

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: P220846

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 828.2 lumens
Efficiency: N/A
Efficacy: 84.5 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

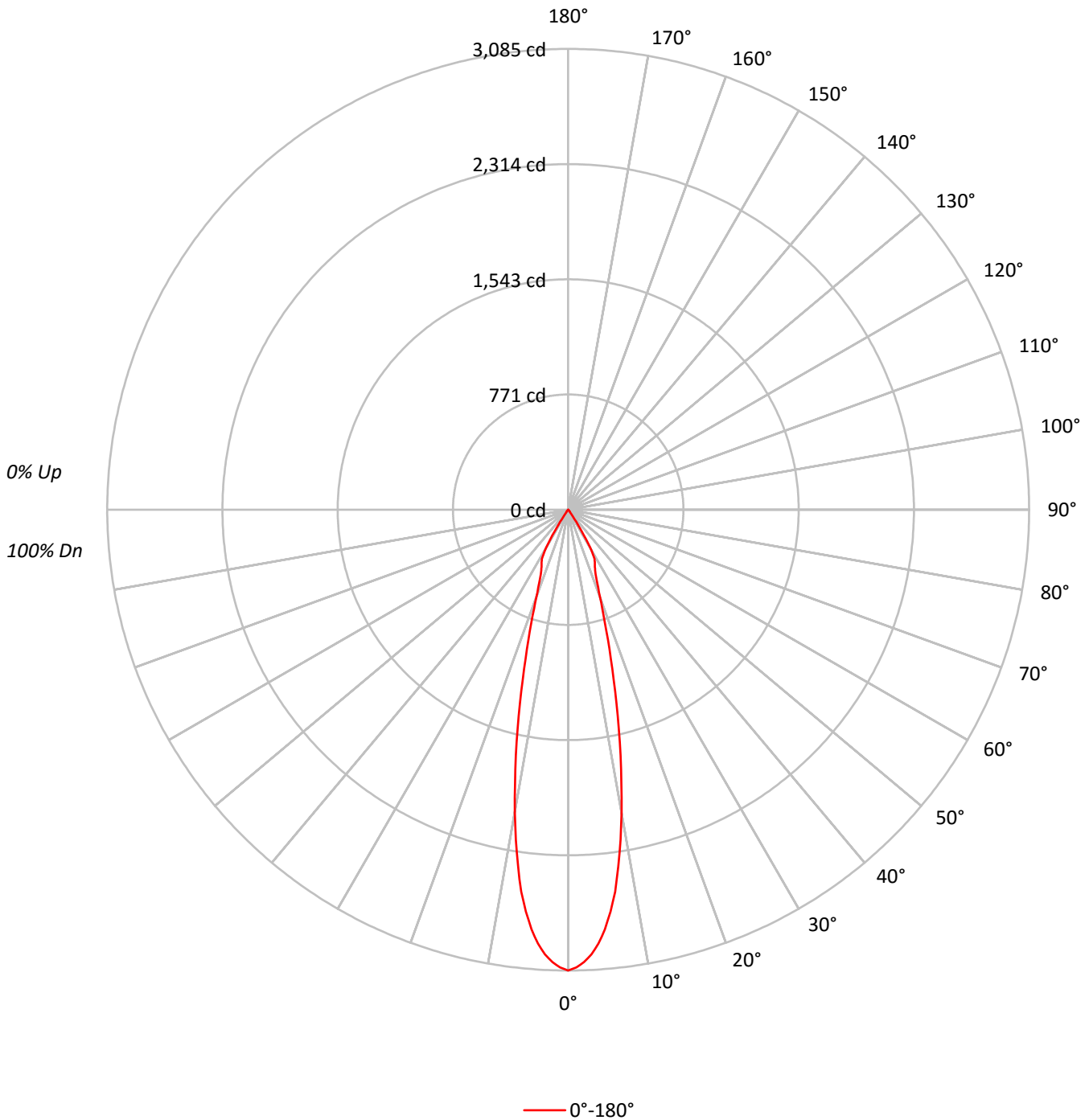
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	94	92	90	89
4	103	97	93	90	102	96	92	89	94	91	88	92	90	87	91	88	86	85
5	100	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	80	77	76
8	90	83	79	76	89	83	78	76	82	78	75	81	77	75	80	77	75	74
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	75	72	71
10	85	78	73	71	84	77	73	70	77	73	70	76	73	70	75	72	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	380546
5°	349139
10°	257598
15°	150350
20°	81540
25°	57623
30°	41760
35°	5195
40°	1771
45°	698
50°	441
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	29.5
10°-20°	327.9	39.6
20°-30°	198.9	24.0
30°-40°	50.9	6.1
40°-50°	3.6	0.4
50°-60°	1.5	0.2
60°-70°	0.7	0.1
70°-80°	0.3	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°	771.3	93.1
0°-40°	822.1	99.3
0°-60°	827.2	99.9
0°-90°	828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3085	
5°	2820	244
15°	1177	328
25°	423	199
35°	34	51
45°	4	4
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3085.2
1°	3065.4
2°	3030.3
3°	2980.1
4°	2911.5
5°	2819.8
6°	2705.3
7°	2576.4
8°	2411.8
9°	2236.1
10°	2056.7
11°	1867.9
12°	1682.5
13°	1505.1
14°	1334.7
15°	1177.4
16°	1036.9
17°	910.0
18°	796.9
19°	701.5
20°	621.2
21°	557.9
22°	507.7
23°	470.6
24°	444.1
25°	423.4
26°	406.6
27°	392.3
28°	375.2
29°	344.1
30°	293.2
32.5°	139.6
35°	34.5
37.5°	18.7
40°	11.0
42.5°	5.0
45°	4.0
47.5°	3.3
50°	2.3
52.5°	2.0
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)