

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: P220509

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29472)  
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-BK-L1-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 652.8 lumens  
Efficiency: N/A  
Efficacy: 66.6 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

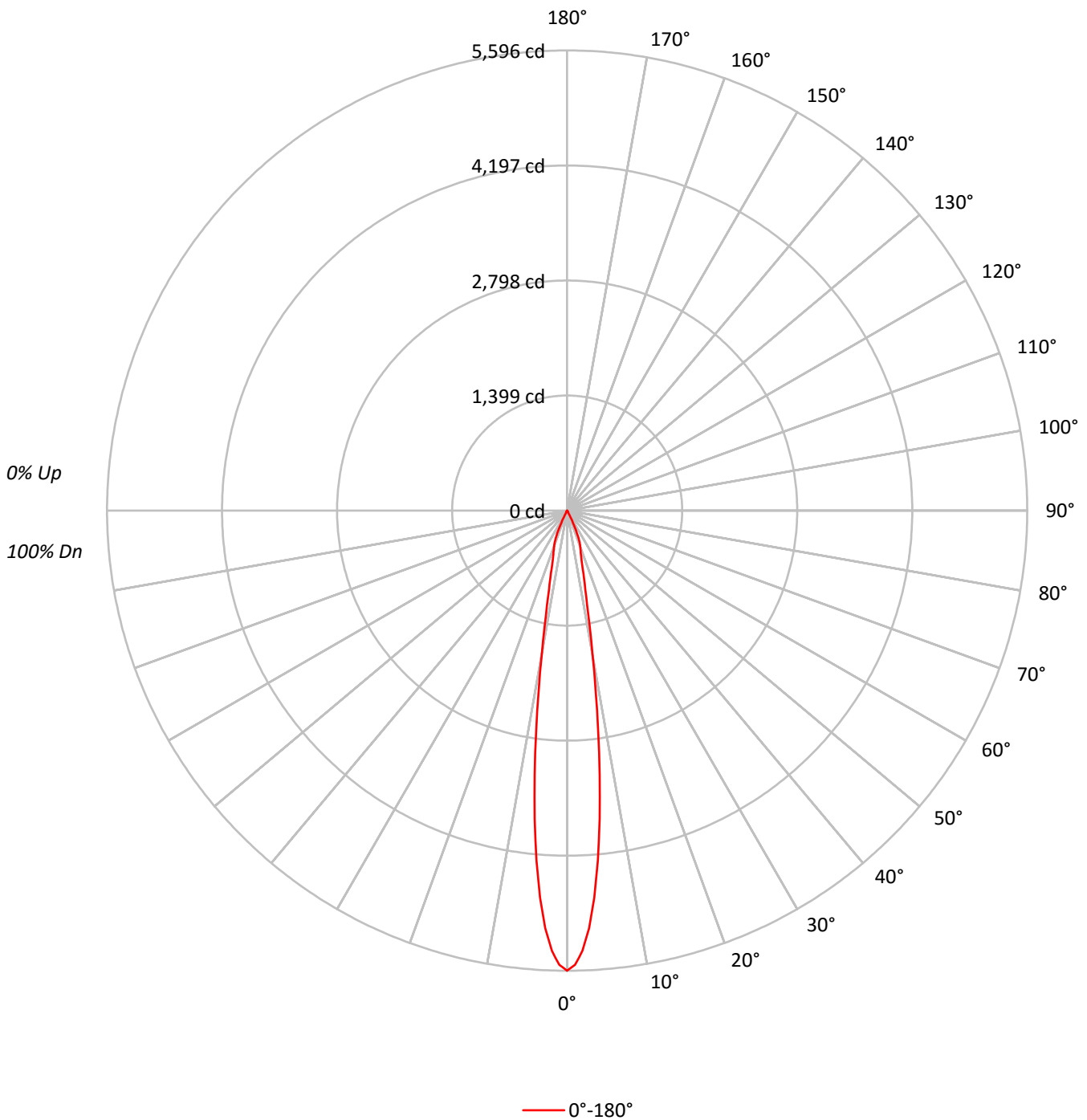
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220509

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P220509

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84
8	96	91	87	84	95	90	87	84	89	86	84	88	86	84	88	85	83	82
9	94	88	85	82	94	88	85	82	87	84	82	87	84	82	86	84	82	81
10	92	87	83	81	92	86	83	81	86	83	80	85	82	80	84	82	80	79

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

	0°
0°	1227007
5°	940015
10°	394359
15°	166425
20°	108253
25°	47446
30°	6431
35°	2409
40°	1718
45°	1333
50°	1160
55°	1147
60°	921
65°	675
70°	256
75°	0
80°	0
85°	0



TEST NUMBER: P220509

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.5	49.3
10°-20°	224.2	34.3
20°-30°	92.4	14.2
30°-40°	7.3	1.1
40°-50°	3.5	0.5
50°-60°	2.5	0.4
60°-70°	1.3	0.2
70°-80°	0.2	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°	638.1	97.7
0°-40°	645.4	98.9
0°-60°	651.4	99.8
0°-90°	652.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5596	
5°	4270	322
15°	733	224
25°	196	92
35°	9	7
45°	4	3
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P220509

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5595.6
1°	5524.3
2°	5357.0
3°	5084.8
4°	4721.5
5°	4270.5
6°	3768.7
7°	3242.8
8°	2701.9
9°	2206.2
10°	1771.1
11°	1426.6
12°	1171.7
13°	983.8
14°	846.6
15°	733.1
16°	641.5
17°	581.8
18°	535.7
19°	495.3
20°	463.9
21°	435.1
22°	391.3
23°	331.5
24°	263.6
25°	196.1
26°	136.3
27°	81.7
28°	45.6
29°	30.5
30°	25.4
32.5°	16.3
35°	9.0
37.5°	6.9
40°	6.0
42.5°	5.2
45°	4.3
47.5°	3.9
50°	3.4
52.5°	3.0
55°	3.0
57.5°	2.6
60°	2.1
62.5°	1.7
65°	1.3



TEST NUMBER: P220509

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED4097-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.9
70°	0.4
72.5°	0.4
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)