

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: G2-1802-569-14

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

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-14
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-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, FLUSH HOOD BLACK, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-10D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

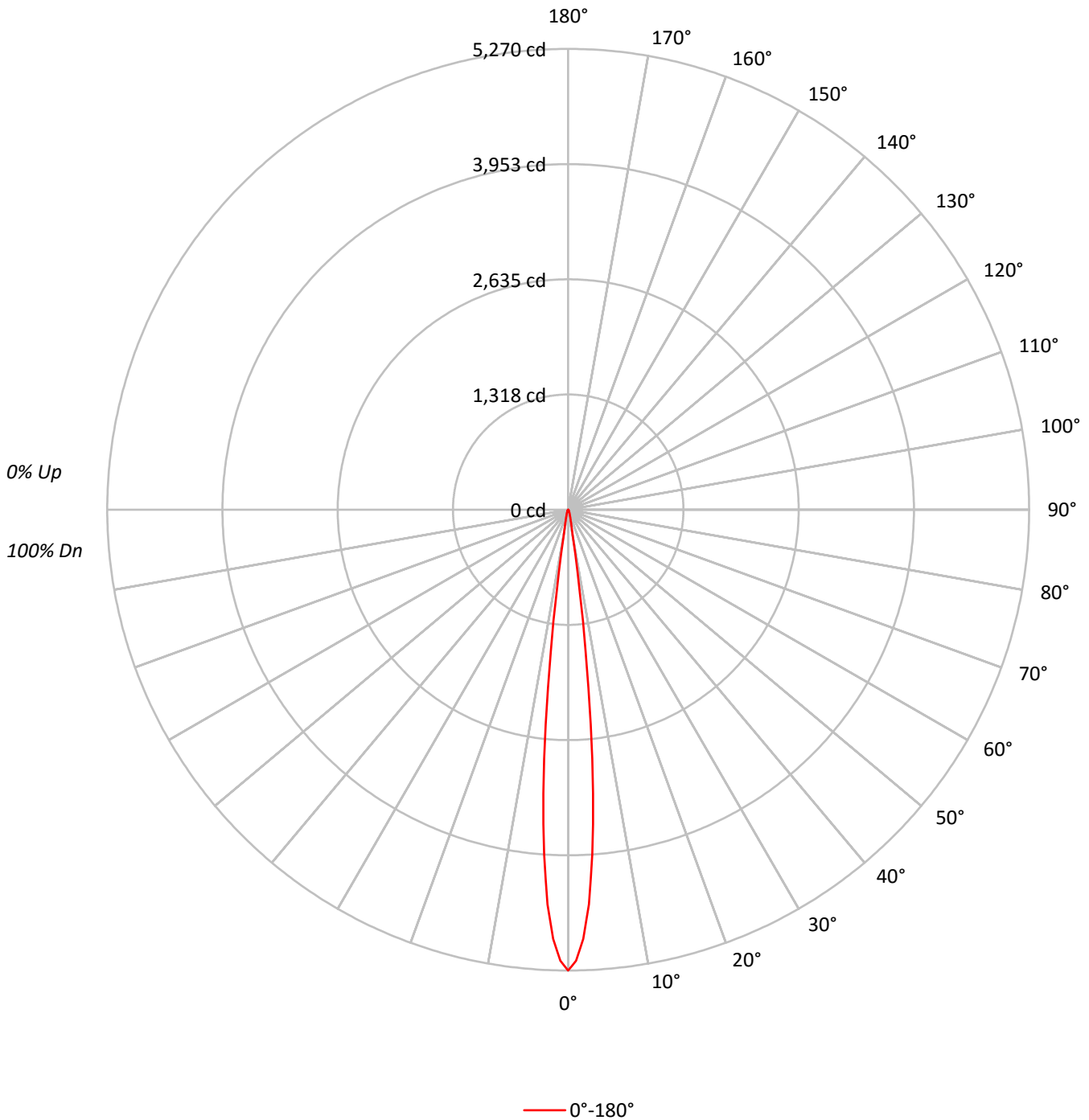
Lumens per Lamp: N/A
Luminaire Lumens: 242.9 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.18
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (A_{in}): 0.699
Voltage Rise (V): NR
Power Factor: 0.9899
Total Harmonic Distortion (THDi): 27.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	116	114	113	112	114	112	111	110	108	107	106	106	105	104	103	103	101	101	100	100	99	99	99	99
2	113	111	108	106	112	109	107	105	106	104	103	103	103	102	101	101	101	100	99	99	98	98	98	98
3	111	108	105	103	110	106	104	102	104	102	100	100	102	100	99	99	100	99	98	98	96	96	96	96
4	109	105	102	100	108	104	102	100	102	100	98	98	101	99	97	97	99	98	96	96	95	95	95	95
5	107	103	100	98	106	102	100	98	101	99	97	97	99	98	96	96	98	97	95	95	94	94	94	94
6	106	101	98	96	105	101	98	96	100	97	95	95	98	96	95	95	97	96	94	94	94	94	94	94
7	104	100	97	95	103	99	97	95	98	96	94	94	97	95	94	94	97	95	93	93	93	93	93	93
8	103	98	96	94	102	98	95	94	97	95	93	93	97	95	93	93	96	94	93	93	92	92	92	92
9	102	97	95	93	101	97	94	93	96	94	92	92	96	94	92	92	95	93	92	92	91	91	91	91
10	101	96	94	92	100	96	94	92	95	93	92	92	95	93	92	92	94	93	91	91	91	91	91	91

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2600110
5°	1614066
10°	151299
15°	43927
20°	24152
25°	12521
30°	7406
35°	5421
40°	3220
45°	2093
50°	768
55°	860
60°	987
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	80.0
10°-20°	28.0	11.5
20°-30°	11.4	4.7
30°-40°	5.6	2.3
40°-50°	2.3	0.9
50°-60°	0.9	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	233.9	96.3
0°-40°	239.4	98.5
0°-60°	242.6	99.9
0°-90°	242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5270	
5°	3259	194
15°	86	28
25°	23	11
35°	9	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5270
1°	5158
2°	4912
3°	4521
4°	3954
5°	3259
6°	2467
7°	1631
8°	942
9°	509
10°	302
11°	207
12°	158
13°	126
14°	103
15°	86
16°	73
17°	63
18°	56
19°	51
20°	46
22.5°	33
25°	23
26°	20
27°	18
28°	16
29°	15
30°	13
32.5°	11
35°	9
37.5°	7
40°	5
42.5°	4
45°	3
47.5°	2
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	1
65°	0
67.5°	0
70°	0
72.5°	0



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CANDELA DISTRIBUTION (continued):

	0°
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)