

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: P220798

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220798
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]-LED3590-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.8 lumens
Efficiency: N/A
Efficacy: 80.6 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

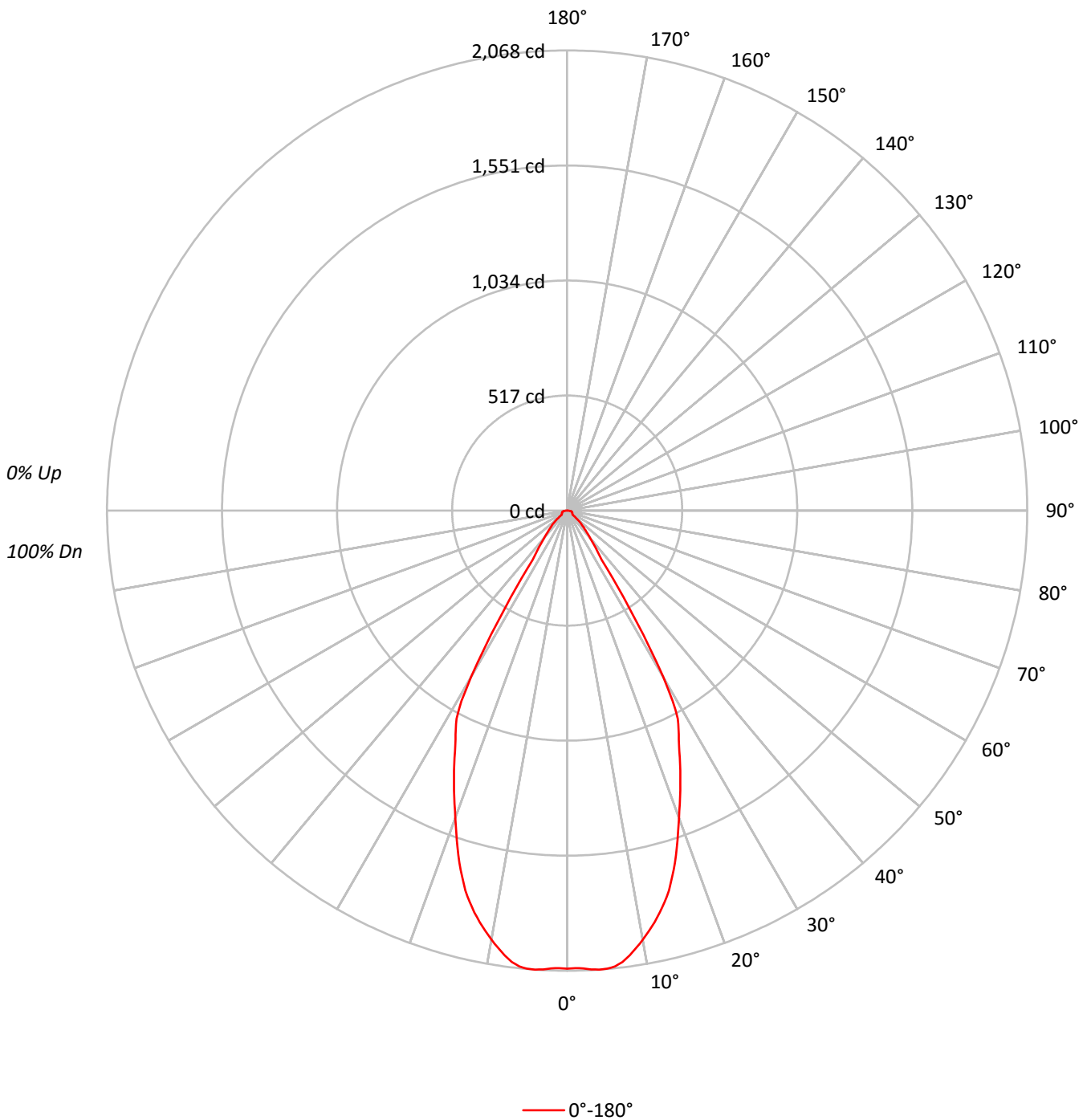
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	253882
5°	255942
10°	245224
15°	225640
20°	192863
25°	162350
30°	122715
35°	40776
40°	25924
45°	17636
50°	10305
55°	6172
60°	6784
65°	7472
70°	8547
75°	10389
80°	12431
85°	12313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	12.0
10°-20°	487.3	30.1
20°-30°	545.9	33.7
30°-40°	228.3	14.1
40°-50°	79.3	4.9
50°-60°	28.8	1.8
60°-70°	25.4	1.6
70°-80°	22.6	1.4
80°-90°	9.5	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°	1227.0	75.7
0°-40°	1455.2	89.8
0°-60°	1563.3	96.5
0°-90°	1620.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2058	
5°	2067	194
15°	1767	487
25°	1193	546
35°	271	228
45°	101	79
55°	29	29
65°	26	25
75°	22	23
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2058.3
1°	2056.5
2°	2058.3
3°	2064.6
4°	2068.3
5°	2067.1
6°	2059.6
7°	2043.4
8°	2017.8
9°	1989.1
10°	1957.9
11°	1924.8
12°	1891.1
13°	1853.1
14°	1812.5
15°	1767.0
16°	1712.7
17°	1655.9
18°	1594.8
19°	1531.1
20°	1469.3
21°	1411.9
22°	1356.4
23°	1301.5
24°	1247.9
25°	1192.9
26°	1144.9
27°	1102.5
28°	1058.8
29°	978.9
30°	861.6
32.5°	516.6
35°	270.8
37.5°	207.1
40°	161.0
42.5°	125.4
45°	101.1
47.5°	81.1
50°	53.7
52.5°	31.8
55°	28.7
57.5°	28.1
60°	27.5
62.5°	26.8
65°	25.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	24.3
70°	23.7
72.5°	23.1
75°	21.8
77.5°	20.0
80°	17.5
82.5°	13.7
85°	8.7
87.5°	3.7
90°	0.0

(END OF REPORT)