

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: G2-1802-569-23

Luminaire Tested: **203-FL-8LED4036-12-BK-OSL**

Test Date: 04/07/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-23
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/07/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4036-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

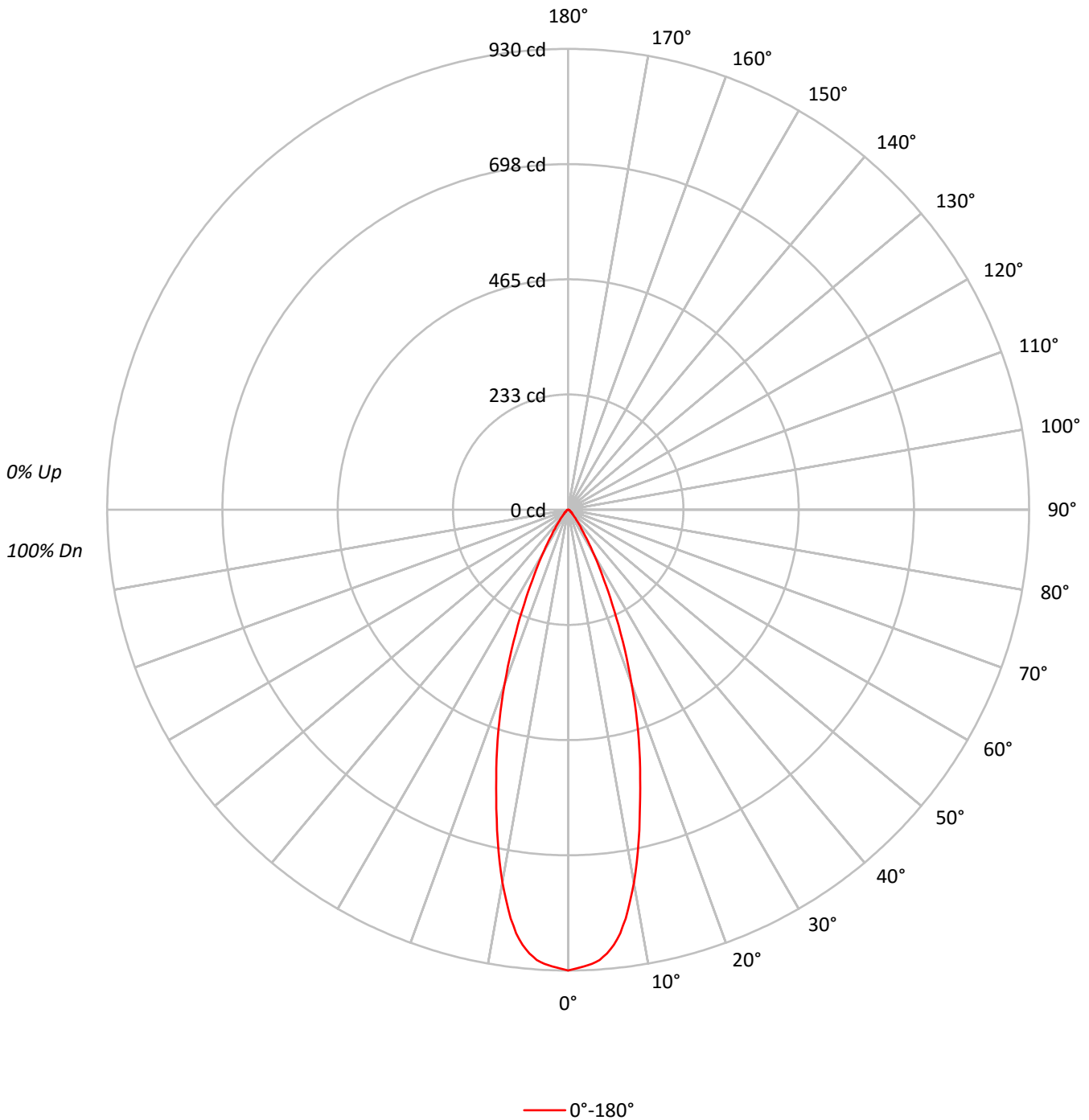
Lumens per Lamp: N/A
Luminaire Lumens: 384.3 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.677
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
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	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	78
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	77	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	67	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	458843
5°	445242
10°	382757
15°	286550
20°	196891
25°	114321
30°	57540
35°	27706
40°	14169
45°	8373
50°	6140
55°	4301
60°	3947
65°	3502
70°	2885
75°	1906
80°	2841
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	21.2
10°-20°	154.3	40.1
20°-30°	98.2	25.5
30°-40°	31.5	8.2
40°-50°	10.1	2.6
50°-60°	4.7	1.2
60°-70°	2.7	0.7
70°-80°	1.2	0.3
80°-90°	0.1	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°	334.0	86.9
0°-40°	365.5	95.1
0°-60°	380.3	98.9
0°-90°	384.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	384.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	930	
5°	899	82
15°	561	154
25°	210	98
35°	46	31
45°	12	10
55°	5	5
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	930
1°	926
2°	922
3°	918
4°	911
5°	899
6°	883
7°	861
8°	833
9°	799
10°	764
11°	724
12°	684
13°	641
14°	600
15°	561
16°	524
17°	487
18°	450
19°	412
20°	375
21°	339
22°	306
23°	271
24°	240
25°	210
26°	184
27°	160
28°	139
29°	119
30°	101
32.5°	68
35°	46
37.5°	31
40°	22
42.5°	16
45°	12
47.5°	10
50°	8
52.5°	6
55°	5
57.5°	4
60°	4
62.5°	3
65°	3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)