

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: P221225

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29415)  
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-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1422.3 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

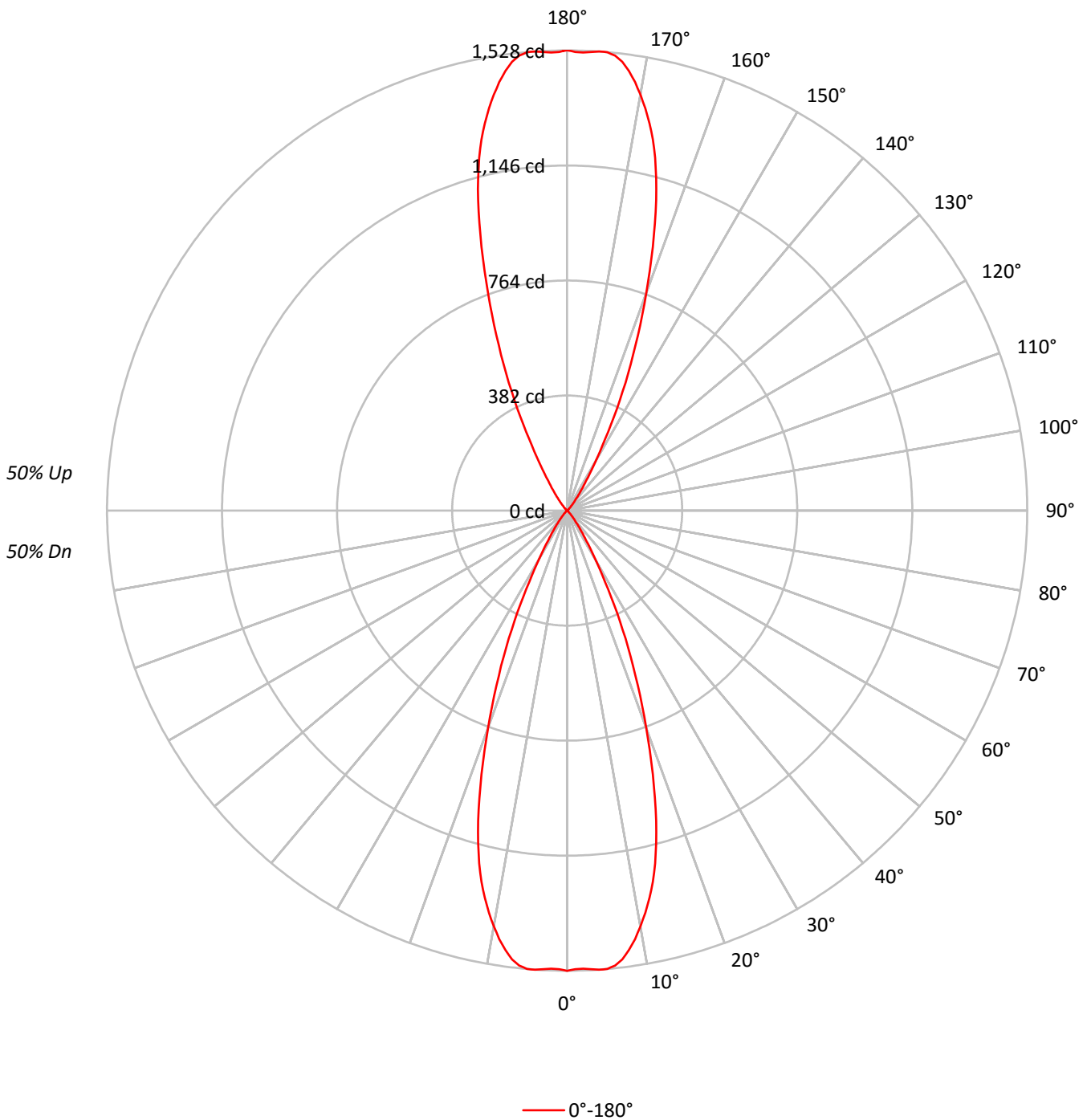
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	76	72	82	77	72	68	67	64	61	58	56	54	50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	47	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	45	44	42	40
6	75	65	59	55	70	62	57	53	55	51	49	49	47	44	44	42	40	38
7	71	61	55	51	66	58	53	49	52	48	46	47	44	42	42	40	38	36
8	67	58	52	47	63	55	50	46	50	46	43	45	42	40	40	38	37	35
9	64	54	48	45	60	52	47	43	47	43	40	43	40	38	39	37	35	33
10	61	51	46	42	57	49	44	41	45	41	38	41	38	36	37	35	34	32

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

	0°
0°	754081
5°	756615
10°	702439
15°	583877
20°	402393
25°	237297
30°	106079
35°	45233
40°	18098
45°	6559
50°	2226
55°	602
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.9	10.0
10°-20°	307.8	21.6
20°-30°	199.4	14.0
30°-40°	52.4	3.7
40°-50°	8.8	0.6
50°-60°	0.9	0.1
60°-70°	0.0	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°	0.0	0.0
120°-130°	0.9	0.1
130°-140°	8.8	0.6
140°-150°	52.4	3.7
150°-160°	199.4	14.0
160°-170°	307.8	21.6
170°-180°	141.9	10.0
0°-30°	649.1	45.6
0°-40°	701.5	49.3
0°-60°	711.1	50.0
0°-90°	711.1	50.0
90°-120°	0.0	0.0
90°-150°	62.1	4.4
90°-180°	711.0	50.0
0°-180°	1422.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1528	
5°	1528	142
15°	1143	308
25°	436	199
35°	75	52
45°	9	9
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°	9	9
145°	75	52
155°	436	199
165°	1143	308
175°	1528	142
180°	1528	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1528.4
1°	1523.4
2°	1521.9
3°	1524.8
4°	1528.4
5°	1527.7
6°	1519.1
7°	1501.7
8°	1473.6
9°	1440.4
10°	1402.1
11°	1360.3
12°	1314.8
13°	1265.0
14°	1207.3
15°	1143.1
16°	1072.4
17°	997.3
18°	920.1
19°	841.4
20°	766.4
22.5°	592.5
25°	435.9
26°	378.1
27°	320.4
28°	268.5
29°	223.7
30°	186.2
32.5°	116.9
35°	75.1
37.5°	46.2
40°	28.1
42.5°	16.6
45°	9.4
47.5°	5.1
50°	2.9
52.5°	1.4
55°	0.7
57.5°	0.7
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
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°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.7
125°	0.7
127.5°	1.4
130°	2.9
132.5°	5.1
135°	9.4
137.5°	16.6
140°	28.1
142.5°	46.2
145°	75.1
147.5°	116.9
150°	186.2
151°	223.7
152°	268.5
153°	320.4
154°	378.1
155°	435.9
157.5°	592.5
160°	766.4
161°	841.4
162°	920.1
163°	997.3
164°	1072.4
165°	1143.1
166°	1207.3
167°	1265.0



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1314.8
169°	1360.3
170°	1402.1
171°	1440.4
172°	1473.6
173°	1501.7
174°	1519.1
175°	1527.7
176°	1528.4
177°	1524.8
178°	1521.9
179°	1523.4
180°	1528.4

(END OF REPORT)