

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: P221251

Luminaire Tested: **9002-W2-[RW, RI]-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29414)  
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-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1661.4 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

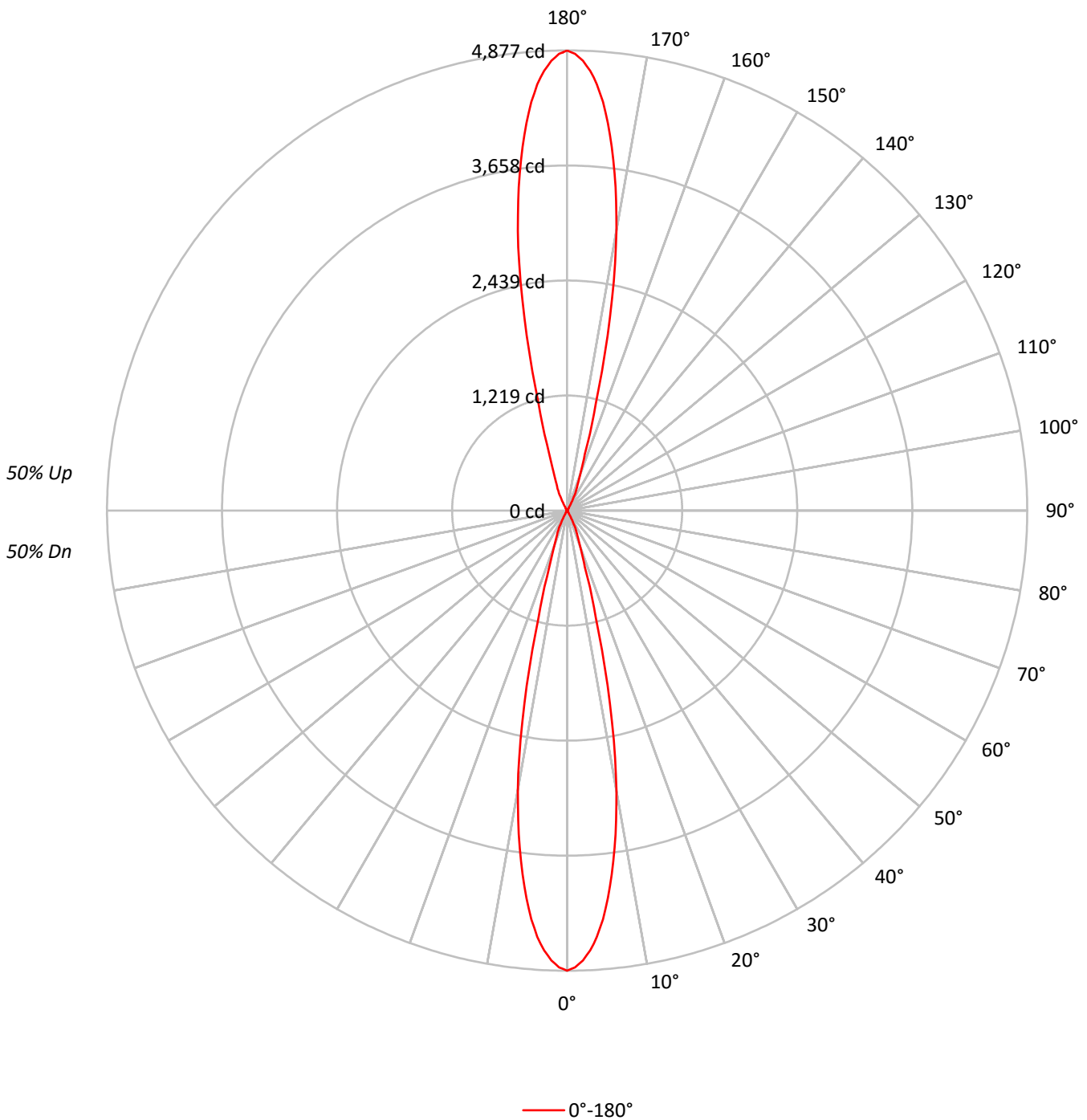
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	93	93	91	89	87	78	76	75		66	65	64		55	54	54	49
2	95	90	86	83	89	84	81	78	73	71	69		63	61	60		53	52	52	47
3	90	84	79	75	84	79	75	71	69	66	64		60	58	57		52	51	50	46
4	86	78	73	69	80	74	69	66	66	62	60		58	56	54		50	49	48	45
5	82	74	68	64	76	70	65	61	62	59	56		56	53	51		49	48	47	44
6	78	70	64	60	73	66	61	58	60	56	54		54	51	49		48	46	45	43
7	74	66	60	57	70	63	58	55	57	54	51		52	49	48		47	45	44	42
8	71	63	57	54	67	60	55	52	55	52	49		50	48	46		46	44	43	41
9	69	60	55	51	65	58	53	50	53	50	47		49	46	45		45	43	42	40
10	66	58	53	49	63	55	51	48	51	48	46		47	45	43		44	42	41	39

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

	0°
0°	2406015
5°	2153211
10°	1507932
15°	600325
20°	205240
25°	113014
30°	24269
35°	10480
40°	5603
45°	2442
50°	1305
55°	774
60°	888
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.4	22.4
10°-20°	355.3	21.4
20°-30°	87.4	5.3
30°-40°	12.2	0.7
40°-50°	3.3	0.2
50°-60°	0.9	0.1
60°-70°	0.1	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.1	0.0
120°-130°	0.9	0.1
130°-140°	3.3	0.2
140°-150°	12.2	0.7
150°-160°	87.4	5.3
160°-170°	355.3	21.4
170°-180°	371.4	22.4
0°-30°	814.2	49.0
0°-40°	826.4	49.7
0°-60°	830.6	50.0
0°-90°	830.7	50.0
90°-120°	0.1	0.0
90°-150°	16.5	1.0
90°-180°	831.0	50.0
0°-180°	1661.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4877	
5°	4348	371
15°	1175	355
25°	208	87
35°	17	12
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	4	3
145°	17	12
155°	208	87
165°	1175	355
175°	4348	371
180°	4877	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4876.6
1°	4841.0
2°	4769.8
3°	4668.1
4°	4529.1
5°	4347.6
6°	4129.6
7°	3885.5
8°	3610.1
9°	3321.7
10°	3009.9
11°	2667.6
12°	2290.6
13°	1904.1
14°	1520.1
15°	1175.3
17.5°	624.6
20°	390.9
22.5°	282.3
25°	207.6
27.5°	91.2
30°	42.6
32.5°	26.1
35°	17.4
37.5°	11.3
40°	8.7
42.5°	6.1
45°	3.5
47.5°	2.6
50°	1.7
52.5°	0.9
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.9
122.5°	0.9
125°	0.9
127.5°	0.9
130°	1.7
132.5°	2.6
135°	3.5
137.5°	6.1
140°	8.7
142.5°	11.3
145°	17.4
147.5°	26.1
150°	42.6
152.5°	91.2
155°	207.6
157.5°	282.3
160°	390.9
162.5°	624.6
165°	1175.3
166°	1520.1
167°	1904.1
168°	2290.6
169°	2667.6
170°	3009.9
171°	3321.7
172°	3610.1
173°	3885.5
174°	4129.6
175°	4347.6
176°	4529.1
177°	4668.1
178°	4769.8
179°	4841.0



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CANDELA DISTRIBUTION (continued):

180°  $\overbrace{\hspace{1.5cm}}^{0^\circ}$   
4876.6

(END OF REPORT)