

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: P221117

Luminaire Tested: **9004-W1-FL-LED3097-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221117
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-LED3097-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1520.1 lumens
Efficiency: N/A
Efficacy: 75.6 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

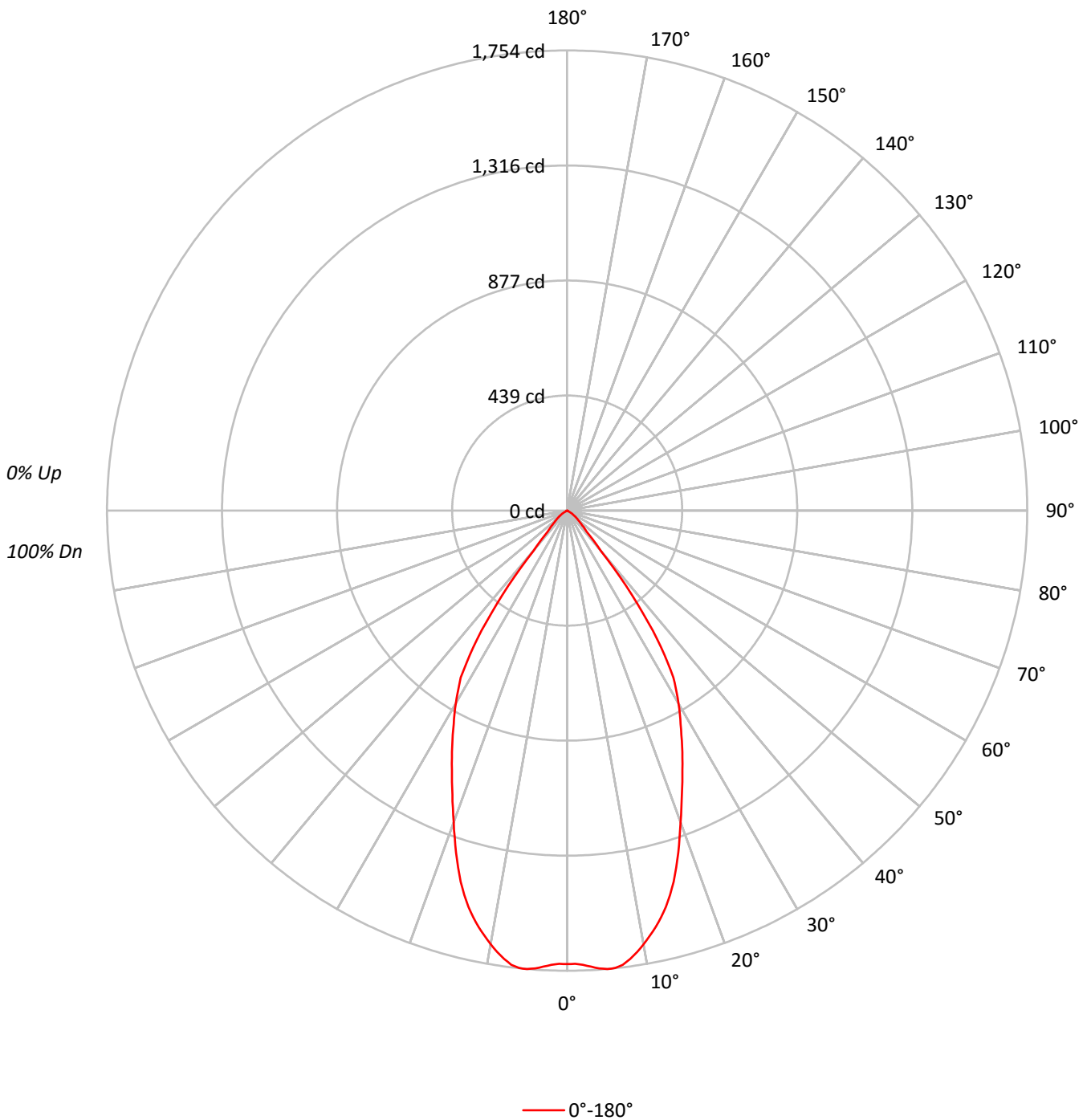
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221117

CATALOG NUMBER: 9004-W1-FL-LED3097-W-BK-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221117

CATALOG NUMBER: 9004-W1-FL-LED3097-W-BK-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°	213228
5°	217212
10°	210305
15°	193690
20°	165980
25°	141554
30°	121049
35°	90482
40°	32107
45°	15019
50°	9940
55°	6688
60°	3355
65°	788
70°	577
75°	524
80°	0
85°	0



TEST NUMBER: P221117

CATALOG NUMBER: 9004-W1-FL-LED3097-W-BK-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	10.9
10°-20°	418.6	27.5
20°-30°	477.9	31.4
30°-40°	350.8	23.1
40°-50°	74.5	4.9
50°-60°	28.2	1.9
60°-70°	4.0	0.3
70°-80°	1.1	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°	1061.6	69.8
0°-40°	1412.4	92.9
0°-60°	1515.1	99.7
0°-90°	1520.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1520.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1729	
5°	1754	165
15°	1517	419
25°	1040	478
35°	601	351
45°	86	74
55°	31	28
65°	3	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P221117

CATALOG NUMBER: 9004-W1-FL-LED3097-W-BK-L2-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1728.7
1°	1728.2
2°	1732.5
3°	1741.2
4°	1749.4
5°	1754.3
6°	1753.2
7°	1744.0
8°	1726.0
9°	1703.6
10°	1679.1
11°	1651.3
12°	1623.0
13°	1590.9
14°	1556.0
15°	1516.8
16°	1472.1
17°	1422.5
18°	1371.3
19°	1317.4
20°	1264.5
21°	1215.5
22°	1168.1
23°	1123.4
24°	1080.9
25°	1040.1
26°	1000.3
27°	960.0
28°	921.3
29°	885.3
30°	849.9
32.5°	754.6
35°	600.9
37.5°	405.9
40°	199.4
42.5°	112.2
45°	86.1
47.5°	67.6
50°	51.8
52.5°	40.9
55°	31.1
57.5°	22.3
60°	13.6
62.5°	3.8
65°	2.7



TEST NUMBER: P221117

CATALOG NUMBER: 9004-W1-FL-LED3097-W-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.2
70°	1.6
72.5°	1.6
75°	1.1
77.5°	0.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)