

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: P221914

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)  
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]-LED5080-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4027.6 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

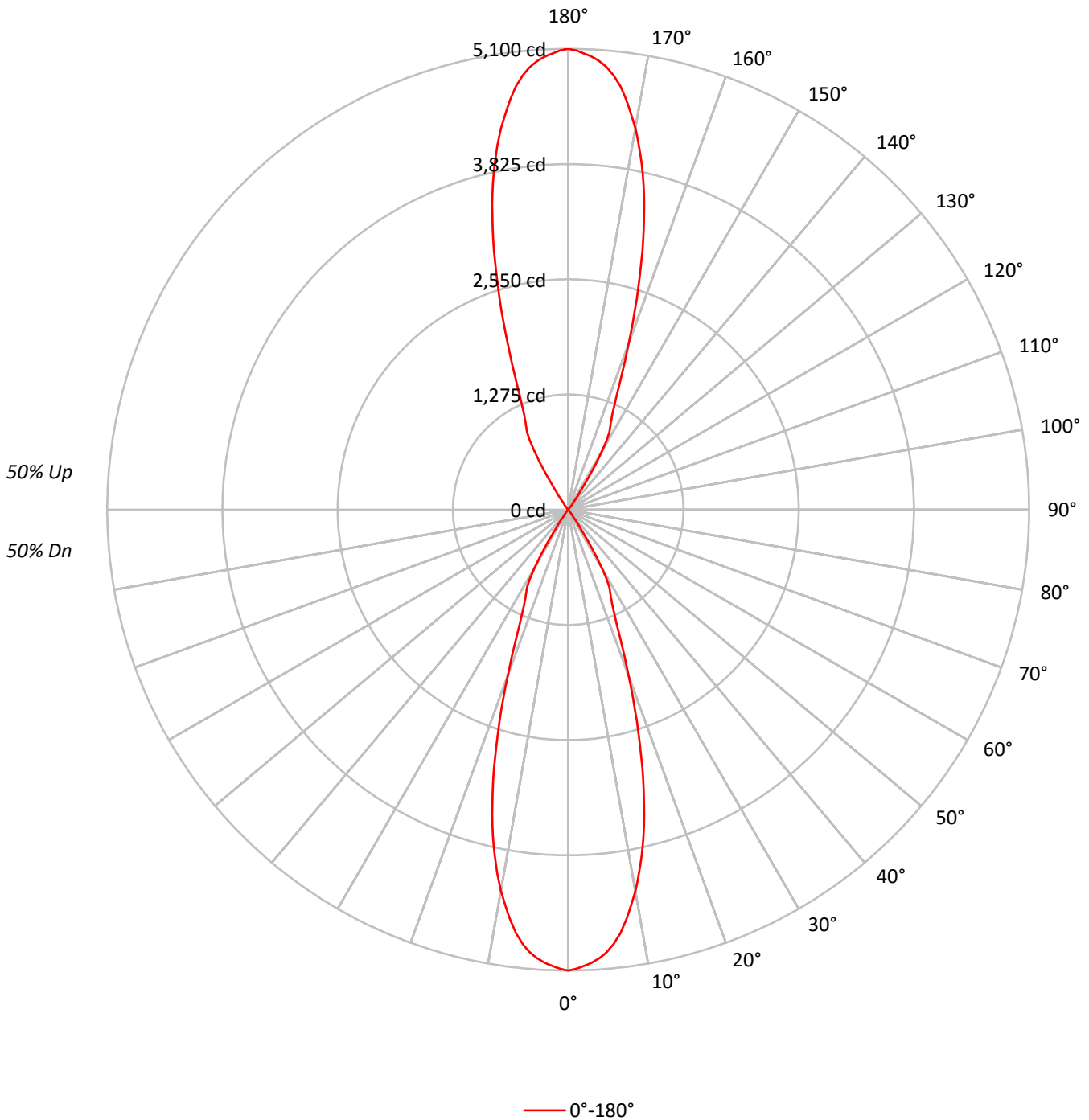
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-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	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61		58	56	54		50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53		52	50	48		46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46		48	45	43		42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44		45	43	40		41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41		43	41	39		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	35	33

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

	0°
0°	629124
5°	608299
10°	536401
15°	412946
20°	256183
25°	156702
30°	106664
35°	14124
40°	4009
45°	977
50°	768
55°	516
60°	395
65°	467
70°	289
75°	0
80°	0
85°	0



TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.8	11.1
10°-20°	867.5	21.5
20°-30°	556.2	13.8
30°-40°	131.1	3.3
40°-50°	6.2	0.2
50°-60°	2.4	0.1
60°-70°	1.3	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.3	0.0
120°-130°	2.4	0.1
130°-140°	6.2	0.2
140°-150°	131.1	3.3
150°-160°	556.2	13.8
160°-170°	867.5	21.5
170°-180°	448.8	11.1
0°-30°	1872.5	46.5
0°-40°	2003.6	49.7
0°-60°	2012.2	50.0
0°-90°	2013.8	50.0
90°-120°	1.8	0.0
90°-150°	141.5	3.5
90°-180°	2014.0	50.0
0°-180°	4027.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5100	
5°	4913	449
15°	3234	868
25°	1151	556
35°	94	131
45°	6	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	1
125°	2	2
135°	6	6
145°	94	131
155°	1151	556
165°	3234	868
175°	4913	449
180°	5100	



TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5100.5
1°	5082.1
2°	5052.4
3°	5018.7
4°	4974.6
5°	4912.9
6°	4830.3
7°	4725.3
8°	4589.0
9°	4440.6
10°	4282.7
11°	4103.8
12°	3912.2
13°	3704.5
14°	3474.4
15°	3233.8
16°	2978.9
17°	2715.0
18°	2452.0
19°	2197.1
20°	1951.7
21°	1733.6
22°	1538.7
23°	1375.2
24°	1250.9
25°	1151.4
26°	1076.9
27°	1019.1
28°	967.8
29°	880.4
30°	748.9
32.5°	357.6
35°	93.8
37.5°	49.7
40°	24.9
42.5°	8.0
45°	5.6
47.5°	4.8
50°	4.0
52.5°	3.2
55°	2.4
57.5°	2.4
60°	1.6
62.5°	1.6
65°	1.6



TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	1.6
122.5°	2.4
125°	2.4
127.5°	3.2
130°	4.0
132.5°	4.8
135°	5.6
137.5°	8.0
140°	24.9
142.5°	49.7
145°	93.8
147.5°	357.6
150°	748.9
151°	880.4
152°	967.8
153°	1019.1
154°	1076.9
155°	1151.4
156°	1250.9
157°	1375.2
158°	1538.7
159°	1733.6
160°	1951.7
161°	2197.1



TEST NUMBER: P221914

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	2452.0
163°	2715.0
164°	2978.9
165°	3233.8
166°	3474.4
167°	3704.5
168°	3912.2
169°	4103.8
170°	4282.7
171°	4440.6
172°	4589.0
173°	4725.3
174°	4830.3
175°	4912.9
176°	4974.6
177°	5018.7
178°	5052.4
179°	5082.1
180°	5100.5

(END OF REPORT)