

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: P220794

Luminaire Tested: **9004-W1-[RW, RI]-LED3597-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-[RW, RI]-LED3597-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 869.5 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

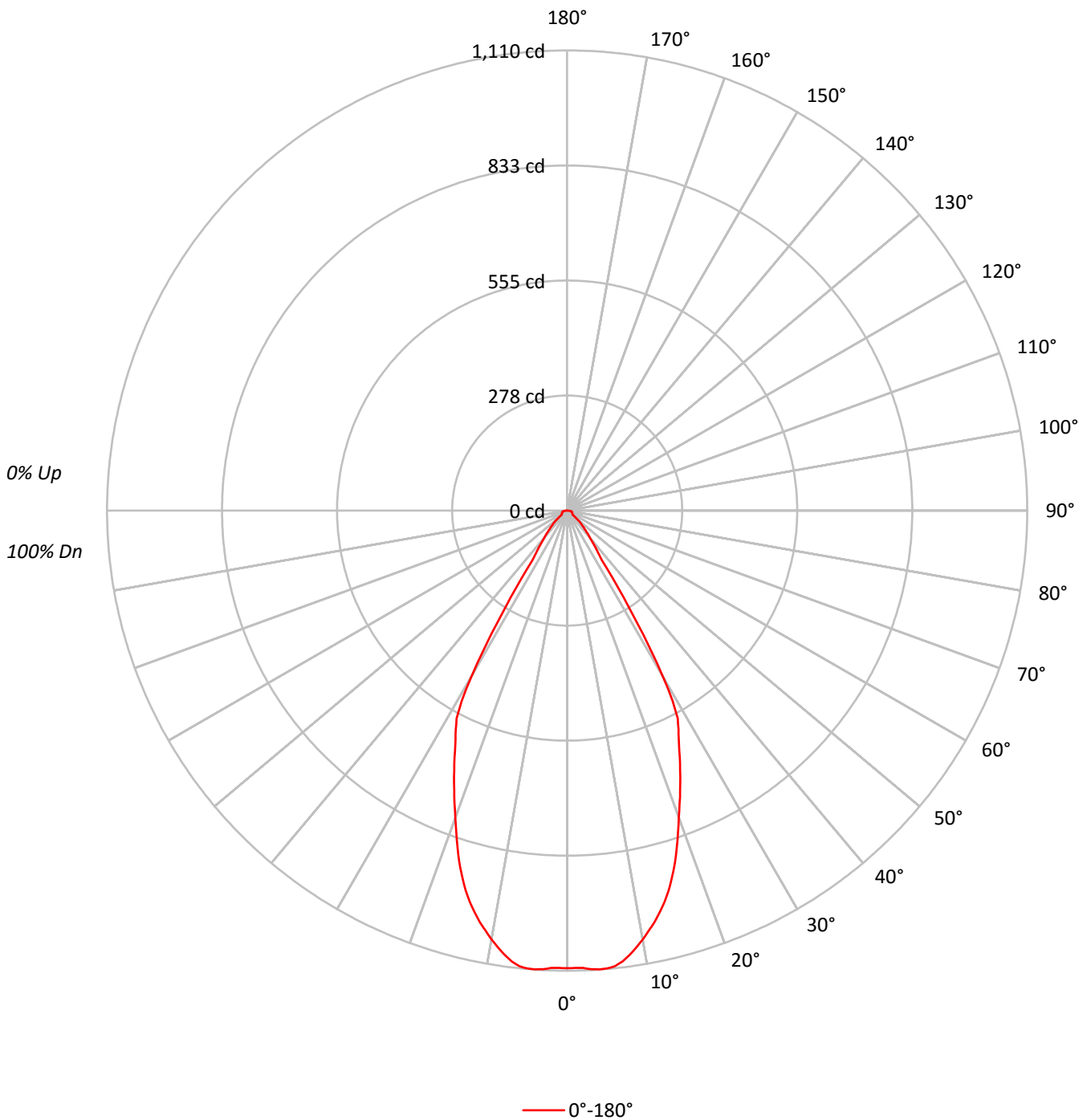
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136186
5°	137288
10°	131548
15°	121031
20°	103460
25°	87088
30°	65830
35°	21879
40°	13896
45°	9454
50°	5526
55°	3312
60°	3626
65°	3998
70°	4580
75°	5576
80°	6677
85°	6652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	12.0
10°-20°	261.4	30.1
20°-30°	292.8	33.7
30°-40°	122.5	14.1
40°-50°	42.5	4.9
50°-60°	15.5	1.8
60°-70°	13.6	1.6
70°-80°	12.1	1.4
80°-90°	5.1	0.6
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°	658.2	75.7
0°-40°	780.6	89.8
0°-60°	838.6	96.5
0°-90°	869.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	869.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1104	
5°	1109	104
15°	948	261
25°	640	293
35°	145	122
45°	54	43
55°	15	15
65°	14	14
75°	12	12
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1104.1
1°	1103.1
2°	1104.1
3°	1107.5
4°	1109.5
5°	1108.8
6°	1104.8
7°	1096.1
8°	1082.4
9°	1067.0
10°	1050.3
11°	1032.5
12°	1014.4
13°	994.0
14°	972.3
15°	947.8
16°	918.7
17°	888.3
18°	855.5
19°	821.3
20°	788.2
21°	757.4
22°	727.6
23°	698.2
24°	669.4
25°	639.9
26°	614.2
27°	591.4
28°	568.0
29°	525.1
30°	462.2
32.5°	277.1
35°	145.3
37.5°	111.1
40°	86.3
42.5°	67.3
45°	54.2
47.5°	43.5
50°	28.8
52.5°	17.1
55°	15.4
57.5°	15.1
60°	14.7
62.5°	14.4
65°	13.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.1
70°	12.7
72.5°	12.4
75°	11.7
77.5°	10.7
80°	9.4
82.5°	7.4
85°	4.7
87.5°	2.0
90°	0.0

(END OF REPORT)