

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: P220876

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1566.9 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

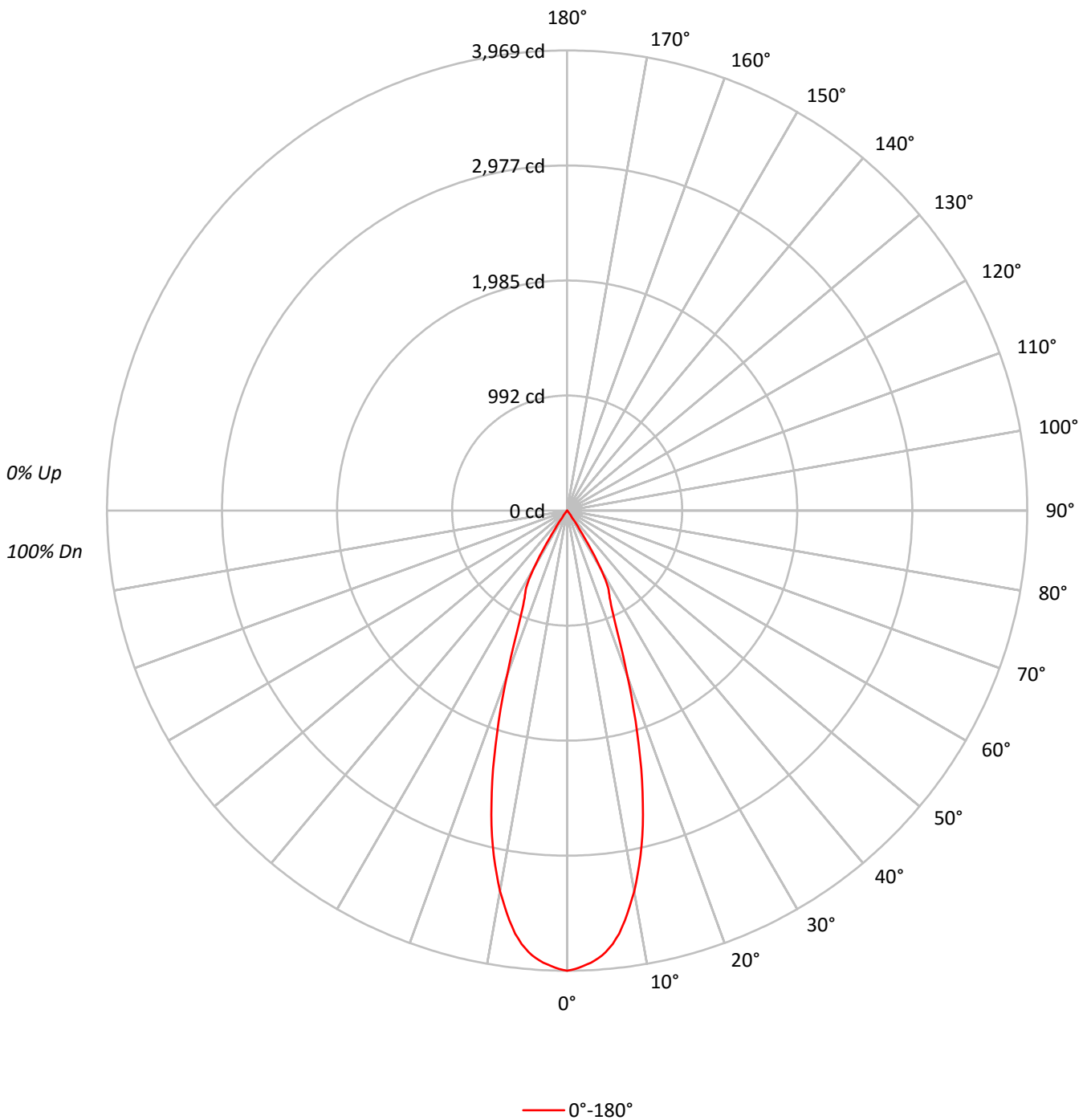
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	76	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	489534
5°	473327
10°	417378
15°	321323
20°	199334
25°	121943
30°	82992
35°	10992
40°	3108
45°	768
50°	595
55°	409
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.2	22.3
10°-20°	675.0	43.1
20°-30°	432.8	27.6
30°-40°	102.0	6.5
40°-50°	4.8	0.3
50°-60°	1.9	0.1
60°-70°	1.0	0.1
70°-80°	0.2	0.0
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°	1457.0	93.0
0°-40°	1559.0	99.5
0°-60°	1565.7	99.9
0°-90°	1566.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3969	
5°	3823	349
15°	2516	675
25°	896	433
35°	73	102
45°	4	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3968.8
1°	3954.4
2°	3931.3
3°	3905.1
4°	3870.8
5°	3822.8
6°	3758.5
7°	3676.8
8°	3570.7
9°	3455.3
10°	3332.4
11°	3193.2
12°	3044.1
13°	2882.5
14°	2703.5
15°	2516.3
16°	2317.9
17°	2112.6
18°	1908.0
19°	1709.6
20°	1518.6
21°	1348.9
22°	1197.3
23°	1070.0
24°	973.3
25°	896.0
26°	837.9
27°	793.0
28°	753.1
29°	685.1
30°	582.7
32.5°	278.3
35°	73.0
37.5°	38.7
40°	19.3
42.5°	6.2
45°	4.4
47.5°	3.7
50°	3.1
52.5°	2.5
55°	1.9
57.5°	1.9
60°	1.2
62.5°	1.2
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)