

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: P222172

Luminaire Tested: **9004-W2-FL-LED5080-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED5080-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4474.6 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

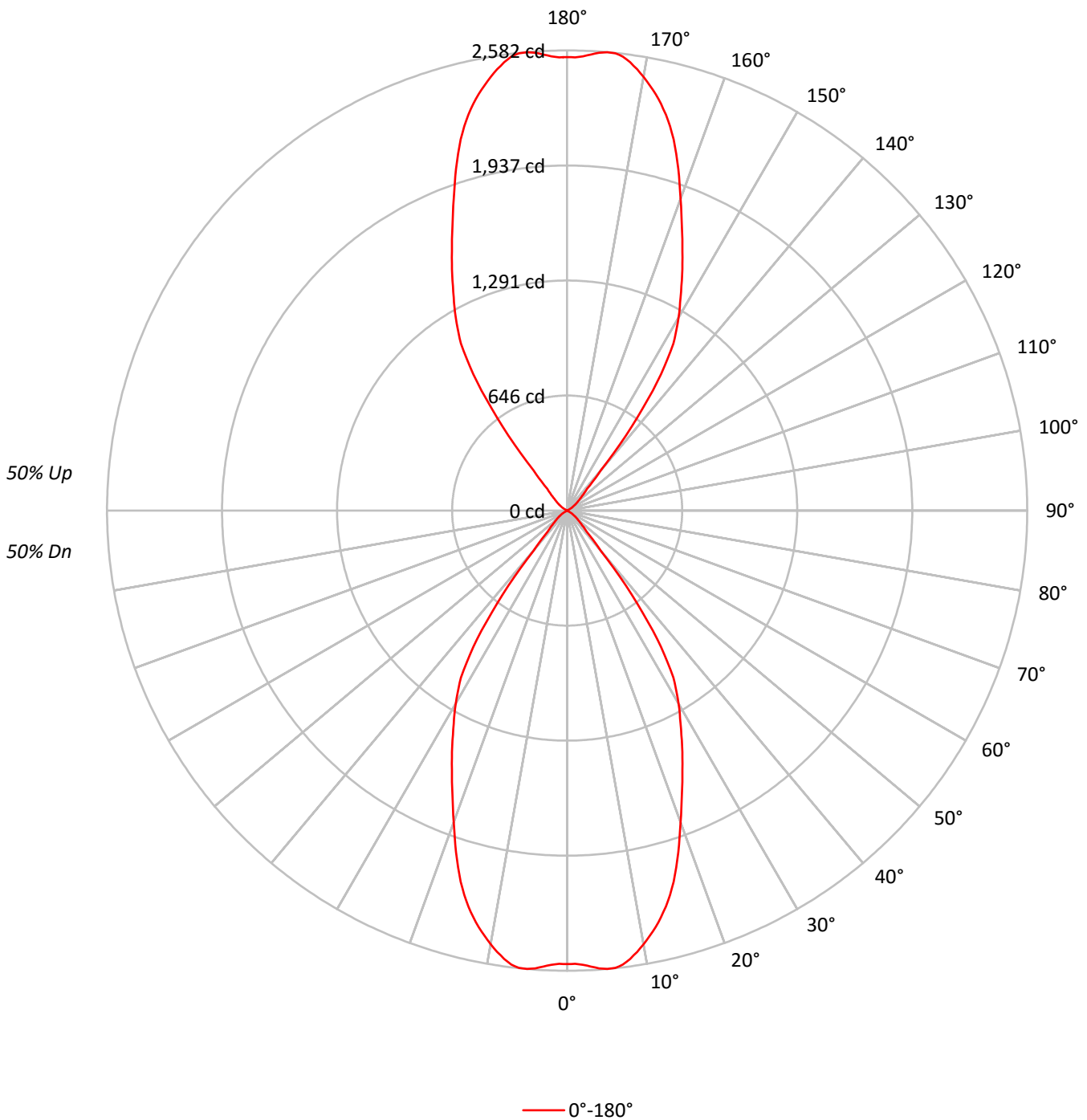
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

**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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

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

	0°
0°	313828
5°	319683
10°	309526
15°	285058
20°	244291
25°	208323
30°	178162
35°	133170
40°	47258
45°	22101
50°	14622
55°	9828
60°	4934
65°	1167
70°	866
75°	763
80°	0
85°	0



TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.9	5.4
10°-20°	616.1	13.8
20°-30°	703.3	15.7
30°-40°	516.4	11.5
40°-50°	109.6	2.4
50°-60°	41.4	0.9
60°-70°	5.9	0.1
70°-80°	1.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.6	0.0
110°-120°	5.9	0.1
120°-130°	41.4	0.9
130°-140°	109.6	2.4
140°-150°	516.4	11.5
150°-160°	703.3	15.7
160°-170°	616.1	13.8
170°-180°	242.9	5.4
0°-30°	1562.4	34.9
0°-40°	2078.8	46.5
0°-60°	2229.8	49.8
0°-90°	2237.3	50.0
90°-120°	7.5	0.2
90°-150°	674.8	15.1
90°-180°	2237.0	50.0
0°-180°	4474.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2544	
5°	2582	243
15°	2232	616
25°	1531	703
35°	884	516
45°	127	110
55°	46	41
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	46	41
135°	127	110
145°	884	516
155°	1531	703
165°	2232	616
175°	2582	243
180°	2544	



TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2544.3
1°	2543.5
2°	2549.9
3°	2562.7
4°	2574.7
5°	2581.9
6°	2580.3
7°	2566.7
8°	2540.2
9°	2507.4
10°	2471.3
11°	2430.4
12°	2388.7
13°	2341.4
14°	2290.1
15°	2232.3
16°	2166.6
17°	2093.6
18°	2018.2
19°	1938.9
20°	1861.1
21°	1788.9
22°	1719.2
23°	1653.4
24°	1590.9
25°	1530.7
26°	1472.2
27°	1412.9
28°	1355.9
29°	1303.0
30°	1250.9
32.5°	1110.6
35°	884.4
37.5°	597.4
40°	293.5
42.5°	165.2
45°	126.7
47.5°	99.4
50°	76.2
52.5°	60.1
55°	45.7
57.5°	32.9
60°	20.0
62.5°	5.6
65°	4.0



TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.2
70°	2.4
72.5°	2.4
75°	1.6
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°	1.6
107.5°	2.4
110°	2.4
112.5°	3.2
115°	4.0
117.5°	5.6
120°	20.0
122.5°	32.9
125°	45.7
127.5°	60.1
130°	76.2
132.5°	99.4
135°	126.7
137.5°	165.2
140°	293.5
142.5°	597.4
145°	884.4
147.5°	1110.6
150°	1250.9
151°	1303.0
152°	1355.9
153°	1412.9
154°	1472.2
155°	1530.7
156°	1590.9
157°	1653.4
158°	1719.2
159°	1788.9
160°	1861.1
161°	1938.9



TEST NUMBER: P222172

CATALOG NUMBER: 9004-W2-FL-LED5080-W-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	2018.2
163°	2093.6
164°	2166.6
165°	2232.3
166°	2290.1
167°	2341.4
168°	2388.7
169°	2430.4
170°	2471.3
171°	2507.4
172°	2540.2
173°	2566.7
174°	2580.3
175°	2581.9
176°	2574.7
177°	2562.7
178°	2549.9
179°	2543.5
180°	2544.3

(END OF REPORT)