

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: P221109

Luminaire Tested: **9004-W1-FL-LED3597-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221109
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-LED3597-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.8 lumens
Efficiency: N/A
Efficacy: 95.3 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

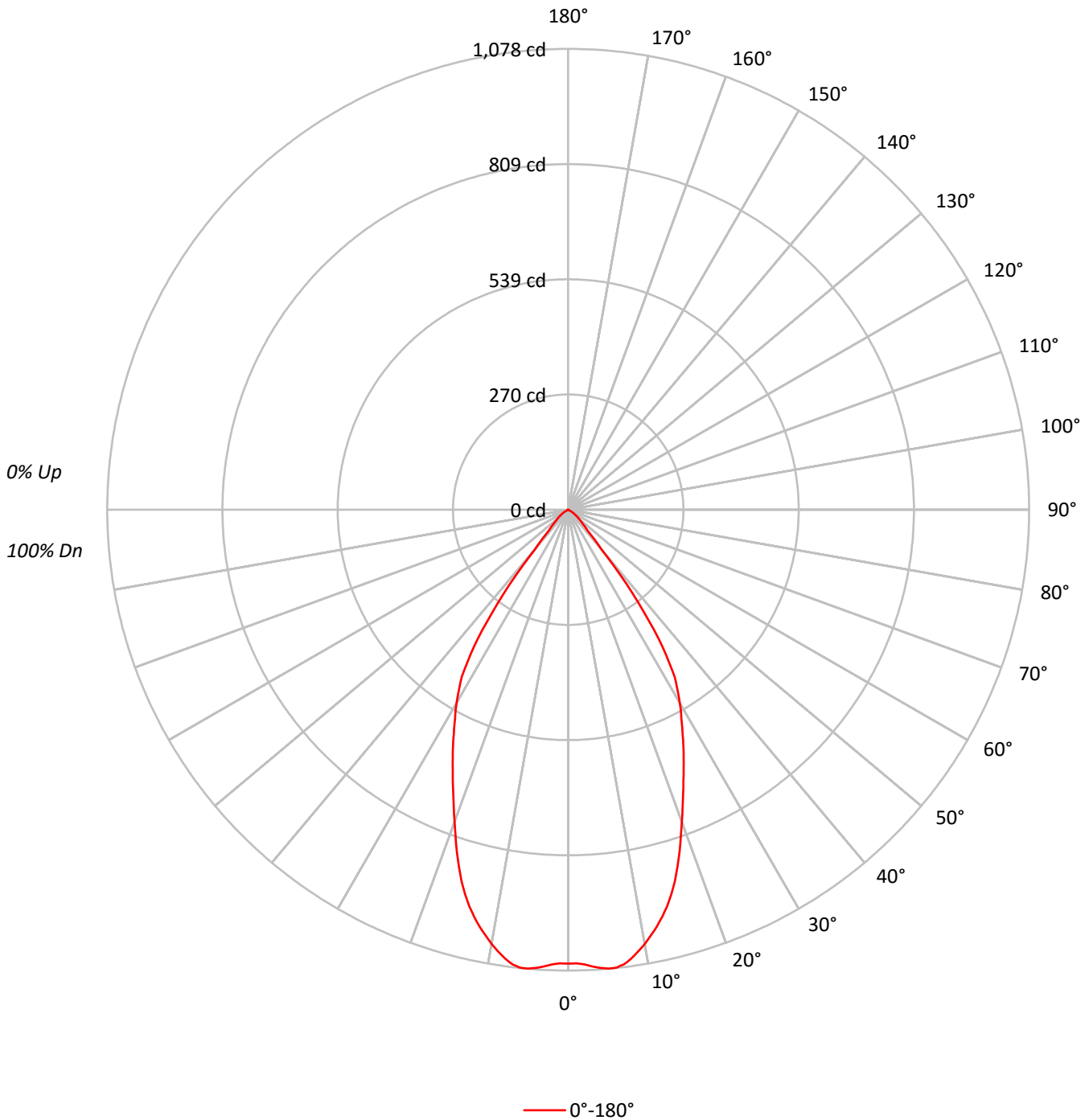
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221109

CATALOG NUMBER: 9004-W1-FL-LED3597-W-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221109

CATALOG NUMBER: 9004-W1-FL-LED3597-W-BK-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	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°	130993
5°	133437
10°	129194
15°	118988
20°	101964
25°	86952
30°	74361
35°	55593
40°	19724
45°	9228
50°	6102
55°	4107
60°	2072
65°	496
70°	361
75°	334
80°	0
85°	0



TEST NUMBER: P221109

CATALOG NUMBER: 9004-W1-FL-LED3597-W-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	10.9
10°-20°	257.2	27.5
20°-30°	293.6	31.4
30°-40°	215.5	23.1
40°-50°	45.7	4.9
50°-60°	17.3	1.9
60°-70°	2.4	0.3
70°-80°	0.7	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°	652.2	69.8
0°-40°	867.7	92.9
0°-60°	930.7	99.7
0°-90°	933.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1078	101
15°	932	257
25°	639	294
35°	369	216
45°	53	46
55°	19	17
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P221109

CATALOG NUMBER: 9004-W1-FL-LED3597-W-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1062.0
1°	1061.6
2°	1064.3
3°	1069.7
4°	1074.7
5°	1077.7
6°	1077.0
7°	1071.3
8°	1060.3
9°	1046.6
10°	1031.5
11°	1014.4
12°	997.0
13°	977.3
14°	955.9
15°	931.8
16°	904.3
17°	873.9
18°	842.4
19°	809.3
20°	776.8
21°	746.7
22°	717.6
23°	690.1
24°	664.0
25°	638.9
26°	614.5
27°	589.7
28°	566.0
29°	543.9
30°	522.1
32.5°	463.5
35°	369.2
37.5°	249.3
40°	122.5
42.5°	68.9
45°	52.9
47.5°	41.5
50°	31.8
52.5°	25.1
55°	19.1
57.5°	13.7
60°	8.4
62.5°	2.3
65°	1.7



TEST NUMBER: P221109

CATALOG NUMBER: 9004-W1-FL-LED3597-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.3
70°	1.0
72.5°	1.0
75°	0.7
77.5°	0.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)