

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: P221865

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221865  
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-L1-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: 2099.8 lumens  
Efficiency: N/A  
Efficacy: 106.6 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

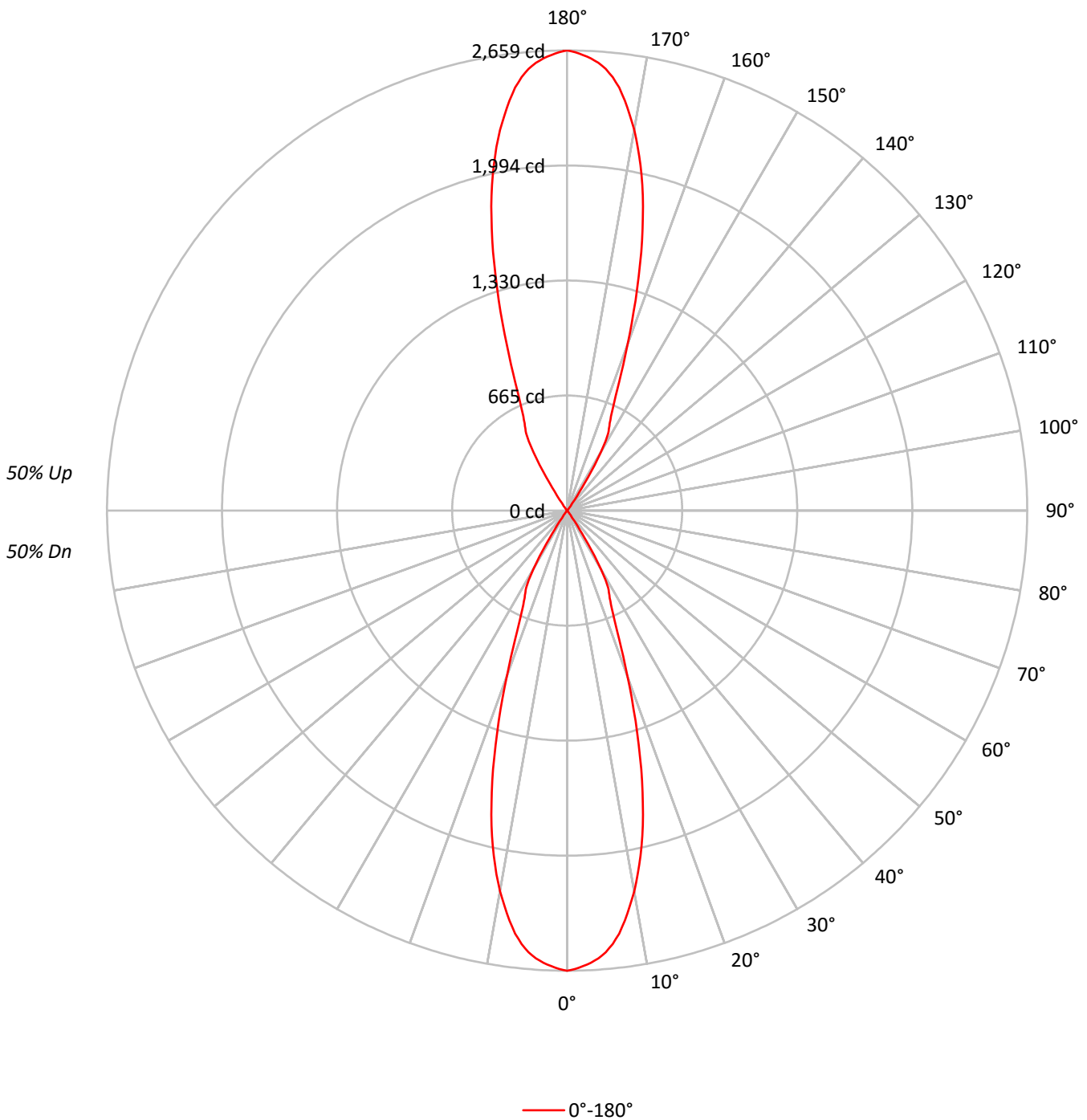
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	327988
5°	317132
10°	279642
15°	215297
20°	133559
25°	81699
30°	55604
35°	7363
40°	2093
45°	506
50°	403
55°	280
60°	197
65°	233
70°	144
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.0	11.1
10°-20°	452.3	21.5
20°-30°	290.0	13.8
30°-40°	68.3	3.3
40°-50°	3.2	0.2
50°-60°	1.3	0.1
60°-70°	0.6	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.3	0.1
130°-140°	3.2	0.2
140°-150°	68.3	3.3
150°-160°	290.0	13.8
160°-170°	452.3	21.5
170°-180°	234.0	11.1
0°-30°	976.2	46.5
0°-40°	1044.6	49.7
0°-60°	1049.1	50.0
0°-90°	1049.9	50.0
90°-120°	0.9	0.0
90°-150°	73.8	3.5
90°-180°	1050.0	50.0
0°-180°	2099.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2659	
5°	2561	234
15°	1686	452
25°	600	290
35°	49	68
45°	3	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	3	3
145°	49	68
155°	600	290
165°	1686	452
175°	2561	234
180°	2659	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2659.1
1°	2649.5
2°	2634.1
3°	2616.5
4°	2593.5
5°	2561.3
6°	2518.3
7°	2463.5
8°	2392.4
9°	2315.1
10°	2232.7
11°	2139.5
12°	2039.6
13°	1931.3
14°	1811.4
15°	1686.0
16°	1553.0
17°	1415.5
18°	1278.4
19°	1145.4
20°	1017.5
21°	903.8
22°	802.2
23°	716.9
24°	652.1
25°	600.3
26°	561.4
27°	531.3
28°	504.6
29°	459.0
30°	390.4
32.5°	186.4
35°	48.9
37.5°	25.9
40°	13.0
42.5°	4.2
45°	2.9
47.5°	2.5
50°	2.1
52.5°	1.7
55°	1.3
57.5°	1.3
60°	0.8
62.5°	0.8
65°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
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°	0.4
110°	0.4
112.5°	0.4
115°	0.8
117.5°	0.8
120°	0.8
122.5°	1.3
125°	1.3
127.5°	1.7
130°	2.1
132.5°	2.5
135°	2.9
137.5°	4.2
140°	13.0
142.5°	25.9
145°	48.9
147.5°	186.4
150°	390.4
151°	459.0
152°	504.6
153°	531.3
154°	561.4
155°	600.3
156°	652.1
157°	716.9
158°	802.2
159°	903.8
160°	1017.5
161°	1145.4



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1278.4
163°	1415.5
164°	1553.0
165°	1686.0
166°	1811.4
167°	1931.3
168°	2039.6
169°	2139.5
170°	2232.7
171°	2315.1
172°	2392.4
173°	2463.5
174°	2518.3
175°	2561.3
176°	2593.5
177°	2616.5
178°	2634.1
179°	2649.5
180°	2659.1

(END OF REPORT)