

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: P221241

Luminaire Tested: **9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29415)  
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]-LED3097-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

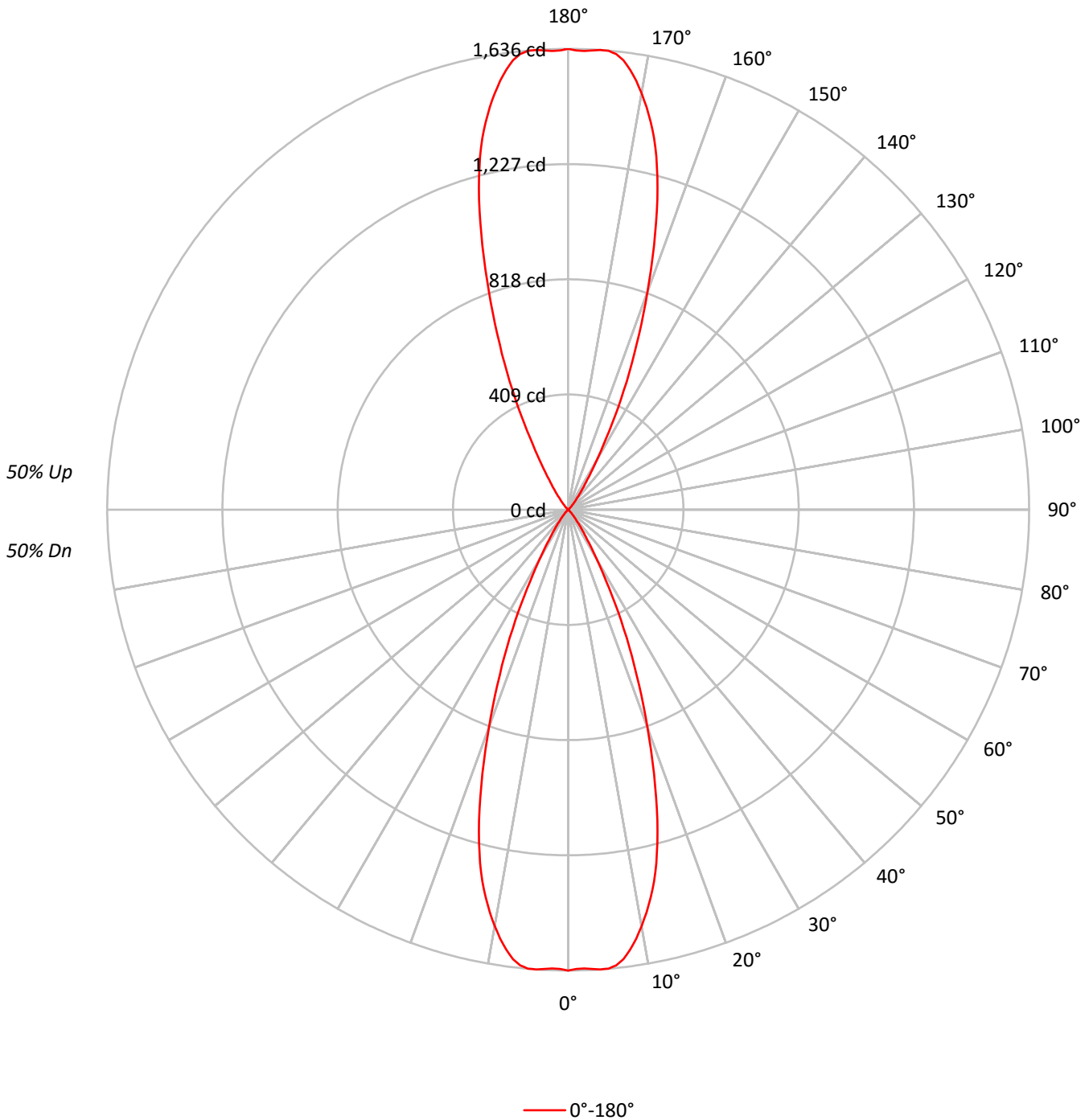
Lumens per Lamp: N/A  
Luminaire Lumens: 1522.6 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

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: P221241  
CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221241

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-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	95	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	76	72	82	77	72	68	67	64	61		58	56	54		50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56		55	52	50		47	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52		52	49	47		45	44	42	40
6	75	65	59	55	70	62	57	53	55	51	49		49	47	44		44	42	40	38
7	71	61	55	51	66	58	53	49	52	48	46		47	44	42		42	40	38	36
8	67	58	52	47	63	55	50	46	50	46	43		45	42	40		40	38	37	35
9	64	54	48	45	60	52	47	43	47	43	40		43	40	38		39	37	35	33
10	61	51	46	42	57	49	44	41	45	41	38		41	38	36		37	35	34	32

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

	0°
0°	807317
5°	810005
10°	752037
15°	625098
20°	430798
25°	254010
30°	113542
35°	48365
40°	19386
45°	6977
50°	2379
55°	688
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P221241

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	10.0
10°-20°	329.5	21.6
20°-30°	213.5	14.0
30°-40°	56.1	3.7
40°-50°	9.4	0.6
50°-60°	1.0	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	1.0	0.1
130°-140°	9.4	0.6
140°-150°	56.1	3.7
150°-160°	213.5	14.0
160°-170°	329.5	21.6
170°-180°	151.9	10.0
0°-30°	694.9	45.6
0°-40°	750.9	49.3
0°-60°	761.3	50.0
0°-90°	761.3	50.0
90°-120°	0.0	0.0
90°-150°	66.4	4.4
90°-180°	761.0	50.0
0°-180°	1522.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1636	
5°	1636	152
15°	1224	329
25°	467	214
35°	80	56
45°	10	9
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	10	9
145°	80	56
155°	467	214
165°	1224	329
175°	1636	152
180°	1636	



TEST NUMBER: P221241

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1636.3
1°	1630.9
2°	1629.4
3°	1632.5
4°	1636.3
5°	1635.5
6°	1626.3
7°	1607.7
8°	1577.6
9°	1542.1
10°	1501.1
11°	1456.3
12°	1407.6
13°	1354.3
14°	1292.5
15°	1223.8
16°	1148.0
17°	1067.7
18°	985.0
19°	900.8
20°	820.5
22.5°	634.3
25°	466.6
26°	404.8
27°	343.0
28°	287.4
29°	239.5
30°	199.3
32.5°	125.2
35°	80.3
37.5°	49.4
40°	30.1
42.5°	17.8
45°	10.0
47.5°	5.4
50°	3.1
52.5°	1.5
55°	0.8
57.5°	0.8
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0



TEST NUMBER: P221241

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
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°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.8
125°	0.8
127.5°	1.5
130°	3.1
132.5°	5.4
135°	10.0
137.5°	17.8
140°	30.1
142.5°	49.4
145°	80.3
147.5°	125.2
150°	199.3
151°	239.5
152°	287.4
153°	343.0
154°	404.8
155°	466.6
157.5°	634.3
160°	820.5
161°	900.8
162°	985.0
163°	1067.7
164°	1148.0
165°	1223.8
166°	1292.5
167°	1354.3



TEST NUMBER: P221241

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3097-F-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
168°	1407.6
169°	1456.3
170°	1501.1
171°	1542.1
172°	1577.6
173°	1607.7
174°	1626.3
175°	1635.5
176°	1636.3
177°	1632.5
178°	1629.4
179°	1630.9
180°	1636.3

(END OF REPORT)