

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: P221104

Luminaire Tested: **9004-W1-FL-LED3590-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221104
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 942.8 lumens
Efficiency: N/A
Efficacy: 96.2 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

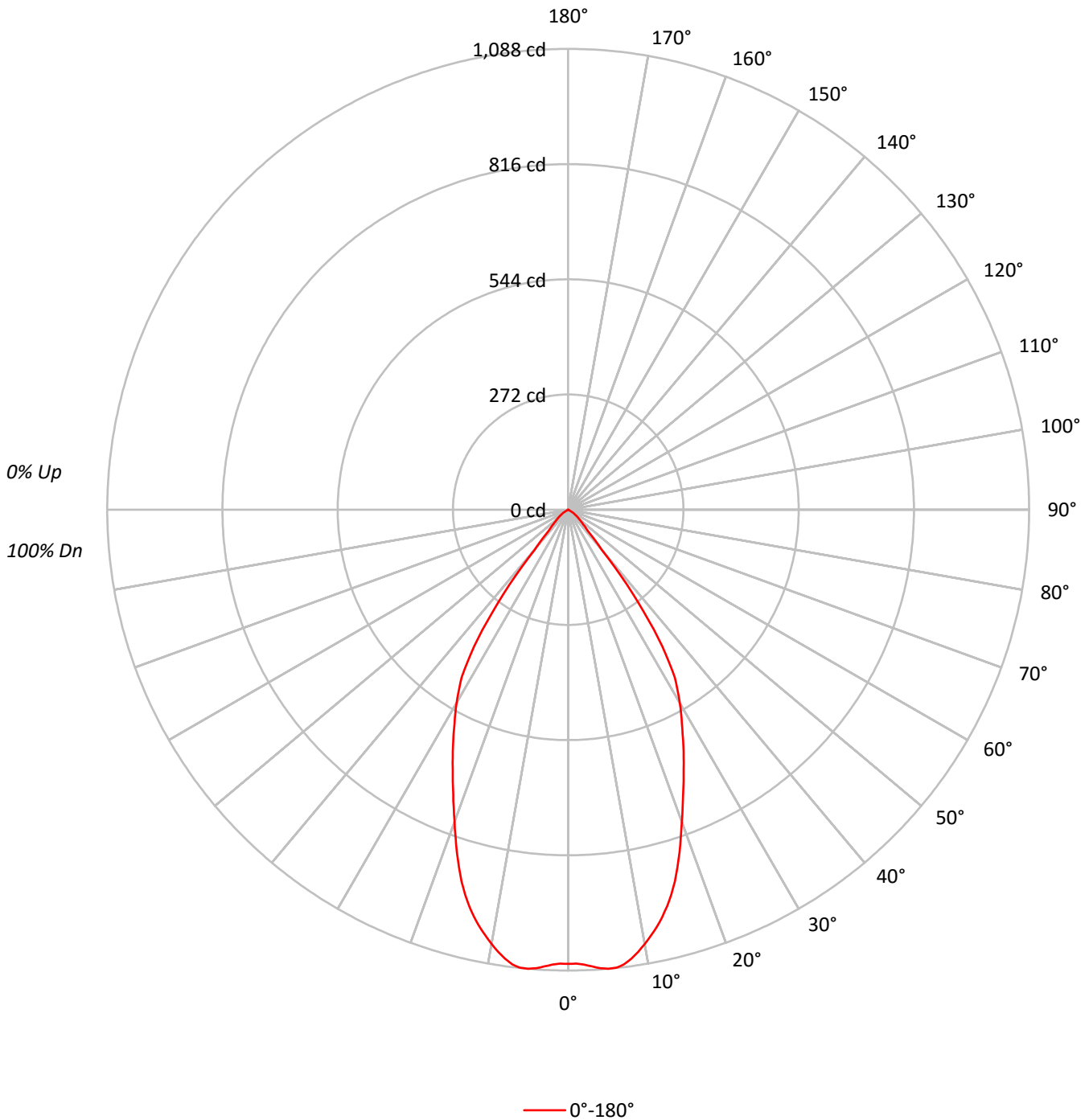
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	132251
5°	134725
10°	130434
15°	120124
20°	102949
25°	87796
30°	75073
35°	56120
40°	19918
45°	9315
50°	6160
55°	4150
60°	2072
65°	496
70°	361
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	10.9
10°-20°	259.7	27.5
20°-30°	296.4	31.4
30°-40°	217.6	23.1
40°-50°	46.2	4.9
50°-60°	17.5	1.9
60°-70°	2.5	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°	658.4	69.8
0°-40°	876.0	92.9
0°-60°	939.7	99.7
0°-90°	942.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1072	
5°	1088	102
15°	941	260
25°	645	296
35°	373	218
45°	53	46
55°	19	17
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1072.2
1°	1071.9
2°	1074.6
3°	1080.0
4°	1085.0
5°	1088.1
6°	1087.4
7°	1081.7
8°	1070.5
9°	1056.7
10°	1041.4
11°	1024.2
12°	1006.6
13°	986.7
14°	965.1
15°	940.7
16°	913.0
17°	882.3
18°	850.5
19°	817.1
20°	784.3
21°	753.9
22°	724.5
23°	696.8
24°	670.4
25°	645.1
26°	620.4
27°	595.4
28°	571.4
29°	549.1
30°	527.1
32.5°	468.0
35°	372.7
37.5°	251.7
40°	123.7
42.5°	69.6
45°	53.4
47.5°	41.9
50°	32.1
52.5°	25.3
55°	19.3
57.5°	13.9
60°	8.4
62.5°	2.4
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.4
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)