

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: P220867

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220867
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-L1-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: 848.7 lumens
Efficiency: N/A
Efficacy: 86.6 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

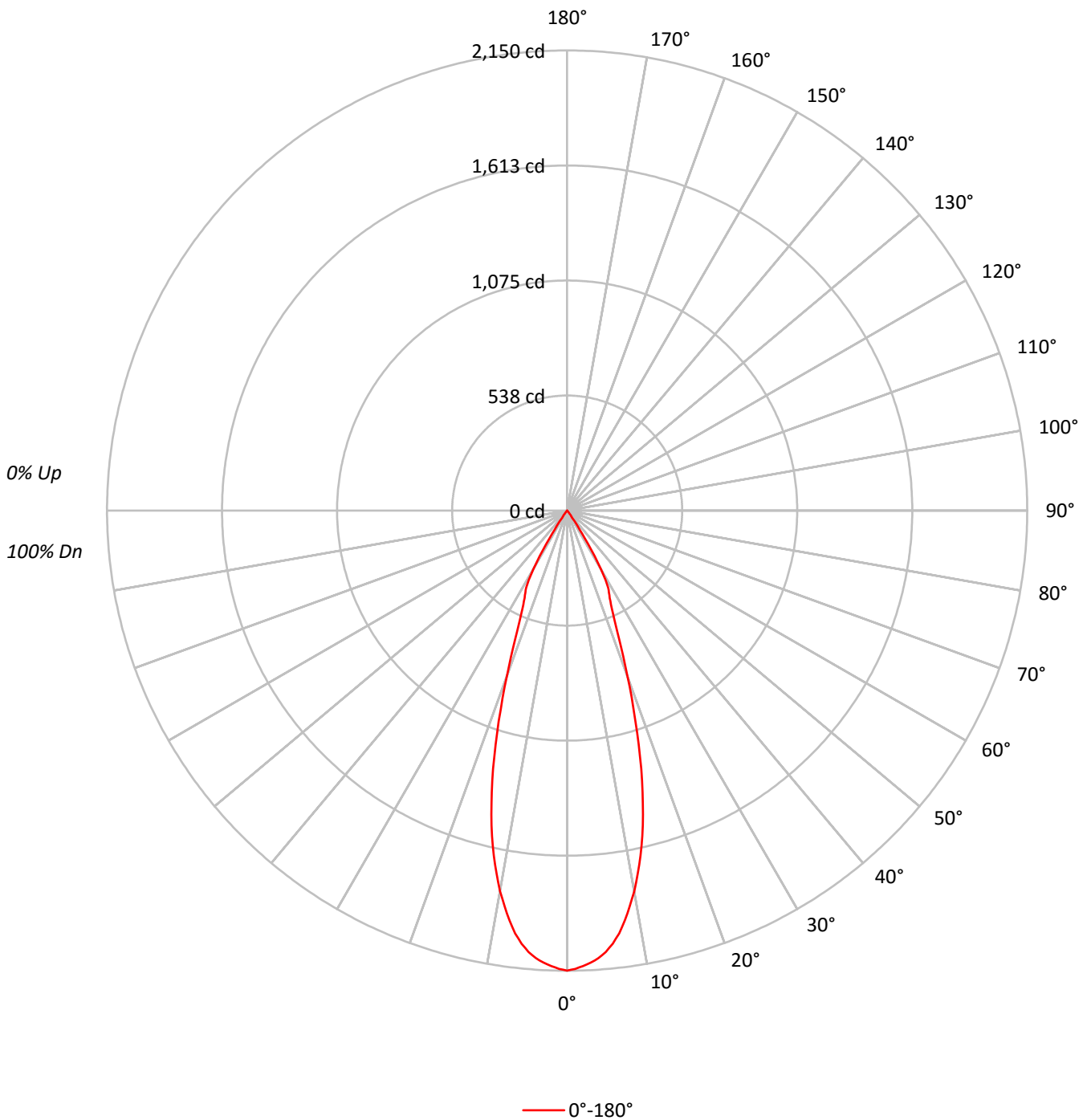
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	265131
5°	256350
10°	226048
15°	174025
20°	107963
25°	66034
30°	44950
35°	5948
40°	1691
45°	419
50°	326
55°	215
60°	173
65°	204
70°	108
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	22.3
10°-20°	365.6	43.1
20°-30°	234.4	27.6
30°-40°	55.2	6.5
40°-50°	2.6	0.3
50°-60°	1.0	0.1
60°-70°	0.5	0.1
70°-80°	0.1	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°	789.1	93.0
0°-40°	844.4	99.5
0°-60°	848.0	99.9
0°-90°	848.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2150	
5°	2070	189
15°	1363	366
25°	485	234
35°	40	55
45°	2	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2149.5
1°	2141.7
2°	2129.2
3°	2115.0
4°	2096.4
5°	2070.4
6°	2035.6
7°	1991.3
8°	1933.9
9°	1871.4
10°	1804.8
11°	1729.4
12°	1648.7
13°	1561.2
14°	1464.2
15°	1362.8
16°	1255.3
17°	1144.2
18°	1033.3
19°	925.9
20°	822.5
21°	730.6
22°	648.5
23°	579.5
24°	527.1
25°	485.2
26°	453.8
27°	429.5
28°	407.9
29°	371.0
30°	315.6
32.5°	150.7
35°	39.5
37.5°	21.0
40°	10.5
42.5°	3.4
45°	2.4
47.5°	2.0
50°	1.7
52.5°	1.4
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
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)