

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: P221023

Luminaire Tested: **9004-W1-FL-LED4097-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED4097-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2212.4 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

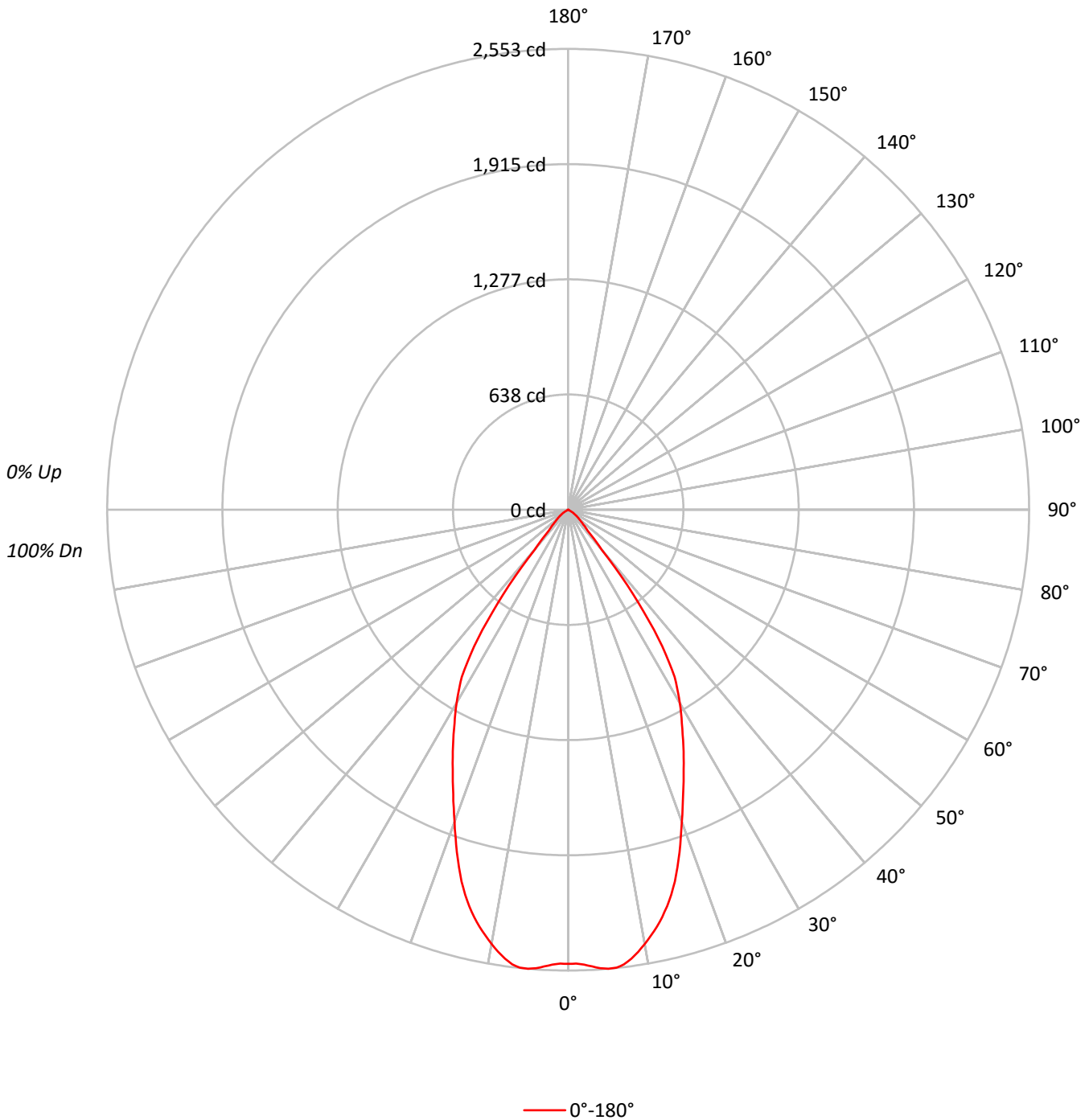
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221023

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221023

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L3-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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78	74	72	70
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59		67	62	59		66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56		63	59	55		63	58	55	54
10	72	62	56	53	71	62	56	52	61	56	52		60	55	52		59	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	310325
5°	316117
10°	306070
15°	281878
20°	241561
25°	206010
30°	176168
35°	131695
40°	46727
45°	21857
50°	14449
55°	9720
60°	4884
65°	1167
70°	866
75°	763
80°	0
85°	0



TEST NUMBER: P221023

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	10.9
10°-20°	609.3	27.5
20°-30°	695.5	31.4
30°-40°	510.6	23.1
40°-50°	108.4	4.9
50°-60°	41.0	1.9
60°-70°	5.9	0.3
70°-80°	1.6	0.1
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°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1545.0	69.8
0°-40°	2055.6	92.9
0°-60°	2205.0	99.7
0°-90°	2212.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2516	
5°	2553	240
15°	2207	609
25°	1514	696
35°	875	511
45°	125	108
55°	45	41
65°	4	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P221023

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2515.9
1°	2515.1
2°	2521.4
3°	2534.1
4°	2546.0
5°	2553.1
6°	2551.6
7°	2538.1
8°	2511.9
9°	2479.4
10°	2443.7
11°	2403.3
12°	2362.1
13°	2315.3
14°	2264.5
15°	2207.4
16°	2142.4
17°	2070.3
18°	1995.7
19°	1917.2
20°	1840.3
21°	1769.0
22°	1700.0
23°	1635.0
24°	1573.1
25°	1513.7
26°	1455.8
27°	1397.1
28°	1340.8
29°	1288.5
30°	1236.9
32.5°	1098.2
35°	874.6
37.5°	590.7
40°	290.2
42.5°	163.3
45°	125.3
47.5°	98.3
50°	75.3
52.5°	59.5
55°	45.2
57.5°	32.5
60°	19.8
62.5°	5.6
65°	4.0



TEST NUMBER: P221023

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.2
70°	2.4
72.5°	2.4
75°	1.6
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)