

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: G2-1802-569-18

Luminaire Tested: **203-FL-8LED4025-12-BK-LVR**

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-18
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-8LED4025-12-BK-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

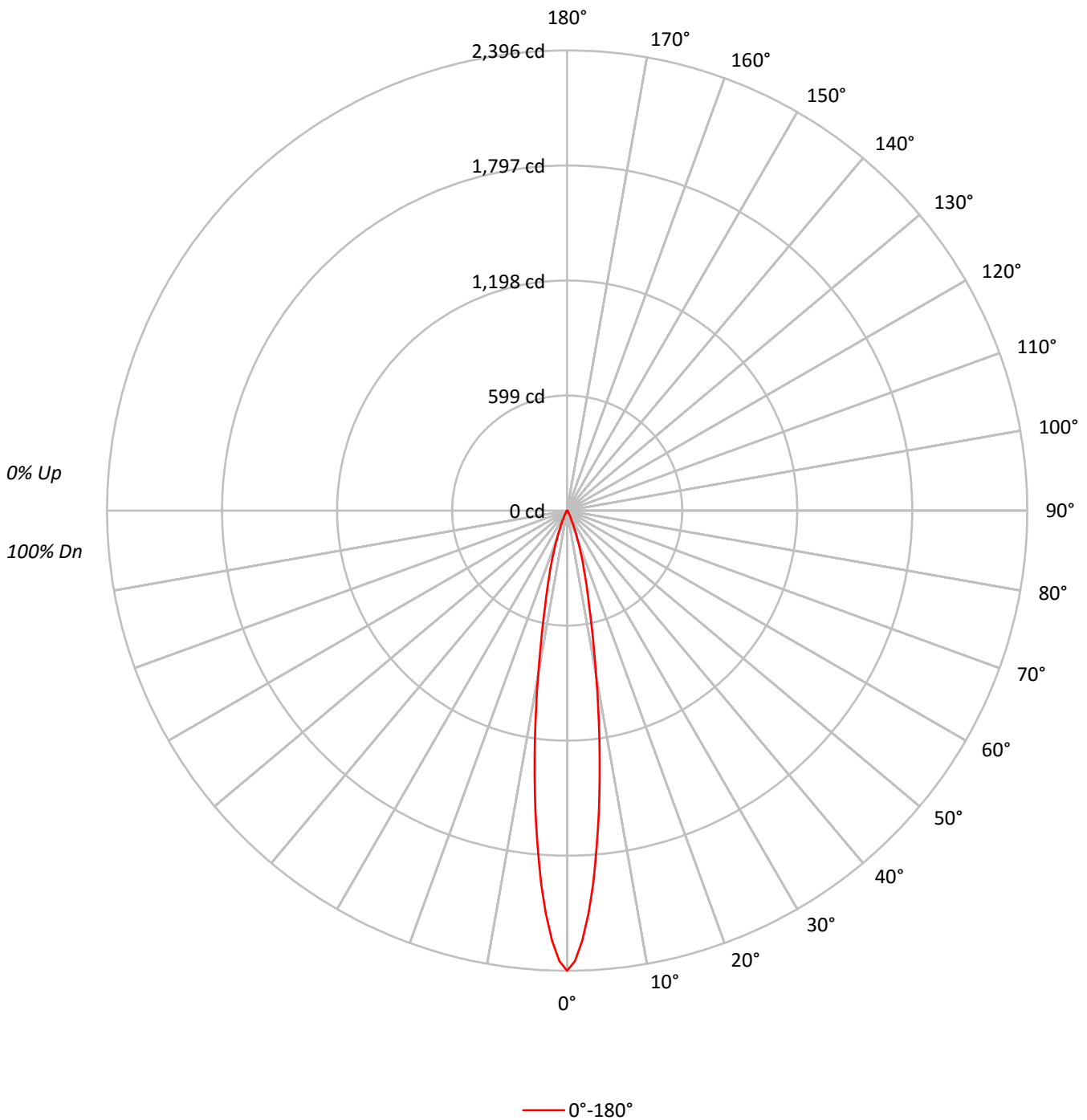
Lumens per Lamp: N/A
Luminaire Lumens: 285.9 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.685
Voltage Rise (V): NR
Power Factor: 0.9908
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 13 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	115	113	112	110	113	111	110	108	107	106	105	105	104	103	102	102	100	100	99	99	97	97	97	97
2	112	109	106	104	110	107	105	103	104	102	100	100	101	100	98	98	99	97	96	96	95	95	95	95
3	109	105	102	99	107	103	101	98	101	99	97	97	99	97	95	95	97	95	94	94	93	93	93	93
4	106	101	98	95	105	100	97	95	98	96	93	93	97	94	92	92	95	93	91	91	90	90	90	90
5	103	98	95	92	102	97	94	91	96	93	91	91	94	92	90	90	93	91	89	89	88	88	88	88
6	101	96	92	89	100	95	91	89	94	91	88	88	92	90	88	88	91	89	87	87	86	86	86	86
7	99	93	89	87	98	92	89	87	91	88	86	86	90	88	86	86	90	87	85	85	84	84	84	84
8	97	91	87	85	96	90	87	84	89	86	84	84	89	86	84	84	88	85	84	84	83	83	83	83
9	95	89	85	83	94	88	85	83	88	85	82	82	87	84	82	82	86	84	82	82	81	81	81	81
10	93	87	83	81	92	86	83	81	86	83	81	81	85	82	81	81	85	82	80	80	80	80	80	80

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1182137
5°	872655
10°	435862
15°	188479
20°	81907
25°	31030
30°	11394
35°	5421
40°	3220
45°	1395
50°	768
55°	860
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	48.5
10°-20°	108.2	37.8
20°-30°	30.1	10.5
30°-40°	6.3	2.2
40°-50°	1.9	0.7
50°-60°	0.8	0.3
60°-70°	0.0	0.0
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°	276.9	96.8
0°-40°	283.2	99.1
0°-60°	285.9	100.0
0°-90°	285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	285.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2396	
5°	1762	139
15°	369	108
25°	57	30
35°	9	6
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2396
1°	2345
2°	2242
3°	2105
4°	1944
5°	1762
6°	1576
7°	1389
8°	1204
9°	1032
10°	870
11°	726
12°	606
13°	509
14°	433
15°	369
17.5°	247
20°	156
22.5°	94
25°	57
27.5°	36
30°	20
32.5°	13
35°	9
37.5°	7
40°	5
42.5°	3
45°	2
47.5°	2
50°	1
52.5°	1
55°	1
57.5°	1
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)