

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: P220449

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29468)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-WT-L2-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN 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: 1425.7 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

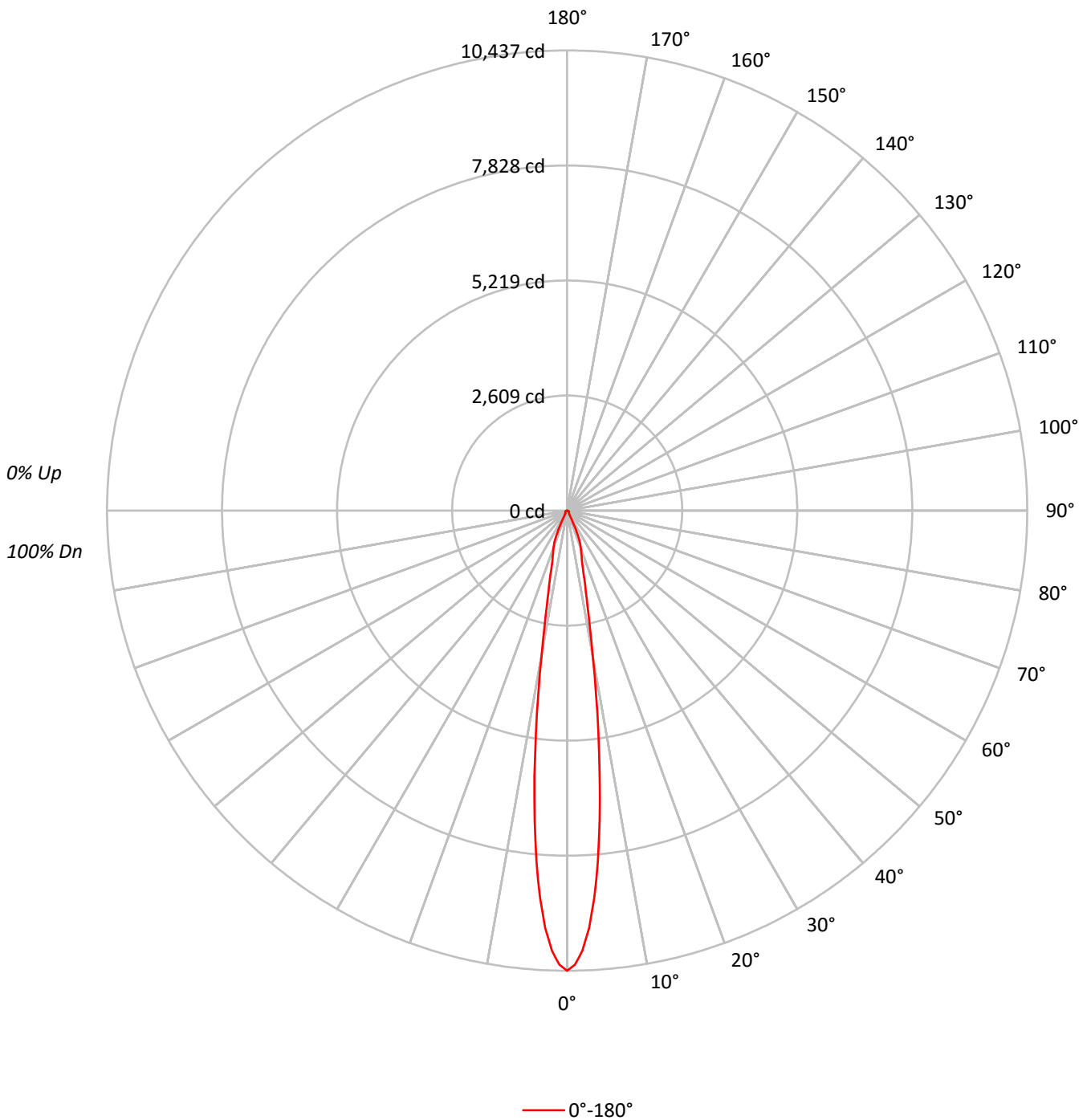
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	86	81	78	92	85	81	78	84	80	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	77	74	87	81	76	74	80	76	73	79	76	73	78	75	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

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

	0°
0°	2288632
5°	1758239
10°	745388
15°	319866
20°	212772
25°	101304
30°	24890
35°	18471
40°	17690
45°	17707
50°	18115
55°	20300
60°	20525
65°	18938
70°	15772
75°	14149
80°	16037
85°	15851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.1	42.2
10°-20°	430.9	30.2
20°-30°	194.8	13.7
30°-40°	46.0	3.2
40°-50°	44.2	3.1
50°-60°	46.5	3.3
60°-70°	35.9	2.5
70°-80°	18.5	1.3
80°-90°	6.7	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°	1227.9	86.1
0°-40°	1273.9	89.4
0°-60°	1364.6	95.7
0°-90°	1425.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10437	
5°	7988	602
15°	1409	431
25°	419	195
35°	69	46
45°	57	44
55°	53	47
65°	36	36
75°	17	19
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10437.0
1°	10300.6
2°	9983.5
3°	9480.8
4°	8804.4
5°	7987.7
6°	7052.1
7°	6072.1
8°	5081.7
9°	4156.4
10°	3347.6
11°	2703.8
12°	2232.8
13°	1887.1
14°	1616.7
15°	1409.0
16°	1241.7
17°	1129.1
18°	1045.0
19°	972.1
20°	911.8
22.5°	724.7
25°	418.7
26°	305.3
27°	207.7
28°	138.0
29°	108.6
30°	98.3
32.5°	82.5
35°	69.0
37.5°	64.2
40°	61.8
42.5°	59.5
45°	57.1
47.5°	54.7
50°	53.1
52.5°	53.1
55°	53.1
57.5°	51.5
60°	46.8
62.5°	42.8
65°	36.5
67.5°	30.1
70°	24.6
72.5°	19.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	16.7
77.5°	15.1
80°	12.7
82.5°	9.5
85°	6.3
87.5°	2.4
90°	0.0

(END OF REPORT)