

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: P220734

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220734
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-W1-[RW, RI]-LED4097-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2094.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

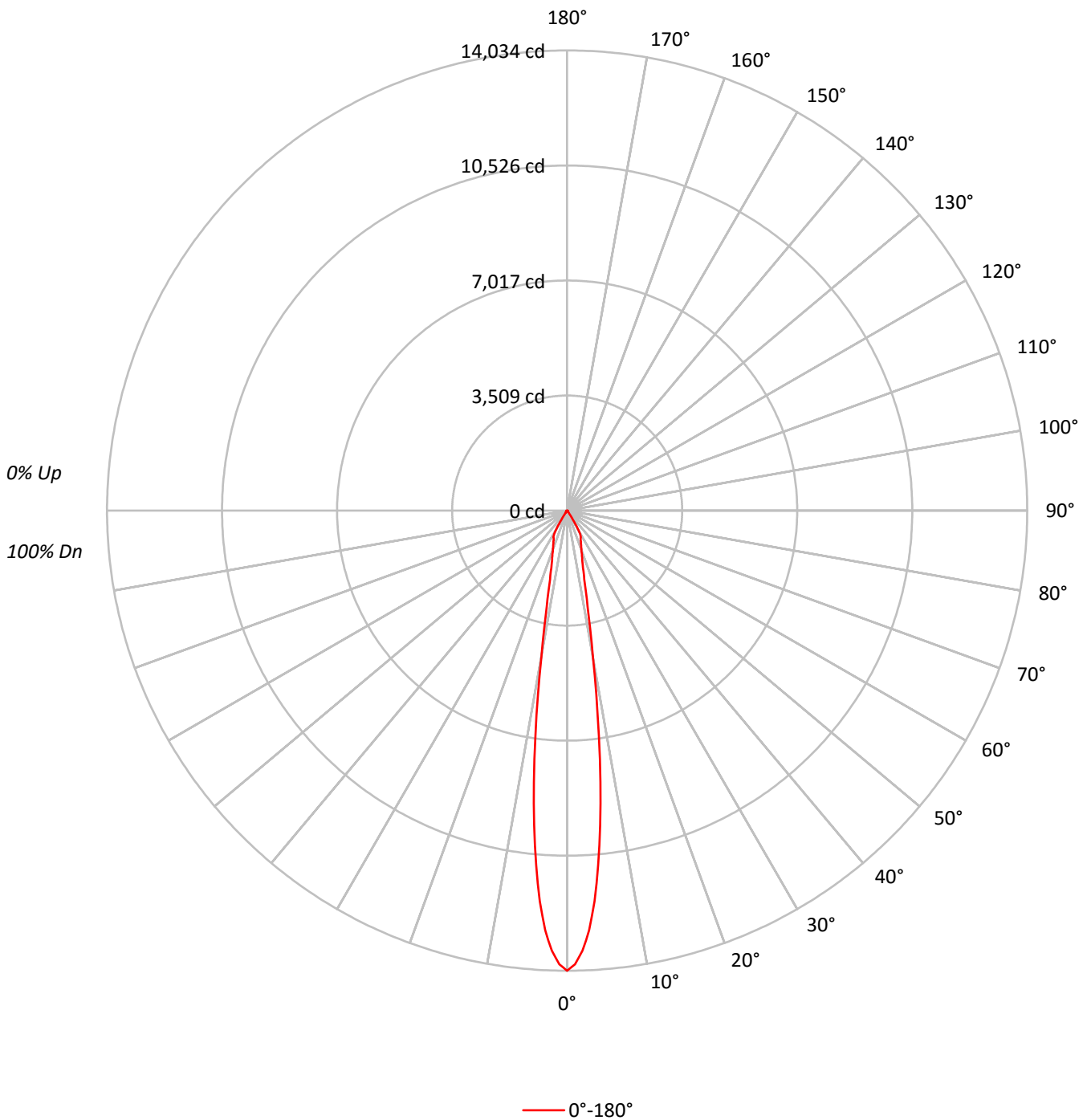
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220734

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-S-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220734

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-S-WT-L3-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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1731082
5°	1345195
10°	570043
15°	243709
20°	166427
25°	132626
30°	99158
35°	13130
40°	7020
45°	5111
50°	5469
55°	5978
60°	6661
65°	7647
70°	8872
75°	10580
80°	12360
85°	12313



TEST NUMBER: P220734

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-S-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.8	39.1
10°-20°	587.5	28.1
20°-30°	453.4	21.6
30°-40°	125.6	6.0
40°-50°	24.3	1.2
50°-60°	24.9	1.2
60°-70°	25.9	1.2
70°-80°	23.1	1.1
80°-90°	9.7	0.5
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°	1860.7	88.8
0°-40°	1986.3	94.8
0°-60°	2035.6	97.2
0°-90°	2094.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14034	
5°	10864	820
15°	1908	588
25°	974	453
35°	87	126
45°	29	24
55°	28	25
65°	26	26
75°	22	23
85°	9	10
90°	0	



TEST NUMBER: P220734

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-S-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	14034.4
1°	13837.8
2°	13430.2
3°	12810.9
4°	11949.9
5°	10864.4
6°	9638.5
7°	8344.5
8°	6943.5
9°	5673.2
10°	4551.3
11°	3667.2
12°	2996.4
13°	2511.1
14°	2167.8
15°	1908.5
16°	1715.8
17°	1571.5
18°	1458.1
19°	1359.0
20°	1267.9
22.5°	1098.2
25°	974.5
26°	942.8
27°	915.8
28°	883.3
29°	812.7
30°	696.2
32.5°	334.6
35°	87.2
37.5°	56.3
40°	43.6
42.5°	32.5
45°	29.3
47.5°	28.5
50°	28.5
52.5°	27.8
55°	27.8
57.5°	27.8
60°	27.0
62.5°	27.0
65°	26.2
67.5°	25.4
70°	24.6
72.5°	23.8



TEST NUMBER: P220734

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-S-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	22.2
77.5°	20.6
80°	17.4
82.5°	14.3
85°	8.7
87.5°	4.0
90°	0.0

(END OF REPORT)