

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: P221305

Luminaire Tested: **9002-W2-FL-LED2790-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-FL-LED2790-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

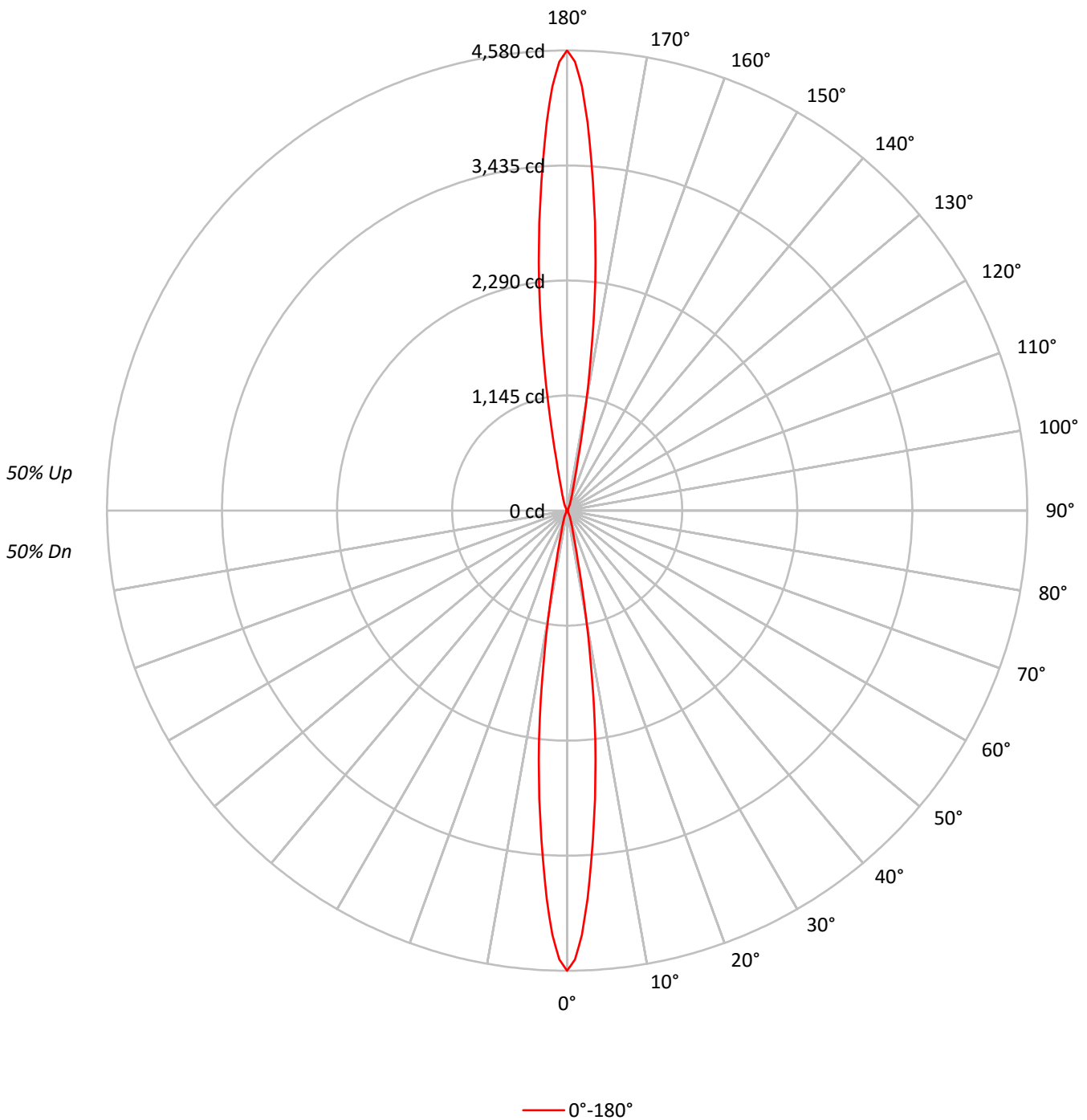
Lumens per Lamp: N/A  
Luminaire Lumens: 694.5 lumens  
Efficiency: N/A  
Efficacy: 34.7 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (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	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	55	54	49
2	96	91	87	83	89	85	82	79	74	71	70		63	62	61		54	53	52	48
3	91	85	80	76	85	80	76	72	70	67	65		61	59	58		53	52	51	47
4	87	80	74	70	81	75	71	67	67	64	61		59	57	55		52	51	50	47
5	83	75	70	66	78	71	67	63	64	61	58		57	55	53		51	49	49	46
6	79	71	66	62	75	68	63	60	61	58	56		55	53	52		50	49	48	45
7	76	68	63	59	72	65	61	57	59	56	54		54	52	50		49	48	47	45
8	73	65	60	57	69	63	58	55	57	54	52		53	50	49		48	47	46	44
9	71	63	58	54	67	60	56	53	56	53	50		52	49	48		47	46	45	44
10	69	61	56	53	65	58	54	51	54	51	49		50	48	47		47	45	44	43

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

	0°
0°	2259777
5°	1524522
10°	542623
15°	112985
20°	54500
25°	26403
30°	9058
35°	4578
40°	3414
45°	2093
50°	1765
55°	1290
60°	1480
65°	934
70°	1154
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.4	33.2
10°-20°	82.6	11.9
20°-30°	23.2	3.3
30°-40°	5.4	0.8
40°-50°	2.7	0.4
50°-60°	1.6	0.2
60°-70°	1.0	0.2
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.1
110°-120°	1.0	0.2
120°-130°	1.6	0.2
130°-140°	2.7	0.4
140°-150°	5.4	0.8
150°-160°	23.2	3.3
160°-170°	82.6	11.9
170°-180°	230.4	33.2
0°-30°	336.2	48.4
0°-40°	341.5	49.2
0°-60°	345.9	49.8
0°-90°	347.2	50.0
90°-120°	1.6	0.2
90°-150°	11.3	1.6
90°-180°	347.0	50.0
0°-180°	694.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4580	
5°	3078	230
15°	221	83
25°	48	23
35°	8	5
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	3	3
145°	8	5
155°	48	23
165°	221	83
175°	3078	230
180°	4580	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4580.2
1°	4467.4
2°	4223.5
3°	3869.0
4°	3472.1
5°	3078.2
6°	2689.7
7°	2295.8
8°	1884.5
9°	1469.4
10°	1083.1
11°	755.9
12°	513.5
13°	364.3
14°	277.2
15°	221.2
17.5°	143.2
20°	103.8
22.5°	75.0
25°	48.5
27.5°	28.0
30°	15.9
32.5°	10.6
35°	7.6
37.5°	6.1
40°	5.3
42.5°	4.5
45°	3.0
47.5°	3.0
50°	2.3
52.5°	2.3
55°	1.5
57.5°	1.5
60°	1.5
62.5°	1.5
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
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°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.5
120°	1.5
122.5°	1.5
125°	1.5
127.5°	2.3
130°	2.3
132.5°	3.0
135°	3.0
137.5°	4.5
140°	5.3
142.5°	6.1
145°	7.6
147.5°	10.6
150°	15.9
152.5°	28.0
155°	48.5
157.5°	75.0
160°	103.8
162.5°	143.2
165°	221.2
166°	277.2
167°	364.3
168°	513.5
169°	755.9
170°	1083.1
171°	1469.4
172°	1884.5
173°	2295.8
174°	2689.7
175°	3078.2
176°	3472.1
177°	3869.0
178°	4223.5
179°	4467.4



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CANDELA DISTRIBUTION (continued):

180° |  $\frac{0^\circ}{4580.2}$

(END OF REPORT)