

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: P221254

Luminaire Tested: **9002-W2-[RW, RI]-LED3590-S-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-[RW, RI]-LED3590-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

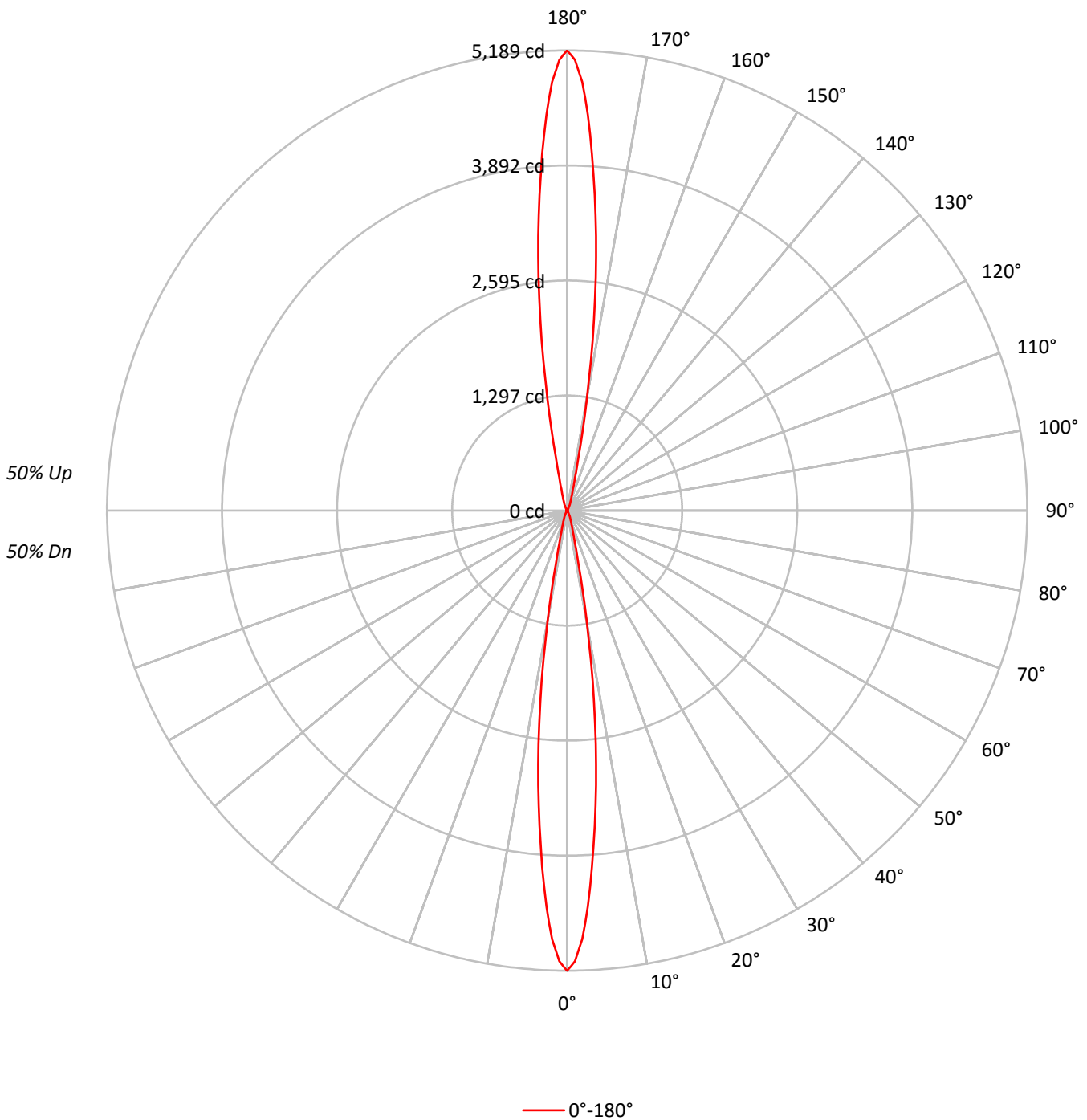
Lumens per Lamp: N/A  
Luminaire Lumens: 813.7 lumens  
Efficiency: N/A  
Efficacy: 40.7 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 20  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	101	98	96	93	94	91	89	87	78	77	75	66	65	64	55	54	54	49
2	96	91	87	83	89	85	81	78	74	71	69	63	62	61	54	53	52	48
3	91	85	80	76	85	79	75	72	70	67	65	61	59	58	52	51	51	47
4	86	79	74	70	81	75	70	67	66	63	61	59	57	55	51	50	49	46
5	83	75	69	66	77	71	66	63	64	60	58	57	55	53	50	49	48	46
6	79	71	66	62	74	68	63	60	61	58	55	55	53	51	49	48	47	45
7	76	68	62	59	72	65	60	57	59	56	53	54	51	50	49	47	46	44
8	73	65	60	56	69	62	58	55	57	54	52	52	50	48	48	46	45	44
9	71	62	57	54	67	60	56	53	55	52	50	51	49	47	47	46	45	43
10	68	60	55	52	65	58	54	51	54	51	49	50	48	46	46	45	44	43

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

	0°
0°	2560294
5°	1767746
10°	637110
15°	129995
20°	61588
25°	30268
30°	10881
35°	5782
40°	3929
45°	3628
50°	3301
55°	3011
60°	2566
65°	1985
70°	2452
75°	1716
80°	2557
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.5	32.8
10°-20°	97.1	11.9
20°-30°	26.6	3.3
30°-40°	6.5	0.8
40°-50°	3.8	0.5
50°-60°	3.1	0.4
60°-70°	1.8	0.2
70°-80°	1.1	0.1
80°-90°	0.4	0.0
90°-100°	0.6	0.1
100°-110°	1.1	0.1
110°-120°	1.8	0.2
120°-130°	3.1	0.4
130°-140°	3.8	0.5
140°-150°	6.5	0.8
150°-160°	26.6	3.3
160°-170°	97.1	11.9
170°-180°	266.5	32.8
0°-30°	390.2	48.0
0°-40°	396.7	48.8
0°-60°	403.7	49.6
0°-90°	406.9	50.0
90°-120°	3.5	0.4
90°-150°	16.9	2.1
90°-180°	407.0	50.0
0°-180°	813.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5189	
5°	3569	267
15°	254	97
25°	56	27
35°	10	6
45°	5	4
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	5	4
145°	10	6
155°	56	27
165°	254	97
175°	3569	267
180°	5189	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5189.3
1°	5082.5
2°	4837.5
3°	4471.8
4°	4028.8
5°	3569.3
6°	3112.4
7°	2652.0
8°	2179.4
9°	1710.4
10°	1271.7
11°	899.1
12°	624.6
13°	440.4
14°	326.6
15°	254.5
17.5°	162.4
20°	117.3
22.5°	86.0
25°	55.6
27.5°	32.1
30°	19.1
32.5°	12.2
35°	9.6
37.5°	7.8
40°	6.1
42.5°	5.2
45°	5.2
47.5°	4.3
50°	4.3
52.5°	4.3
55°	3.5
57.5°	2.6
60°	2.6
62.5°	1.7
65°	1.7
67.5°	1.7
70°	1.7
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	1.7
112.5°	1.7
115°	1.7
117.5°	1.7
120°	2.6
122.5°	2.6
125°	3.5
127.5°	4.3
130°	4.3
132.5°	4.3
135°	5.2
137.5°	5.2
140°	6.1
142.5°	7.8
145°	9.6
147.5°	12.2
150°	19.1
152.5°	32.1
155°	55.6
157.5°	86.0
160°	117.3
162.5°	162.4
165°	254.5
166°	326.6
167°	440.4
168°	624.6
169°	899.1
170°	1271.7
171°	1710.4
172°	2179.4
173°	2652.0
174°	3112.4
175°	3569.3
176°	4028.8
177°	4471.8
178°	4837.5
179°	5082.5



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CANDELA DISTRIBUTION (continued):

180°  $\overbrace{\hspace{1.5cm}}^{0^\circ}$   
5189.3

(END OF REPORT)