

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: P221227

Luminaire Tested: **9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29414)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1380.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

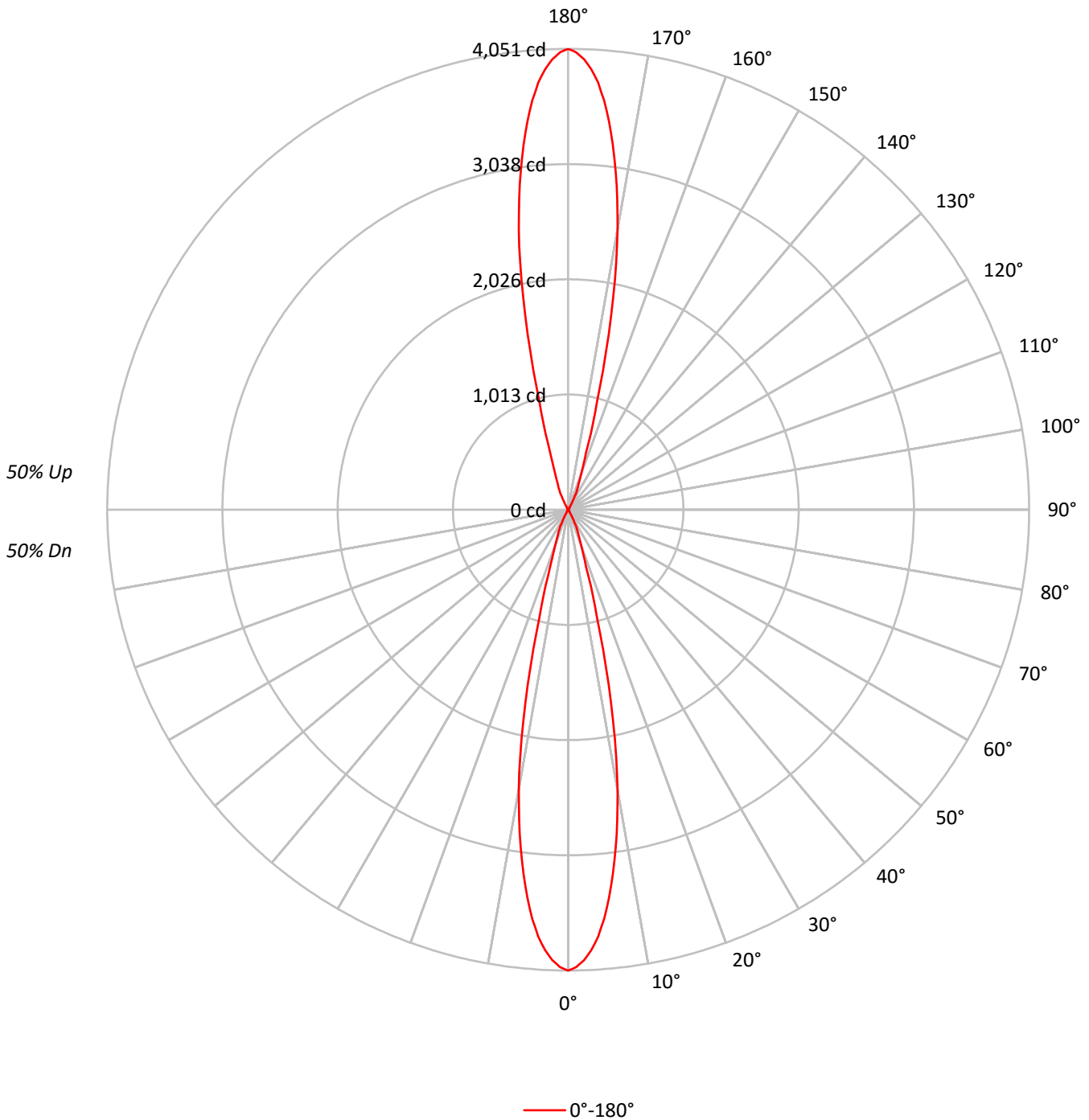
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-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	101	98	95	93	93	91	89	87	78	76	75	66	65	64	55	54	54	49
2	95	90	86	83	89	84	81	78	73	71	69	63	61	60	53	52	52	47
3	90	84	79	75	84	79	75	71	69	66	64	60	58	57	52	51	50	46
4	86	78	73	69	80	74	69	66	66	62	60	58	56	54	50	49	48	45
5	82	74	68	64	76	70	65	61	62	59	56	56	53	51	49	48	47	44
6	78	70	64	60	73	66	61	58	60	56	54	54	51	49	48	46	45	43
7	74	66	60	57	70	63	58	55	57	54	51	52	49	48	47	45	44	42
8	71	63	57	54	67	60	55	52	55	52	49	50	48	46	46	44	43	41
9	69	60	55	51	65	58	53	50	53	50	47	49	46	45	45	43	42	40
10	66	58	53	49	63	55	51	48	51	48	46	47	45	43	44	42	41	39

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

	0°
0°	1998829
5°	1788795
10°	1252727
15°	498730
20°	170482
25°	93906
30°	20168
35°	8673
40°	4637
45°	2023
50°	1075
55°	602
60°	691
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.6	22.4
10°-20°	295.2	21.4
20°-30°	72.6	5.3
30°-40°	10.1	0.7
40°-50°	2.7	0.2
50°-60°	0.7	0.1
60°-70°	0.1	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.1	0.0
120°-130°	0.7	0.1
130°-140°	2.7	0.2
140°-150°	10.1	0.7
150°-160°	72.6	5.3
160°-170°	295.2	21.4
170°-180°	308.6	22.4
0°-30°	676.4	49.0
0°-40°	686.5	49.7
0°-60°	690.0	50.0
0°-90°	690.1	50.0
90°-120°	0.1	0.0
90°-150°	13.7	1.0
90°-180°	690.0	50.0
0°-180°	1380.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4051	
5°	3612	309
15°	976	295
25°	172	73
35°	14	10
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	3	3
145°	14	10
155°	172	73
165°	976	295
175°	3612	309
180°	4051	



TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4051.3
1°	4021.7
2°	3962.5
3°	3878.1
4°	3762.6
5°	3611.8
6°	3430.7
7°	3227.9
8°	2999.1
9°	2759.6
10°	2500.5
11°	2216.2
12°	1903.0
13°	1581.8
14°	1262.9
15°	976.4
17.5°	518.9
20°	324.7
22.5°	234.5
25°	172.5
27.5°	75.8
30°	35.4
32.5°	21.6
35°	14.4
37.5°	9.4
40°	7.2
42.5°	5.1
45°	2.9
47.5°	2.2
50°	1.4
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	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°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.7
122.5°	0.7
125°	0.7
127.5°	0.7
130°	1.4
132.5°	2.2
135°	2.9
137.5°	5.1
140°	7.2
142.5°	9.4
145°	14.4
147.5°	21.6
150°	35.4
152.5°	75.8
155°	172.5
157.5°	234.5
160°	324.7
162.5°	518.9
165°	976.4
166°	1262.9
167°	1581.8
168°	1903.0
169°	2216.2
170°	2500.5
171°	2759.6
172°	2999.1
173°	3227.9
174°	3430.7
175°	3611.8
176°	3762.6
177°	3878.1
178°	3962.5
179°	4021.7



TEST NUMBER: P221227

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2797-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

180°  $\overbrace{\hspace{1.5cm}}^{0^\circ}$   
4051.3

(END OF REPORT)