

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: P220461

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED3590-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29469)
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]-LED3590-M-WT-L2-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1397.9 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

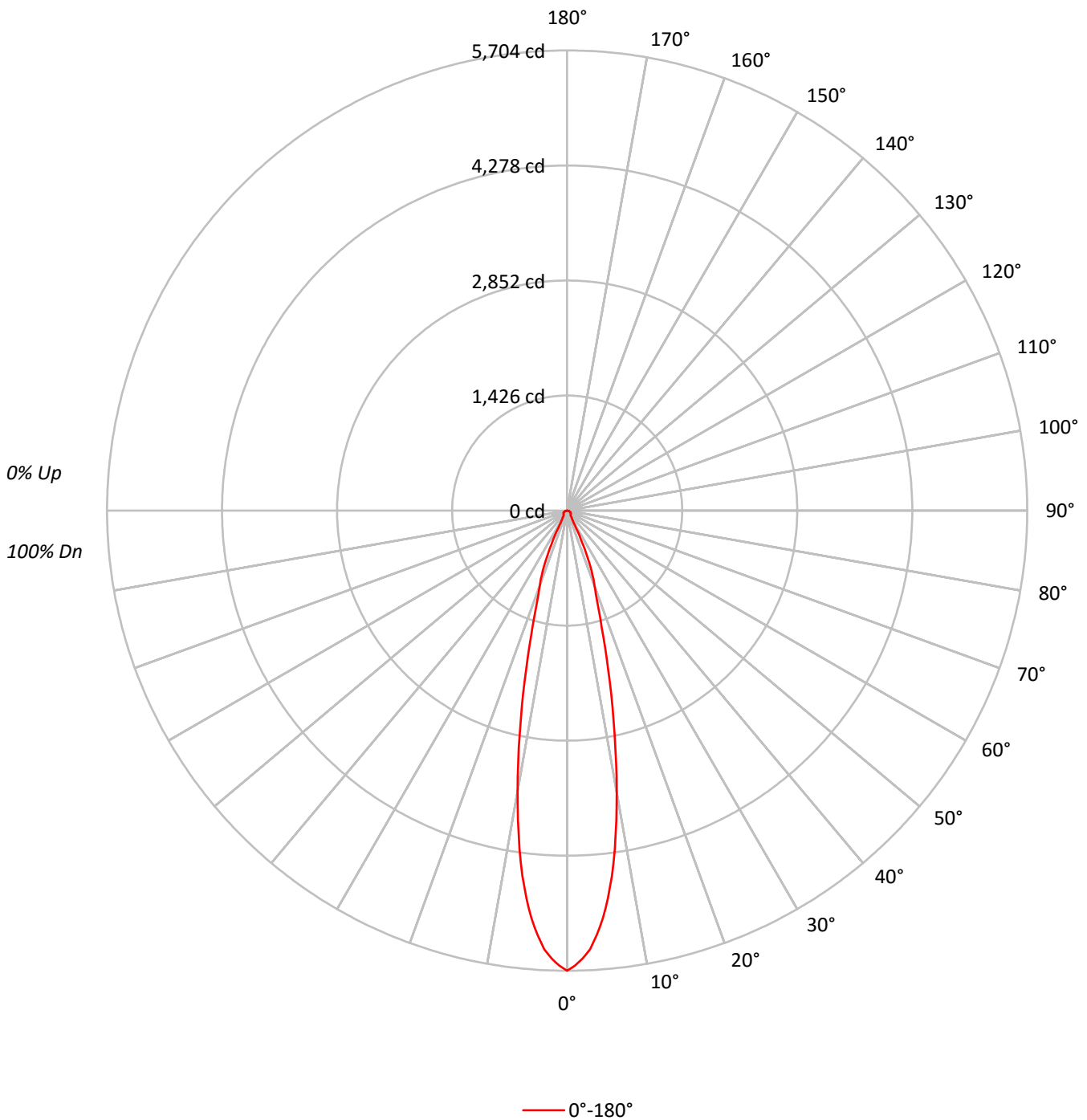
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	74
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72
8	88	80	75	72	86	79	75	71	78	74	71	77	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1250689
5°	1117386
10°	787805
15°	428107
20°	231627
25°	110498
30°	31929
35°	20773
40°	18978
45°	19537
50°	20673
55°	21944
60°	21621
65°	20547
70°	17118
75°	15081
80°	17300
85°	16354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.6	31.1
10°-20°	532.2	38.1
20°-30°	212.9	15.2
30°-40°	53.3	3.8
40°-50°	49.0	3.5
50°-60°	50.5	3.6
60°-70°	38.4	2.7
70°-80°	19.8	1.4
80°-90°	7.1	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°	1179.7	84.4
0°-40°	1233.1	88.2
0°-60°	1332.5	95.3
0°-90°	1397.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5704	
5°	5076	435
15°	1886	532
25°	457	213
35°	78	53
45°	63	49
55°	57	50
65°	40	38
75°	18	20
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5703.6
1°	5640.5
2°	5555.6
3°	5444.9
4°	5271.9
5°	5076.3
6°	4831.4
7°	4559.8
8°	4239.7
9°	3890.5
10°	3538.1
11°	3179.2
12°	2825.9
13°	2496.1
14°	2177.6
15°	1885.8
16°	1621.5
17°	1406.5
18°	1231.1
19°	1094.5
20°	992.6
21°	906.9
22°	809.1
23°	696.8
24°	575.5
25°	456.7
26°	341.9
27°	244.1
28°	172.2
29°	139.0
30°	126.1
32.5°	101.0
35°	77.6
37.5°	69.5
40°	66.3
42.5°	64.7
45°	63.0
47.5°	62.2
50°	60.6
52.5°	59.8
55°	57.4
57.5°	53.3
60°	49.3
62.5°	45.3
65°	39.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	32.3
70°	26.7
72.5°	21.0
75°	17.8
77.5°	16.2
80°	13.7
82.5°	9.7
85°	6.5
87.5°	3.2
90°	0.0

(END OF REPORT)