

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: P221332

Luminaire Tested: **9002-W2-FL-LED3097-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29420)
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-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1491.8 lumens
Efficiency: N/A
Efficacy: 74.6 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

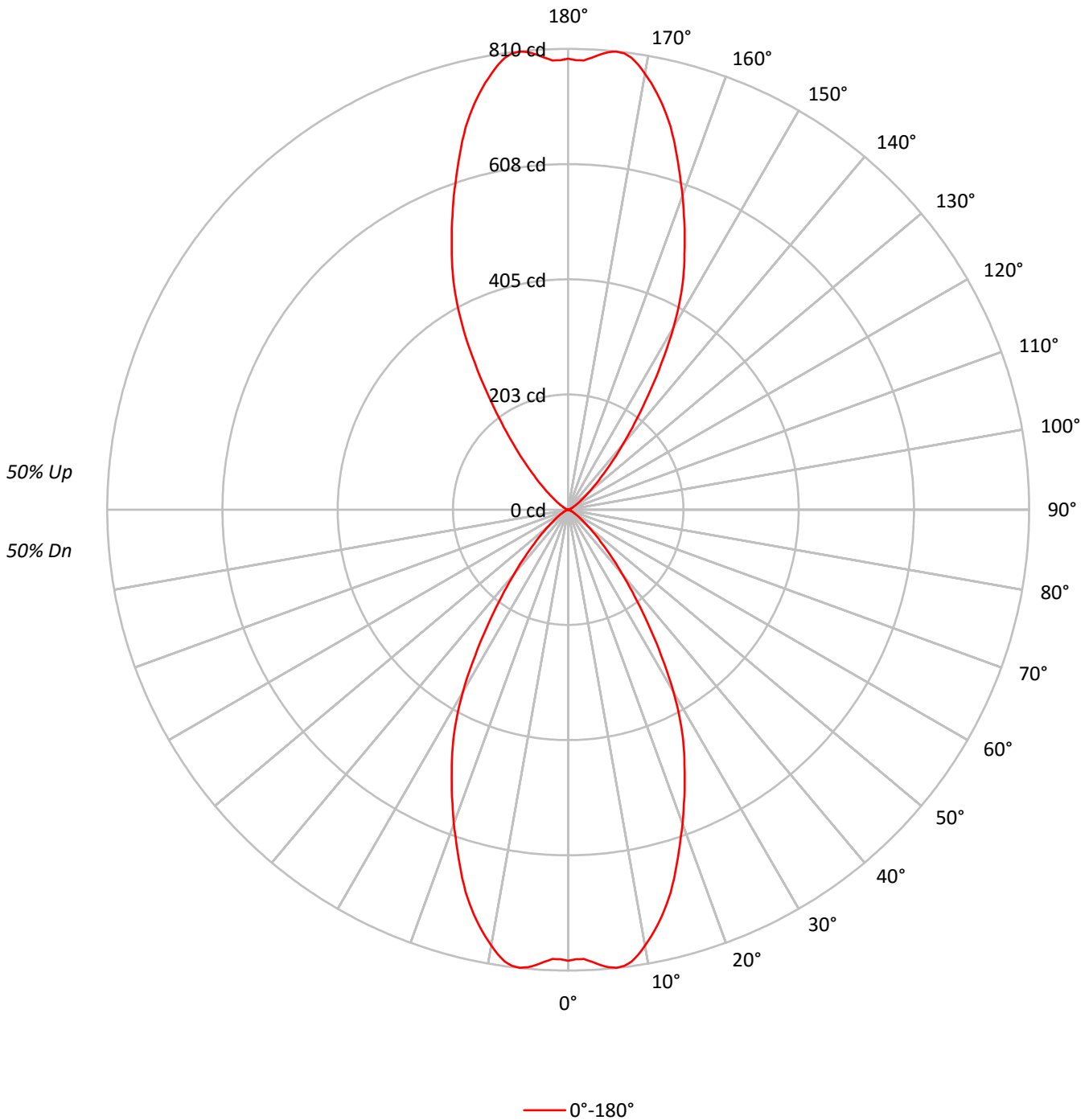
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-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	100	96	93	91	92	89	87	84	76	74	73		64	63	62		53	52	52	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	55		50	48	47	43
3	87	79	73	68	80	74	69	64	64	60	57		55	52	50		46	45	43	39
4	81	72	65	60	75	67	62	57	59	55	51		51	48	45		43	41	40	36
5	75	66	59	54	70	62	56	51	54	50	46		47	44	41		41	38	37	34
6	70	60	53	48	66	57	51	46	50	46	42		44	41	38		38	36	34	31
7	66	55	49	44	61	52	46	42	47	42	39		41	38	35		36	33	32	29
8	62	51	45	40	58	49	43	39	43	39	35		38	35	32		34	31	29	27
9	58	48	41	37	55	45	39	35	41	36	33		36	33	30		32	29	28	26
10	55	44	38	34	52	42	37	33	38	34	30		34	31	28		30	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391102
5°	399827
10°	389771
15°	355557
20°	308306
25°	262883
30°	211247
35°	147023
40°	95514
45°	58750
50°	35615
55°	21246
60°	12927
65°	8989
70°	5626
75°	4384
80°	4262
85°	4529



TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	5.1
10°-20°	192.7	12.9
20°-30°	219.9	14.7
30°-40°	154.3	10.3
40°-50°	68.0	4.6
50°-60°	23.5	1.6
60°-70°	7.8	0.5
70°-80°	2.7	0.2
80°-90°	0.6	0.0
90°-100°	0.6	0.0
100°-110°	2.7	0.2
110°-120°	7.8	0.5
120°-130°	23.5	1.6
130°-140°	68.0	4.6
140°-150°	154.3	10.3
150°-160°	219.9	14.7
160°-170°	192.7	12.9
170°-180°	76.3	5.1
0°-30°	488.9	32.8
0°-40°	643.1	43.1
0°-60°	734.7	49.3
0°-90°	745.9	50.0
90°-120°	11.2	0.7
90°-150°	257.0	17.2
90°-180°	746.0	50.0
0°-180°	1491.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	793	
5°	807	76
15°	696	193
25°	483	220
35°	244	154
45°	84	68
55°	25	24
65°	8	8
75°	2	3
85°	1	1
90°	0	0
95°	1	1
105°	2	3
115°	8	8
125°	25	24
135°	84	68
145°	244	154
155°	483	220
165°	696	193
175°	807	76
180°	793	



TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	792.7
1°	790.3
2°	790.3
3°	795.8
4°	801.9
5°	807.3
6°	809.7
7°	808.1
8°	801.9
9°	791.1
10°	778.0
11°	764.1
12°	748.6
13°	732.4
14°	714.6
15°	696.1
16°	674.5
17°	652.1
18°	629.6
19°	608.0
20°	587.2
21°	565.5
22°	544.7
23°	523.8
24°	502.9
25°	482.9
26°	462.8
27°	441.9
28°	418.7
29°	394.8
30°	370.8
32.5°	304.4
35°	244.1
37.5°	191.6
40°	148.3
42.5°	112.8
45°	84.2
47.5°	62.6
50°	46.4
52.5°	34.0
55°	24.7
57.5°	17.8
60°	13.1
62.5°	10.0
65°	7.7



TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.4
70°	3.9
72.5°	3.1
75°	2.3
77.5°	2.3
80°	1.5
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.8
97.5°	0.8
100°	1.5
102.5°	2.3
105°	2.3
107.5°	3.1
110°	3.9
112.5°	5.4
115°	7.7
117.5°	10.0
120°	13.1
122.5°	17.8
125°	24.7
127.5°	34.0
130°	46.4
132.5°	62.6
135°	84.2
137.5°	112.8
140°	148.3
142.5°	191.6
145°	244.1
147.5°	304.4
150°	370.8
151°	394.8
152°	418.7
153°	441.9
154°	462.8
155°	482.9
156°	502.9
157°	523.8
158°	544.7
159°	565.5
160°	587.2
161°	608.0



TEST NUMBER: P221332

CATALOG NUMBER: 9002-W2-FL-LED3097-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	629.6
163°	652.1
164°	674.5
165°	696.1
166°	714.6
167°	732.4
168°	748.6
169°	764.1
170°	778.0
171°	791.1
172°	801.9
173°	808.1
174°	809.7
175°	807.3
176°	801.9
177°	795.8
178°	790.3
179°	790.3
180°	792.7

(END OF REPORT)