

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: P220726

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220726
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-L2-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: 1616.5 lumens
Efficiency: N/A
Efficacy: 80.4 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

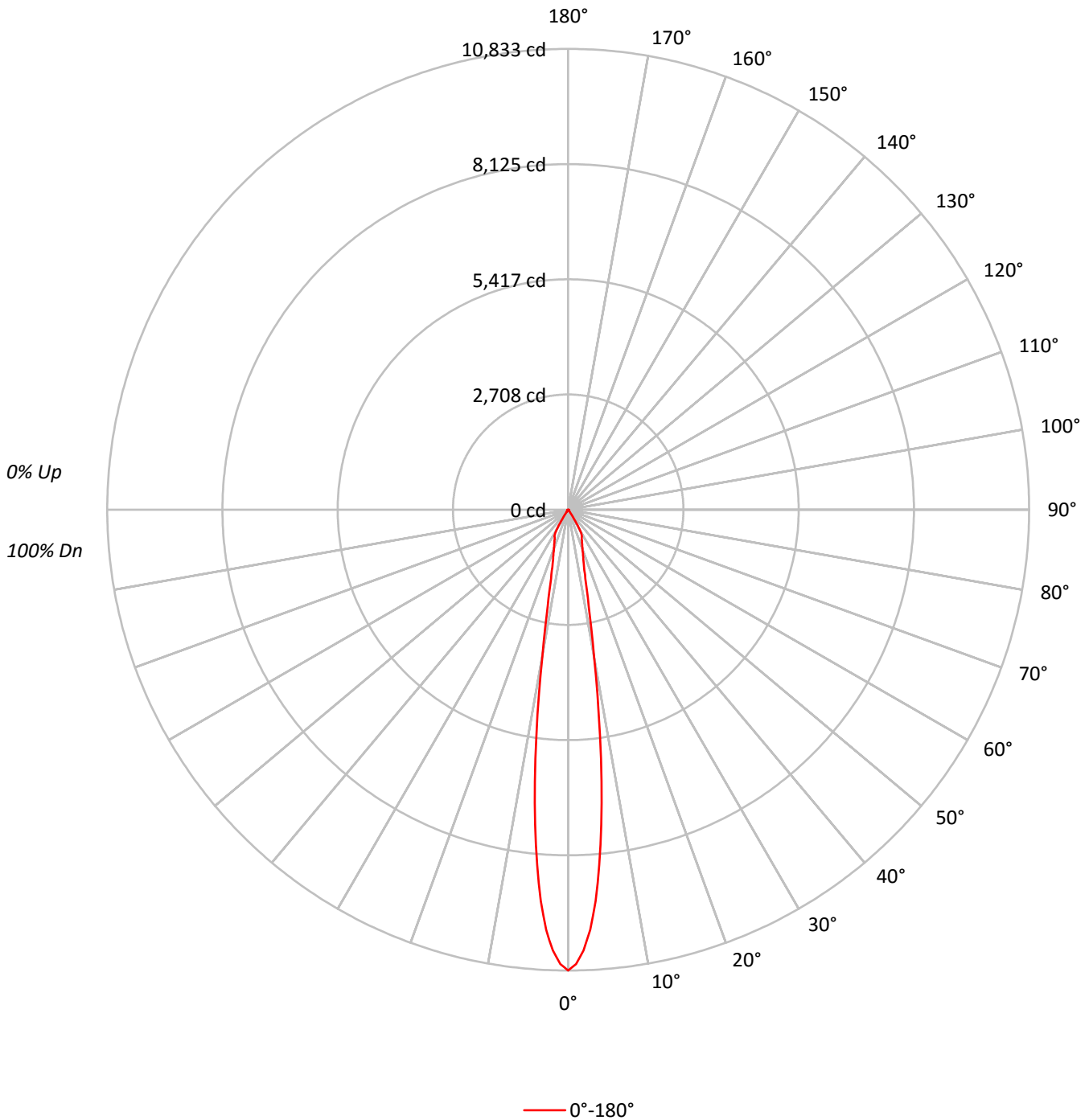
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1336179
5°	1038315
10°	439998
15°	188110
20°	128453
25°	102372
30°	76540
35°	10134
40°	5426
45°	3942
50°	4222
55°	4602
60°	5131
65°	5896
70°	6852
75°	8149
80°	9589
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	39.1
10°-20°	453.5	28.1
20°-30°	349.9	21.6
30°-40°	97.0	6.0
40°-50°	18.8	1.2
50°-60°	19.2	1.2
60°-70°	20.0	1.2
70°-80°	17.9	1.1
80°-90°	7.5	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°	1436.2	88.8
0°-40°	1533.2	94.8
0°-60°	1571.2	97.2
0°-90°	1616.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10833	
5°	8386	633
15°	1473	453
25°	752	350
35°	67	97
45°	23	19
55°	21	19
65°	20	20
75°	17	18
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10832.8
1°	10681.0
2°	10366.4
3°	9888.4
4°	9223.8
5°	8385.9
6°	7439.7
7°	6440.9
8°	5359.5
9°	4379.0
10°	3513.0
11°	2830.6
12°	2312.8
13°	1938.3
14°	1673.3
15°	1473.1
16°	1324.4
17°	1213.0
18°	1125.5
19°	1049.0
20°	978.6
22.5°	847.6
25°	752.2
26°	727.7
27°	706.9
28°	681.8
29°	627.3
30°	537.4
32.5°	258.3
35°	67.3
37.5°	43.5
40°	33.7
42.5°	25.1
45°	22.6
47.5°	22.0
50°	22.0
52.5°	21.4
55°	21.4
57.5°	21.4
60°	20.8
62.5°	20.8
65°	20.2
67.5°	19.6
70°	19.0
72.5°	18.4



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CANDELA DISTRIBUTION (continued):

	0°
75°	17.1
77.5°	15.9
80°	13.5
82.5°	11.0
85°	6.7
87.5°	3.1
90°	0.0

(END OF REPORT)