

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: P220720

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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-S-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1647.9 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

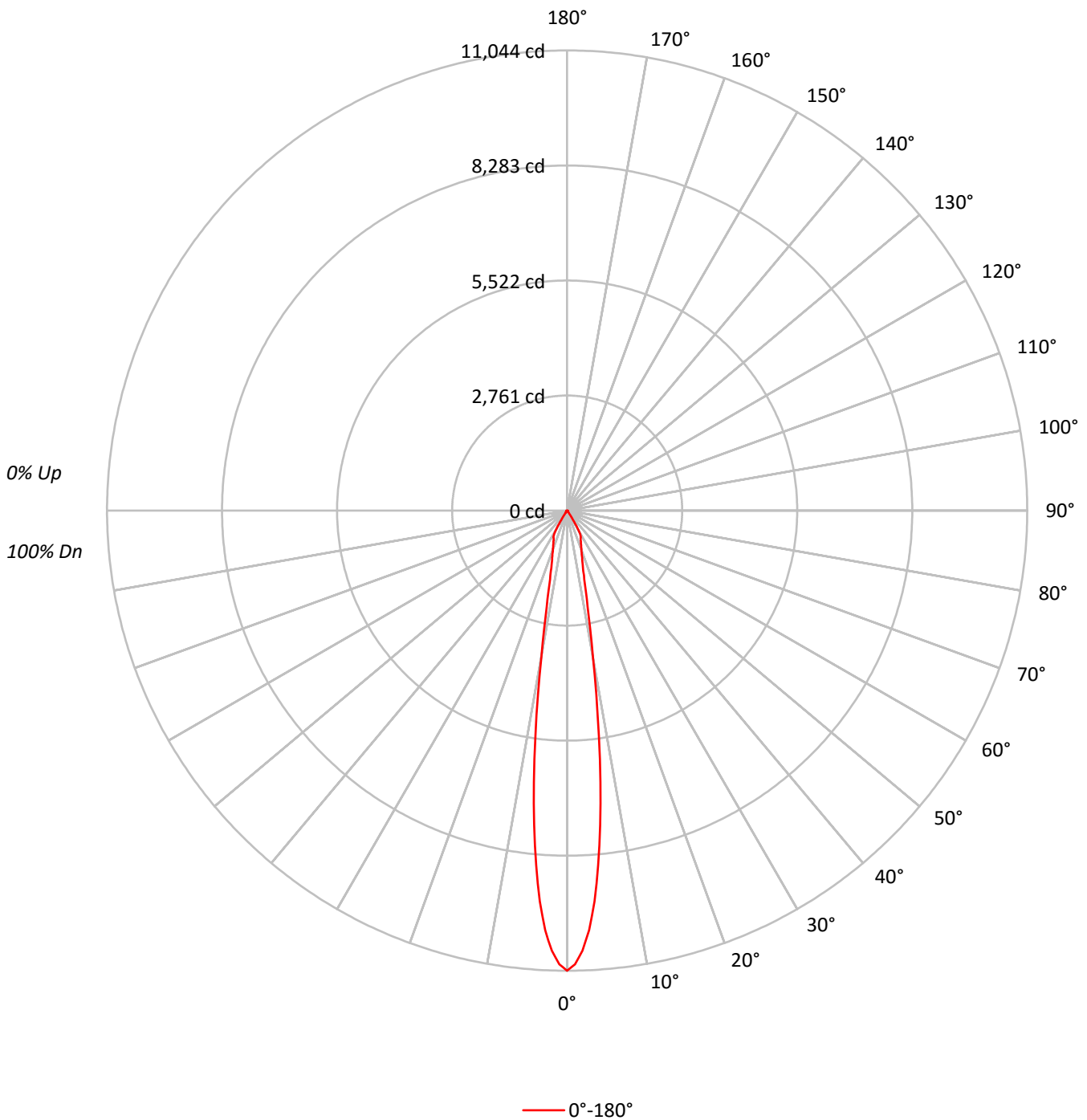
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97		98	96	94		96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91		95	92	90		93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87		92	89	86		90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84		89	85	83		87	84	82	81
6	96	89	85	81	95	89	84	81	87	83	81		86	83	80		85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78		83	80	77		82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75		81	78	75		80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76	73	71	70

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

	0°
0°	1362167
5°	1058510
10°	448552
15°	191775
20°	130960
25°	104359
30°	78022
35°	10330
40°	5523
45°	4029
50°	4318
55°	4688
60°	5230
65°	6012
70°	6960
75°	8340
80°	9731
85°	9765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.1	39.1
10°-20°	462.3	28.1
20°-30°	356.7	21.6
30°-40°	98.8	6.0
40°-50°	19.2	1.2
50°-60°	19.6	1.2
60°-70°	20.3	1.2
70°-80°	18.2	1.1
80°-90°	7.6	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°	1464.1	88.8
0°-40°	1563.0	94.8
0°-60°	1601.7	97.2
0°-90°	1647.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11044	
5°	8549	645
15°	1502	462
25°	767	357
35°	69	99
45°	23	19
55°	22	20
65°	21	20
75°	18	18
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11043.5
1°	10888.8
2°	10568.1
3°	10080.8
4°	9403.2
5°	8549.0
6°	7584.4
7°	6566.2
8°	5463.7
9°	4464.2
10°	3581.3
11°	2885.7
12°	2357.8
13°	1976.0
14°	1705.8
15°	1501.8
16°	1350.2
17°	1236.6
18°	1147.4
19°	1069.4
20°	997.7
22.5°	864.1
25°	766.8
26°	741.8
27°	720.6
28°	695.1
29°	639.5
30°	547.8
32.5°	263.3
35°	68.6
37.5°	44.3
40°	34.3
42.5°	25.6
45°	23.1
47.5°	22.5
50°	22.5
52.5°	21.8
55°	21.8
57.5°	21.8
60°	21.2
62.5°	21.2
65°	20.6
67.5°	20.0
70°	19.3
72.5°	18.7



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	17.5
77.5°	16.2
80°	13.7
82.5°	11.2
85°	6.9
87.5°	3.1
90°	0.0

(END OF REPORT)