

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: P221877

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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]-LED4080-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2075.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

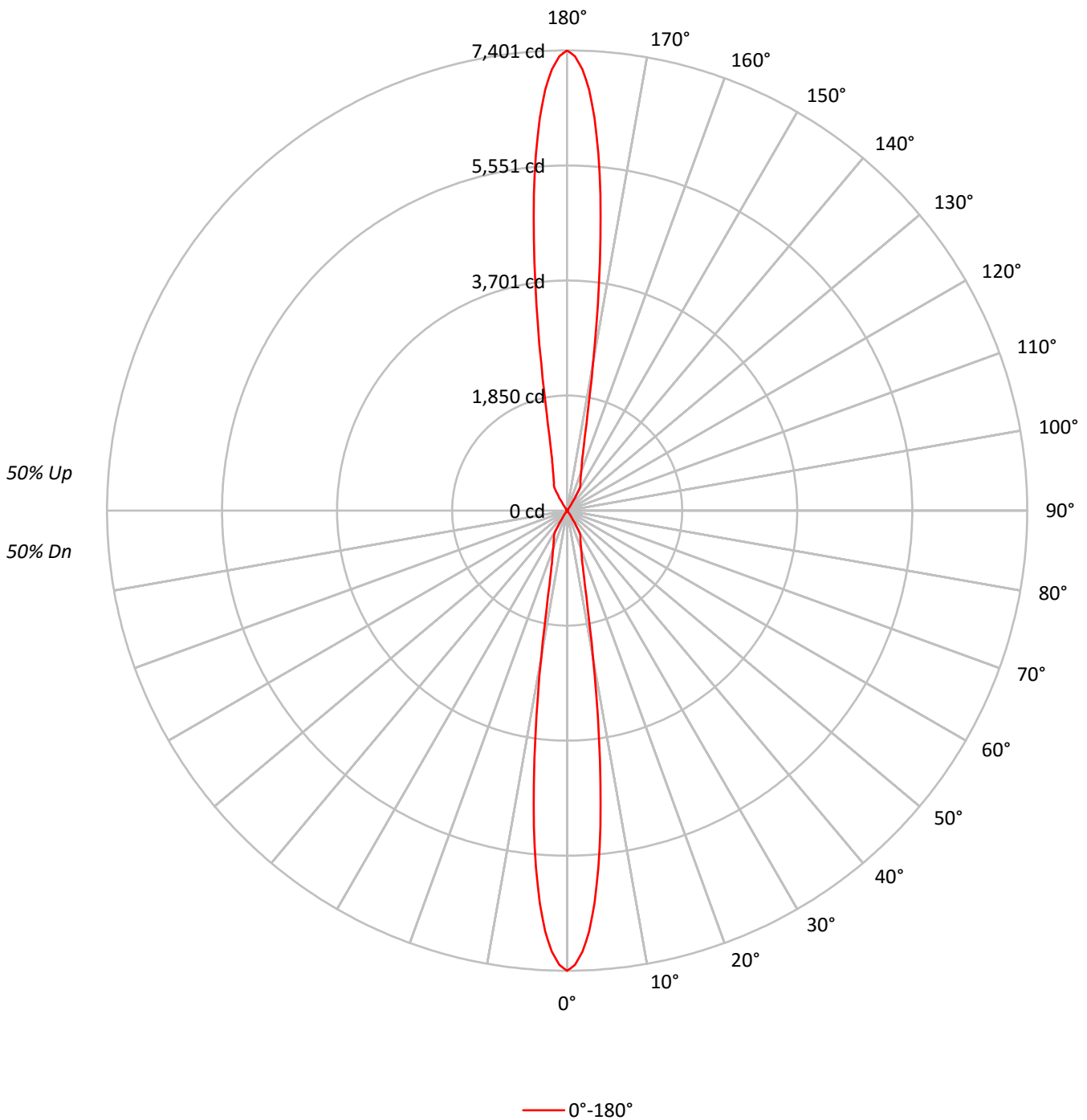
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

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

	0°
0°	912930
5°	713259
10°	300433
15°	127314
20°	86200
25°	68443
30°	50676
35°	4593
40°	1691
45°	506
50°	403
55°	452
60°	321
65°	233
70°	144
75°	191
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.6	20.9
10°-20°	306.4	14.8
20°-30°	233.9	11.3
30°-40°	57.4	2.8
40°-50°	3.1	0.1
50°-60°	1.7	0.1
60°-70°	0.8	0.0
70°-80°	0.4	0.0
80°-90°	0.2	0.0
90°-100°	0.3	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	1.7	0.1
130°-140°	3.1	0.1
140°-150°	57.4	2.8
150°-160°	233.9	11.3
160°-170°	306.4	14.8
170°-180°	433.6	20.9
0°-30°	974.0	46.9
0°-40°	1031.3	49.7
0°-60°	1036.1	49.9
0°-90°	1037.5	50.0
90°-120°	1.5	0.1
90°-150°	63.7	3.1
90°-180°	1038.0	50.0
0°-180°	2075.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7401	
5°	5761	434
15°	997	306
25°	503	234
35°	30	57
45°	3	3
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°	3	3
145°	30	57
155°	503	234
165°	997	306
175°	5761	434
180°	7401	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7401.4
1°	7306.5
2°	7097.5
3°	6776.8
4°	6327.9
5°	5760.6
6°	5108.4
7°	4391.9
8°	3670.4
9°	3009.9
10°	2398.7
11°	1914.6
12°	1560.1
13°	1309.3
14°	1130.8
15°	997.0
16°	894.2
17°	819.4
18°	760.0
19°	704.4
20°	656.7
22.5°	566.4
25°	502.9
26°	485.8
27°	471.5
28°	457.3
29°	419.7
30°	355.8
32.5°	160.1
35°	30.5
37.5°	16.7
40°	10.5
42.5°	4.6
45°	2.9
47.5°	2.5
50°	2.1
52.5°	2.1
55°	2.1
57.5°	1.7
60°	1.3
62.5°	1.3
65°	0.8
67.5°	0.4
70°	0.4
72.5°	0.4



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.4
100°	0.4
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.8
117.5°	1.3
120°	1.3
122.5°	1.7
125°	2.1
127.5°	2.1
130°	2.1
132.5°	2.5
135°	2.9
137.5°	4.6
140°	10.5
142.5°	16.7
145°	30.5
147.5°	160.1
150°	355.8
151°	419.7
152°	457.3
153°	471.5
154°	485.8
155°	502.9
157.5°	566.4
160°	656.7
161°	704.4
162°	760.0
163°	819.4
164°	894.2
165°	997.0
166°	1130.8
167°	1309.3



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1560.1
169°	1914.6
170°	2398.7
171°	3009.9
172°	3670.4
173°	4391.9
174°	5108.4
175°	5760.6
176°	6327.9
177°	6776.8
178°	7097.5
179°	7306.5
180°	7401.4

(END OF REPORT)