

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: P220386

Luminaire Tested: **9002-W1-FL-LED3090-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29419)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W1-FL-LED3090-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 830.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

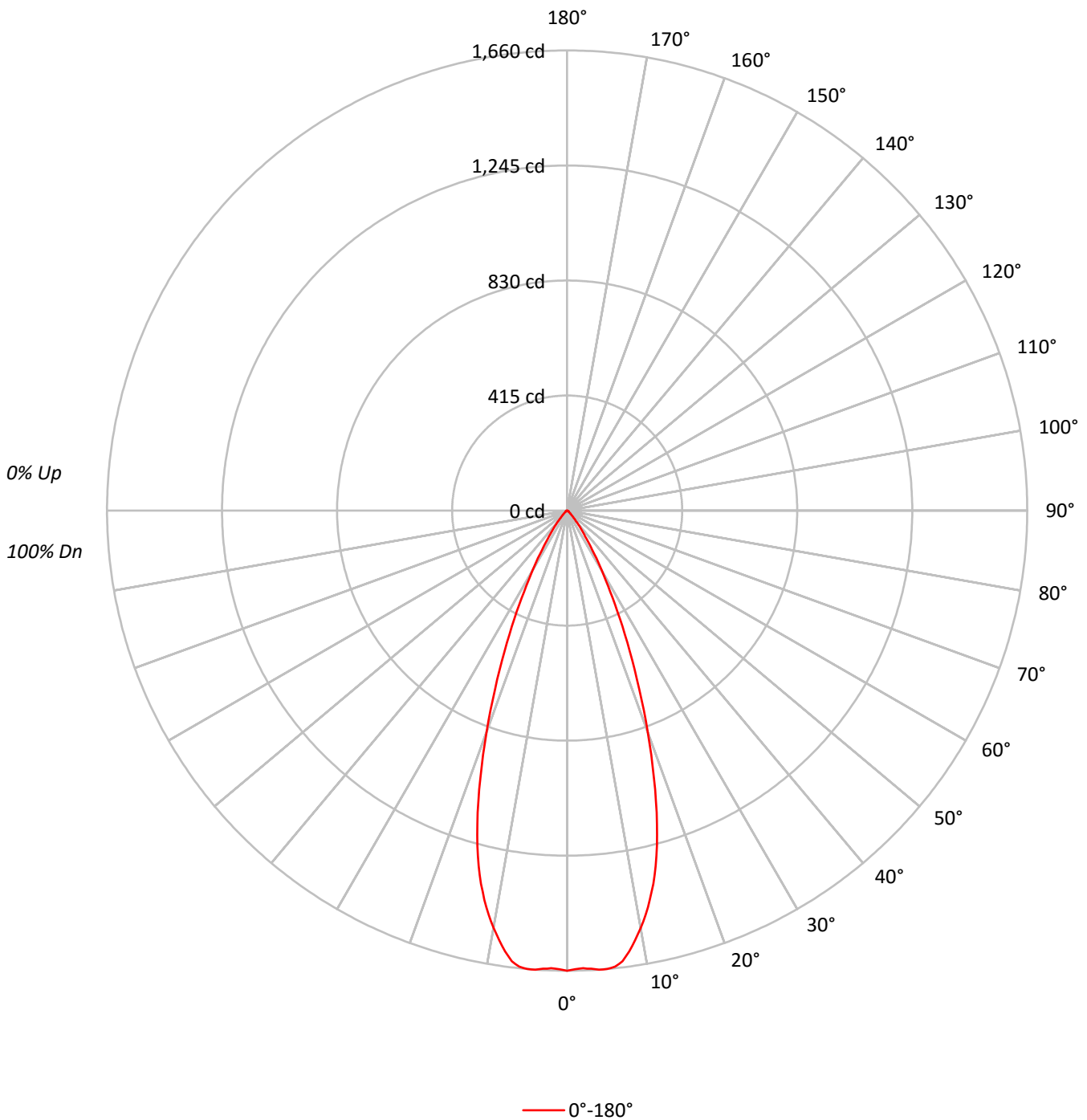
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220386

CATALOG NUMBER: 9002-W1-FL-LED3090-F-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220386

CATALOG NUMBER: 9002-W1-FL-LED3090-F-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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	110	108	106	106	104	102		102	101	99		98	97	97	95
2	109	105	102	99	107	103	100	97	100	98	95		97	95	93		95	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89		93	90	88		91	89	87	85
4	101	94	89	86	99	93	89	85	91	87	84		89	86	83		87	85	82	81
5	97	89	84	81	95	89	84	80	87	83	80		85	82	79		84	81	78	77
6	93	85	80	76	91	84	80	76	83	79	76		82	78	75		80	77	75	73
7	89	81	76	73	88	81	76	72	79	75	72		78	74	72		77	74	71	70
8	86	78	73	69	85	77	72	69	76	72	69		75	71	68		74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66		72	68	65		71	68	65	64
10	80	71	66	63	79	71	66	63	70	66	63		70	66	63		69	65	63	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	819059
5°	822188
10°	765764
15°	638940
20°	445709
25°	268218
30°	141686
35°	68121
40°	32525
45°	15141
50°	8597
55°	5505
60°	4736
65°	4670
70°	4616
75°	4575
80°	4546
85°	4529



TEST NUMBER: P220386

CATALOG NUMBER: 9002-W1-FL-LED3090-F-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	18.6
10°-20°	337.5	40.7
20°-30°	228.3	27.5
30°-40°	77.3	9.3
40°-50°	18.9	2.3
50°-60°	6.2	0.8
60°-70°	4.2	0.5
70°-80°	2.5	0.3
80°-90°	0.7	0.1
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°	720.3	86.8
0°-40°	797.6	96.1
0°-60°	822.8	99.1
0°-90°	830.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1660	
5°	1660	154
15°	1251	338
25°	493	228
35°	113	77
45°	22	19
55°	6	6
65°	4	4
75°	2	3
85°	1	1
90°	0	



TEST NUMBER: P220386

CATALOG NUMBER: 9002-W1-FL-LED3090-F-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1660.1
1°	1654.5
2°	1652.1
3°	1655.3
4°	1660.1
5°	1660.1
6°	1654.5
7°	1637.6
8°	1606.4
9°	1569.4
10°	1528.5
11°	1485.2
12°	1435.4
13°	1381.7
14°	1320.7
15°	1250.9
16°	1176.3
17°	1096.0
18°	1012.6
19°	932.4
20°	848.9
21°	771.1
22°	694.9
23°	622.6
24°	555.2
25°	492.7
26°	434.1
27°	380.3
28°	331.4
29°	288.1
30°	248.7
32.5°	168.5
35°	113.1
37.5°	76.2
40°	50.5
42.5°	32.1
45°	21.7
47.5°	15.2
50°	11.2
52.5°	8.0
55°	6.4
57.5°	5.6
60°	4.8
62.5°	4.8
65°	4.0



TEST NUMBER: P220386

CATALOG NUMBER: 9002-W1-FL-LED3090-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.0
70°	3.2
72.5°	3.2
75°	2.4
77.5°	1.6
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0

(END OF REPORT)