

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: P221884

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221884  
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]-LED4080-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3685.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

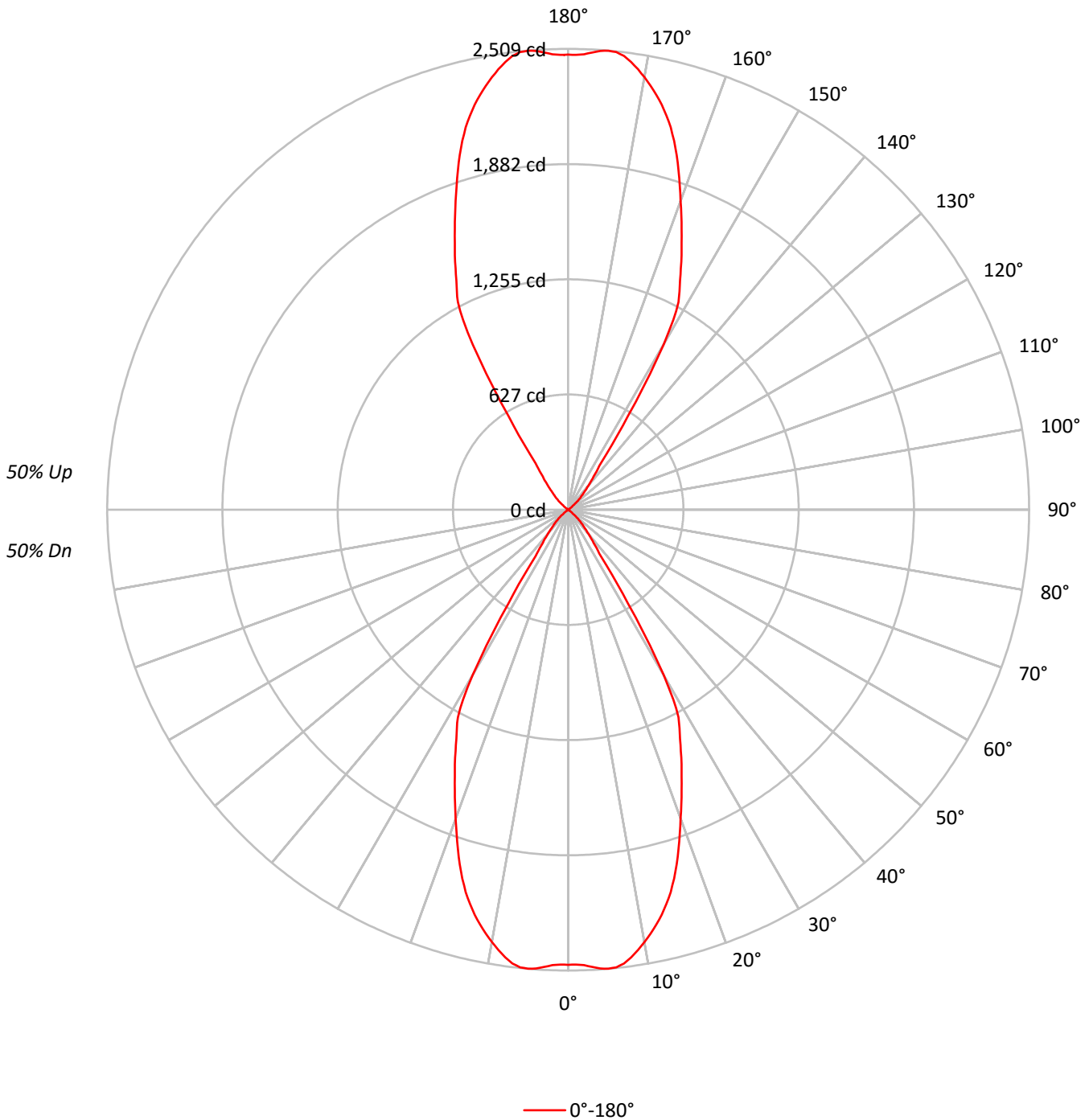
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	305613
5°	310607
10°	299406
15°	275199
20°	234958
25°	197381
30°	147754
35°	46378
40°	27469
45°	16694
50°	6966
55°	1161
60°	765
65°	438
70°	289
75°	381
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	6.4
10°-20°	594.4	16.1
20°-30°	662.0	18.0
30°-40°	264.2	7.2
40°-50°	75.5	2.0
50°-60°	8.4	0.2
60°-70°	1.6	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.6	0.0
120°-130°	8.4	0.2
130°-140°	75.5	2.0
140°-150°	264.2	7.2
150°-160°	662.0	18.0
160°-170°	594.4	16.1
170°-180°	235.7	6.4
0°-30°	1492.1	40.5
0°-40°	1756.3	47.7
0°-60°	1840.1	49.9
0°-90°	1842.5	50.0
90°-120°	2.3	0.1
90°-150°	350.4	9.5
90°-180°	1842.0	50.0
0°-180°	3685.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2478	
5°	2509	236
15°	2155	594
25°	1450	662
35°	308	264
45°	96	75
55°	5	8
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	8
135°	96	75
145°	308	264
155°	1450	662
165°	2155	594
175°	2509	236
180°	2478	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2477.7
1°	2476.9
2°	2481.6
3°	2493.2
4°	2504.0
5°	2508.6
6°	2505.5
7°	2489.3
8°	2461.5
9°	2427.5
10°	2390.5
11°	2350.4
12°	2308.7
13°	2262.4
14°	2211.4
15°	2155.1
16°	2089.5
17°	2019.2
18°	1942.8
19°	1864.8
20°	1790.0
21°	1717.4
22°	1647.9
23°	1580.0
24°	1516.0
25°	1450.3
26°	1388.6
27°	1335.3
28°	1279.8
29°	1181.7
30°	1037.4
32.5°	606.7
35°	308.0
37.5°	227.7
40°	170.6
42.5°	126.6
45°	95.7
47.5°	71.0
50°	36.3
52.5°	9.3
55°	5.4
57.5°	3.9
60°	3.1
62.5°	2.3
65°	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	2.3
120°	3.1
122.5°	3.9
125°	5.4
127.5°	9.3
130°	36.3
132.5°	71.0
135°	95.7
137.5°	126.6
140°	170.6
142.5°	227.7
145°	308.0
147.5°	606.7
150°	1037.4
151°	1181.7
152°	1279.8
153°	1335.3
154°	1388.6
155°	1450.3
156°	1516.0
157°	1580.0
158°	1647.9
159°	1717.4
160°	1790.0
161°	1864.8



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1942.8
163°	2019.2
164°	2089.5
165°	2155.1
166°	2211.4
167°	2262.4
168°	2308.7
169°	2350.4
170°	2390.5
171°	2427.5
172°	2461.5
173°	2489.3
174°	2505.5
175°	2508.6
176°	2504.0
177°	2493.2
178°	2481.6
179°	2476.9
180°	2477.7

(END OF REPORT)