

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: P220837

Luminaire Tested: **9004-W1-[RW, RI]-LED3597-S-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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-S-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1987.1 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

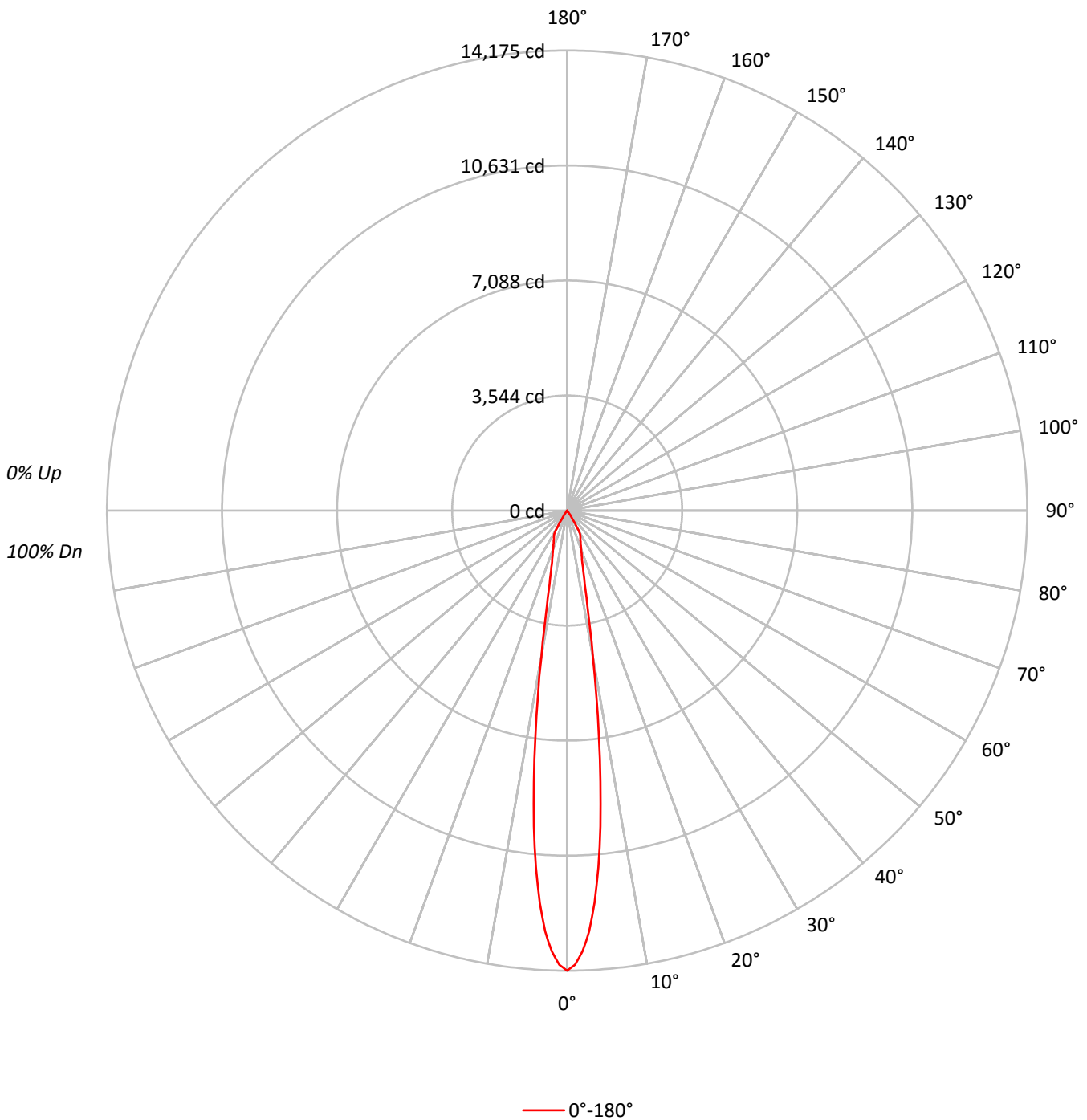
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	95	91	88	100	95	91	88	93	90	87	91	89	86	90	88	86	85
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	87	84	82	86	83	81	86	83	81	80
8	93	86	82	80	92	86	82	79	85	82	79	84	81	79	83	81	78	78
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	78	76	75
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	79	77	74	74

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1748412
5°	1366009
10°	575379
15°	243837
20°	165101
25°	131075
30°	97036
35°	8794
40°	3220
45°	977
50°	768
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	830.5	41.8
10°-20°	586.8	29.5
20°-30°	448.1	22.5
30°-40°	109.8	5.5
40°-50°	5.9	0.3
50°-60°	3.2	0.2
60°-70°	1.6	0.1
70°-80°	0.8	0.0
80°-90°	0.3	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°	1865.4	93.9
0°-40°	1975.2	99.4
0°-60°	1984.3	99.9
0°-90°	1987.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14175	
5°	11032	830
15°	1910	587
25°	963	448
35°	58	110
45°	6	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14174.9
1°	13993.1
2°	13592.8
3°	12978.8
4°	12118.9
5°	11032.5
6°	9783.5
7°	8411.3
8°	7029.4
9°	5764.4
10°	4593.9
11°	3666.8
12°	2987.9
13°	2507.5
14°	2165.7
15°	1909.5
16°	1712.5
17°	1569.2
18°	1455.5
19°	1349.0
20°	1257.8
22.5°	1084.8
25°	963.1
26°	930.3
27°	903.1
28°	875.9
29°	803.8
30°	681.3
32.5°	306.6
35°	58.4
37.5°	32.0
40°	20.0
42.5°	8.8
45°	5.6
47.5°	4.8
50°	4.0
52.5°	4.0
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)