

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: P221809

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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]-LED3097-S-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2878.0 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

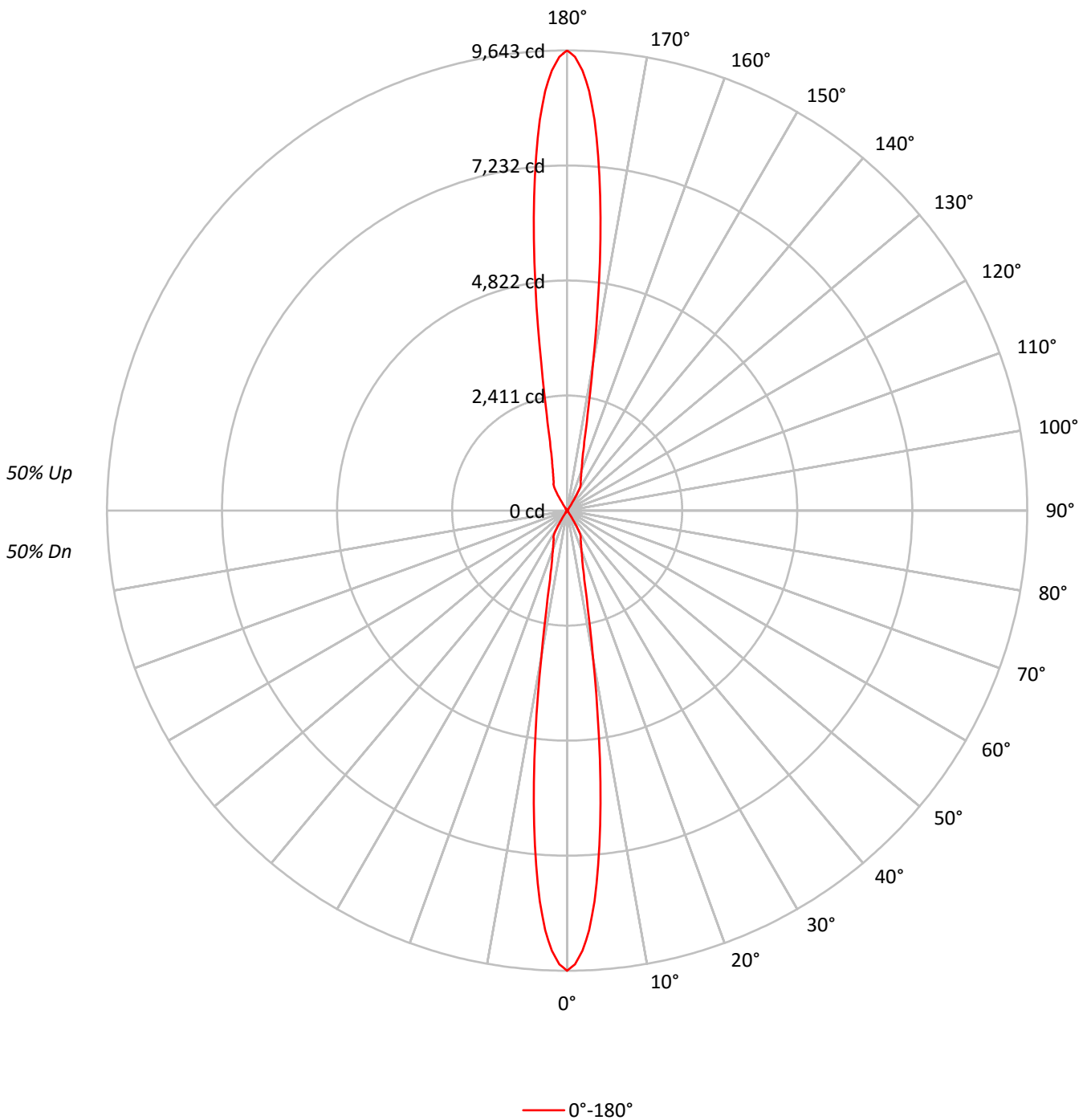
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-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	97	94	92	93	90	88	86	77	75	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	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

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

	0°
0°	1189459
5°	924305
10°	391689
15°	167462
20°	114355
25°	91130
30°	68123
35°	9020
40°	4830
45°	3524
50°	3761
55°	4107
60°	4564
65°	5253
70°	6095
75°	7292
80°	8524
85°	8491



TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.3	19.6
10°-20°	403.7	14.0
20°-30°	311.5	10.8
30°-40°	86.3	3.0
40°-50°	16.7	0.6
50°-60°	17.1	0.6
60°-70°	17.8	0.6
70°-80°	15.9	0.6
80°-90°	6.7	0.2
90°-100°	6.7	0.2
100°-110°	15.9	0.6
110°-120°	17.8	0.6
120°-130°	17.1	0.6
130°-140°	16.7	0.6
140°-150°	86.3	3.0
150°-160°	311.5	10.8
160°-170°	403.7	14.0
170°-180°	563.3	19.6
0°-30°	1278.5	44.4
0°-40°	1364.8	47.4
0°-60°	1398.7	48.6
0°-90°	1439.0	50.0
90°-120°	40.3	1.4
90°-150°	160.5	5.6
90°-180°	1439.0	50.0
0°-180°	2878.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9643	
5°	7465	563
15°	1311	404
25°	670	312
35°	60	86
45°	20	17
55°	19	17
65°	18	18
75°	15	16
85°	6	6
90°	0	1
95°	6	6
105°	15	16
115°	18	18
125°	19	17
135°	20	17
145°	60	86
155°	670	312
165°	1311	404
175°	7465	563
180°	9643	



TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9643.3
1°	9508.2
2°	9228.1
3°	8802.6
4°	8210.9
5°	7465.1
6°	6622.8
7°	5733.7
8°	4771.0
9°	3898.2
10°	3127.3
11°	2519.8
12°	2058.9
13°	1725.4
14°	1489.5
15°	1311.4
16°	1179.0
17°	1079.8
18°	1001.9
19°	933.8
20°	871.2
22.5°	754.6
25°	669.6
26°	647.8
27°	629.3
28°	606.9
29°	558.4
30°	478.3
32.5°	229.9
35°	59.9
37.5°	38.7
40°	30.0
42.5°	22.3
45°	20.2
47.5°	19.6
50°	19.6
52.5°	19.1
55°	19.1
57.5°	19.1
60°	18.5
62.5°	18.5
65°	18.0
67.5°	17.4
70°	16.9
72.5°	16.3



TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
75°	15.3
77.5°	14.2
80°	12.0
82.5°	9.8
85°	6.0
87.5°	2.7
90°	0.0
92.5°	2.7
95°	6.0
97.5°	9.8
100°	12.0
102.5°	14.2
105°	15.3
107.5°	16.3
110°	16.9
112.5°	17.4
115°	18.0
117.5°	18.5
120°	18.5
122.5°	19.1
125°	19.1
127.5°	19.1
130°	19.6
132.5°	19.6
135°	20.2
137.5°	22.3
140°	30.0
142.5°	38.7
145°	59.9
147.5°	229.9
150°	478.3
151°	558.4
152°	606.9
153°	629.3
154°	647.8
155°	669.6
157.5°	754.6
160°	871.2
161°	933.8
162°	1001.9
163°	1079.8
164°	1179.0
165°	1311.4
166°	1489.5
167°	1725.4



TEST NUMBER: P221809

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-S-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
168°	2058.9
169°	2519.8
170°	3127.3
171°	3898.2
172°	4771.0
173°	5733.7
174°	6622.8
175°	7465.1
176°	8210.9
177°	8802.6
178°	9228.1
179°	9508.2
180°	9643.3

(END OF REPORT)