

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: G2-1802-569-19

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

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-19
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-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

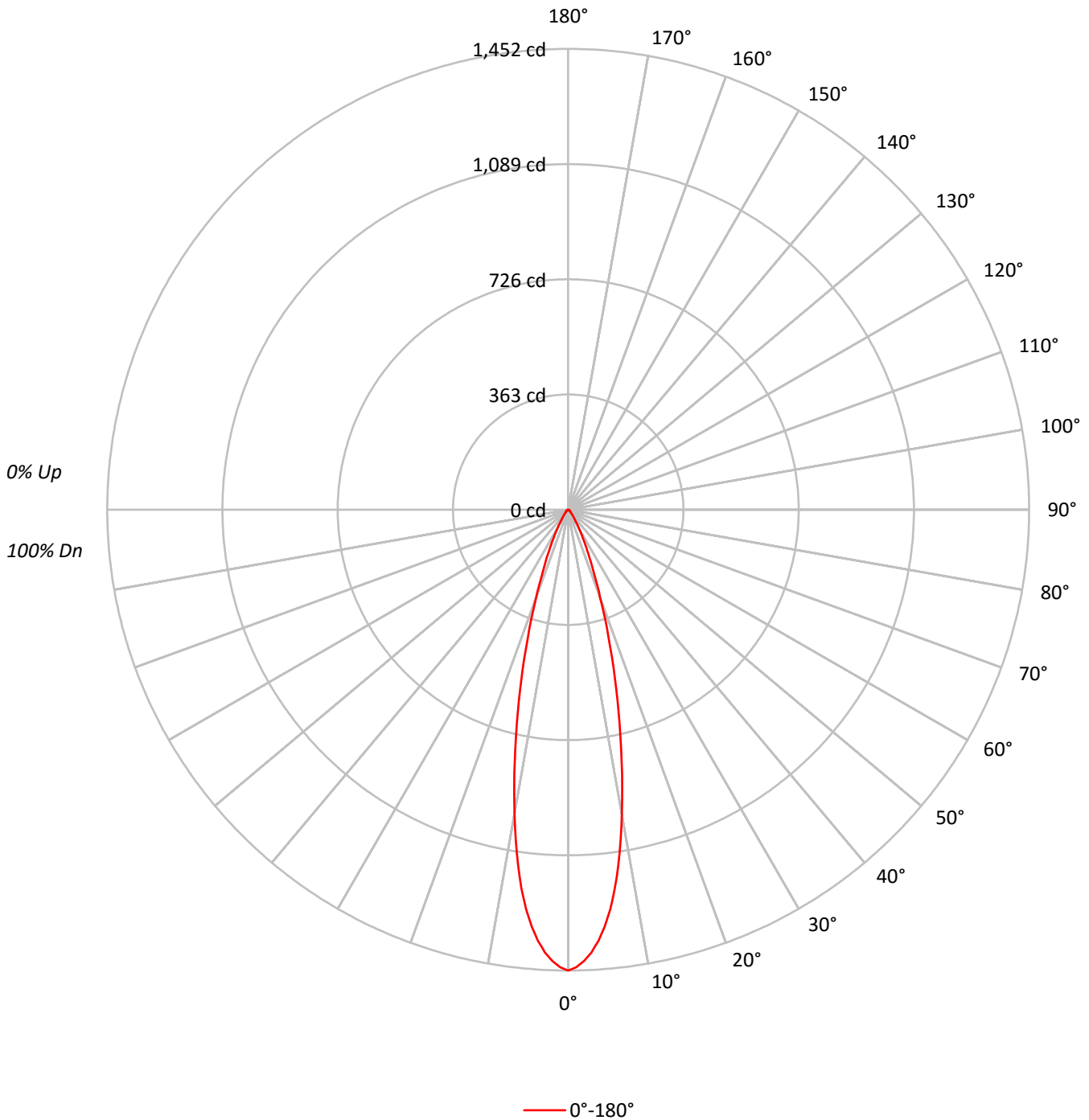
Lumens per Lamp: N/A
Luminaire Lumens: 383.4 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.45
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.685
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 27.1%
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	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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88
4	103	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	82	79	76	75
8	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73
9	87	80	75	72	86	79	75	72	78	75	72	78	74	72	77	74	71	70
10	85	77	73	70	84	77	73	70	76	72	70	75	72	69	75	72	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	716387
5°	653253
10°	487965
15°	298298
20°	154363
25°	76758
30°	38170
35°	19274
40°	10949
45°	7675
50°	5373
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°	114.7	29.9
10°-20°	160.3	41.8
20°-30°	68.9	18.0
30°-40°	21.9	5.7
40°-50°	8.6	2.2
50°-60°	4.8	1.3
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°	344.0	89.7
0°-40°	365.9	95.4
0°-60°	379.3	98.9
0°-90°	383.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	383.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1319	115
15°	584	160
25°	141	69
35°	32	22
45°	11	9
55°	5	5
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1452
1°	1442
2°	1423
3°	1397
4°	1362
5°	1319
6°	1266
7°	1204
8°	1132
9°	1056
10°	974
11°	891
12°	810
13°	729
14°	655
15°	584
17.5°	422
20°	294
22.5°	202
25°	141
27.5°	98
30°	67
32.5°	46
35°	32
37.5°	23
40°	17
42.5°	13
45°	11
47.5°	9
50°	7
52.5°	6
55°	5
57.5°	5
60°	4
62.5°	3
65°	3
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)