

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: P221874

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
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-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2213.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

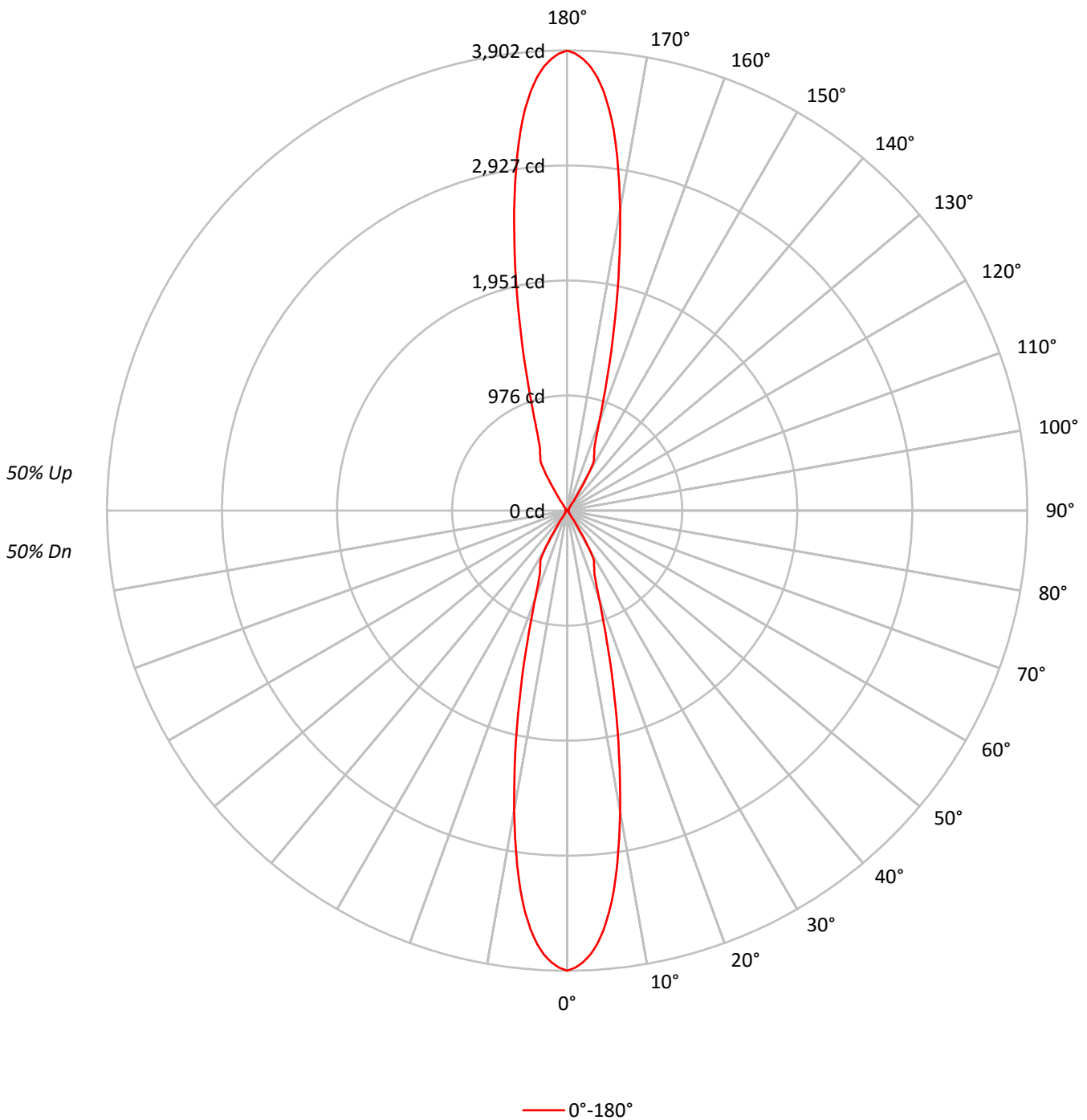
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

**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	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

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

	0°
0°	481245
5°	441308
10°	323842
15°	189668
20°	103487
25°	73737
30°	54535
35°	7875
40°	4315
45°	3070
50°	3128
55°	3226
60°	3602
65°	4028
70°	4688
75°	5767
80°	6819
85°	6510



TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.5	13.9
10°-20°	413.0	18.7
20°-30°	255.0	11.5
30°-40°	71.1	3.2
40°-50°	14.4	0.6
50°-60°	13.7	0.6
60°-70°	13.8	0.6
70°-80°	12.4	0.6
80°-90°	5.2	0.2
90°-100°	5.2	0.2
100°-110°	12.4	0.6
110°-120°	13.8	0.6
120°-130°	13.7	0.6
130°-140°	14.4	0.6
140°-150°	71.1	3.2
150°-160°	255.0	11.5
160°-170°	413.0	18.7
170°-180°	308.5	13.9
0°-30°	976.5	44.1
0°-40°	1047.5	47.3
0°-60°	1075.6	48.6
0°-90°	1106.9	50.0
90°-120°	31.3	1.4
90°-150°	130.4	5.9
90°-180°	1107.0	50.0
0°-180°	2213.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3902	
5°	3564	308
15°	1485	413
25°	542	255
35°	52	71
45°	18	14
55°	15	14
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	15	14
135°	18	14
145°	52	71
155°	542	255
165°	1485	413
175°	3564	308
180°	3902	



TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3901.6
1°	3877.3
2°	3832.6
3°	3769.0
4°	3681.7
5°	3564.2
6°	3418.7
7°	3245.7
8°	3039.1
9°	2817.2
10°	2585.6
11°	2349.8
12°	2117.0
13°	1890.0
14°	1679.3
15°	1485.3
16°	1306.8
17°	1146.7
18°	1006.2
19°	886.2
20°	788.4
21°	707.7
22°	647.1
23°	601.1
24°	566.9
25°	541.8
26°	521.3
27°	503.3
28°	486.2
29°	447.7
30°	382.9
32.5°	185.6
35°	52.3
37.5°	36.0
40°	26.8
42.5°	18.8
45°	17.6
47.5°	16.7
50°	16.3
52.5°	15.5
55°	15.0
57.5°	15.0
60°	14.6
62.5°	14.6
65°	13.8



TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	13.4
70°	13.0
72.5°	12.5
75°	12.1
77.5°	10.9
80°	9.6
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°	9.6
102.5°	10.9
105°	12.1
107.5°	12.5
110°	13.0
112.5°	13.4
115°	13.8
117.5°	14.6
120°	14.6
122.5°	15.0
125°	15.0
127.5°	15.5
130°	16.3
132.5°	16.7
135°	17.6
137.5°	18.8
140°	26.8
142.5°	36.0
145°	52.3
147.5°	185.6
150°	382.9
151°	447.7
152°	486.2
153°	503.3
154°	521.3
155°	541.8
156°	566.9
157°	601.1
158°	647.1
159°	707.7
160°	788.4
161°	886.2



TEST NUMBER: P221874

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1006.2
163°	1146.7
164°	1306.8
165°	1485.3
166°	1679.3
167°	1890.0
168°	2117.0
169°	2349.8
170°	2585.6
171°	2817.2
172°	3039.1
173°	3245.7
174°	3418.7
175°	3564.2
176°	3681.7
177°	3769.0
178°	3832.6
179°	3877.3
180°	3901.6

(END OF REPORT)