

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: G2-1802-569-12

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

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-12
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-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, FLUSH HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-10D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

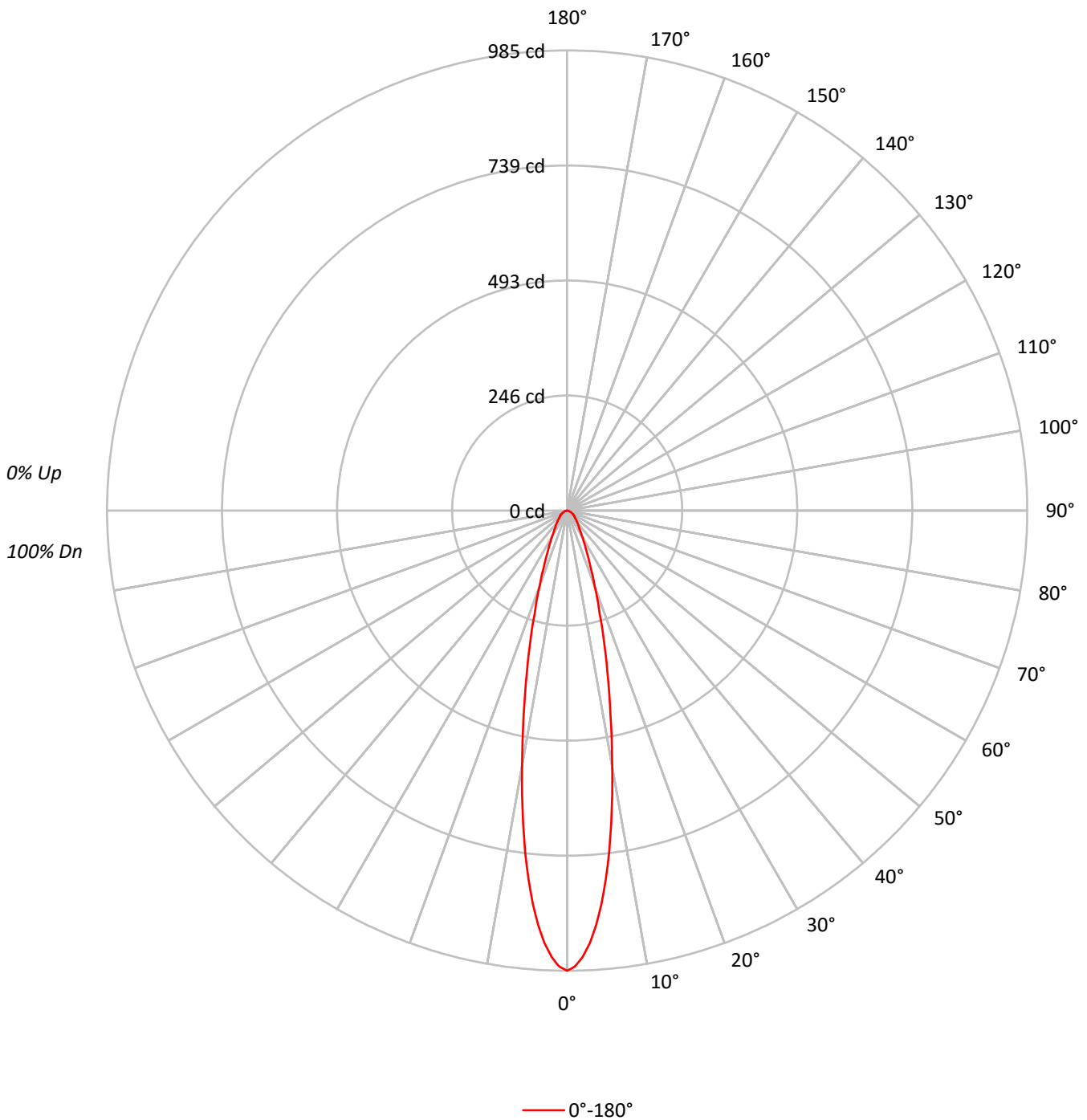
Lumens per Lamp: N/A
Luminaire Lumens: 286.9 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.41
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.705
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 27.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.1
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-12
CATALOG NUMBER: 203-FL-8LED4010-12-BK-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-12

CATALOG NUMBER: 203-FL-8LED4010-12-BK-DIFF

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	71	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	60
10	77	68	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	485979
5°	418498
10°	278551
15°	161919
20°	90833
25°	54983
30°	36461
35°	27104
40°	21898
45°	18141
50°	16119
55°	14623
60°	12828
65°	11674
70°	8655
75°	7625
80°	5683
85°	0



TEST NUMBER: G2-1802-569-12

CATALOG NUMBER: 203-FL-8LED4010-12-BK-DIFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	24.8
10°-20°	88.8	30.9
20°-30°	48.3	16.8
30°-40°	28.9	10.1
40°-50°	20.5	7.1
50°-60°	15.2	5.3
60°-70°	9.5	3.3
70°-80°	4.2	1.5
80°-90°	0.5	0.2
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°	208.1	72.5
0°-40°	236.9	82.6
0°-60°	272.6	95.0
0°-90°	286.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	286.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	985	
5°	845	71
15°	317	89
25°	101	48
35°	45	29
45°	26	20
55°	17	15
65°	10	10
75°	4	4
85°	0	1
90°	0	

TEST NUMBER: G2-1802-569-12

CATALOG NUMBER: 203-FL-8LED4010-12-BK-DIFF

CANDELA DISTRIBUTION (FULL):

0°	
0°	985
1°	976
2°	956
3°	927
4°	890
5°	845
6°	793
7°	737
8°	676
9°	616
10°	556
11°	499
12°	447
13°	400
14°	356
15°	317
17.5°	232
20°	173
22.5°	130
25°	101
27.5°	80
30°	64
32.5°	53
35°	45
37.5°	39
40°	34
42.5°	30
45°	26
47.5°	23
50°	21
52.5°	19
55°	17
57.5°	15
60°	13
62.5°	11
65°	10
67.5°	8
70°	6
72.5°	5
75°	4
77.5°	3
80°	2
82.5°	1
85°	0
87.5°	0



TEST NUMBER: G2-1802-569-12
CATALOG NUMBER: 203-FL-8LED4010-12-BK-DIFF

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)