

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: P221327

Luminaire Tested: **9002-W2-FL-LED3097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1522.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

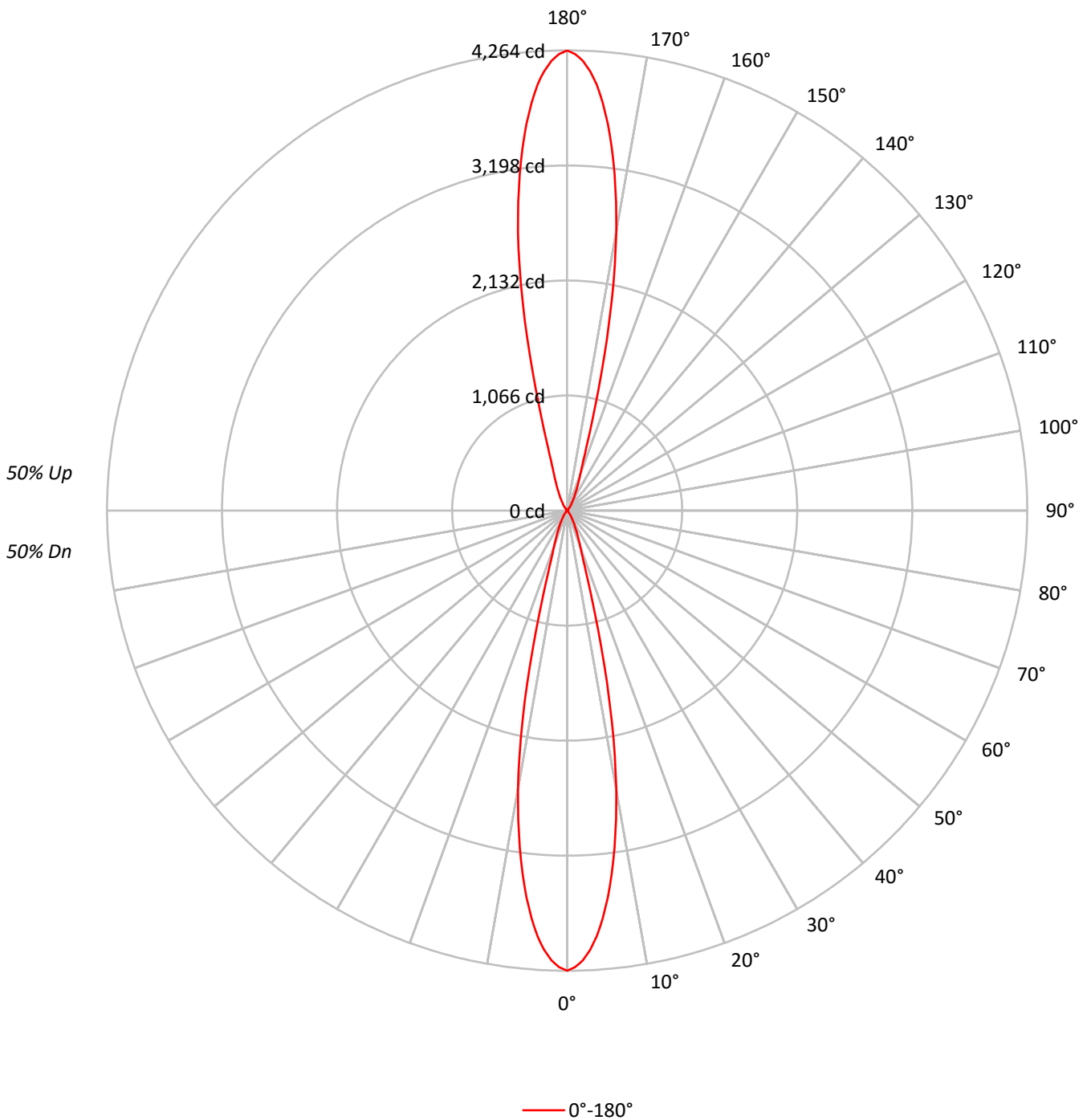
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-M-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-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	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	54	54	54	48				
2	95	90	86	82	88	84	81	78	73	70	68	62	61	60	53	52	51	47				
3	90	83	78	74	84	78	74	71	69	66	63	60	58	56	51	50	49	46				
4	85	78	72	68	80	73	69	65	65	62	59	57	55	53	50	49	47	44				
5	81	73	67	63	76	69	64	61	62	58	56	55	52	51	48	47	46	43				
6	77	69	63	59	72	65	60	57	59	55	53	53	50	48	47	46	44	42				
7	74	65	59	56	69	62	57	54	56	53	50	51	48	47	46	44	43	41				
8	71	62	56	53	67	59	54	51	54	50	48	49	47	45	45	43	42	40				
9	68	59	54	50	64	57	52	49	52	48	46	48	45	43	44	42	41	39				
10	65	56	51	48	62	54	50	47	50	47	44	46	44	42	43	41	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2103672
5°	1878339
10°	1312495
15°	513798
20°	185393
25°	103868
30°	58566
35°	30718
40°	10949
45°	5931
50°	3531
55°	1978
60°	1480
65°	934
70°	1154
75°	0
80°	0
85°	0



TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-M-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.0	21.3
10°-20°	303.4	19.9
20°-30°	91.0	6.0
30°-40°	32.1	2.1
40°-50°	7.2	0.5
50°-60°	2.2	0.1
60°-70°	0.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.9	0.1
120°-130°	2.2	0.1
130°-140°	7.2	0.5
140°-150°	32.1	2.1
150°-160°	91.0	6.0
160°-170°	303.4	19.9
170°-180°	324.0	21.3
0°-30°	718.5	47.2
0°-40°	750.6	49.3
0°-60°	760.0	49.9
0°-90°	761.0	50.0
90°-120°	1.0	0.1
90°-150°	42.5	2.8
90°-180°	761.0	50.0
0°-180°	1522.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4264	
5°	3793	324
15°	1006	303
25°	191	91
35°	51	32
45°	8	7
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	8	7
145°	51	32
155°	191	91
165°	1006	303
175°	3793	324
180°	4264	



TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-M-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4263.8
1°	4232.2
2°	4169.6
3°	4077.7
4°	3953.3
5°	3792.6
6°	3601.7
7°	3389.3
8°	3152.1
9°	2894.1
10°	2619.8
11°	2319.3
12°	1988.6
13°	1640.9
14°	1301.0
15°	1005.9
16°	769.5
17°	598.7
18°	484.4
19°	407.1
20°	353.1
22.5°	258.8
25°	190.8
26°	168.4
27°	149.1
28°	132.1
29°	116.7
30°	102.8
32.5°	74.2
35°	51.0
37.5°	26.3
40°	17.0
42.5°	12.4
45°	8.5
47.5°	6.2
50°	4.6
52.5°	3.1
55°	2.3
57.5°	1.5
60°	1.5
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.0



TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-M-BK-L1-UNV

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°	0.8
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.5
122.5°	1.5
125°	2.3
127.5°	3.1
130°	4.6
132.5°	6.2
135°	8.5
137.5°	12.4
140°	17.0
142.5°	26.3
145°	51.0
147.5°	74.2
150°	102.8
151°	116.7
152°	132.1
153°	149.1
154°	168.4
155°	190.8
157.5°	258.8
160°	353.1
161°	407.1
162°	484.4
163°	598.7
164°	769.5
165°	1005.9
166°	1301.0
167°	1640.9



TEST NUMBER: P221327

CATALOG NUMBER: 9002-W2-FL-LED3097-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	1988.6
169°	2319.3
170°	2619.8
171°	2894.1
172°	3152.1
173°	3389.3
174°	3601.7
175°	3792.6
176°	3953.3
177°	4077.7
178°	4169.6
179°	4232.2
180°	4263.8

(END OF REPORT)