

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: P277807

Luminaire Tested: **203-SS-8LED4036-12-CS-DIFF**

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: P277807  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-44)  
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-SS-8LED4036-12-CS-DIFF  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,  
REGRESSED HOOD SILVER, DIFFUSED LENS  
Light Source: (1) SORAA 4000K 90 CRI LED  
SM16-07-36D-940-03  
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

**Summary**

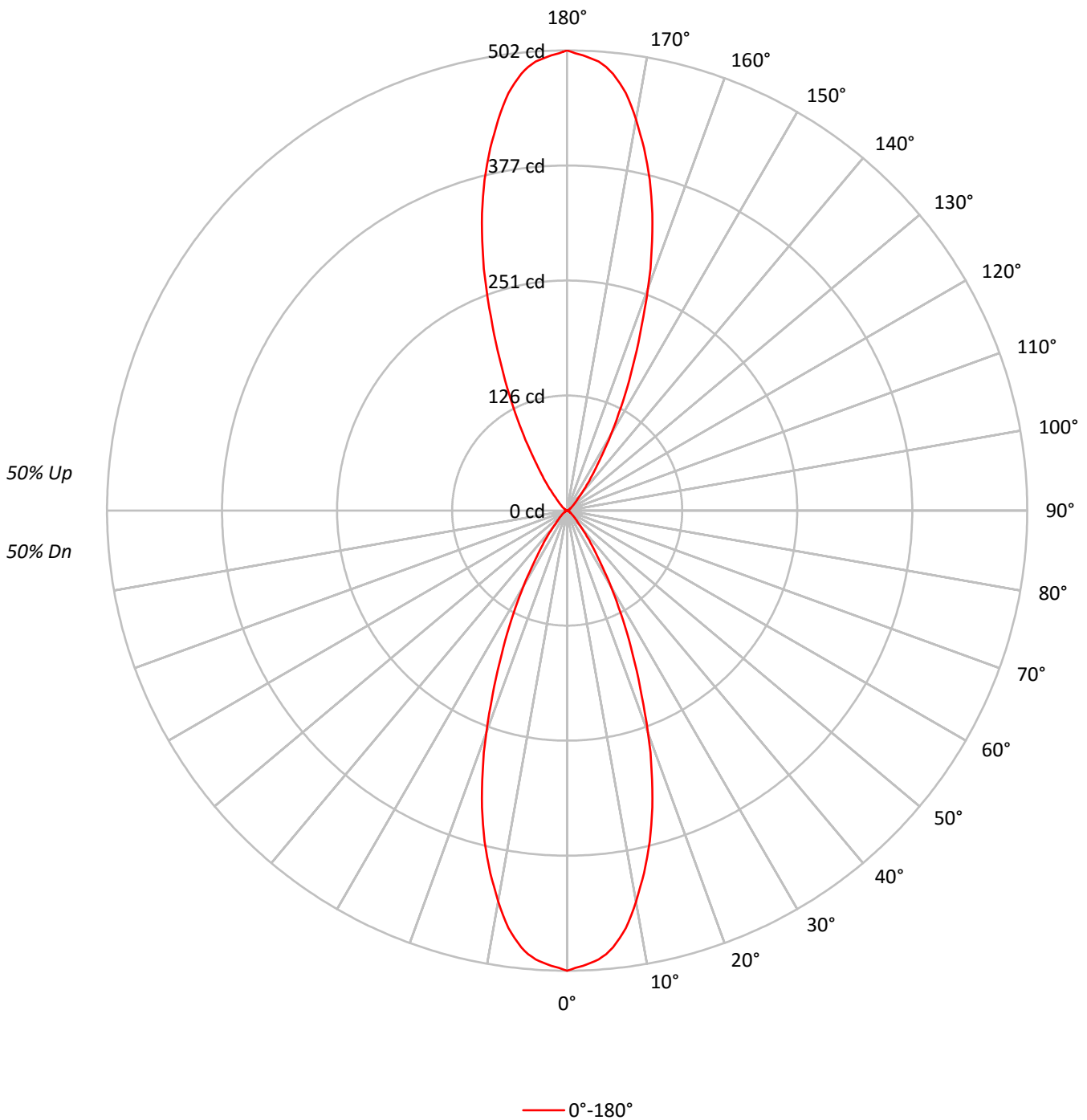
Lumens per Lamp: N/A  
Luminaire Lumens: 537.3 lumens  
Efficiency: N/A  
Efficacy: 35.1 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 15.3  
Input Voltage (V): 12.0  
Input Current (Ain): 0.674  
Voltage Rise (V): NR  
Power Factor: 0.9902  
Total Harmonic Distortion (THDi): 27.5%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.2  
Test Distance: 25 FT



TEST NUMBER: P277807  
CATALOG NUMBER: 203-SS-8LED4036-12-CS-DIFF

### Luminous Intensity Polar Plot





TEST NUMBER: P277807

CATALOG NUMBER: 203-SS-8LED4036-12-CS-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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	94	91	93	90	87	85	77	75	73		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	81	75	70	81	75	71	67	66	62	59		57	54	52		48	47	45	42
4	82	74	68	63	77	69	64	60	61	57	54		53	50	48		46	44	43	39
5	77	68	62	57	72	64	59	55	57	53	50		50	47	45		43	42	40	37
6	73	63	57	52	68	60	54	50	53	49	46		47	44	42		41	39	38	35
7	69	59	53	48	64	56	50	46	50	46	43		45	41	39		39	37	36	33
8	65	55	49	44	61	52	47	43	47	43	40		42	39	37		38	35	34	32
9	62	52	46	41	58	49	44	40	45	40	37		40	37	35		36	34	32	30
10	58	49	43	39	55	46	41	38	42	38	35		38	35	33		34	32	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	247677
5°	240698
10°	216929
15°	181328
20°	135461
25°	89823
30°	54122
35°	29513
40°	15457
45°	9071
50°	6140
55°	4301
60°	2960
65°	2335
70°	2885
75°	1906
80°	2841
85°	0



TEST NUMBER: P277807

CATALOG NUMBER: 203-SS-8LED4036-12-CS-DIFF

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	8.3
10°-20°	97.0	18.0
20°-30°	75.7	14.1
30°-40°	32.4	6.0
40°-50°	10.7	2.0
50°-60°	4.6	0.8
60°-70°	2.3	0.4
70°-80°	1.2	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.2	0.2
110°-120°	2.3	0.4
120°-130°	4.6	0.8
130°-140°	10.7	2.0
140°-150°	32.4	6.0
150°-160°	75.7	14.1
160°-170°	97.0	18.0
170°-180°	44.7	8.3
0°-30°	217.4	40.5
0°-40°	249.7	46.5
0°-60°	265.0	49.3
0°-90°	268.6	50.0
90°-120°	3.7	0.7
90°-150°	51.3	9.5
90°-180°	269.0	50.1
0°-180°	537.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	502	
5°	486	45
15°	355	97
25°	165	76
35°	49	32
45°	13	11
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	5
135°	13	11
145°	49	32
155°	165	76
165°	355	97
175°	486	45
180°	502	

TEST NUMBER: P277807

CATALOG NUMBER: 203-SS-8LED4036-12-CS-DIFF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	502
1°	499
2°	497
3°	494
4°	491
5°	486
6°	479
7°	470
8°	460
9°	447
10°	433
11°	418
12°	404
13°	388
14°	372
15°	355
16°	337
17°	318
18°	298
19°	279
20°	258
21°	237
22°	217
23°	199
24°	181
25°	165
26°	149
27°	134
28°	120
29°	107
30°	95
32.5°	68
35°	49
37.5°	35
40°	24
42.5°	17
45°	13
47.5°	10
50°	8
52.5°	6
55°	5
57.5°	4
60°	3
62.5°	3
65°	2



TEST NUMBER: P277807

CATALOG NUMBER: 203-SS-8LED4036-12-CS-DIFF

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	1
102.5°	1
105°	1
107.5°	1
110°	2
112.5°	2
115°	2
117.5°	3
120°	3
122.5°	4
125°	5
127.5°	6
130°	8
132.5°	10
135°	13
137.5°	17
140°	24
142.5°	35
145°	49
147.5°	68
150°	95
151°	107
152°	120
153°	134
154°	149
155°	165
156°	181
157°	199
158°	217
159°	237
160°	258
161°	279



TEST NUMBER: P277807

CATALOG NUMBER: 203-SS-8LED4036-12-CS-DIFF

**CANDELA DISTRIBUTION (continued):**

	0°
162°	298
163°	318
164°	337
165°	355
166°	372
167°	388
168°	404
169°	418
170°	433
171°	447
172°	460
173°	470
174°	479
175°	486
176°	491
177°	494
178°	497
179°	499
180°	502

(END OF REPORT)