

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: P221880

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221880  
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]-LED4080-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2208.2 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

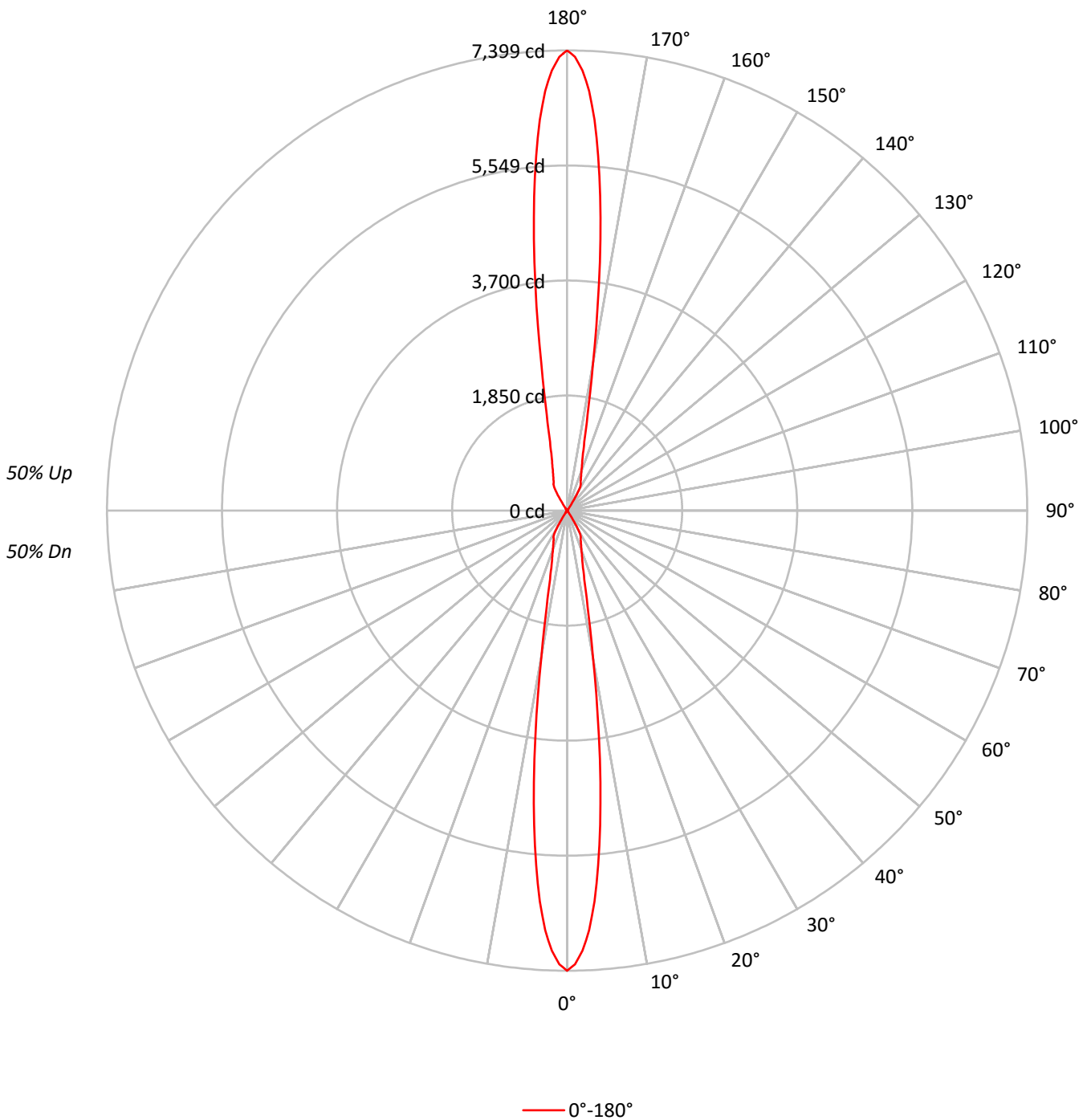
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	912671
5°	709223
10°	300534
15°	128489
20°	87735
25°	69927
30°	52271
35°	6927
40°	3703
45°	2704
50°	2878
55°	3140
60°	3503
65°	4028
70°	4688
75°	5576
80°	6535
85°	6510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.2	19.6
10°-20°	309.8	14.0
20°-30°	239.0	10.8
30°-40°	66.2	3.0
40°-50°	12.8	0.6
50°-60°	13.1	0.6
60°-70°	13.6	0.6
70°-80°	12.2	0.6
80°-90°	5.1	0.2
90°-100°	5.1	0.2
100°-110°	12.2	0.6
110°-120°	13.6	0.6
120°-130°	13.1	0.6
130°-140°	12.8	0.6
140°-150°	66.2	3.0
150°-160°	239.0	10.8
160°-170°	309.8	14.0
170°-180°	432.2	19.6
0°-30°	981.0	44.4
0°-40°	1047.2	47.4
0°-60°	1073.2	48.6
0°-90°	1104.1	50.0
90°-120°	31.0	1.4
90°-150°	123.1	5.6
90°-180°	1104.0	50.0
0°-180°	2208.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7399	
5°	5728	432
15°	1006	310
25°	514	239
35°	46	66
45°	16	13
55°	15	13
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	15	13
135°	16	13
145°	46	66
155°	514	239
165°	1006	310
175°	5728	432
180°	7399	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7399.3
1°	7295.6
2°	7080.8
3°	6754.3
4°	6300.3
5°	5728.0
6°	5081.7
7°	4399.5
8°	3660.8
9°	2991.1
10°	2399.5
11°	1933.4
12°	1579.8
13°	1323.9
14°	1142.9
15°	1006.2
16°	904.6
17°	828.6
18°	768.8
19°	716.5
20°	668.4
22.5°	579.0
25°	513.8
26°	497.0
27°	482.8
28°	465.7
29°	428.5
30°	367.0
32.5°	176.4
35°	46.0
37.5°	29.7
40°	23.0
42.5°	17.1
45°	15.5
47.5°	15.0
50°	15.0
52.5°	14.6
55°	14.6
57.5°	14.6
60°	14.2
62.5°	14.2
65°	13.8
67.5°	13.4
70°	13.0
72.5°	12.5



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	11.7
77.5°	10.9
80°	9.2
82.5°	7.5
85°	4.6
87.5°	2.1
90°	0.0
92.5°	2.1
95°	4.6
97.5°	7.5
100°	9.2
102.5°	10.9
105°	11.7
107.5°	12.5
110°	13.0
112.5°	13.4
115°	13.8
117.5°	14.2
120°	14.2
122.5°	14.6
125°	14.6
127.5°	14.6
130°	15.0
132.5°	15.0
135°	15.5
137.5°	17.1
140°	23.0
142.5°	29.7
145°	46.0
147.5°	176.4
150°	367.0
151°	428.5
152°	465.7
153°	482.8
154°	497.0
155°	513.8
157.5°	579.0
160°	668.4
161°	716.5
162°	768.8
163°	828.6
164°	904.6
165°	1006.2
166°	1142.9
167°	1323.9



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1579.8
169°	1933.4
170°	2399.5
171°	2991.1
172°	3660.8
173°	4399.5
174°	5081.7
175°	5728.0
176°	6300.3
177°	6754.3
178°	7080.8
179°	7295.6
180°	7399.3

(END OF REPORT)