

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: G2-1802-569-2

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

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-2
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
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK
Light Source: (1) SORAA 4000K 90 CRI 25° NFL LED SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 417.2 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

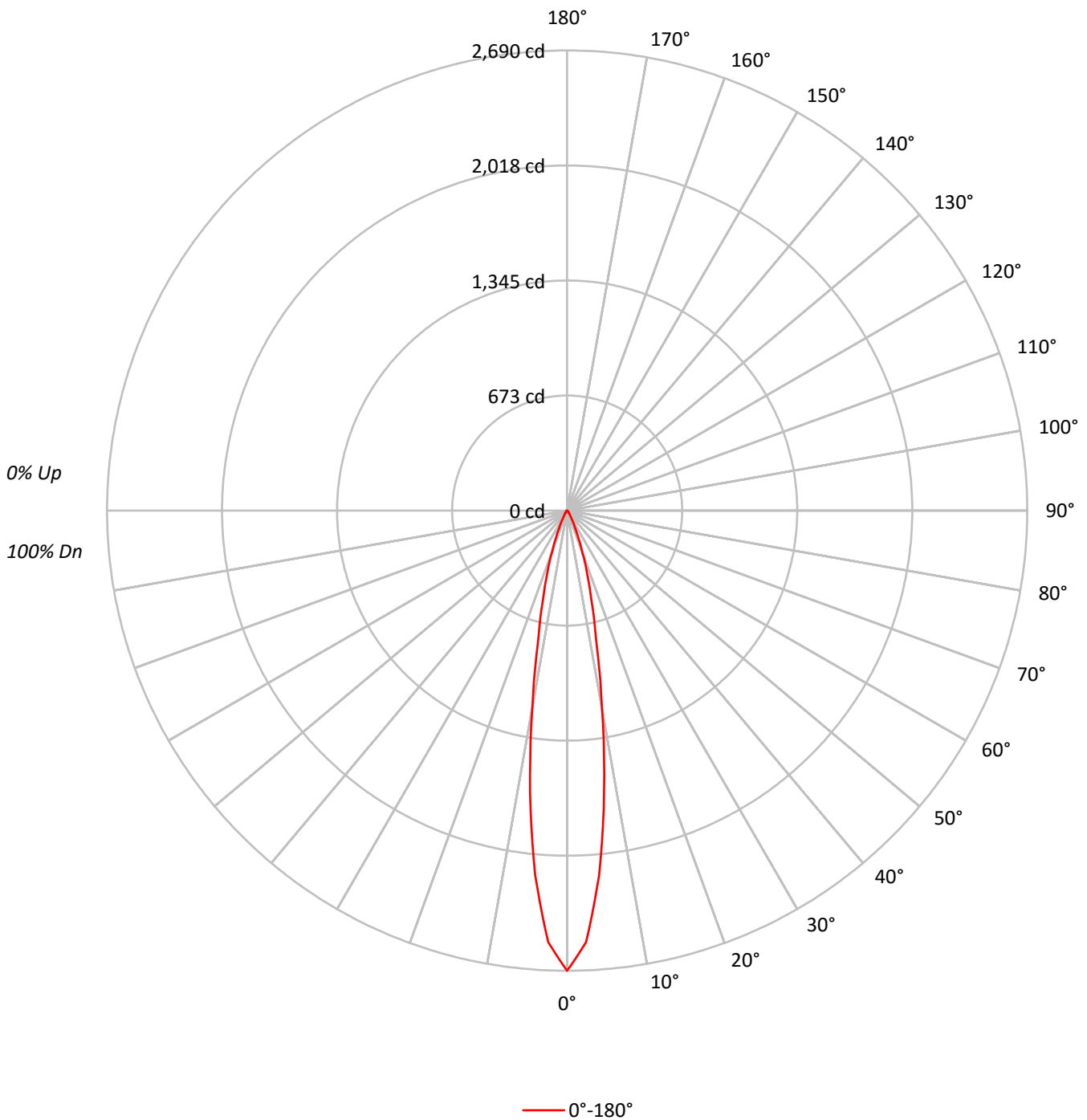
Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.686
Voltage Rise (V): NR
Power Factor: 0.9485
Total Harmonic Distortion (THDi): 27.2%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	96	91	88	100	95	91	88	93	90	87	92	89	87	90	88	86	85
6	99	92	88	85	97	92	88	85	90	87	85	89	86	84	88	85	84	82
7	96	90	86	83	95	89	85	82	88	85	82	87	84	82	86	83	81	80
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1327191
5°	1059370
10°	586159
15°	282974
20°	138086
25°	57705
30°	23358
35°	12648
40°	7729
45°	5582
50°	4605
55°	4301
60°	3947
65°	3502
70°	2885
75°	1906
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	41.5
10°-20°	161.3	38.7
20°-30°	54.0	12.9
30°-40°	14.1	3.4
40°-50°	6.3	1.5
50°-60°	4.2	1.0
60°-70°	3.0	0.7
70°-80°	1.3	0.3
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°	388.3	93.1
0°-40°	402.3	96.4
0°-60°	412.9	99.0
0°-90°	417.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2690	
5°	2139	173
15°	554	161
25°	106	54
35°	21	14
45°	8	6
55°	5	4
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2690
2.5°	2525
5°	2139
7.5°	1657
10°	1170
12.5°	786
15°	554
17.5°	394
20°	263
22.5°	168
25°	106
27.5°	66
30°	41
32.5°	27
35°	21
37.5°	17
40°	12
42.5°	9
45°	8
47.5°	7
50°	6
52.5°	5
55°	5
57.5°	4
60°	4
62.5°	3
65°	3
67.5°	3
70°	2
72.5°	2
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)