

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: P220772

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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]-LED3590-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1683.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

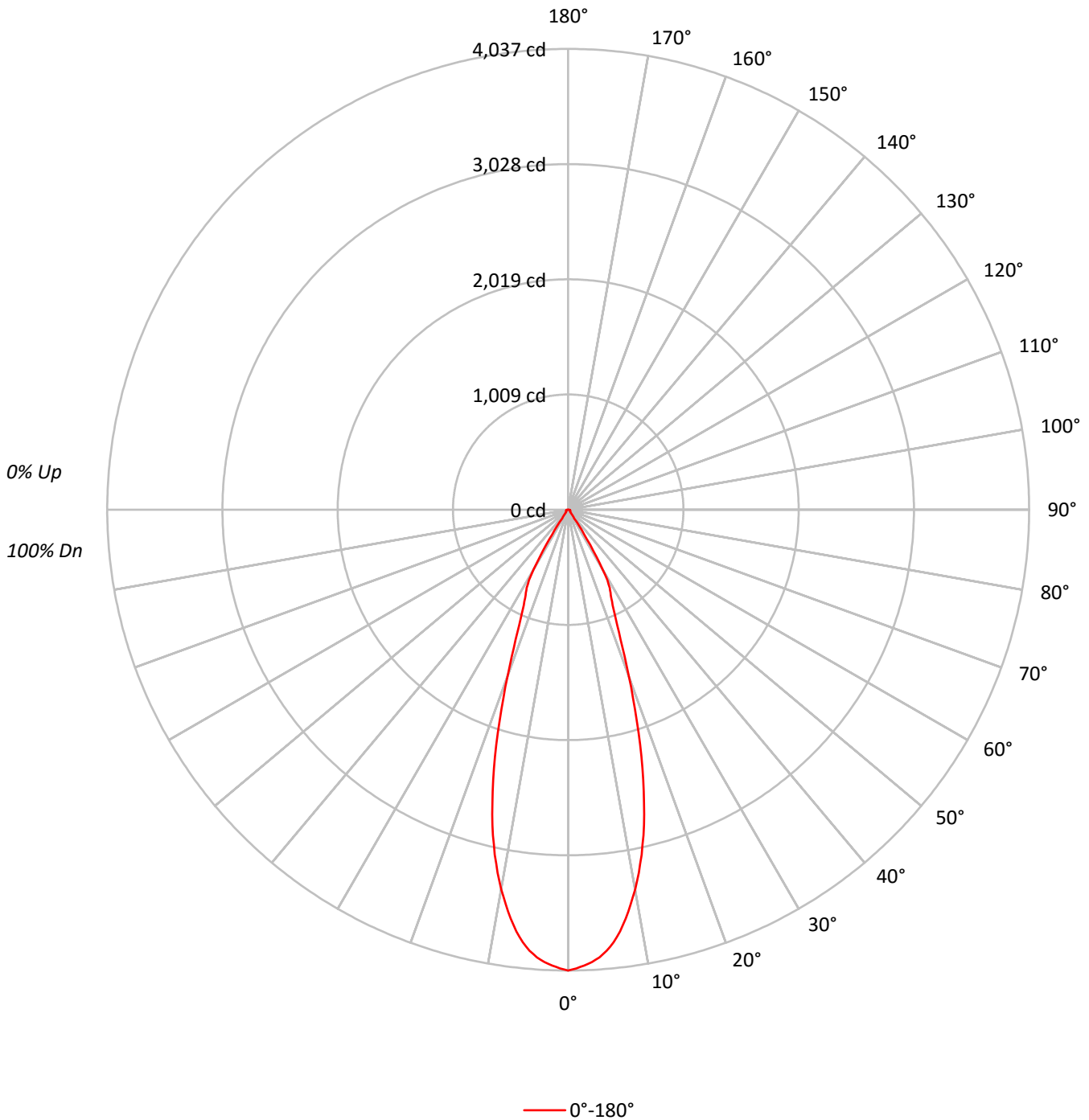
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	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	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	497996
5°	480199
10°	422851
15°	326508
20°	203849
25°	125509
30°	86026
35°	13522
40°	6135
45°	4134
50°	4318
55°	4688
60°	5230
65°	5837
70°	6744
75°	8340
80°	9731
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	21.0
10°-20°	686.6	40.8
20°-30°	444.6	26.4
30°-40°	114.4	6.8
40°-50°	19.5	1.2
50°-60°	19.7	1.2
60°-70°	19.8	1.2
70°-80°	17.8	1.1
80°-90°	7.5	0.4
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°	1485.3	88.2
0°-40°	1599.6	95.0
0°-60°	1638.9	97.3
0°-90°	1683.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4037	
5°	3878	354
15°	2557	687
25°	922	445
35°	90	114
45°	24	20
55°	22	20
65°	20	20
75°	18	18
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4037.4
1°	4019.3
2°	3995.6
3°	3967.5
4°	3931.4
5°	3878.3
6°	3810.9
7°	3723.0
8°	3617.5
9°	3500.2
10°	3376.1
11°	3240.0
12°	3090.3
13°	2928.1
14°	2750.3
15°	2556.9
16°	2357.2
17°	2151.9
18°	1946.0
19°	1743.3
20°	1553.0
21°	1378.9
22°	1227.3
23°	1099.4
24°	998.9
25°	922.2
26°	861.6
27°	814.8
28°	775.5
29°	706.9
30°	604.0
32.5°	302.0
35°	89.8
37.5°	57.4
40°	38.1
42.5°	24.3
45°	23.7
47.5°	23.1
50°	22.5
52.5°	22.5
55°	21.8
57.5°	21.8
60°	21.2
62.5°	20.6
65°	20.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.3
70°	18.7
72.5°	18.1
75°	17.5
77.5°	15.6
80°	13.7
82.5°	10.6
85°	6.9
87.5°	3.1
90°	0.0

(END OF REPORT)