

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: P221904

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-S-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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]-LED4097-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1751.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

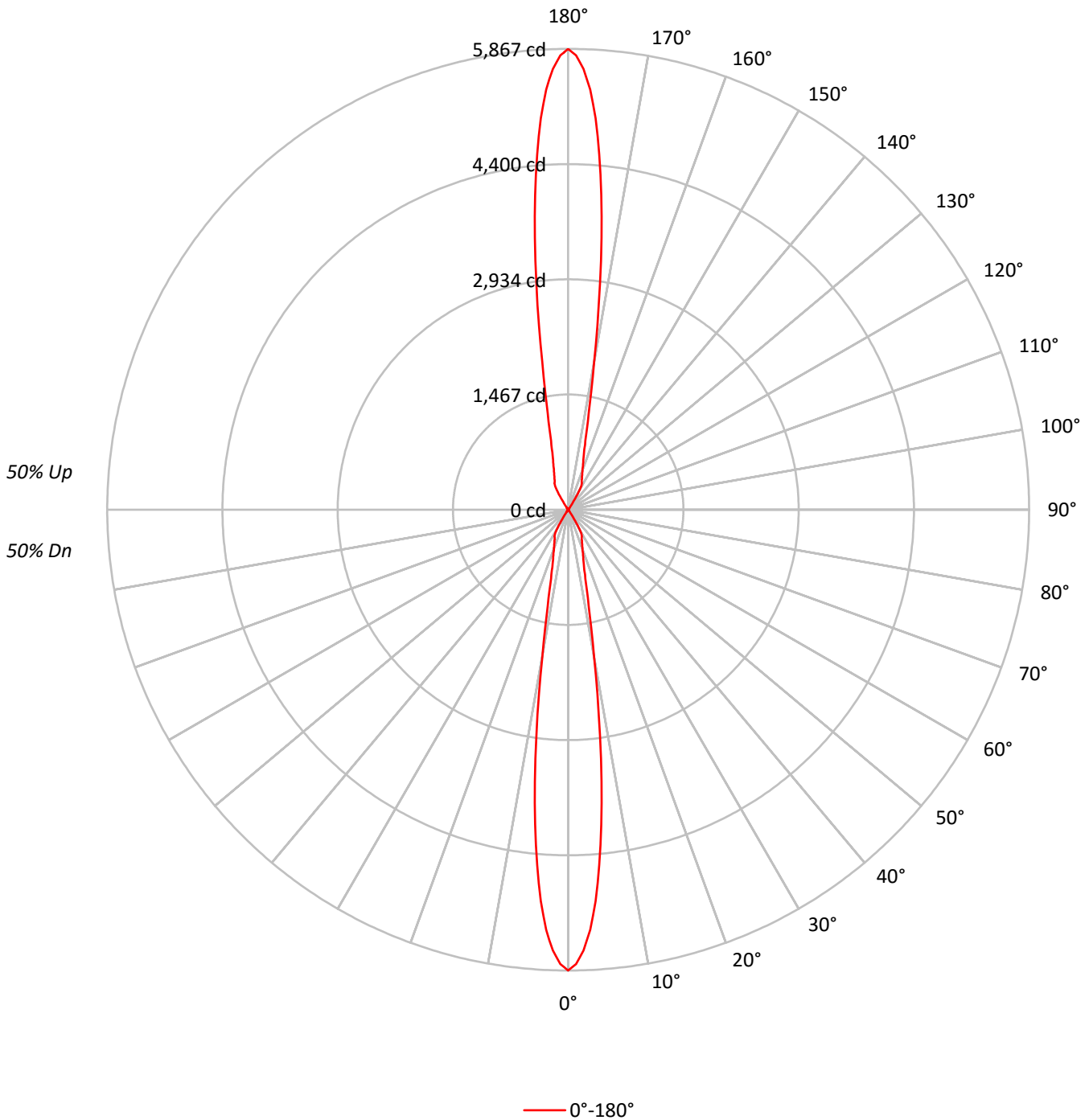
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	93	90	88	86	77	75	74	65	64	63	54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45	47	44	42	42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43	45	42	40	41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41	43	41	39	40	38	36	35

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

	0°
0°	723656
5°	562339
10°	238298
15°	101876
20°	69569
25°	55446
30°	41446
35°	5496
40°	2930
45°	2146
50°	2284
55°	2495
60°	2788
65°	3181
70°	3715
75°	4432
80°	5185
85°	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	19.6
10°-20°	245.6	14.0
20°-30°	189.5	10.8
30°-40°	52.5	3.0
40°-50°	10.2	0.6
50°-60°	10.4	0.6
60°-70°	10.8	0.6
70°-80°	9.7	0.6
80°-90°	4.1	0.2
90°-100°	4.1	0.2
100°-110°	9.7	0.6
110°-120°	10.8	0.6
120°-130°	10.4	0.6
130°-140°	10.2	0.6
140°-150°	52.5	3.0
150°-160°	189.5	10.8
160°-170°	245.6	14.0
170°-180°	342.7	19.6
0°-30°	777.8	44.4
0°-40°	830.4	47.4
0°-60°	850.9	48.6
0°-90°	875.5	50.0
90°-120°	24.5	1.4
90°-150°	97.6	5.6
90°-180°	875.0	50.0
0°-180°	1751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5867	
5°	4542	343
15°	798	246
25°	407	190
35°	36	53
45°	12	10
55°	12	10
65°	11	11
75°	9	10
85°	4	4
90°	0	0
95°	4	4
105°	9	10
115°	11	11
125°	12	10
135°	12	10
145°	36	53
155°	407	190
165°	798	246
175°	4542	343
180°	5867	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5866.9
1°	5784.7
2°	5614.4
3°	5355.5
4°	4995.5
5°	4541.7
6°	4029.3
7°	3488.3
8°	2902.6
9°	2371.6
10°	1902.6
11°	1533.0
12°	1252.6
13°	1049.8
14°	906.2
15°	797.8
16°	717.3
17°	657.0
18°	609.6
19°	568.1
20°	530.0
22.5°	459.1
25°	407.4
26°	394.1
27°	382.8
28°	369.3
29°	339.8
30°	291.0
32.5°	139.9
35°	36.5
37.5°	23.5
40°	18.2
42.5°	13.6
45°	12.3
47.5°	11.9
50°	11.9
52.5°	11.6
55°	11.6
57.5°	11.6
60°	11.3
62.5°	11.3
65°	10.9
67.5°	10.6
70°	10.3
72.5°	9.9



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	9.3
77.5°	8.6
80°	7.3
82.5°	6.0
85°	3.6
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.6
97.5°	6.0
100°	7.3
102.5°	8.6
105°	9.3
107.5°	9.9
110°	10.3
112.5°	10.6
115°	10.9
117.5°	11.3
120°	11.3
122.5°	11.6
125°	11.6
127.5°	11.6
130°	11.9
132.5°	11.9
135°	12.3
137.5°	13.6
140°	18.2
142.5°	23.5
145°	36.5
147.5°	139.9
150°	291.0
151°	339.8
152°	369.3
153°	382.8
154°	394.1
155°	407.4
157.5°	459.1
160°	530.0
161°	568.1
162°	609.6
163°	657.0
164°	717.3
165°	797.8
166°	906.2
167°	1049.8



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1252.6
169°	1533.0
170°	1902.6
171°	2371.6
172°	2902.6
173°	3488.3
174°	4029.3
175°	4541.7
176°	4995.5
177°	5355.5
178°	5614.4
179°	5784.7
180°	5866.9

(END OF REPORT)