

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: G2-1802-569-3

Luminaire Tested: **203-FL-8LED4036-12-BK**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-3
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4036-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 409.2 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.677
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 27.3
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT





TEST NUMBER: G2-1802-569-3

CATALOG NUMBER: 203-FL-8LED4036-12-BK

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	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	79	85	82	79	84	81	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	564426
5°	543305
10°	480450
15°	365721
20°	215793
25°	93634
30°	33043
35°	16262
40°	9017
45°	5582
50°	4605
55°	3441
60°	3947
65°	3502
70°	2885
75°	1906
80°	0
85°	0



TEST NUMBER: G2-1802-569-3

CATALOG NUMBER: 203-FL-8LED4036-12-BK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	24.6
10°-20°	191.1	46.7
20°-30°	84.4	20.6
30°-40°	18.2	4.4
40°-50°	6.7	1.6
50°-60°	4.0	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°	376.0	91.9
0°-40°	394.2	96.3
0°-60°	404.9	99.0
0°-90°	409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1144	
5°	1097	101
15°	716	191
25°	172	84
35°	27	18
45°	8	7
55°	4	4
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: G2-1802-569-3

CATALOG NUMBER: 203-FL-8LED4036-12-BK

CANDELA DISTRIBUTION (FULL):

0°	
0°	1144
1°	1138
2°	1129
3°	1120
4°	1110
5°	1097
6°	1081
7°	1060
8°	1031
9°	997
10°	959
11°	914
12°	867
13°	818
14°	767
15°	716
16°	660
17°	600
18°	537
19°	473
20°	411
21°	352
22°	298
23°	249
24°	207
25°	172
26°	141
27°	114
28°	91
29°	72
30°	58
32.5°	37
35°	27
37.5°	19
40°	14
42.5°	10
45°	8
47.5°	7
50°	6
52.5°	5
55°	4
57.5°	4
60°	4
62.5°	3
65°	3



TEST NUMBER: G2-1802-569-3

CATALOG NUMBER: 203-FL-8LED4036-12-BK

CANDELA DISTRIBUTION (continued):

	0°
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)