

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: P220908

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-[RW, RI]-LED4097-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1460.8 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

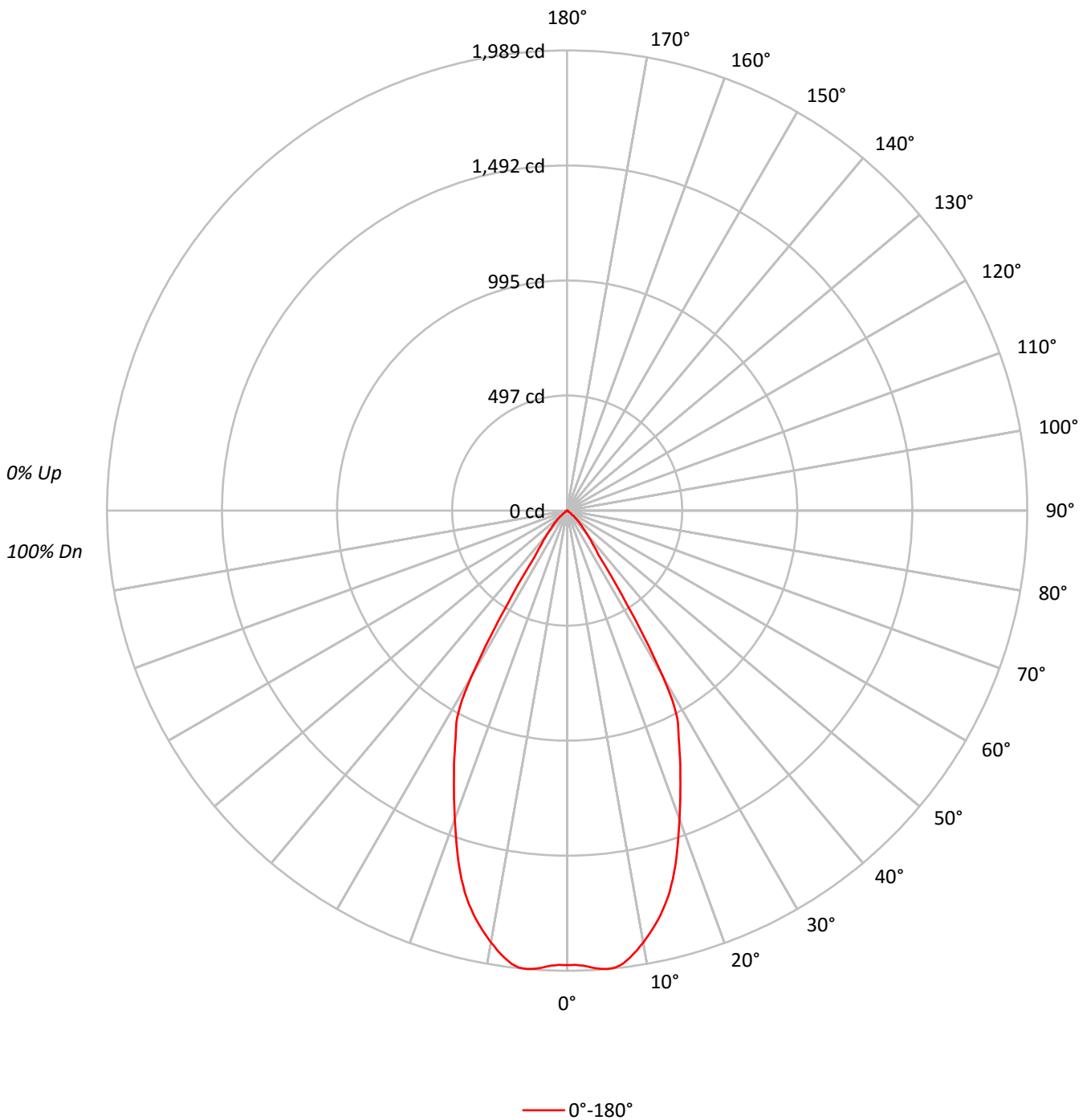
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220908

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P220908

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

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

	0°
0°	242325
5°	246284
10°	237396
15°	218208
20°	186300
25°	156511
30°	117161
35°	36771
40°	21786
45°	13240
50°	5526
55°	925
60°	592
65°	350
70°	216
75°	286
80°	0
85°	0



TEST NUMBER: P220908

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.9	12.8
10°-20°	471.3	32.3
20°-30°	524.9	35.9
30°-40°	209.4	14.3
40°-50°	59.9	4.1
50°-60°	6.6	0.5
60°-70°	1.3	0.1
70°-80°	0.6	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°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1183.1	81.0
0°-40°	1392.5	95.3
0°-60°	1459.0	99.9
0°-90°	1460.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1965	
5°	1989	187
15°	1709	471
25°	1150	525
35°	244	209
45°	76	60
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P220908

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1964.6
1°	1964.0
2°	1967.6
3°	1976.8
4°	1985.4
5°	1989.1
6°	1986.6
7°	1973.8
8°	1951.7
9°	1924.8
10°	1895.4
11°	1863.6
12°	1830.6
13°	1793.8
14°	1753.4
15°	1708.8
16°	1656.7
17°	1601.0
18°	1540.5
19°	1478.6
20°	1419.3
21°	1361.7
22°	1306.7
23°	1252.8
24°	1202.0
25°	1150.0
26°	1101.0
27°	1058.8
28°	1014.7
29°	937.0
30°	822.6
32.5°	481.0
35°	244.2
37.5°	180.5
40°	135.3
42.5°	100.4
45°	75.9
47.5°	56.3
50°	28.8
52.5°	7.3
55°	4.3
57.5°	3.1
60°	2.4
62.5°	1.8
65°	1.2



TEST NUMBER: P220908

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-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

(END OF REPORT)