

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: P221736

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-S-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221736  
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-W2-[RW, RI]-LED2790-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1666.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

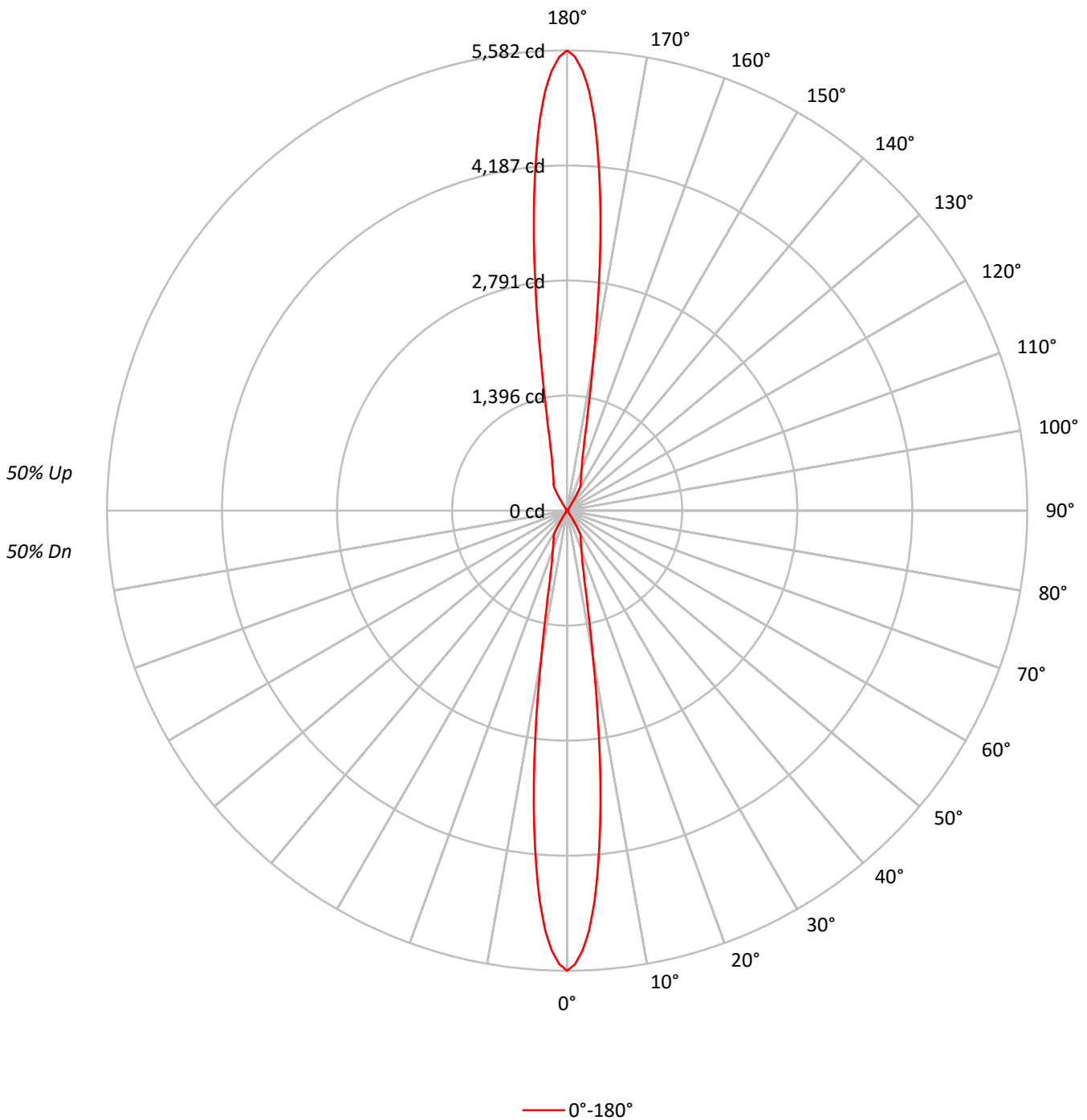
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

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

	0°
0°	688552
5°	535062
10°	226737
15°	96935
20°	66195
25°	52751
30°	39438
35°	5225
40°	2786
45°	2041
50°	2188
55°	2366
60°	2640
65°	3035
70°	3534
75°	4194
80°	4901
85°	4953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.1	19.6
10°-20°	233.7	14.0
20°-30°	180.3	10.8
30°-40°	50.0	3.0
40°-50°	9.7	0.6
50°-60°	9.9	0.6
60°-70°	10.3	0.6
70°-80°	9.2	0.6
80°-90°	3.9	0.2
90°-100°	3.9	0.2
100°-110°	9.2	0.6
110°-120°	10.3	0.6
120°-130°	9.9	0.6
130°-140°	9.7	0.6
140°-150°	50.0	3.0
150°-160°	180.3	10.8
160°-170°	233.7	14.0
170°-180°	326.1	19.6
0°-30°	740.1	44.4
0°-40°	790.1	47.4
0°-60°	809.6	48.6
0°-90°	833.0	50.0
90°-120°	23.4	1.4
90°-150°	92.9	5.6
90°-180°	833.0	50.0
0°-180°	1666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5582	
5°	4321	326
15°	759	234
25°	388	180
35°	35	50
45°	12	10
55°	11	10
65°	10	10
75°	9	9
85°	4	4
90°	0	0
95°	4	4
105°	9	9
115°	10	10
125°	11	10
135°	12	10
145°	35	50
155°	388	180
165°	759	234
175°	4321	326
180°	5582	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5582.3
1°	5504.1
2°	5342.0
3°	5095.7
4°	4753.2
5°	4321.4
6°	3833.8
7°	3319.1
8°	2761.8
9°	2256.6
10°	1810.3
11°	1458.7
12°	1191.8
13°	998.8
14°	862.3
15°	759.1
16°	682.5
17°	625.1
18°	580.0
19°	540.6
20°	504.3
22.5°	436.8
25°	387.6
26°	375.0
27°	364.3
28°	351.3
29°	323.3
30°	276.9
32.5°	133.1
35°	34.7
37.5°	22.4
40°	17.3
42.5°	12.9
45°	11.7
47.5°	11.4
50°	11.4
52.5°	11.0
55°	11.0
57.5°	11.0
60°	10.7
62.5°	10.7
65°	10.4
67.5°	10.1
70°	9.8
72.5°	9.5



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	8.8
77.5°	8.2
80°	6.9
82.5°	5.7
85°	3.5
87.5°	1.6
90°	0.0
92.5°	1.6
95°	3.5
97.5°	5.7
100°	6.9
102.5°	8.2
105°	8.8
107.5°	9.5
110°	9.8
112.5°	10.1
115°	10.4
117.5°	10.7
120°	10.7
122.5°	11.0
125°	11.0
127.5°	11.0
130°	11.4
132.5°	11.4
135°	11.7
137.5°	12.9
140°	17.3
142.5°	22.4
145°	34.7
147.5°	133.1
150°	276.9
151°	323.3
152°	351.3
153°	364.3
154°	375.0
155°	387.6
157.5°	436.8
160°	504.3
161°	540.6
162°	580.0
163°	625.1
164°	682.5
165°	759.1
166°	862.3
167°	998.8



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1191.8
169°	1458.7
170°	1810.3
171°	2256.6
172°	2761.8
173°	3319.1
174°	3833.8
175°	4321.4
176°	4753.2
177°	5095.7
178°	5342.0
179°	5504.1
180°	5582.3

(END OF REPORT)