

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: P222082

Luminaire Tested: **9004-W2-FL-LED3597-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED3597-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

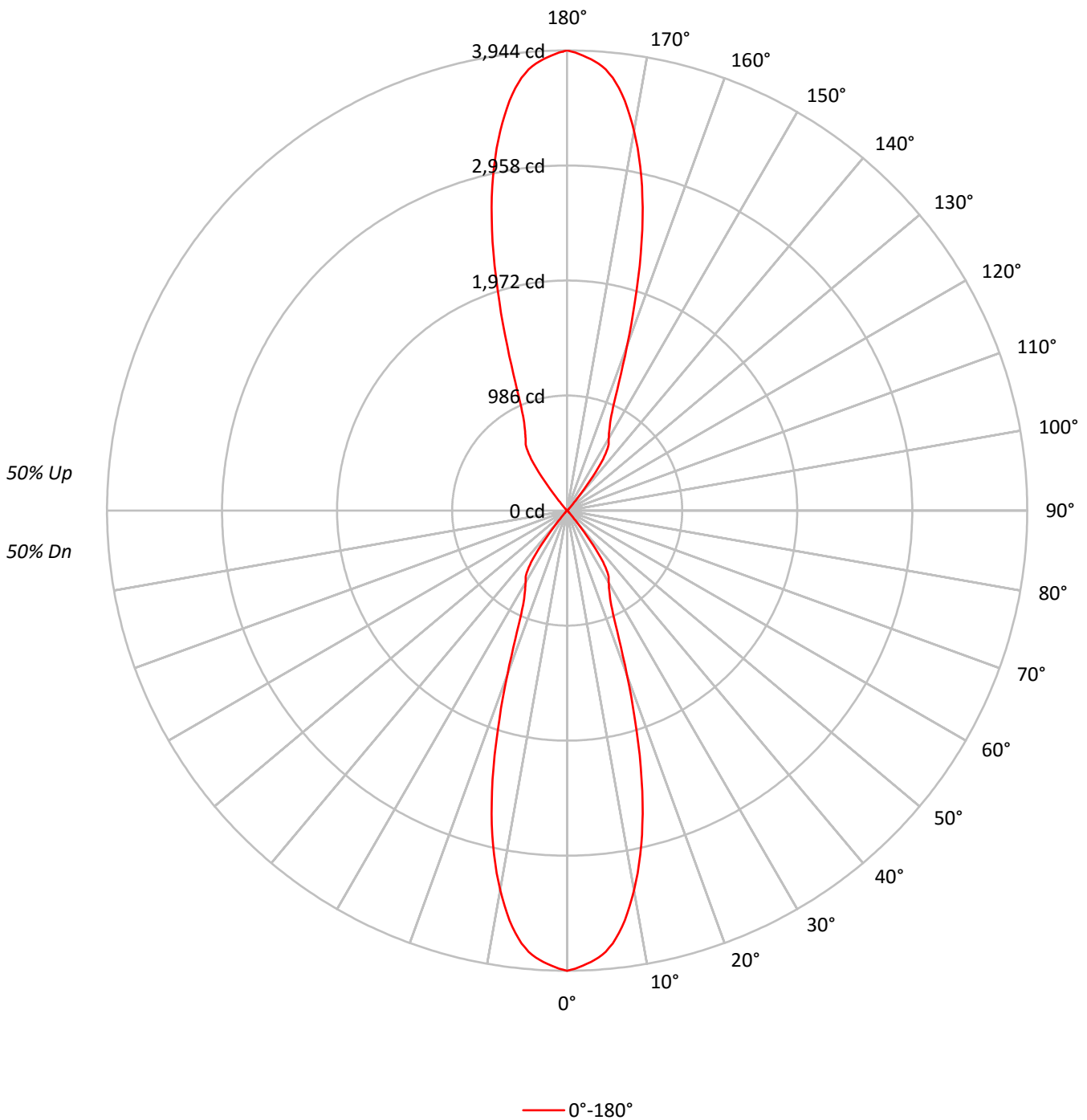
Lumens per Lamp: N/A  
Luminaire Lumens: 3548.2 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

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: P222082  
CATALOG NUMBER: 9004-W2-FL-LED3597-F-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222082

CATALOG NUMBER: 9004-W2-FL-LED3597-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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

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

	0°
0°	486537
5°	469885
10°	413708
15°	317786
20°	196538
25°	121779
30°	101479
35°	81236
40°	17712
45°	3768
50°	710
55°	409
60°	296
65°	175
70°	216
75°	286
80°	0
85°	0



TEST NUMBER: P222082

CATALOG NUMBER: 9004-W2-FL-LED3597-F-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	9.8
10°-20°	667.4	18.8
20°-30°	438.3	12.4
30°-40°	295.5	8.3
40°-50°	23.3	0.7
50°-60°	1.7	0.0
60°-70°	0.8	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	0.8	0.0
120°-130°	1.7	0.0
130°-140°	23.3	0.7
140°-150°	295.5	8.3
150°-160°	438.3	12.4
160°-170°	667.4	18.8
170°-180°	346.6	9.8
0°-30°	1452.2	40.9
0°-40°	1747.7	49.3
0°-60°	1772.7	50.0
0°-90°	1774.1	50.0
90°-120°	1.4	0.0
90°-150°	321.9	9.1
90°-180°	1774.0	50.0
0°-180°	3548.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3944	
5°	3795	347
15°	2489	667
25°	895	438
35°	540	296
45°	22	23
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	22	23
145°	540	296
155°	895	438
165°	2489	667
175°	3795	347
180°	3944	



TEST NUMBER: P222082

CATALOG NUMBER: 9004-W2-FL-LED3597-F-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3944.5
1°	3927.2
2°	3901.9
3°	3874.1
4°	3841.3
5°	3795.0
6°	3731.3
7°	3648.5
8°	3546.5
9°	3428.5
10°	3303.1
11°	3165.3
12°	3015.1
13°	2851.3
14°	2677.1
15°	2488.6
16°	2290.2
17°	2085.0
18°	1879.9
19°	1687.1
20°	1497.3
21°	1333.0
22°	1185.3
23°	1062.9
24°	968.4
25°	894.8
26°	841.7
27°	800.9
28°	766.3
29°	737.9
30°	712.5
32.5°	659.4
35°	539.5
37.5°	320.7
40°	110.0
42.5°	32.8
45°	21.6
47.5°	13.6
50°	3.7
52.5°	1.9
55°	1.9
57.5°	1.2
60°	1.2
62.5°	1.2
65°	0.6



TEST NUMBER: P222082

CATALOG NUMBER: 9004-W2-FL-LED3597-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	0.6
117.5°	1.2
120°	1.2
122.5°	1.2
125°	1.9
127.5°	1.9
130°	3.7
132.5°	13.6
135°	21.6
137.5°	32.8
140°	110.0
142.5°	320.7
145°	539.5
147.5°	659.4
150°	712.5
151°	737.9
152°	766.3
153°	800.9
154°	841.7
155°	894.8
156°	968.4
157°	1062.9
158°	1185.3
159°	1333.0
160°	1497.3
161°	1687.1



TEST NUMBER: P222082

CATALOG NUMBER: 9004-W2-FL-LED3597-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1879.9
163°	2085.0
164°	2290.2
165°	2488.6
166°	2677.1
167°	2851.3
168°	3015.1
169°	3165.3
170°	3303.1
171°	3428.5
172°	3546.5
173°	3648.5
174°	3731.3
175°	3795.0
176°	3841.3
177°	3874.1
178°	3901.9
179°	3927.2
180°	3944.5

(END OF REPORT)