

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: P222149

Luminaire Tested: **9004-W2-FL-LED4097-W-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222149  
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-LED4097-W-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4424.8 lumens  
Efficiency: N/A  
Efficacy: 77.6 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

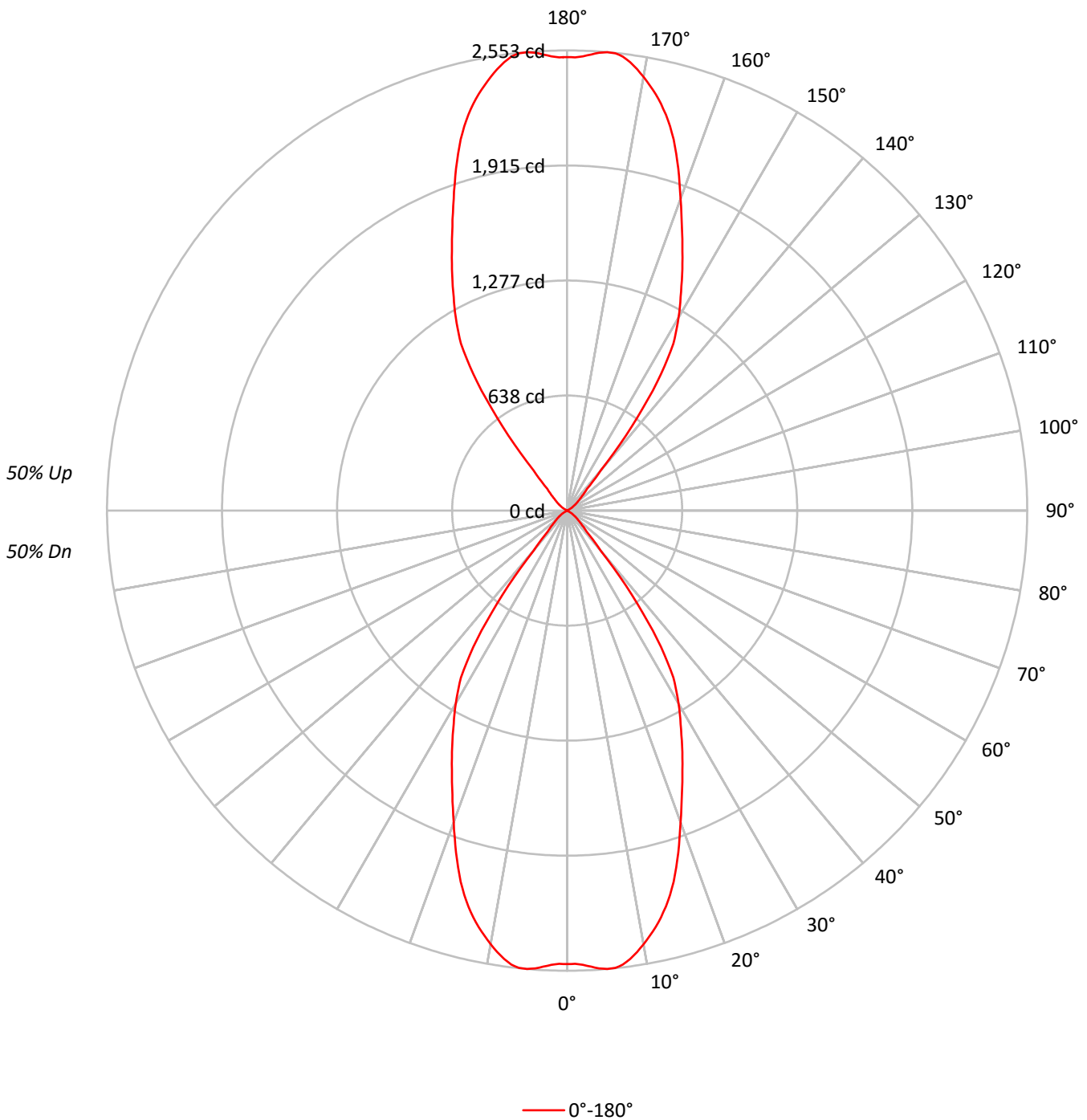
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	43	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°	310325
5°	316117
10°	306070
15°	281878
20°	241561
25°	206010
30°	176168
35°	131695
40°	46727
45°	21857
50°	14449
55°	9720
60°	4884
65°	1167
70°	866
75°	763
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.2	5.4
10°-20°	609.3	13.8
20°-30°	695.5	15.7
30°-40°	510.6	11.5
40°-50°	108.4	2.4
50°-60°	41.0	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°	41.0	0.9
130°-140°	108.4	2.4
140°-150°	510.6	11.5
150°-160°	695.5	15.7
160°-170°	609.3	13.8
170°-180°	240.2	5.4
0°-30°	1545.0	34.9
0°-40°	2055.6	46.5
0°-60°	2205.0	49.8
0°-90°	2212.4	50.0
90°-120°	7.4	0.2
90°-150°	667.4	15.1
90°-180°	2212.0	50.0
0°-180°	4424.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2516	
5°	2553	240
15°	2207	609
25°	1514	696
35°	875	511
45°	125	108
55°	45	41
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	45	41
135°	125	108
145°	875	511
155°	1514	696
165°	2207	609
175°	2553	240
180°	2516	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2515.9
1°	2515.1
2°	2521.4
3°	2534.1
4°	2546.0
5°	2553.1
6°	2551.6
7°	2538.1
8°	2511.9
9°	2479.4
10°	2443.7
11°	2403.3
12°	2362.1
13°	2315.3
14°	2264.5
15°	2207.4
16°	2142.4
17°	2070.3
18°	1995.7
19°	1917.2
20°	1840.3
21°	1769.0
22°	1700.0
23°	1635.0
24°	1573.1
25°	1513.7
26°	1455.8
27°	1397.1
28°	1340.8
29°	1288.5
30°	1236.9
32.5°	1098.2
35°	874.6
37.5°	590.7
40°	290.2
42.5°	163.3
45°	125.3
47.5°	98.3
50°	75.3
52.5°	59.5
55°	45.2
57.5°	32.5
60°	19.8
62.5°	5.6
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°	5.6
120°	19.8
122.5°	32.5
125°	45.2
127.5°	59.5
130°	75.3
132.5°	98.3
135°	125.3
137.5°	163.3
140°	290.2
142.5°	590.7
145°	874.6
147.5°	1098.2
150°	1236.9
151°	1288.5
152°	1340.8
153°	1397.1
154°	1455.8
155°	1513.7
156°	1573.1
157°	1635.0
158°	1700.0
159°	1769.0
160°	1840.3
161°	1917.2



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1995.7
163°	2070.3
164°	2142.4
165°	2207.4
166°	2264.5
167°	2315.3
168°	2362.1
169°	2403.3
170°	2443.7
171°	2479.4
172°	2511.9
173°	2538.1
174°	2551.6
175°	2553.1
176°	2546.0
177°	2534.1
178°	2521.4
179°	2515.1
180°	2515.9

(END OF REPORT)