

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: P220742

Luminaire Tested: **9004-W1-[RW, RI]-LED3597-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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]-LED3597-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

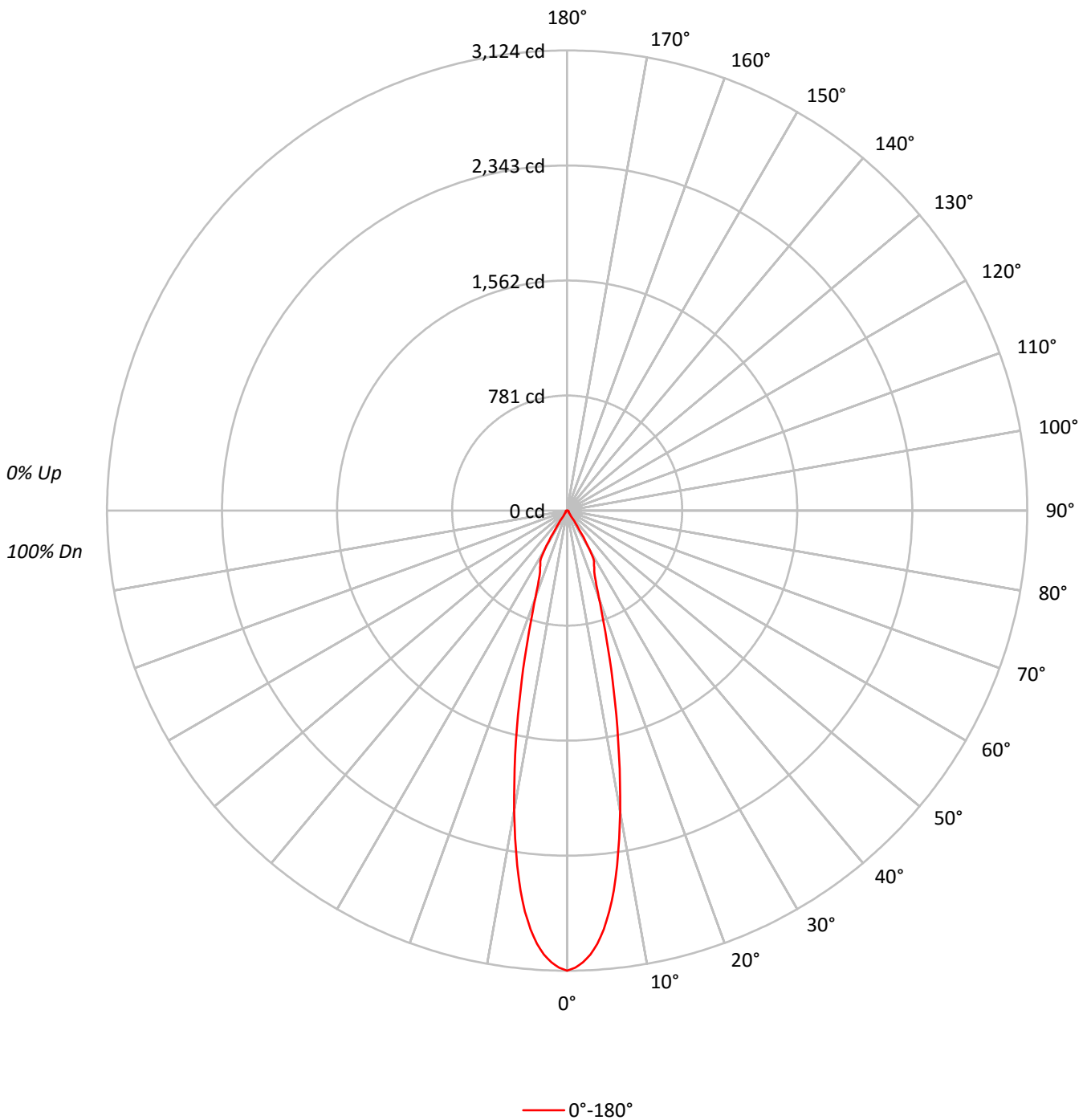
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385295
5°	353324
10°	259264
15°	151844
20°	82852
25°	59039
30°	43668
35°	6294
40°	3446
45°	2460
50°	2514
55°	2581
60°	2886
65°	3210
70°	3751
75°	4623
80°	5469
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	27.9
10°-20°	330.7	37.3
20°-30°	204.1	23.0
30°-40°	56.9	6.4
40°-50°	11.5	1.3
50°-60°	10.9	1.2
60°-70°	11.0	1.2
70°-80°	9.9	1.1
80°-90°	4.1	0.5
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°	781.8	88.2
0°-40°	838.7	94.6
0°-60°	861.1	97.2
0°-90°	886.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3124	
5°	2854	247
15°	1189	331
25°	434	204
35°	42	57
45°	14	12
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3123.7
1°	3104.2
2°	3068.4
3°	3017.6
4°	2947.6
5°	2853.6
6°	2737.1
7°	2598.5
8°	2433.2
9°	2255.5
10°	2070.0
11°	1881.3
12°	1694.9
13°	1513.1
14°	1344.4
15°	1189.1
16°	1046.2
17°	918.1
18°	805.6
19°	709.5
20°	631.2
21°	566.6
22°	518.1
23°	481.3
24°	453.8
25°	433.8
26°	417.4
27°	403.0
28°	389.2
29°	358.5
30°	306.6
32.5°	148.6
35°	41.8
37.5°	28.8
40°	21.4
42.5°	15.1
45°	14.1
47.5°	13.4
50°	13.1
52.5°	12.4
55°	12.0
57.5°	12.0
60°	11.7
62.5°	11.7
65°	11.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.7
70°	10.4
72.5°	10.0
75°	9.7
77.5°	8.7
80°	7.7
82.5°	6.0
85°	3.7
87.5°	1.7
90°	0.0

(END OF REPORT)