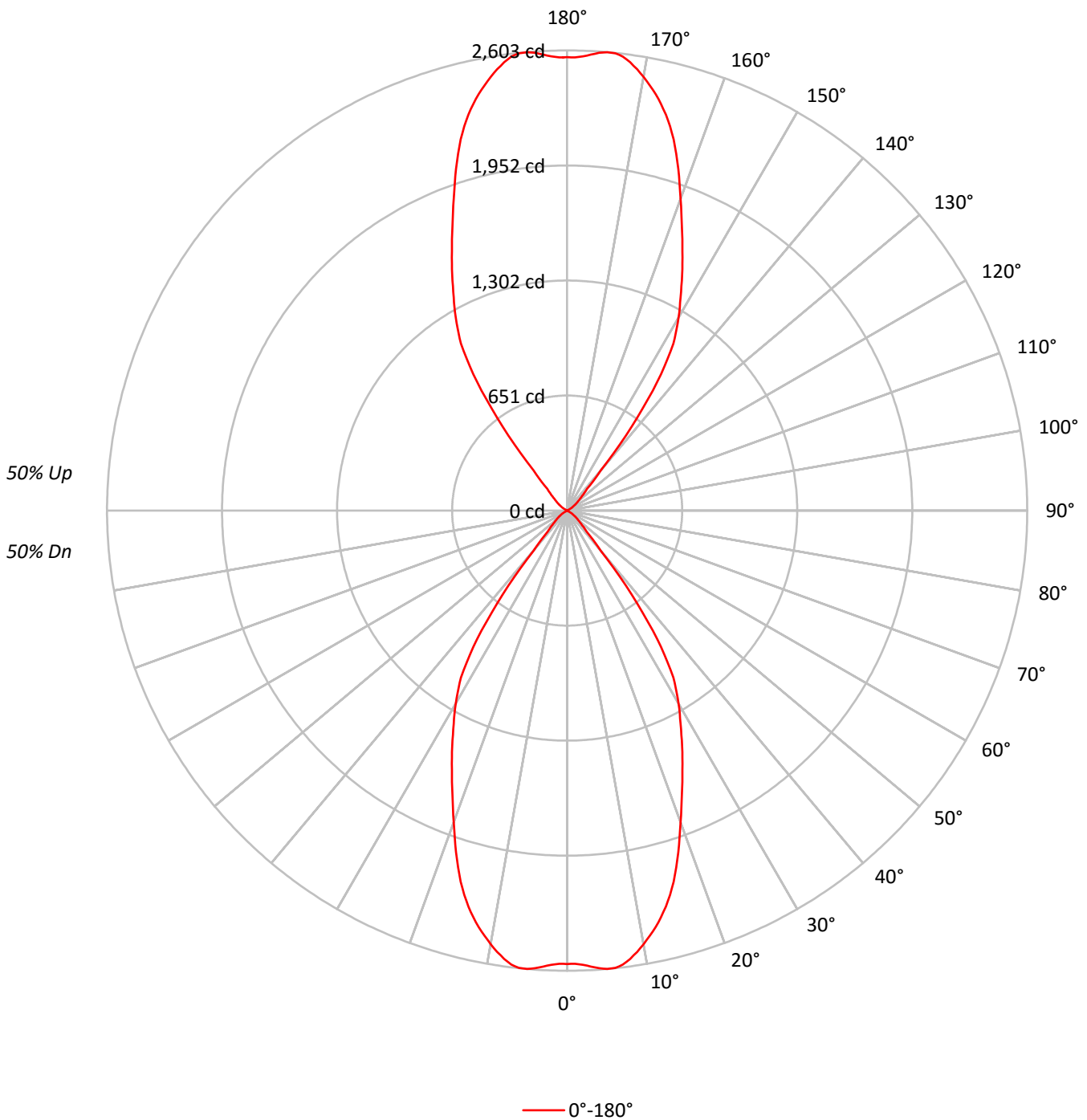
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	90	87	85	76	75	73	64	63	62	53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65	60	58	56	50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58	56	53	51	47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52	52	49	47	44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43	45	42	39	39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40	42	39	36	37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37	40	36	34	35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34	37	34	31	33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32	35	32	29	31	29	27	25

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

	0°
0°	316357
5°	322270
10°	312031
15°	287369
20°	246260
25°	210011
30°	179601
35°	134255
40°	47629
45°	22276
50°	14737
55°	9914
60°	4983
65°	1167
70°	866
75°	763
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	5.4
10°-20°	621.1	13.8
20°-30°	709.0	15.7
30°-40°	520.5	11.5
40°-50°	110.5	2.4
50°-60°	41.8	0.9
60°-70°	5.9	0.1
70°-80°	1.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.6	0.0
110°-120°	5.9	0.1
120°-130°	41.8	0.9
130°-140°	110.5	2.4
140°-150°	520.5	11.5
150°-160°	709.0	15.7
160°-170°	621.1	13.8
170°-180°	244.9	5.4
0°-30°	1575.1	34.9
0°-40°	2095.6	46.5
0°-60°	2247.8	49.8
0°-90°	2255.3	50.0
90°-120°	7.5	0.2
90°-150°	680.3	15.1
90°-180°	2255.0	50.0
0°-180°	4510.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2565	
5°	2603	245
15°	2250	621
25°	1543	709
35°	892	521
45°	128	110
55°	46	42
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	46	42
135°	128	110
145°	892	521
155°	1543	709
165°	2250	621
175°	2603	245
180°	2565	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2564.8
1°	2564.0
2°	2570.5
3°	2583.4
4°	2595.5
5°	2602.8
6°	2601.2
7°	2587.5
8°	2560.8
9°	2527.6
10°	2491.3
11°	2450.0
12°	2408.0
13°	2360.3
14°	2308.6
15°	2250.4
16°	2184.1
17°	2110.5
18°	2034.6
19°	1954.5
20°	1876.1
21°	1803.4
22°	1733.1
23°	1666.8
24°	1603.7
25°	1543.1
26°	1484.1
27°	1424.3
28°	1366.9
29°	1313.5
30°	1261.0
32.5°	1119.5
35°	891.6
37.5°	602.2
40°	295.8
42.5°	166.5
45°	127.7
47.5°	100.2
50°	76.8
52.5°	60.6
55°	46.1
57.5°	33.1
60°	20.2
62.5°	5.7
65°	4.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.2
70°	2.4
72.5°	2.4
75°	1.6
77.5°	0.8
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°	0.8
105°	1.6
107.5°	2.4
110°	2.4
112.5°	3.2
115°	4.0
117.5°	5.7
120°	20.2
122.5°	33.1
125°	46.1
127.5°	60.6
130°	76.8
132.5°	100.2
135°	127.7
137.5°	166.5
140°	295.8
142.5°	602.2
145°	891.6
147.5°	1119.5
150°	1261.0
151°	1313.5
152°	1366.9
153°	1424.3
154°	1484.1
155°	1543.1
156°	1603.7
157°	1666.8
158°	1733.1
159°	1803.4
160°	1876.1
161°	1954.5



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	2034.6
163°	2110.5
164°	2184.1
165°	2250.4
166°	2308.6
167°	2360.3
168°	2408.0
169°	2450.0
170°	2491.3
171°	2527.6
172°	2560.8
173°	2587.5
174°	2601.2
175°	2602.8
176°	2595.5
177°	2583.4
178°	2570.5
179°	2564.0
180°	2564.8

(END OF REPORT)