

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: P220902

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 1489.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

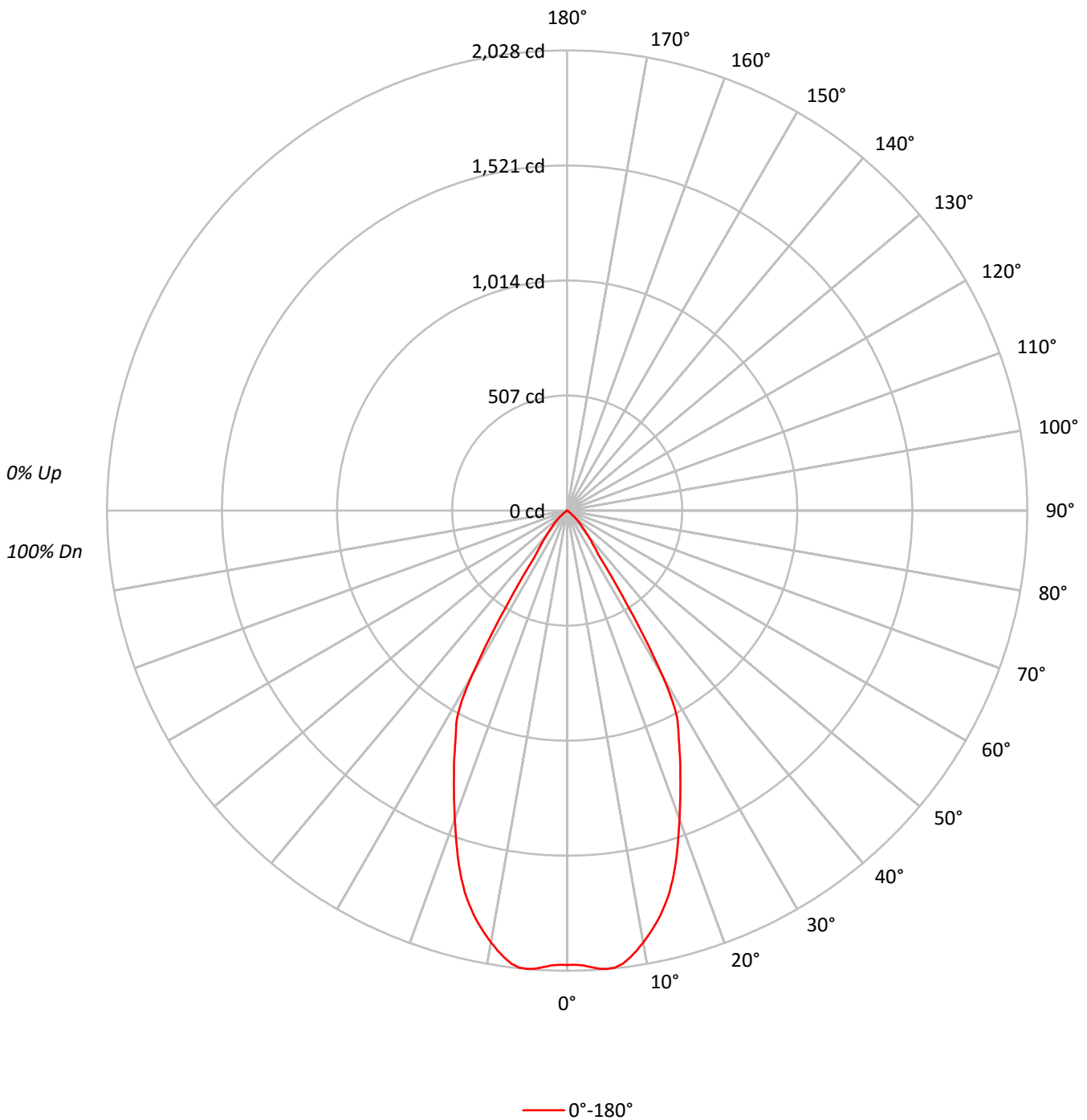
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	247037
5°	251076
10°	242018
15°	222448
20°	189923
25°	159560
30°	119440
35°	37479
40°	22204
45°	13501
50°	5622
55°	946
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	12.8
10°-20°	480.5	32.3
20°-30°	535.1	35.9
30°-40°	213.5	14.3
40°-50°	61.0	4.1
50°-60°	6.8	0.5
60°-70°	1.3	0.1
70°-80°	0.6	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°	1206.1	81.0
0°-40°	1419.6	95.3
0°-60°	1487.4	99.9
0°-90°	1489.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2003	
5°	2028	191
15°	1742	480
25°	1172	535
35°	249	214
45°	77	61
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2002.8
1°	2002.2
2°	2005.9
3°	2015.3
4°	2024.0
5°	2027.8
6°	2025.3
7°	2012.2
8°	1989.7
9°	1962.2
10°	1932.3
11°	1899.9
12°	1866.2
13°	1828.7
14°	1787.5
15°	1742.0
16°	1689.0
17°	1632.2
18°	1570.4
19°	1507.4
20°	1446.9
21°	1388.2
22°	1332.1
23°	1277.2
24°	1225.4
25°	1172.4
26°	1122.4
27°	1079.4
28°	1034.5
29°	955.2
30°	838.6
32.5°	490.4
35°	248.9
37.5°	184.1
40°	137.9
42.5°	102.3
45°	77.4
47.5°	57.4
50°	29.3
52.5°	7.5
55°	4.4
57.5°	3.1
60°	2.5
62.5°	1.9
65°	1.2



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)