

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: G2-1802-569-15

Luminaire Tested: **203-FL-8LED4010-12-BK-OSL**

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-15
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/04/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4010-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-10D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

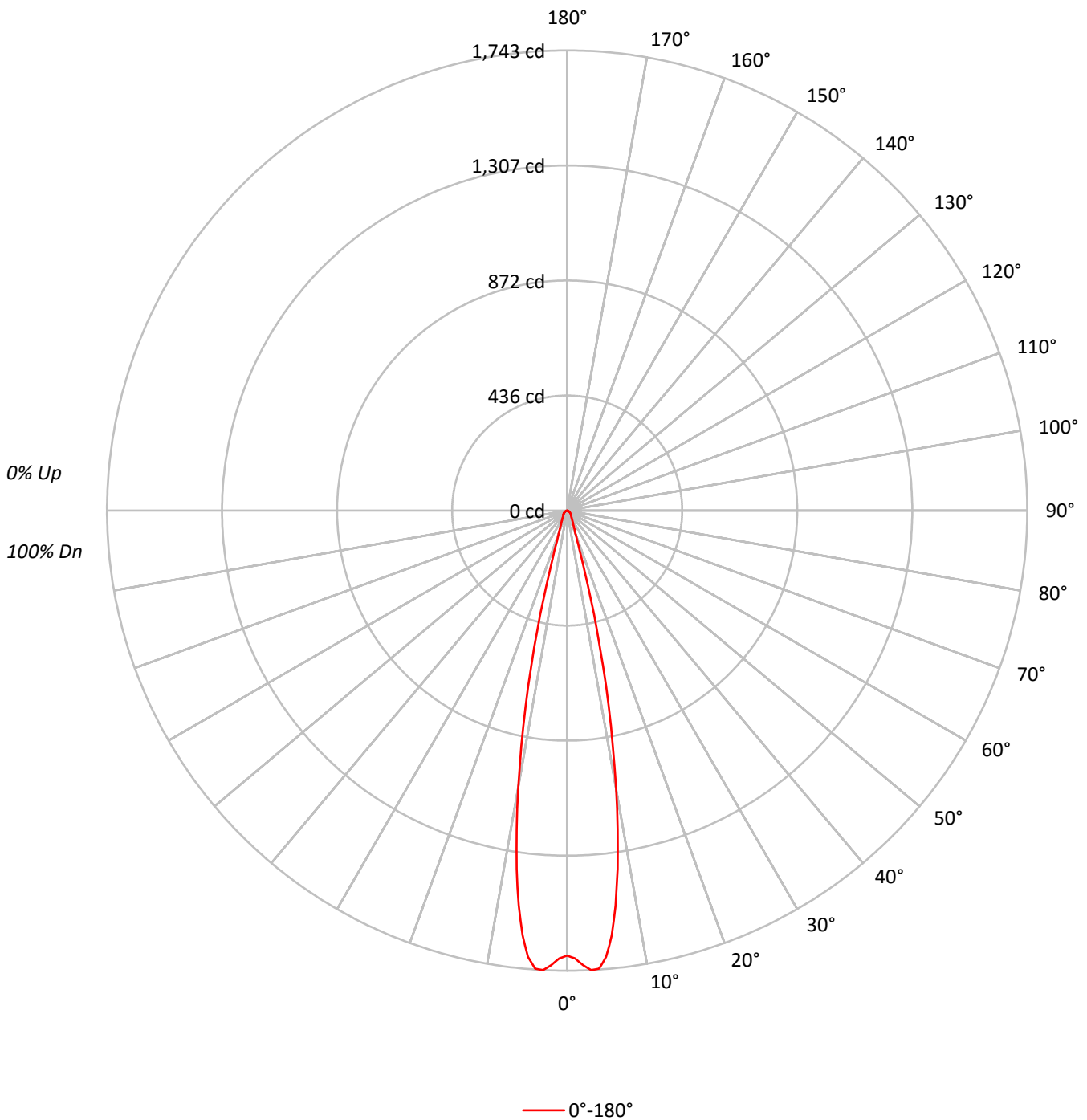
Lumens per Lamp: N/A
Luminaire Lumens: 328.6 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (A_{in}): 0.698
Voltage Rise (V): NR
Power Factor: 0.9899
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.1
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	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	84	82	79	78
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	91	83	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74
9	88	81	77	74	87	81	77	74	80	76	74	79	76	73	78	75	73	72
10	86	79	75	72	85	79	75	72	78	74	72	77	74	72	77	74	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	831838
5°	840463
10°	534056
15°	176221
20°	47779
25°	28308
30°	20509
35°	16262
40°	14813
45°	13257
50°	12281
55°	11182
60°	9868
65°	9339
70°	7213
75°	5719
80°	2841
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	42.7
10°-20°	107.4	32.7
20°-30°	25.1	7.6
30°-40°	17.5	5.3
40°-50°	14.9	4.5
50°-60°	11.6	3.5
60°-70°	7.8	2.4
70°-80°	3.2	1.0
80°-90°	0.7	0.2
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°	272.9	83.1
0°-40°	290.4	88.4
0°-60°	317.0	96.5
0°-90°	328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	328.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1686	
5°	1697	140
15°	345	107
25°	52	25
35°	27	18
45°	19	15
55°	13	12
65°	8	8
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1686
1°	1697
2°	1723
3°	1743
4°	1739
5°	1697
6°	1618
7°	1507
8°	1371
9°	1223
10°	1066
11°	908
12°	756
13°	603
14°	464
15°	345
16°	250
17°	181
18°	136
19°	108
20°	91
21°	79
22°	70
23°	63
24°	57
25°	52
26°	48
27°	45
28°	42
29°	39
30°	36
32.5°	31
35°	27
37.5°	25
40°	23
42.5°	21
45°	19
47.5°	18
50°	16
52.5°	14
55°	13
57.5°	12
60°	10
62.5°	9
65°	8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7
70°	5
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)