

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: G2-1802-569-1

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

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-1
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
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, FLUSH HOOD BLACK
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: 351.3 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

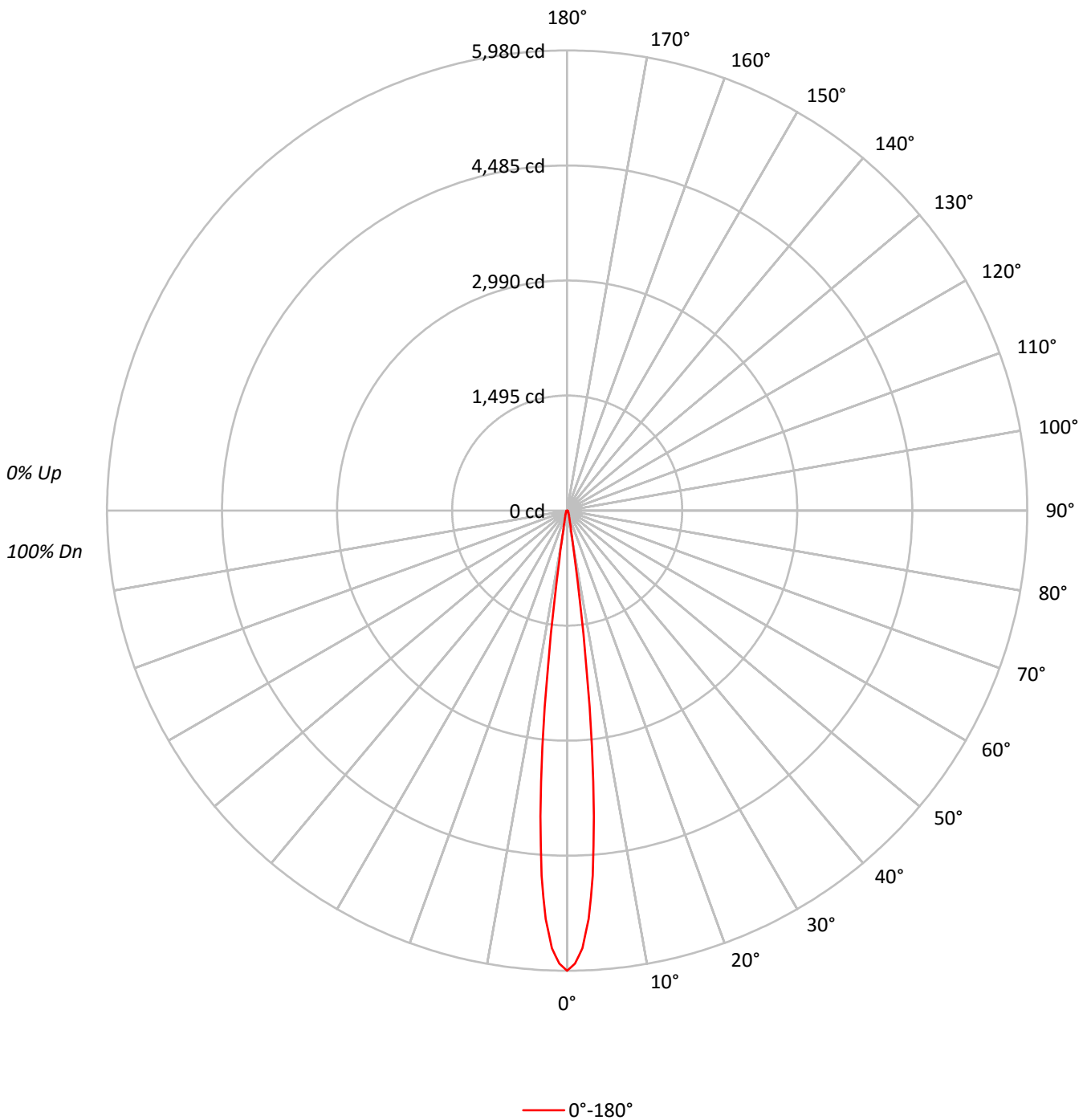
Input Watts (W): 8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.709
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 27.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 13 HR
Ambient Temperature (°C): 25.1
Test Distance: 25 FT



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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							
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	111	109	113	111	109	107	107	105	104	104	103	102	101	101	100	99	98	98	96	96	96	96
2	111	107	104	102	109	106	103	101	103	100	99	99	100	98	96	96	97	96	94	94	93	93	93	93
3	108	103	99	97	106	102	98	96	99	97	94	94	97	95	93	93	95	93	91	91	90	90	90	90
4	105	99	95	93	103	98	95	92	96	93	91	91	95	92	90	90	93	91	89	89	88	88	88	88
5	102	96	92	89	101	96	92	89	94	91	88	88	92	90	88	88	91	89	87	87	86	86	86	86
6	100	94	90	87	98	93	89	87	92	89	86	86	91	88	86	86	89	87	85	85	84	84	84	84
7	98	92	88	85	97	91	87	85	90	87	84	84	89	86	84	84	88	86	84	84	83	83	83	83
8	96	90	86	83	95	89	86	83	88	85	83	83	88	85	83	83	87	84	82	82	82	82	82	82
9	94	88	85	82	93	88	84	82	87	84	82	82	86	84	82	82	86	83	81	81	80	80	80	80
10	93	87	83	81	92	86	83	81	86	83	81	81	85	82	80	80	85	82	80	80	80	80	80	80

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	2950410
5°	1974618
10°	197891
15°	61294
20°	37803
25°	22864
30°	17091
35°	15660
40°	14813
45°	13257
50°	13049
55°	12043
60°	9868
65°	9339
70°	8655
75°	5719
80°	2841
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	67.4
10°-20°	39.1	11.1
20°-30°	20.6	5.9
30°-40°	16.2	4.6
40°-50°	15.0	4.3
50°-60°	12.2	3.5
60°-70°	7.9	2.3
70°-80°	3.3	0.9
80°-90°	0.4	0.1
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°	296.3	84.3
0°-40°	312.5	89.0
0°-60°	339.7	96.7
0°-90°	351.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	351.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5980	
5°	3987	237
15°	120	39
25°	42	21
35°	26	16
45°	19	15
55°	14	12
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5980
1°	5888
2°	5688
3°	5317
4°	4757
5°	3987
6°	3089
7°	2046
8°	1186
9°	657
10°	395
11°	276
12°	210
13°	169
14°	141
15°	120
17.5°	88
20°	72
22.5°	56
25°	42
27.5°	34
30°	30
32.5°	27
35°	26
37.5°	24
40°	23
42.5°	21
45°	19
47.5°	18
50°	17
52.5°	16
55°	14
57.5°	11
60°	10
62.5°	9
65°	8
67.5°	7
70°	6
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)