

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: P221258

Luminaire Tested: **9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29411)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1691.4 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

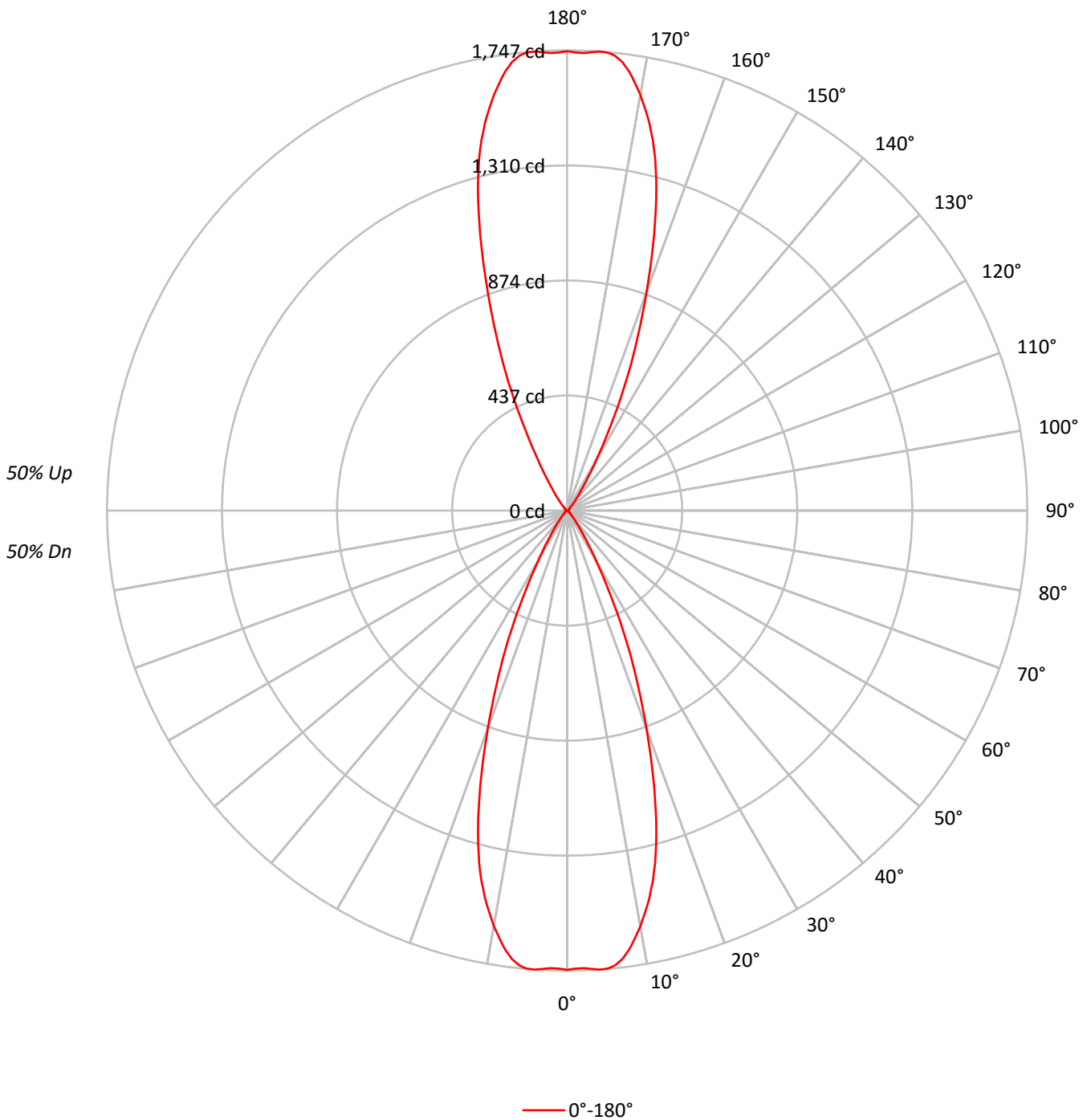
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-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	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	82	79	75	71	69	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60	57	55	53	49	47	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	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	47	48	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	47	44	46	43	41	41	39	37	35
8	66	57	51	46	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	53	47	43	59	51	46	42	46	42	39	42	39	37	38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37	40	37	35	36	34	33	31

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

	0°
0°	860306
5°	864781
10°	802337
15°	667799
20°	461618
25°	273825
30°	124082
35°	55292
40°	25118
45°	13048
50°	8750
55°	8430
60°	7993
65°	7588
70°	8223
75°	9341
80°	9376
85°	9057



TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	9.6
10°-20°	352.0	20.8
20°-30°	230.0	13.6
30°-40°	63.6	3.8
40°-50°	16.1	1.0
50°-60°	8.6	0.5
60°-70°	6.7	0.4
70°-80°	4.9	0.3
80°-90°	1.8	0.1
90°-100°	1.8	0.1
100°-110°	4.9	0.3
110°-120°	6.7	0.4
120°-130°	8.6	0.5
130°-140°	16.1	1.0
140°-150°	63.6	3.8
150°-160°	230.0	13.6
160°-170°	352.0	20.8
170°-180°	162.1	9.6
0°-30°	744.1	44.0
0°-40°	807.7	47.8
0°-60°	832.4	49.2
0°-90°	845.7	50.0
90°-120°	13.4	0.8
90°-150°	101.6	6.0
90°-180°	846.0	50.0
0°-180°	1691.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1744	
5°	1746	162
15°	1307	352
25°	503	230
35°	92	64
45°	19	16
55°	10	9
65°	6	7
75°	5	5
85°	2	2
90°	0	0
95°	2	2
105°	5	5
115°	6	7
125°	10	9
135°	19	16
145°	92	64
155°	503	230
165°	1307	352
175°	1746	162
180°	1744	



TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1743.7
1°	1739.6
2°	1738.0
3°	1742.1
4°	1746.9
5°	1746.1
6°	1736.4
7°	1716.1
8°	1684.4
9°	1644.6
10°	1601.5
11°	1553.6
12°	1501.6
13°	1444.7
14°	1379.7
15°	1307.4
16°	1226.1
17°	1140.8
18°	1053.0
19°	966.1
20°	879.2
22.5°	680.9
25°	503.0
26°	437.1
27°	371.3
28°	312.8
29°	260.0
30°	217.8
32.5°	138.9
35°	91.8
37.5°	59.3
40°	39.0
42.5°	26.8
45°	18.7
47.5°	13.8
50°	11.4
52.5°	9.8
55°	9.8
57.5°	8.9
60°	8.1
62.5°	7.3
65°	6.5
67.5°	6.5
70°	5.7
72.5°	4.9



TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
75°	4.9
77.5°	4.1
80°	3.3
82.5°	2.4
85°	1.6
87.5°	0.8
90°	0.0
92.5°	0.8
95°	1.6
97.5°	2.4
100°	3.3
102.5°	4.1
105°	4.9
107.5°	4.9
110°	5.7
112.5°	6.5
115°	6.5
117.5°	7.3
120°	8.1
122.5°	8.9
125°	9.8
127.5°	9.8
130°	11.4
132.5°	13.8
135°	18.7
137.5°	26.8
140°	39.0
142.5°	59.3
145°	91.8
147.5°	138.9
150°	217.8
151°	260.0
152°	312.8
153°	371.3
154°	437.1
155°	503.0
157.5°	680.9
160°	879.2
161°	966.1
162°	1053.0
163°	1140.8
164°	1226.1
165°	1307.4
166°	1379.7
167°	1444.7



TEST NUMBER: P221258

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3597-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
168°	1501.6
169°	1553.6
170°	1601.5
171°	1644.6
172°	1684.4
173°	1716.1
174°	1736.4
175°	1746.1
176°	1746.9
177°	1742.1
178°	1738.0
179°	1739.6
180°	1743.7

(END OF REPORT)