

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: G2-1802-569-20

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-20
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-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

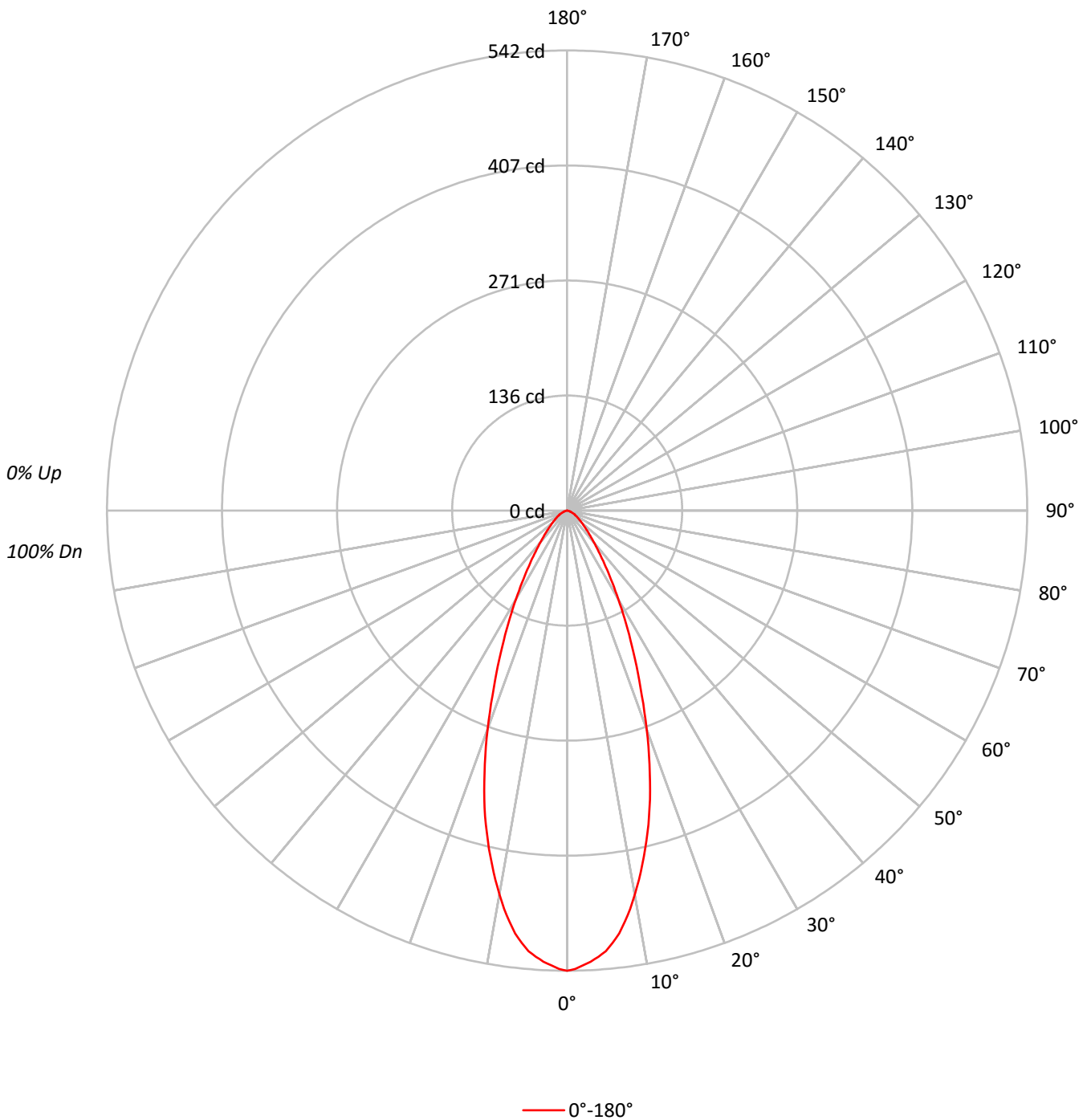
Lumens per Lamp: N/A
Luminaire Lumens: 336.3 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.678
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: G2-1802-569-20
CATALOG NUMBER: 203-FL-8LED4036-12-BK-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-20

CATALOG NUMBER: 203-FL-8LED4036-12-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	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	267412
5°	258033
10°	229955
15°	190522
20°	143862
25°	100711
30°	68365
35°	45775
40°	31559
45°	23026
50°	17654
55°	13763
60°	10854
65°	9339
70°	7213
75°	5719
80°	2841
85°	0



TEST NUMBER: G2-1802-569-20
 CATALOG NUMBER: 203-FL-8LED4036-12-BK-DIFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	14.2
10°-20°	102.2	30.4
20°-30°	85.4	25.4
30°-40°	49.0	14.6
40°-50°	26.1	7.7
50°-60°	14.7	4.4
60°-70°	7.9	2.3
70°-80°	3.2	0.9
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°	235.3	70.0
0°-40°	284.3	84.5
0°-60°	325.1	96.7
0°-90°	336.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	336.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	521	48
15°	373	102
25°	185	85
35°	76	49
45°	33	26
55°	16	15
65°	8	8
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: G2-1802-569-20

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	542
1°	540
2°	536
3°	532
4°	527
5°	521
6°	512
7°	502
8°	489
9°	475
10°	459
11°	443
12°	426
13°	409
14°	391
15°	373
16°	354
17°	334
18°	314
19°	294
20°	274
21°	254
22°	235
23°	217
24°	201
25°	185
26°	170
27°	157
28°	144
29°	132
30°	120
32.5°	96
35°	76
37.5°	61
40°	49
42.5°	40
45°	33
47.5°	27
50°	23
52.5°	19
55°	16
57.5°	14
60°	11
62.5°	10
65°	8



TEST NUMBER: G2-1802-569-20

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

CANDELA DISTRIBUTION (continued):

	0°
67.5°	6
70°	5
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)