

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: P221244

Luminaire Tested: **9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
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]-LED3097-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1521.5 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

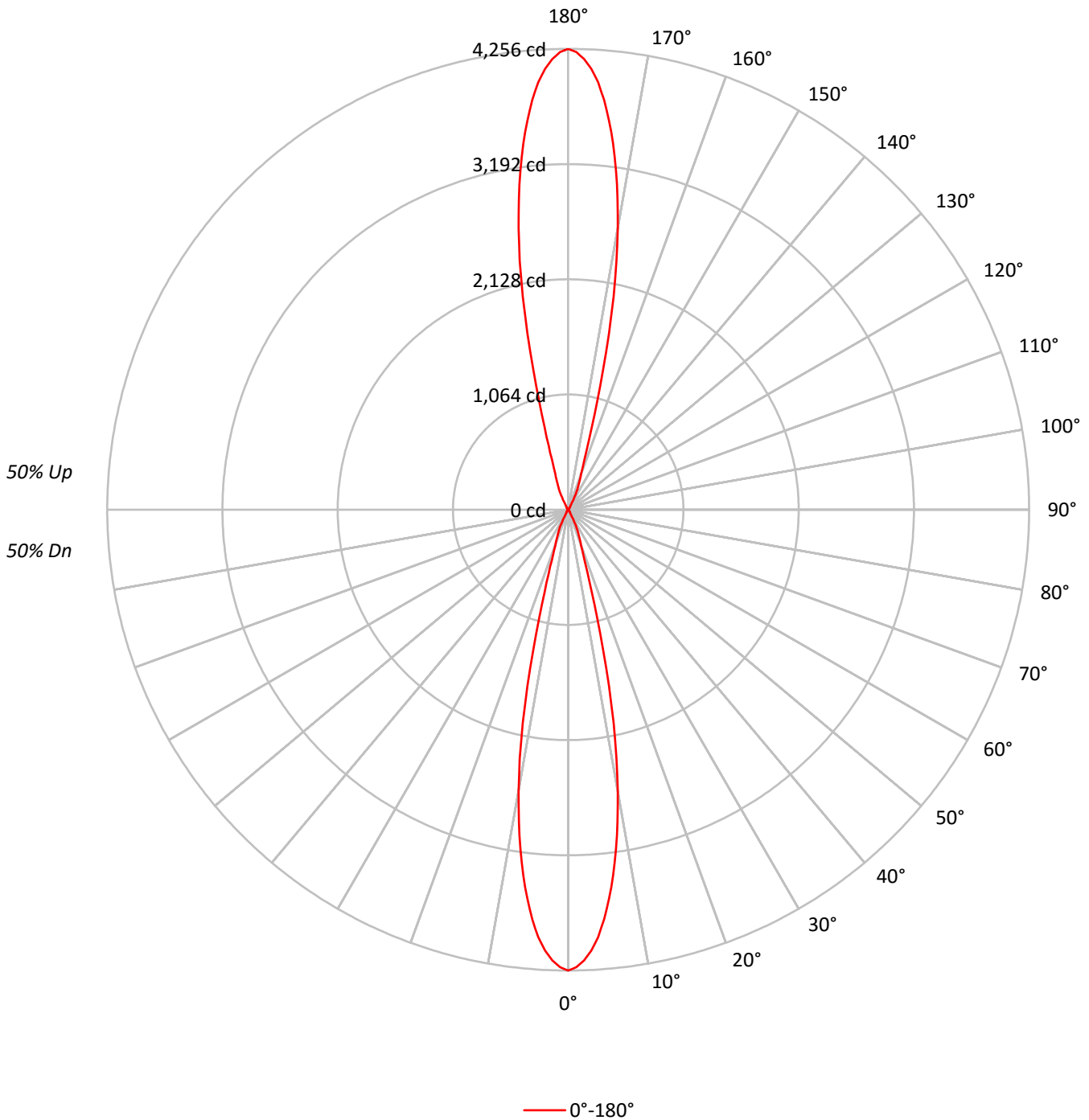
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-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	101	98	95	92	93	91	88	86	77	76	75		65	64	64		54	54	53	48
2	95	90	85	82	88	84	80	77	72	70	68		62	60	59		52	52	51	46
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	63	75	69	64	60	61	58	55		54	52	50		48	46	45	43
6	77	68	63	58	72	65	60	56	58	55	52		52	50	48		47	45	44	41
7	73	65	59	55	69	62	57	53	56	52	50		50	48	46		45	44	43	40
8	70	61	56	52	66	59	54	51	54	50	47		49	46	44		44	43	41	39
9	67	59	53	50	64	56	52	48	52	48	46		47	45	43		43	42	40	39
10	65	56	51	47	62	54	49	46	50	46	44		46	43	42		42	41	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2099873
5°	1881360
10°	1321413
15°	527231
20°	181298
25°	100929
30°	24668
35°	13492
40°	9983
45°	9140
50°	8904
55°	9290
60°	9177
65°	8989
70°	8944
75°	8769
80°	8808
85°	8491



TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.1	21.4
10°-20°	308.2	20.3
20°-30°	78.1	5.1
30°-40°	15.2	1.0
40°-50°	10.2	0.7
50°-60°	9.6	0.6
60°-70°	7.7	0.5
70°-80°	5.1	0.3
80°-90°	1.7	0.1
90°-100°	1.7	0.1
100°-110°	5.1	0.3
110°-120°	7.7	0.5
120°-130°	9.6	0.6
130°-140°	10.2	0.7
140°-150°	15.2	1.0
150°-160°	78.1	5.1
160°-170°	308.2	20.3
170°-180°	325.1	21.4
0°-30°	711.3	46.8
0°-40°	726.6	47.8
0°-60°	746.4	49.1
0°-90°	760.8	50.0
90°-120°	14.4	0.9
90°-150°	49.4	3.2
90°-180°	761.0	50.0
0°-180°	1521.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4256	
5°	3799	325
15°	1032	308
25°	185	78
35°	22	15
45°	13	10
55°	11	10
65°	8	8
75°	5	5
85°	2	2
90°	0	0
95°	2	2
105°	5	5
115°	8	8
125°	11	10
135°	13	10
145°	22	15
155°	185	78
165°	1032	308
175°	3799	325
180°	4256	



TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4256.1
1°	4226.8
2°	4165.7
3°	4077.6
4°	3956.3
5°	3798.7
6°	3613.3
7°	3403.2
8°	3168.3
9°	2911.1
10°	2637.6
11°	2340.9
12°	2012.6
13°	1671.1
14°	1331.9
15°	1032.2
16°	791.1
17°	615.0
18°	491.4
19°	405.6
20°	345.3
22.5°	251.1
25°	185.4
26°	149.1
27°	105.1
28°	70.3
29°	52.5
30°	43.3
32.5°	29.4
35°	22.4
37.5°	17.8
40°	15.5
42.5°	13.9
45°	13.1
47.5°	12.4
50°	11.6
52.5°	11.6
55°	10.8
57.5°	10.0
60°	9.3
62.5°	8.5
65°	7.7
67.5°	7.0
70°	6.2
72.5°	5.4



TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	4.6
77.5°	4.6
80°	3.1
82.5°	2.3
85°	1.5
87.5°	0.8
90°	0.0
92.5°	0.8
95°	1.5
97.5°	2.3
100°	3.1
102.5°	4.6
105°	4.6
107.5°	5.4
110°	6.2
112.5°	7.0
115°	7.7
117.5°	8.5
120°	9.3
122.5°	10.0
125°	10.8
127.5°	11.6
130°	11.6
132.5°	12.4
135°	13.1
137.5°	13.9
140°	15.5
142.5°	17.8
145°	22.4
147.5°	29.4
150°	43.3
151°	52.5
152°	70.3
153°	105.1
154°	149.1
155°	185.4
157.5°	251.1
160°	345.3
161°	405.6
162°	491.4
163°	615.0
164°	791.1
165°	1032.2
166°	1331.9
167°	1671.1



TEST NUMBER: P221244

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	2012.6
169°	2340.9
170°	2637.6
171°	2911.1
172°	3168.3
173°	3403.2
174°	3613.3
175°	3798.7
176°	3956.3
177°	4077.6
178°	4165.7
179°	4226.8
180°	4256.1

(END OF REPORT)