

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: P221740

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
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-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2780.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

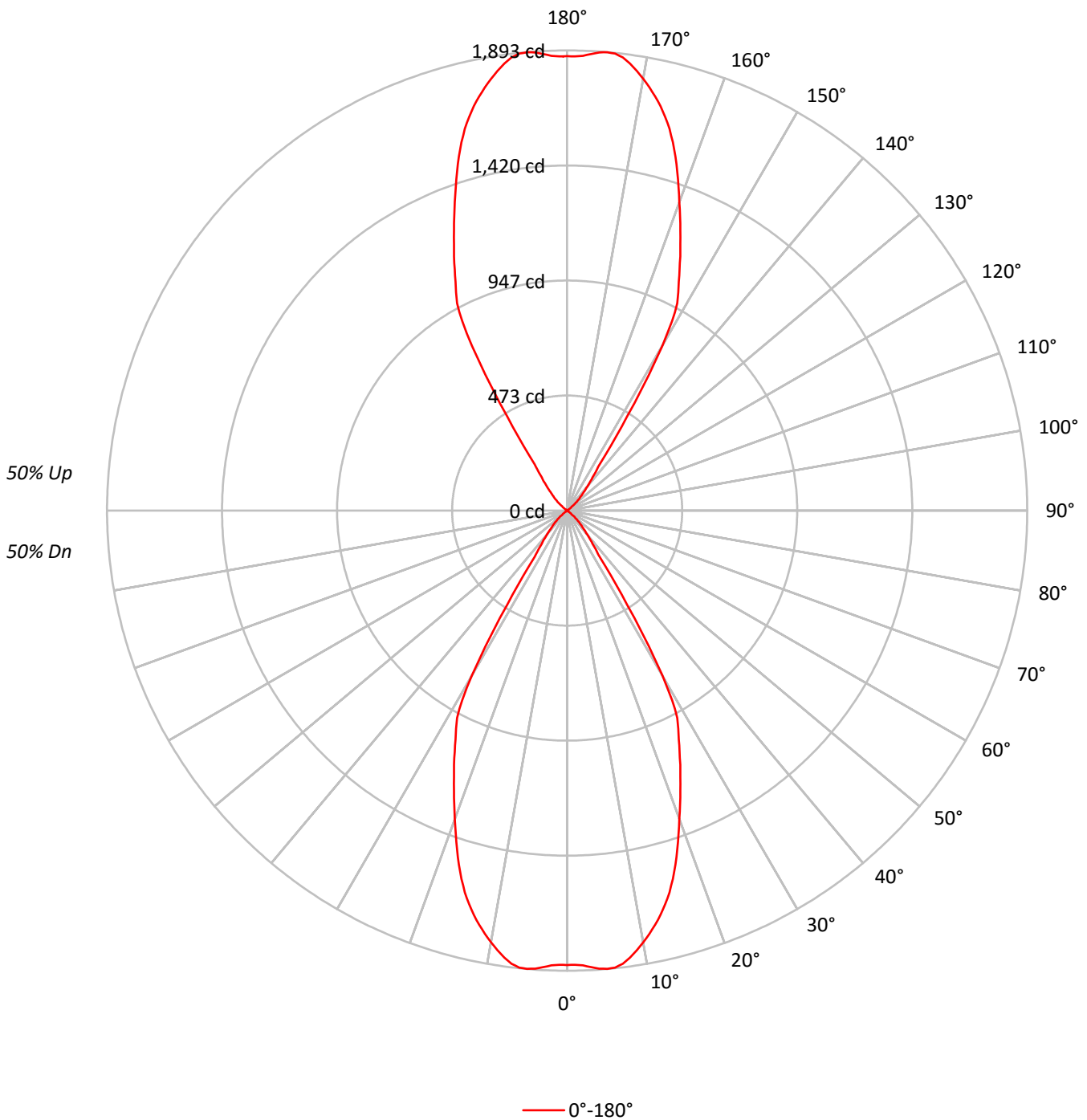
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

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

	0°
0°	230570
5°	234336
10°	225886
15°	207622
20°	177256
25°	148917
30°	111478
35°	34979
40°	20723
45°	12594
50°	5258
55°	882
60°	567
65°	350
70°	216
75°	286
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	6.4
10°-20°	448.4	16.1
20°-30°	499.5	18.0
30°-40°	199.3	7.2
40°-50°	57.0	2.0
50°-60°	6.3	0.2
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	6.3	0.2
130°-140°	57.0	2.0
140°-150°	199.3	7.2
150°-160°	499.5	18.0
160°-170°	448.4	16.1
170°-180°	177.8	6.4
0°-30°	1125.7	40.5
0°-40°	1325.0	47.7
0°-60°	1388.3	49.9
0°-90°	1390.0	50.0
90°-120°	1.8	0.1
90°-150°	264.3	9.5
90°-180°	1390.0	50.0
0°-180°	2780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1869	
5°	1893	178
15°	1626	448
25°	1094	499
35°	232	199
45°	72	57
55°	4	6
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	6
135°	72	57
145°	232	199
155°	1094	499
165°	1626	448
175°	1893	178
180°	1869	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1869.3
1°	1868.7
2°	1872.2
3°	1880.9
4°	1889.1
5°	1892.6
6°	1890.2
7°	1878.0
8°	1857.1
9°	1831.4
10°	1803.5
11°	1773.2
12°	1741.8
13°	1706.8
14°	1668.4
15°	1625.9
16°	1576.4
17°	1523.4
18°	1465.7
19°	1406.9
20°	1350.4
21°	1295.7
22°	1243.3
23°	1192.0
24°	1143.7
25°	1094.2
26°	1047.6
27°	1007.4
28°	965.5
29°	891.5
30°	782.7
32.5°	457.7
35°	232.3
37.5°	171.8
40°	128.7
42.5°	95.5
45°	72.2
47.5°	53.6
50°	27.4
52.5°	7.0
55°	4.1
57.5°	2.9
60°	2.3
62.5°	1.7
65°	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.7
120°	2.3
122.5°	2.9
125°	4.1
127.5°	7.0
130°	27.4
132.5°	53.6
135°	72.2
137.5°	95.5
140°	128.7
142.5°	171.8
145°	232.3
147.5°	457.7
150°	782.7
151°	891.5
152°	965.5
153°	1007.4
154°	1047.6
155°	1094.2
156°	1143.7
157°	1192.0
158°	1243.3
159°	1295.7
160°	1350.4
161°	1406.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1465.7
163°	1523.4
164°	1576.4
165°	1625.9
166°	1668.4
167°	1706.8
168°	1741.8
169°	1773.2
170°	1803.5
171°	1831.4
172°	1857.1
173°	1878.0
174°	1890.2
175°	1892.6
176°	1889.1
177°	1880.9
178°	1872.2
179°	1868.7
180°	1869.3

(END OF REPORT)