

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: P221279

Luminaire Tested: **9002-W2-[RW, RI]-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29416)  
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]-LED4097-W-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1506.6 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.86  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

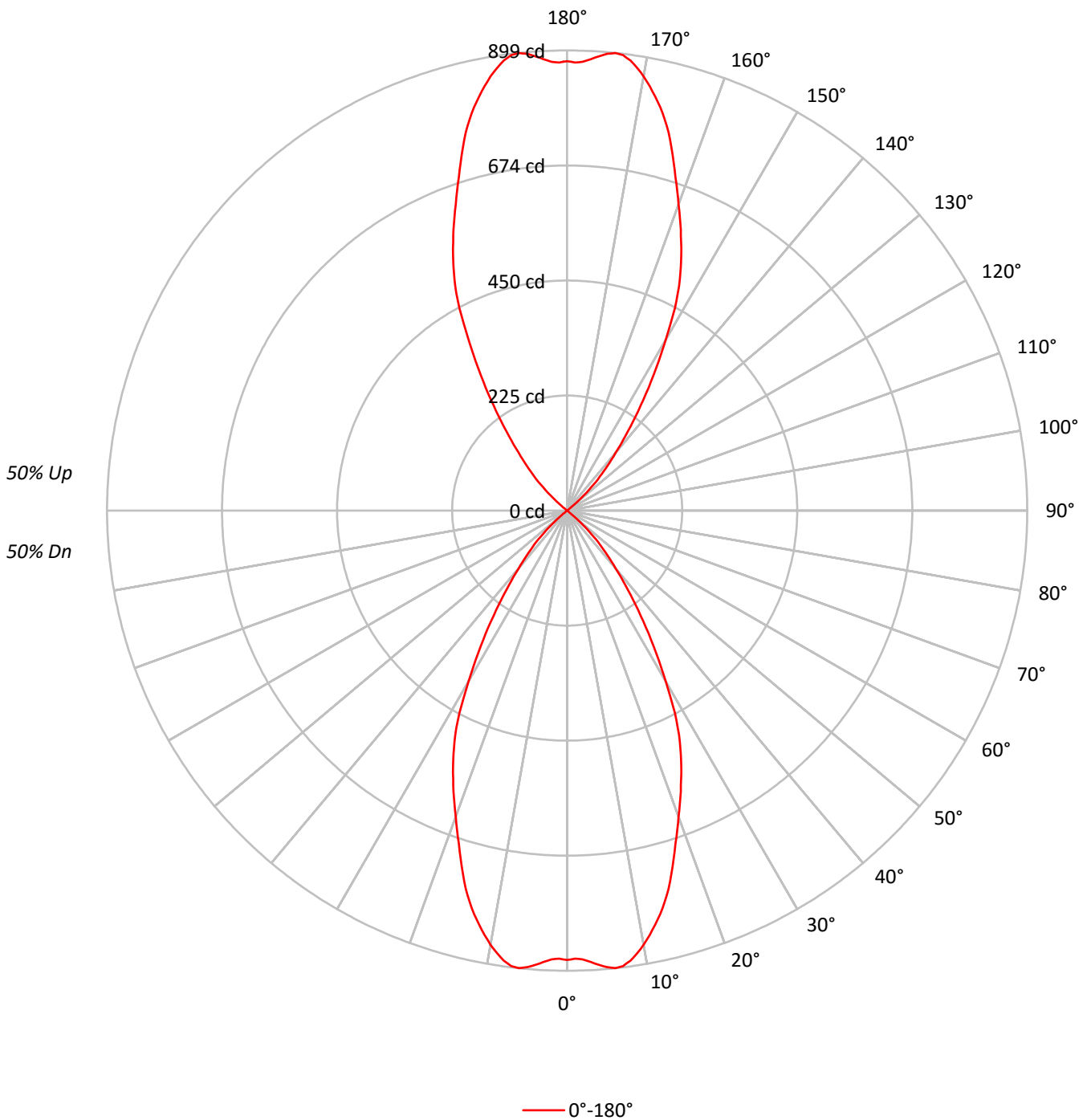
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	92	90	87	85	77	75	73	64	63	62	53	53	52	47
2	93	88	83	79	86	82	78	74	70	67	65	60	58	56	50	49	48	44
3	87	80	74	69	81	75	70	66	65	61	58	56	53	51	47	46	44	41
4	81	73	67	62	76	68	63	59	60	56	53	52	49	47	45	43	41	38
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	67	58	52	48	51	47	44	45	42	40	40	37	36	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	59	49	43	38	56	47	41	37	42	38	34	38	34	32	33	31	29	27
10	56	46	40	36	53	44	38	34	39	35	32	35	32	30	32	29	27	26

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

	0°
0°	433237
5°	443559
10°	431553
15°	391056
20°	334190
25°	286183
30°	219280
35°	150516
40°	94999
45°	55192
50°	11513
55°	688
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.5	5.6
10°-20°	211.3	14.0
20°-30°	237.4	15.8
30°-40°	157.9	10.5
40°-50°	59.8	4.0
50°-60°	2.3	0.2
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°	2.3	0.2
130°-140°	59.8	4.0
140°-150°	157.9	10.5
150°-160°	237.4	15.8
160°-170°	211.3	14.0
170°-180°	84.5	5.6
0°-30°	533.2	35.4
0°-40°	691.2	45.9
0°-60°	753.3	50.0
0°-90°	753.3	50.0
90°-120°	0.0	0.0
90°-150°	220.1	14.6
90°-180°	753.0	50.0
0°-180°	1506.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	878	
5°	896	85
15°	766	211
25°	526	237
35°	250	158
45°	79	60
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	2
135°	79	60
145°	250	158
155°	526	237
165°	766	211
175°	896	85
180°	878	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	878.1
1°	875.6
2°	877.2
3°	883.1
4°	889.7
5°	895.6
6°	898.9
7°	896.4
8°	888.1
9°	875.6
10°	861.4
11°	844.7
12°	827.2
13°	808.9
14°	788.1
15°	765.6
16°	738.9
17°	711.4
18°	684.8
19°	660.6
20°	636.5
21°	614.8
22°	592.3
23°	569.8
24°	548.2
25°	525.7
26°	502.3
27°	476.5
28°	448.2
29°	415.7
30°	384.9
32.5°	314.1
35°	249.9
37.5°	194.1
40°	147.5
42.5°	110.8
45°	79.1
47.5°	45.0
50°	15.0
52.5°	1.7
55°	0.8
57.5°	0.8
60°	0.0
62.5°	0.0
65°	0.0



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**CANDELA DISTRIBUTION (continued):**

	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
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°	0.8
125°	0.8
127.5°	1.7
130°	15.0
132.5°	45.0
135°	79.1
137.5°	110.8
140°	147.5
142.5°	194.1
145°	249.9
147.5°	314.1
150°	384.9
151°	415.7
152°	448.2
153°	476.5
154°	502.3
155°	525.7
156°	548.2
157°	569.8
158°	592.3
159°	614.8
160°	636.5
161°	660.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	684.8
163°	711.4
164°	738.9
165°	765.6
166°	788.1
167°	808.9
168°	827.2
169°	844.7
170°	861.4
171°	875.6
172°	888.1
173°	896.4
174°	898.9
175°	895.6
176°	889.7
177°	883.1
178°	877.2
179°	875.6
180°	878.1

(END OF REPORT)