

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: P221014

Luminaire Tested: **9004-W1-FL-LED4097-W-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221014
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-L2-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: 1707.6 lumens
Efficiency: N/A
Efficacy: 85.0 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

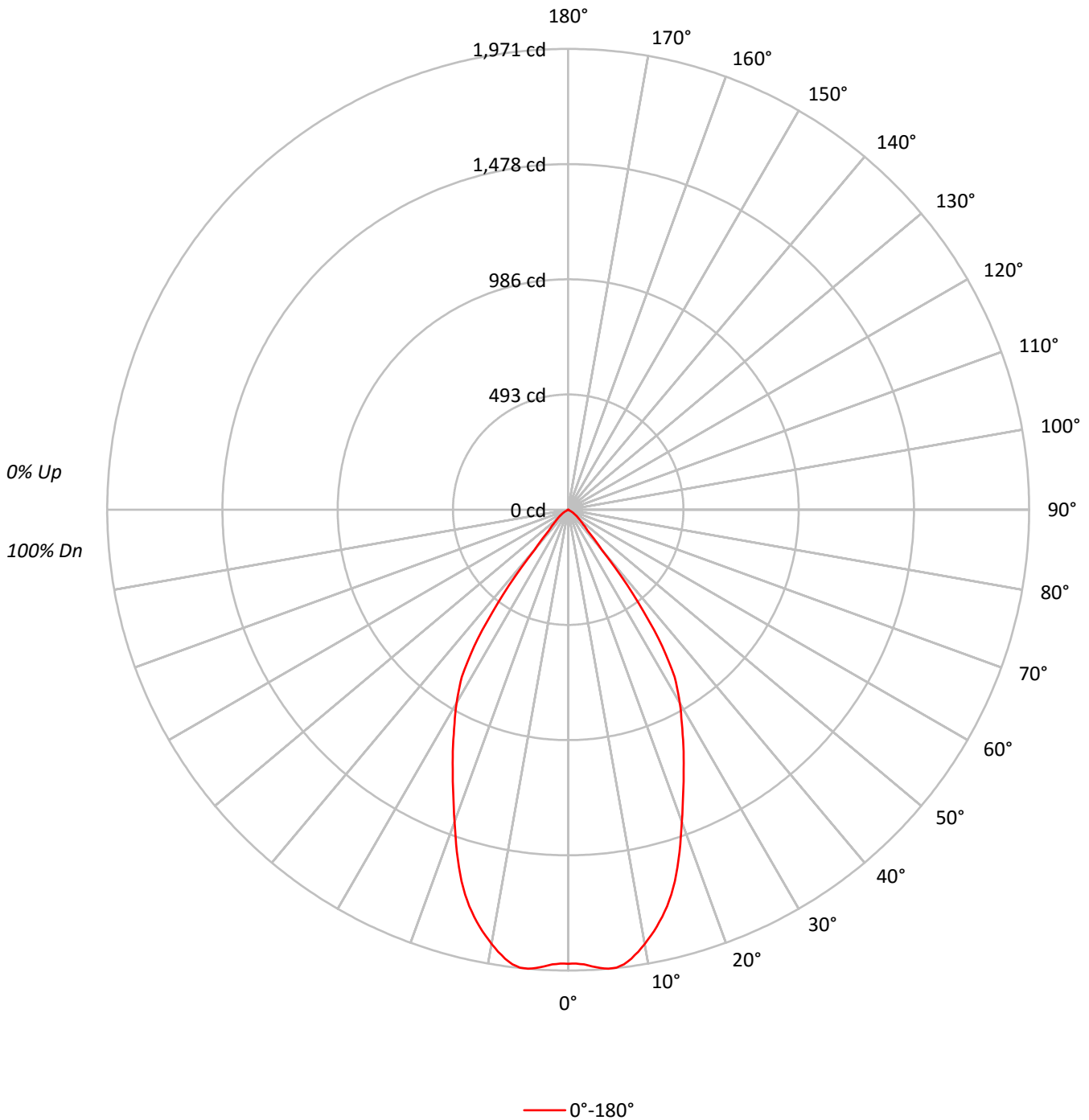
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221014

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221014

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L2-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°	239525
5°	244006
10°	236244
15°	217583
20°	186457
25°	159002
30°	135990
35°	101655
40°	36068
45°	16868
50°	11149
55°	7505
60°	3774
65°	905
70°	649
75°	572
80°	0
85°	0



TEST NUMBER: P221014

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	10.9
10°-20°	470.3	27.5
20°-30°	536.8	31.4
30°-40°	394.1	23.1
40°-50°	83.7	4.9
50°-60°	31.6	1.9
60°-70°	4.5	0.3
70°-80°	1.2	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°	1192.6	69.8
0°-40°	1586.7	92.9
0°-60°	1702.0	99.7
0°-90°	1707.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1971	185
15°	1704	470
25°	1168	537
35°	675	394
45°	97	84
55°	35	32
65°	3	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P221014

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1941.9
1°	1941.3
2°	1946.2
3°	1956.0
4°	1965.2
5°	1970.7
6°	1969.5
7°	1959.1
8°	1938.9
9°	1913.8
10°	1886.2
11°	1855.0
12°	1823.2
13°	1787.1
14°	1747.9
15°	1703.9
16°	1653.7
17°	1598.0
18°	1540.5
19°	1479.9
20°	1420.5
21°	1365.4
22°	1312.2
23°	1262.0
24°	1214.2
25°	1168.3
26°	1123.7
27°	1078.4
28°	1034.9
29°	994.5
30°	954.8
32.5°	847.6
35°	675.1
37.5°	456.0
40°	224.0
42.5°	126.1
45°	96.7
47.5°	75.9
50°	58.1
52.5°	45.9
55°	34.9
57.5°	25.1
60°	15.3
62.5°	4.3
65°	3.1



TEST NUMBER: P221014

CATALOG NUMBER: 9004-W1-FL-LED4097-W-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.4
70°	1.8
72.5°	1.8
75°	1.2
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)