

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: P221363

Luminaire Tested: **9002-W2-FL-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH 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: 1577.5 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

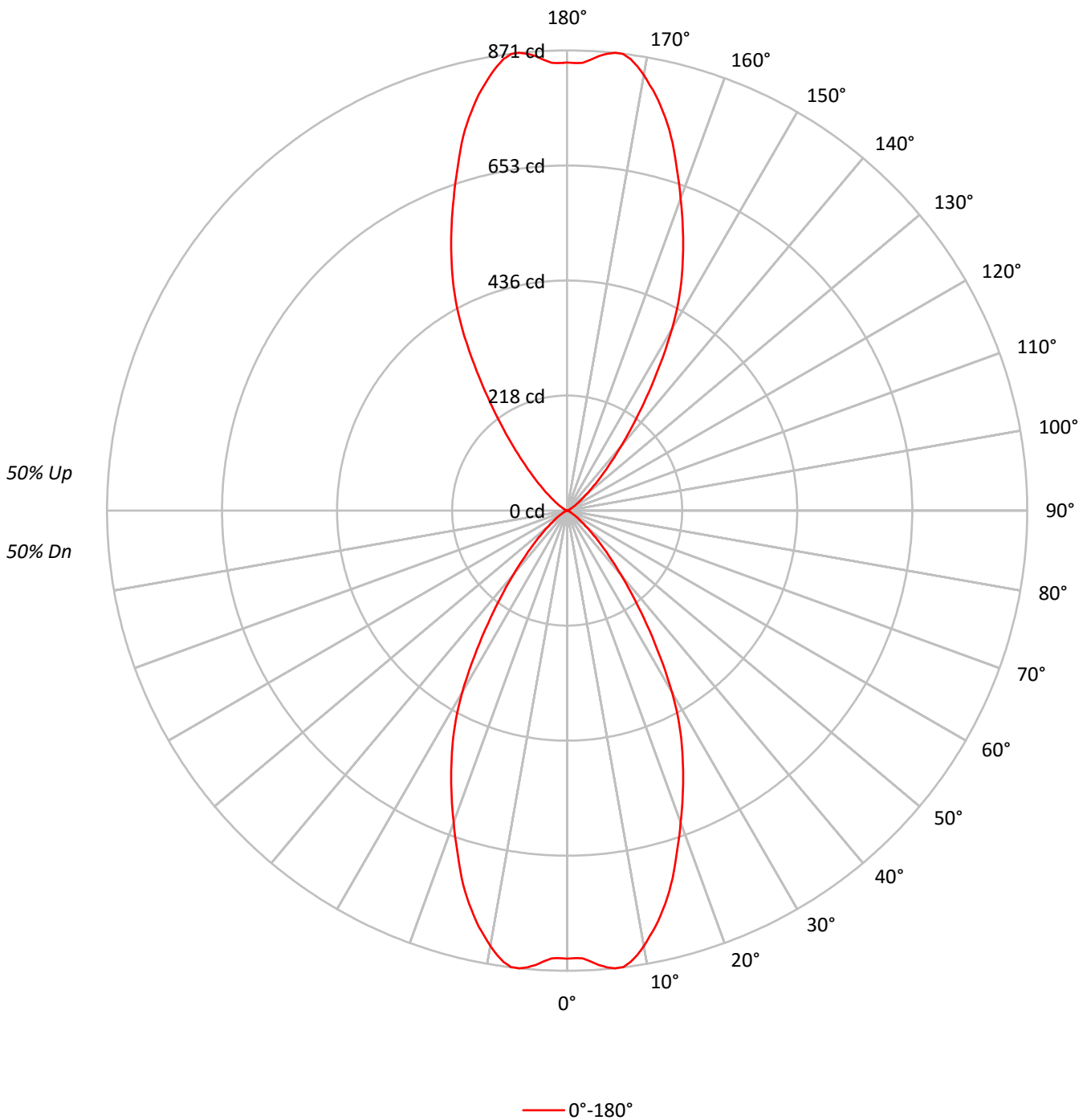
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	93	91	92	89	87	85	76	75	73	64	63	62	53	52	52	47				
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	49	47	43				
3	87	79	73	69	80	74	69	65	64	60	57	55	52	50	47	45	44	40				
4	81	72	66	61	75	68	62	58	59	55	52	51	48	46	44	42	40	37				
5	75	66	59	54	70	62	56	52	54	50	47	47	44	42	41	39	37	34				
6	71	60	54	49	66	57	51	47	50	46	43	44	41	38	38	36	34	32				
7	66	56	49	44	62	53	47	43	47	42	39	41	38	35	36	34	32	30				
8	62	52	45	40	58	49	43	39	44	39	36	39	35	33	34	32	30	28				
9	59	48	42	37	55	46	40	36	41	36	33	36	33	30	32	30	28	26				
10	55	45	38	34	52	43	37	33	38	34	31	34	31	28	30	28	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	418435
5°	429939
10°	419429
15°	381249
20°	329780
25°	281610
30°	226401
35°	157081
40°	101375
45°	61611
50°	35845
55°	20042
60°	10657
65°	5837
70°	2452
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	5.2
10°-20°	206.7	13.1
20°-30°	235.8	14.9
30°-40°	165.0	10.5
40°-50°	71.2	4.5
50°-60°	22.4	1.4
60°-70°	5.2	0.3
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	5.2	0.3
120°-130°	22.4	1.4
130°-140°	71.2	4.5
140°-150°	165.0	10.5
150°-160°	235.8	14.9
160°-170°	206.7	13.1
170°-180°	82.0	5.2
0°-30°	524.5	33.3
0°-40°	689.6	43.7
0°-60°	783.1	49.6
0°-90°	788.8	50.0
90°-120°	5.9	0.4
90°-150°	264.4	16.8
90°-180°	789.0	50.0
0°-180°	1577.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	848	
5°	868	82
15°	746	207
25°	517	236
35°	261	165
45°	88	71
55°	23	22
65°	5	5
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	5	5
125°	23	22
135°	88	71
145°	261	165
155°	517	236
165°	746	207
175°	868	82
180°	848	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	848.1
1°	847.2
2°	848.1
3°	854.7
4°	862.2
5°	868.1
6°	871.4
7°	870.6
8°	863.1
9°	851.4
10°	837.2
11°	820.6
12°	804.7
13°	786.4
14°	767.3
15°	746.4
16°	723.9
17°	698.9
18°	674.8
19°	651.5
20°	628.1
21°	606.5
22°	584.0
23°	561.5
24°	539.8
25°	517.3
26°	495.7
27°	473.2
28°	449.0
29°	424.0
30°	397.4
32.5°	326.6
35°	260.8
37.5°	204.9
40°	157.4
42.5°	119.1
45°	88.3
47.5°	64.1
50°	46.7
52.5°	33.3
55°	23.3
57.5°	15.8
60°	10.8
62.5°	7.5
65°	5.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.5
70°	1.7
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°	1.7
112.5°	2.5
115°	5.0
117.5°	7.5
120°	10.8
122.5°	15.8
125°	23.3
127.5°	33.3
130°	46.7
132.5°	64.1
135°	88.3
137.5°	119.1
140°	157.4
142.5°	204.9
145°	260.8
147.5°	326.6
150°	397.4
151°	424.0
152°	449.0
153°	473.2
154°	495.7
155°	517.3
156°	539.8
157°	561.5
158°	584.0
159°	606.5
160°	628.1
161°	651.5



TEST NUMBER: P221363

CATALOG NUMBER: 9002-W2-FL-LED4097-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	674.8
163°	698.9
164°	723.9
165°	746.4
166°	767.3
167°	786.4
168°	804.7
169°	820.6
170°	837.2
171°	851.4
172°	863.1
173°	870.6
174°	871.4
175°	868.1
176°	862.2
177°	854.7
178°	848.1
179°	847.2
180°	848.1

(END OF REPORT)