

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: P221923

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-M-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221923  
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]-LED5080-M-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4246.4 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

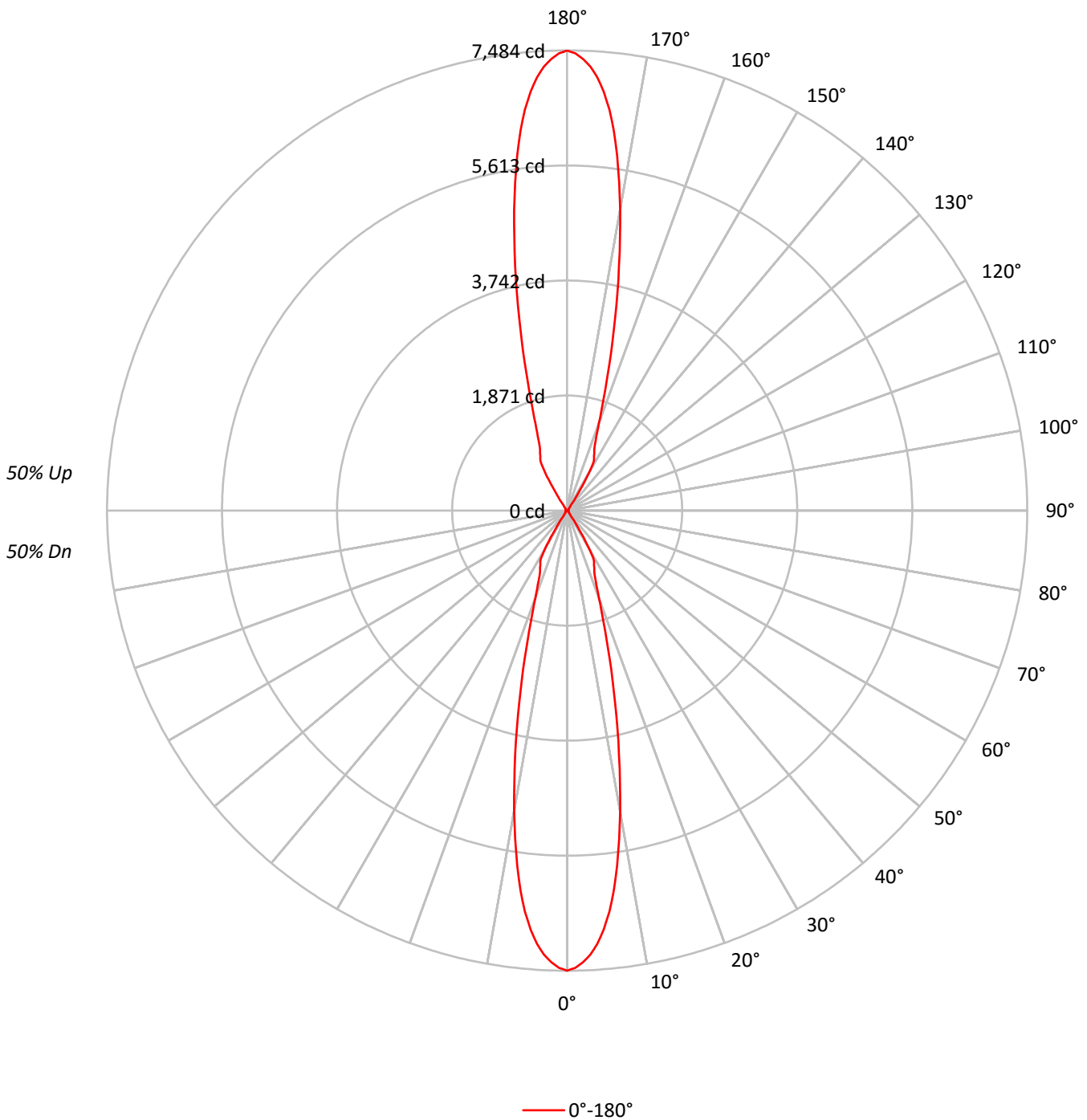
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	923069
5°	846473
10°	621157
15°	363808
20°	198507
25°	141432
30°	104613
35°	15088
40°	8260
45°	5879
50°	6006
55°	6215
60°	6932
65°	7734
70°	8980
75°	11104
80°	13070
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.7	13.9
10°-20°	792.2	18.7
20°-30°	489.1	11.5
30°-40°	136.3	3.2
40°-50°	27.6	0.6
50°-60°	26.3	0.6
60°-70°	26.5	0.6
70°-80°	23.7	0.6
80°-90°	9.9	0.2
90°-100°	9.9	0.2
100°-110°	23.7	0.6
110°-120°	26.5	0.6
120°-130°	26.3	0.6
130°-140°	27.6	0.6
140°-150°	136.3	3.2
150°-160°	489.1	11.5
160°-170°	792.2	18.7
170°-180°	591.7	13.9
0°-30°	1873.0	44.1
0°-40°	2009.3	47.3
0°-60°	2063.1	48.6
0°-90°	2123.2	50.0
90°-120°	60.1	1.4
90°-150°	250.3	5.9
90°-180°	2123.0	50.0
0°-180°	4246.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7484	
5°	6836	592
15°	2849	792
25°	1039	489
35°	100	136
45°	34	28
55°	29	26
65°	26	26
75°	23	24
85°	9	9
90°	0	1
95°	9	9
105°	23	24
115°	26	26
125°	29	26
135°	34	28
145°	100	136
155°	1039	489
165°	2849	792
175°	6836	592
180°	7484	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7483.6
1°	7437.1
2°	7351.3
3°	7229.4
4°	7061.9
5°	6836.5
6°	6557.5
7°	6225.5
8°	5829.4
9°	5403.6
10°	4959.4
11°	4507.2
12°	4060.5
13°	3625.1
14°	3221.0
15°	2849.0
16°	2506.6
17°	2199.5
18°	1930.0
19°	1699.9
20°	1512.3
21°	1357.5
22°	1241.3
23°	1153.1
24°	1087.3
25°	1039.2
26°	999.9
27°	965.4
28°	932.5
29°	858.8
30°	734.5
32.5°	356.0
35°	100.2
37.5°	69.0
40°	51.3
42.5°	36.1
45°	33.7
47.5°	32.1
50°	31.3
52.5°	29.7
55°	28.9
57.5°	28.9
60°	28.1
62.5°	28.1
65°	26.5

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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	25.7
70°	24.9
72.5°	24.1
75°	23.3
77.5°	20.8
80°	18.4
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	18.4
102.5°	20.8
105°	23.3
107.5°	24.1
110°	24.9
112.5°	25.7
115°	26.5
117.5°	28.1
120°	28.1
122.5°	28.9
125°	28.9
127.5°	29.7
130°	31.3
132.5°	32.1
135°	33.7
137.5°	36.1
140°	51.3
142.5°	69.0
145°	100.2
147.5°	356.0
150°	734.5
151°	858.8
152°	932.5
153°	965.4
154°	999.9
155°	1039.2
156°	1087.3
157°	1153.1
158°	1241.3
159°	1357.5
160°	1512.3
161°	1699.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1930.0
163°	2199.5
164°	2506.6
165°	2849.0
166°	3221.0
167°	3625.1
168°	4060.5
169°	4507.2
170°	4959.4
171°	5403.6
172°	5829.4
173°	6225.5
174°	6557.5
175°	6836.5
176°	7061.9
177°	7229.4
178°	7351.3
179°	7437.1
180°	7483.6

(END OF REPORT)