

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: P221017

Luminaire Tested: **9004-W1-FL-LED3590-W-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221017  
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-LED3590-W-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2255.3 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

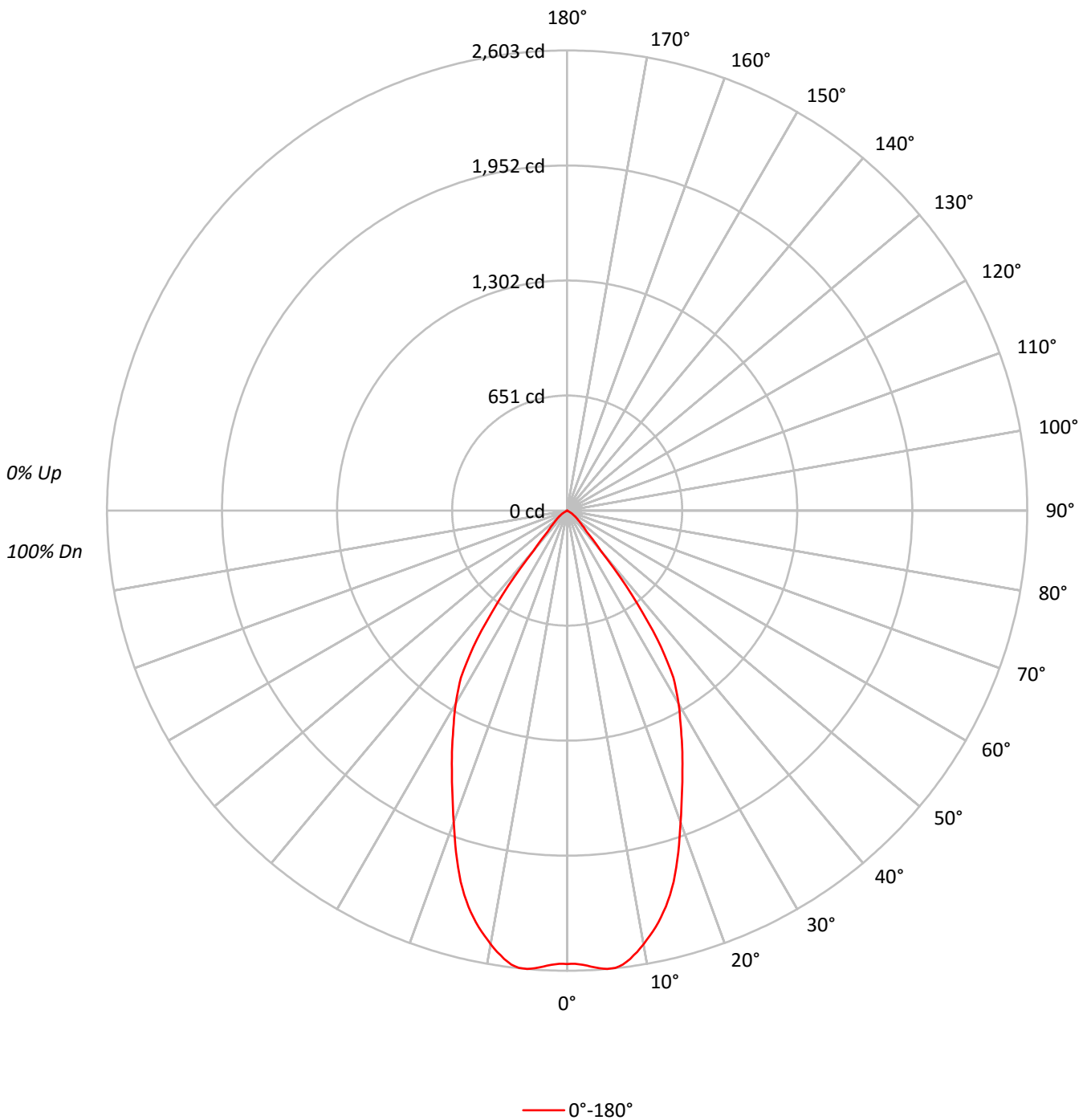
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221017

CATALOG NUMBER: 9004-W1-FL-LED3590-W-WT-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221017

CATALOG NUMBER: 9004-W1-FL-LED3590-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°	316357
5°	322270
10°	312031
15°	287369
20°	246260
25°	210011
30°	179601
35°	134255
40°	47629
45°	22276
50°	14737
55°	9914
60°	4983
65°	1167
70°	866
75°	763
80°	0
85°	0



TEST NUMBER: P221017

CATALOG NUMBER: 9004-W1-FL-LED3590-W-WT-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	10.9
10°-20°	621.1	27.5
20°-30°	709.0	31.4
30°-40°	520.5	23.1
40°-50°	110.5	4.9
50°-60°	41.8	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°	1575.1	69.8
0°-40°	2095.6	92.9
0°-60°	2247.8	99.7
0°-90°	2255.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2255.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2565	
5°	2603	245
15°	2250	621
25°	1543	709
35°	892	521
45°	128	110
55°	46	42
65°	4	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P221017

CATALOG NUMBER: 9004-W1-FL-LED3590-W-WT-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2564.8
1°	2564.0
2°	2570.5
3°	2583.4
4°	2595.5
5°	2602.8
6°	2601.2
7°	2587.5
8°	2560.8
9°	2527.6
10°	2491.3
11°	2450.0
12°	2408.0
13°	2360.3
14°	2308.6
15°	2250.4
16°	2184.1
17°	2110.5
18°	2034.6
19°	1954.5
20°	1876.1
21°	1803.4
22°	1733.1
23°	1666.8
24°	1603.7
25°	1543.1
26°	1484.1
27°	1424.3
28°	1366.9
29°	1313.5
30°	1261.0
32.5°	1119.5
35°	891.6
37.5°	602.2
40°	295.8
42.5°	166.5
45°	127.7
47.5°	100.2
50°	76.8
52.5°	60.6
55°	46.1
57.5°	33.1
60°	20.2
62.5°	5.7
65°	4.0



TEST NUMBER: P221017

CATALOG NUMBER: 9004-W1-FL-LED3590-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)