

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: P221866

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)  
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-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3877.1 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

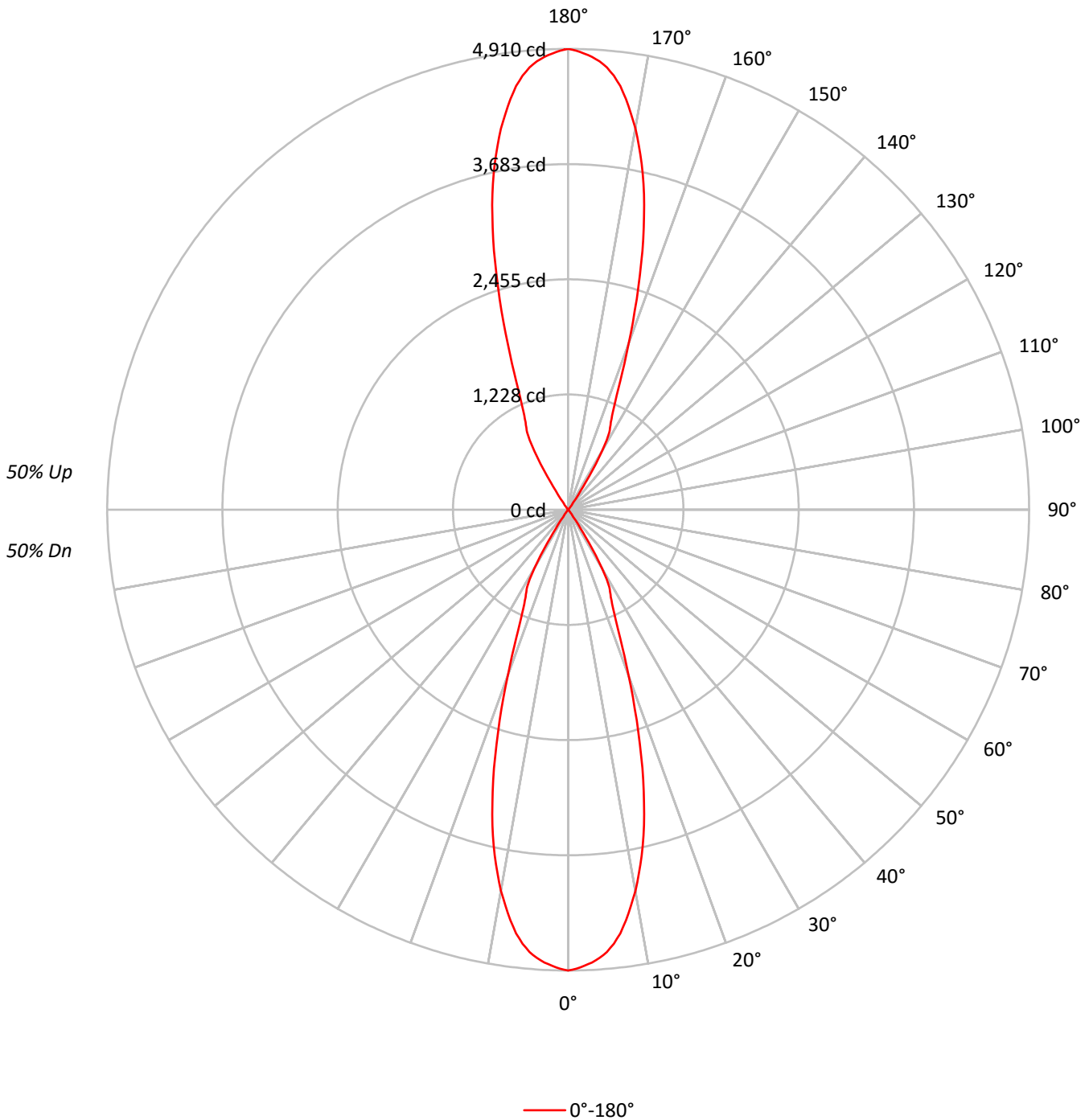
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38				
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37				
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35				
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34				
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33				

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

	0°
0°	605615
5°	585567
10°	516349
15°	397520
20°	246601
25°	150850
30°	102676
35°	13597
40°	3848
45°	942
50°	748
55°	495
60°	370
65°	438
70°	289
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.0	11.1
10°-20°	835.1	21.5
20°-30°	535.4	13.8
30°-40°	126.2	3.3
40°-50°	6.0	0.2
50°-60°	2.3	0.1
60°-70°	1.2	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.2	0.0
120°-130°	2.3	0.1
130°-140°	6.0	0.2
140°-150°	126.2	3.3
150°-160°	535.4	13.8
160°-170°	835.1	21.5
170°-180°	432.0	11.1
0°-30°	1802.5	46.5
0°-40°	1928.7	49.7
0°-60°	1937.0	50.0
0°-90°	1938.5	50.0
90°-120°	1.7	0.0
90°-150°	136.2	3.5
90°-180°	1939.0	50.0
0°-180°	3877.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4910	
5°	4729	432
15°	3113	835
25°	1108	535
35°	90	126
45°	5	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	1
125°	2	2
135°	5	6
145°	90	126
155°	1108	535
165°	3113	835
175°	4729	432
180°	4910	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4909.9
1°	4892.1
2°	4863.6
3°	4831.1
4°	4788.7
5°	4729.3
6°	4649.8
7°	4548.6
8°	4417.4
9°	4274.6
10°	4122.6
11°	3950.4
12°	3766.0
13°	3566.0
14°	3344.5
15°	3113.0
16°	2867.5
17°	2613.6
18°	2360.4
19°	2114.9
20°	1878.7
21°	1668.8
22°	1481.2
23°	1323.8
24°	1204.1
25°	1108.4
26°	1036.6
27°	981.0
28°	931.6
29°	847.5
30°	720.9
32.5°	344.3
35°	90.3
37.5°	47.9
40°	23.9
42.5°	7.7
45°	5.4
47.5°	4.6
50°	3.9
52.5°	3.1
55°	2.3
57.5°	2.3
60°	1.5
62.5°	1.5
65°	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	1.5
120°	1.5
122.5°	2.3
125°	2.3
127.5°	3.1
130°	3.9
132.5°	4.6
135°	5.4
137.5°	7.7
140°	23.9
142.5°	47.9
145°	90.3
147.5°	344.3
150°	720.9
151°	847.5
152°	931.6
153°	981.0
154°	1036.6
155°	1108.4
156°	1204.1
157°	1323.8
158°	1481.2
159°	1668.8
160°	1878.7
161°	2114.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	2360.4
163°	2613.6
164°	2867.5
165°	3113.0
166°	3344.5
167°	3566.0
168°	3766.0
169°	3950.4
170°	4122.6
171°	4274.6
172°	4417.4
173°	4548.6
174°	4649.8
175°	4729.3
176°	4788.7
177°	4831.1
178°	4863.6
179°	4892.1
180°	4909.9

(END OF REPORT)