

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: P221863

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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]-LED3597-W-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3210.6 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

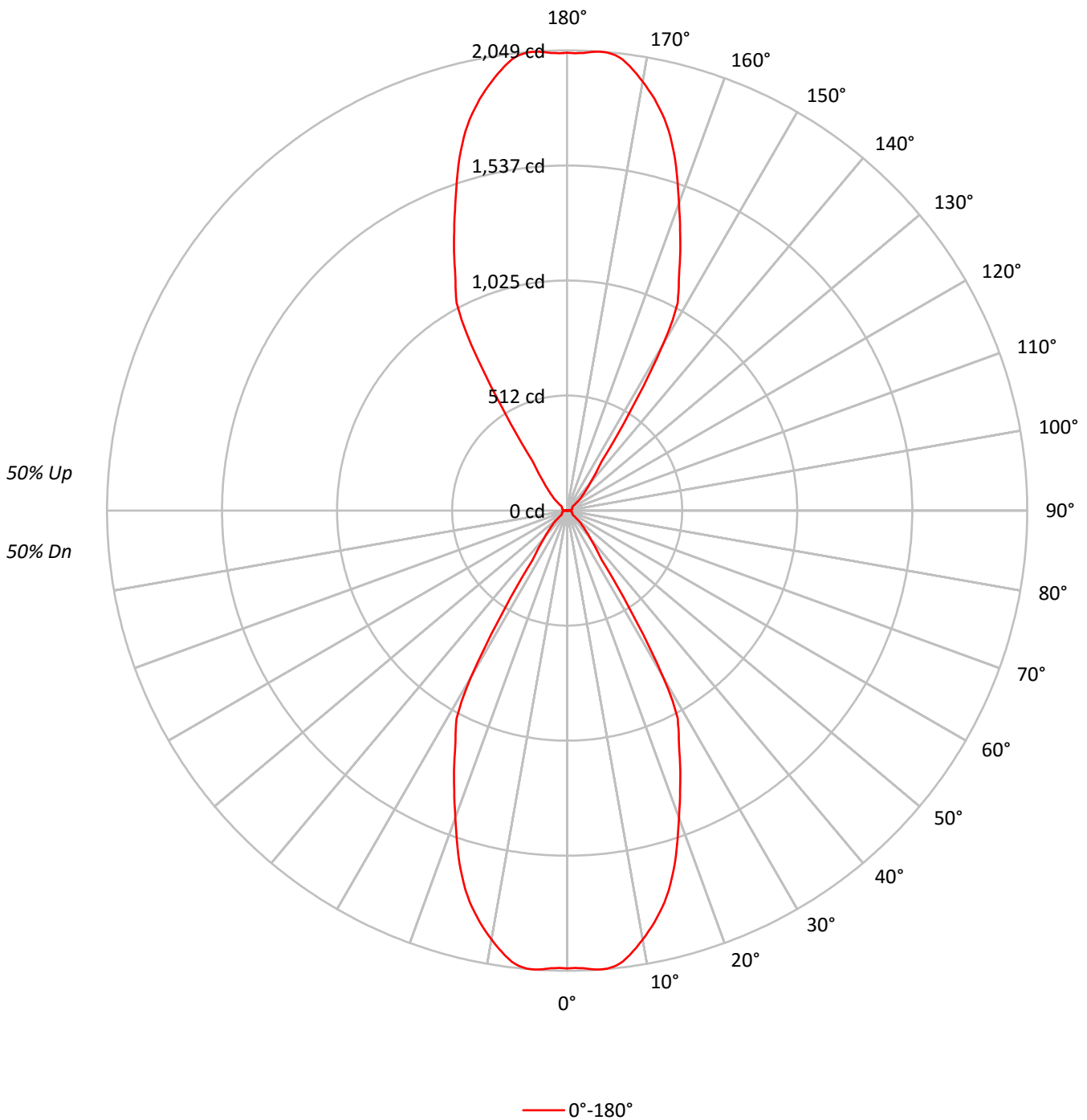
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-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	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
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	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

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

	0°
0°	251465
5°	253490
10°	242882
15°	223482
20°	191025
25°	160812
30°	121547
35°	40385
40°	25666
45°	17461
50°	10189
55°	6107
60°	6710
65°	7384
70°	8475
75°	10294
80°	12289
85°	12313



TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	6.0
10°-20°	482.7	15.0
20°-30°	540.7	16.8
30°-40°	226.1	7.0
40°-50°	78.5	2.4
50°-60°	28.5	0.9
60°-70°	25.1	0.8
70°-80°	22.4	0.7
80°-90°	9.4	0.3
90°-100°	9.4	0.3
100°-110°	22.4	0.7
110°-120°	25.1	0.8
120°-130°	28.5	0.9
130°-140°	78.5	2.4
140°-150°	226.1	7.0
150°-160°	540.7	16.8
160°-170°	482.7	15.0
170°-180°	191.9	6.0
0°-30°	1215.3	37.9
0°-40°	1441.4	44.9
0°-60°	1548.4	48.2
0°-90°	1605.3	50.0
90°-120°	56.9	1.8
90°-150°	390.0	12.1
90°-180°	1605.0	50.0
0°-180°	3210.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2039	
5°	2047	192
15°	1750	483
25°	1182	541
35°	268	226
45°	100	78
55°	28	29
65°	25	25
75°	22	22
85°	9	9
90°	0	1
95°	9	9
105°	22	22
115°	25	25
125°	28	29
135°	100	78
145°	268	226
155°	1182	541
165°	1750	483
175°	2047	192
180°	2039	



TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2038.7
1°	2036.8
2°	2038.7
3°	2044.9
4°	2048.6
5°	2047.3
6°	2039.9
7°	2023.9
8°	1998.5
9°	1970.1
10°	1939.2
11°	1906.4
12°	1873.1
13°	1835.4
14°	1795.2
15°	1750.1
16°	1696.3
17°	1640.1
18°	1579.5
19°	1516.5
20°	1455.3
21°	1398.5
22°	1343.5
23°	1289.1
24°	1235.9
25°	1181.6
26°	1134.0
27°	1092.0
28°	1048.7
29°	969.6
30°	853.4
32.5°	511.7
35°	268.2
37.5°	205.2
40°	159.4
42.5°	124.2
45°	100.1
47.5°	80.3
50°	53.1
52.5°	31.5
55°	28.4
57.5°	27.8
60°	27.2
62.5°	26.6
65°	25.3



TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	24.1
70°	23.5
72.5°	22.9
75°	21.6
77.5°	19.8
80°	17.3
82.5°	13.6
85°	8.7
87.5°	3.7
90°	0.0
92.5°	3.7
95°	8.7
97.5°	13.6
100°	17.3
102.5°	19.8
105°	21.6
107.5°	22.9
110°	23.5
112.5°	24.1
115°	25.3
117.5°	26.6
120°	27.2
122.5°	27.8
125°	28.4
127.5°	31.5
130°	53.1
132.5°	80.3
135°	100.1
137.5°	124.2
140°	159.4
142.5°	205.2
145°	268.2
147.5°	511.7
150°	853.4
151°	969.6
152°	1048.7
153°	1092.0
154°	1134.0
155°	1181.6
156°	1235.9
157°	1289.1
158°	1343.5
159°	1398.5
160°	1455.3
161°	1516.5



TEST NUMBER: P221863

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-W-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1579.5
163°	1640.1
164°	1696.3
165°	1750.1
166°	1795.2
167°	1835.4
168°	1873.1
169°	1906.4
170°	1939.2
171°	1970.1
172°	1998.5
173°	2023.9
174°	2039.9
175°	2047.3
176°	2048.6
177°	2044.9
178°	2038.7
179°	2036.8
180°	2038.7

(END OF REPORT)