

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: P221733

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 1565.5 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

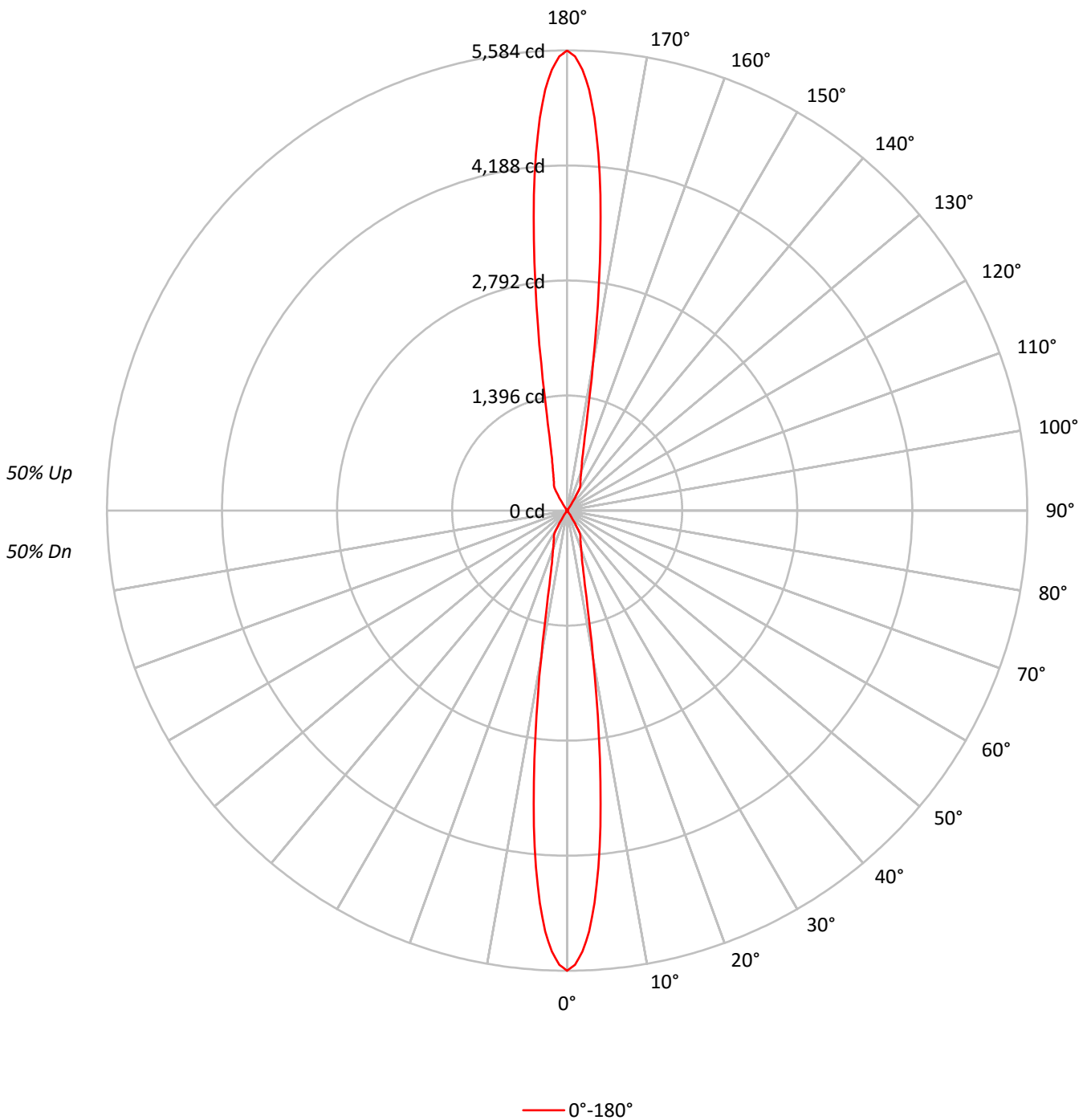
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	88	86	78	76	75	65	65	64	54	54	53	48				
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47				
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45				
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44				
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42				
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41				
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40				
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39				
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38				
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37				

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

	0°
0°	688750
5°	538108
10°	226662
15°	96054
20°	65040
25°	51635
30°	38227
35°	3463
40°	1272
45°	384
50°	307
55°	344
60°	222
65°	175
70°	108
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.2	20.9
10°-20°	231.2	14.8
20°-30°	176.5	11.3
30°-40°	43.3	2.8
40°-50°	2.3	0.1
50°-60°	1.3	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.3	0.1
130°-140°	2.3	0.1
140°-150°	43.3	2.8
150°-160°	176.5	11.3
160°-170°	231.2	14.8
170°-180°	327.2	20.9
0°-30°	734.8	46.9
0°-40°	778.1	49.7
0°-60°	781.7	49.9
0°-90°	782.7	50.0
90°-120°	1.1	0.1
90°-150°	48.0	3.1
90°-180°	783.0	50.0
0°-180°	1565.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5584	
5°	4346	327
15°	752	231
25°	379	177
35°	23	43
45°	2	2
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	2	2
145°	23	43
155°	379	177
165°	752	231
175°	4346	327
180°	5584	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5583.9
1°	5512.3
2°	5354.6
3°	5112.7
4°	4774.0
5°	4346.0
6°	3854.0
7°	3313.4
8°	2769.1
9°	2270.8
10°	1809.7
11°	1444.5
12°	1177.0
13°	987.8
14°	853.1
15°	752.2
16°	674.6
17°	618.2
18°	573.4
19°	531.4
20°	495.5
22.5°	427.3
25°	379.4
26°	366.5
27°	355.8
28°	345.0
29°	316.6
30°	268.4
32.5°	120.8
35°	23.0
37.5°	12.6
40°	7.9
42.5°	3.5
45°	2.2
47.5°	1.9
50°	1.6
52.5°	1.6
55°	1.6
57.5°	1.3
60°	0.9
62.5°	0.9
65°	0.6
67.5°	0.3
70°	0.3
72.5°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
100°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	0.9
122.5°	1.3
125°	1.6
127.5°	1.6
130°	1.6
132.5°	1.9
135°	2.2
137.5°	3.5
140°	7.9
142.5°	12.6
145°	23.0
147.5°	120.8
150°	268.4
151°	316.6
152°	345.0
153°	355.8
154°	366.5
155°	379.4
157.5°	427.3
160°	495.5
161°	531.4
162°	573.4
163°	618.2
164°	674.6
165°	752.2
166°	853.1
167°	987.8



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1177.0
169°	1444.5
170°	1809.7
171°	2270.8
172°	2769.1
173°	3313.4
174°	3854.0
175°	4346.0
176°	4774.0
177°	5112.7
178°	5354.6
179°	5512.3
180°	5583.9

(END OF REPORT)