

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: P222135

Luminaire Tested: **9004-W2-FL-LED4097-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED4097-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1873.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

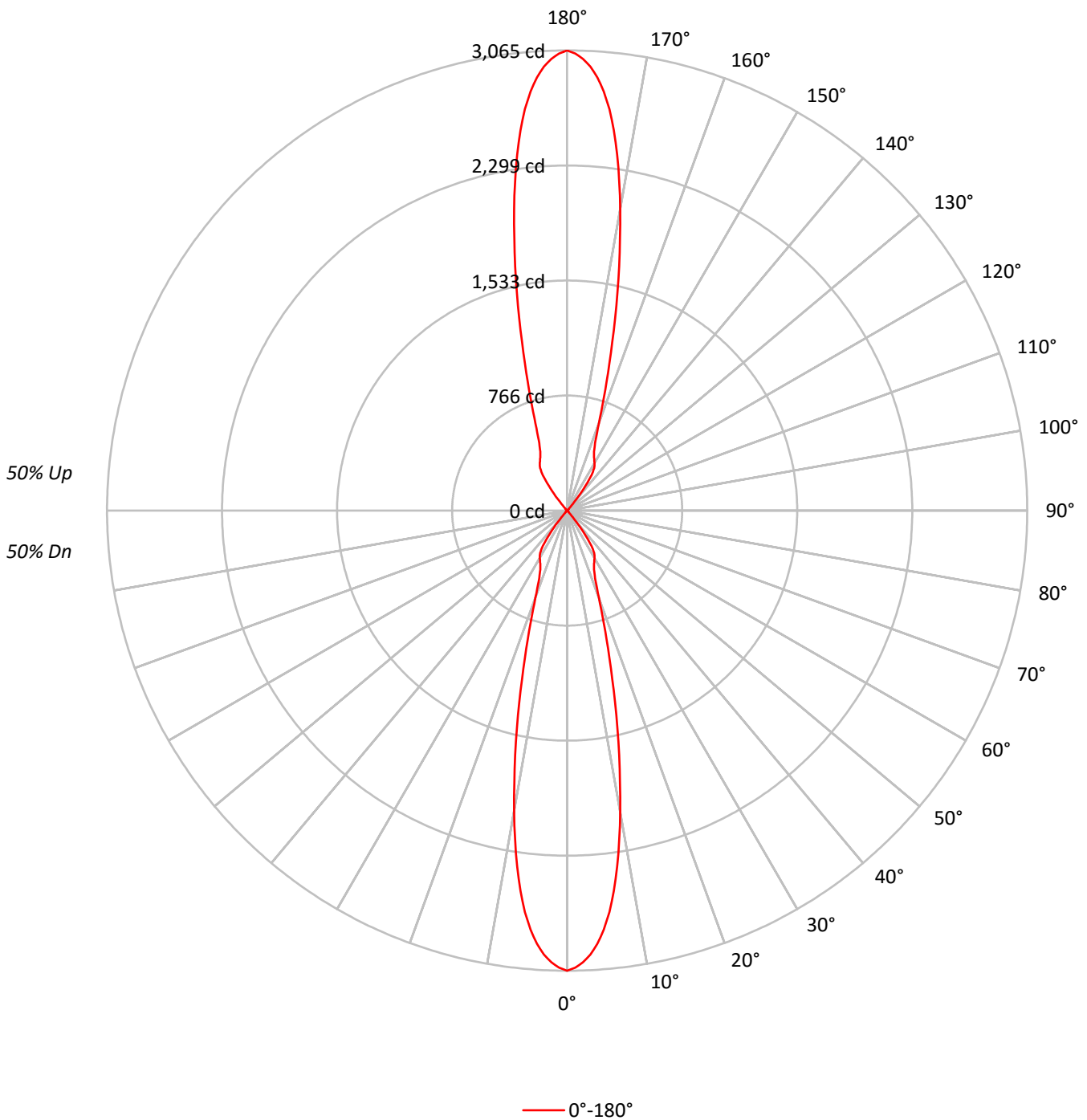
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-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	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

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

	0°
0°	378067
5°	346922
10°	254906
15°	148396
20°	80923
25°	57515
30°	51829
35°	40821
40°	9065
45°	2494
50°	825
55°	495
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.7	13.0
10°-20°	323.9	17.3
20°-30°	202.6	10.8
30°-40°	150.2	8.0
40°-50°	14.0	0.7
50°-60°	2.2	0.1
60°-70°	0.8	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.8	0.0
120°-130°	2.2	0.1
130°-140°	14.0	0.7
140°-150°	150.2	8.0
150°-160°	202.6	10.8
160°-170°	323.9	17.3
170°-180°	242.7	13.0
0°-30°	769.2	41.1
0°-40°	919.5	49.1
0°-60°	935.7	49.9
0°-90°	936.8	50.0
90°-120°	1.1	0.1
90°-150°	167.6	8.9
90°-180°	937.0	50.0
0°-180°	1873.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3065	
5°	2802	243
15°	1162	324
25°	423	203
35°	271	150
45°	14	14
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	14	14
145°	271	150
155°	423	203
165°	1162	324
175°	2802	243
180°	3065	



TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3065.1
1°	3044.8
2°	3010.4
3°	2960.6
4°	2892.4
5°	2801.9
6°	2689.5
7°	2553.9
8°	2395.8
9°	2219.5
10°	2035.2
11°	1846.6
12°	1664.0
13°	1486.0
14°	1316.9
15°	1162.1
16°	1021.2
17°	898.3
18°	787.9
19°	694.4
20°	616.5
21°	554.9
22°	505.5
23°	469.0
24°	442.2
25°	422.6
26°	408.0
27°	395.4
28°	383.8
29°	373.9
30°	363.9
32.5°	336.4
35°	271.1
37.5°	164.1
40°	56.3
42.5°	19.6
45°	14.3
47.5°	10.3
50°	4.3
52.5°	3.3
55°	2.3
57.5°	1.7
60°	1.3
62.5°	1.0
65°	0.7



TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.7
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.7
115°	0.7
117.5°	1.0
120°	1.3
122.5°	1.7
125°	2.3
127.5°	3.3
130°	4.3
132.5°	10.3
135°	14.3
137.5°	19.6
140°	56.3
142.5°	164.1
145°	271.1
147.5°	336.4
150°	363.9
151°	373.9
152°	383.8
153°	395.4
154°	408.0
155°	422.6
156°	442.2
157°	469.0
158°	505.5
159°	554.9
160°	616.5
161°	694.4



TEST NUMBER: P222135

CATALOG NUMBER: 9004-W2-FL-LED4097-M-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	787.9
163°	898.3
164°	1021.2
165°	1162.1
166°	1316.9
167°	1486.0
168°	1664.0
169°	1846.6
170°	2035.2
171°	2219.5
172°	2395.8
173°	2553.9
174°	2689.5
175°	2801.9
176°	2892.4
177°	2960.6
178°	3010.4
179°	3044.8
180°	3065.1

(END OF REPORT)