

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: P221771

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-F-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221771  
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]-LED3090-F-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4008.7 lumens  
Efficiency: N/A  
Efficacy: 70.1 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

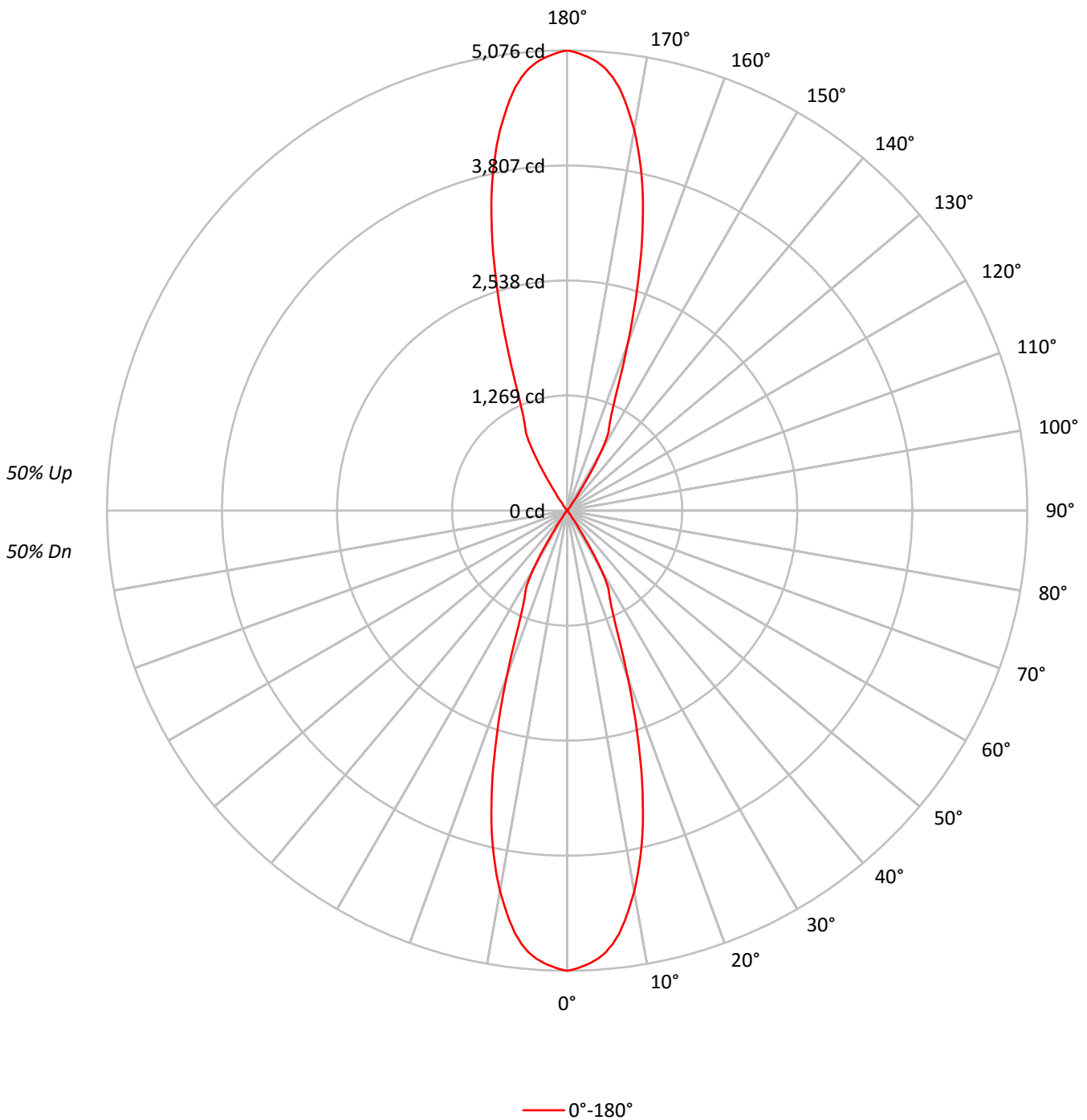
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-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	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°	626164
5°	605427
10°	533871
15°	411005
20°	254976
25°	155967
30°	106165
35°	14064
40°	3977
45°	977
50°	768
55°	516
60°	395
65°	467
70°	289
75°	0
80°	0
85°	0



TEST NUMBER: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.7	11.1
10°-20°	863.4	21.5
20°-30°	553.6	13.8
30°-40°	130.5	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°	130.5	3.3
150°-160°	553.6	13.8
160°-170°	863.4	21.5
170°-180°	446.7	11.1
0°-30°	1863.7	46.5
0°-40°	1994.2	49.7
0°-60°	2002.8	50.0
0°-90°	2004.4	50.0
90°-120°	1.8	0.0
90°-150°	140.9	3.5
90°-180°	2005.0	50.0
0°-180°	4008.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5076	
5°	4890	447
15°	3219	863
25°	1146	554
35°	93	130
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°	93	130
155°	1146	554
165°	3219	863
175°	4890	447
180°	5076	



TEST NUMBER: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5076.5
1°	5058.1
2°	5028.6
3°	4995.1
4°	4951.2
5°	4889.7
6°	4807.5
7°	4703.0
8°	4567.3
9°	4419.7
10°	4262.5
11°	4084.5
12°	3893.7
13°	3687.0
14°	3458.0
15°	3218.6
16°	2964.8
17°	2702.2
18°	2440.5
19°	2186.7
20°	1942.5
21°	1725.4
22°	1531.5
23°	1368.7
24°	1245.0
25°	1146.0
26°	1071.8
27°	1014.3
28°	963.3
29°	876.3
30°	745.4
32.5°	355.9
35°	93.4
37.5°	49.5
40°	24.7
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: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-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°	24.7
142.5°	49.5
145°	93.4
147.5°	355.9
150°	745.4
151°	876.3
152°	963.3
153°	1014.3
154°	1071.8
155°	1146.0
156°	1245.0
157°	1368.7
158°	1531.5
159°	1725.4
160°	1942.5
161°	2186.7



TEST NUMBER: P221771

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-F-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	2440.5
163°	2702.2
164°	2964.8
165°	3218.6
166°	3458.0
167°	3687.0
168°	3893.7
169°	4084.5
170°	4262.5
171°	4419.7
172°	4567.3
173°	4703.0
174°	4807.5
175°	4889.7
176°	4951.2
177°	4995.1
178°	5028.6
179°	5058.1
180°	5076.5

(END OF REPORT)