

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: P277797

Luminaire Tested: **203-SS-8LED4025-12-CS-DIFF**

Test Date: 04/05/18

**Test Information**

Test Method: LM-79-08  
Report Number: P277797  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-40)  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 04/05/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 203-SS-8LED4025-12-CS-DIFF  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, DIFFUSED LENS  
Light Source: (1) SORAA 4000K 90 CRI LED  
SM16-07-25D-940-03  
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

**Summary**

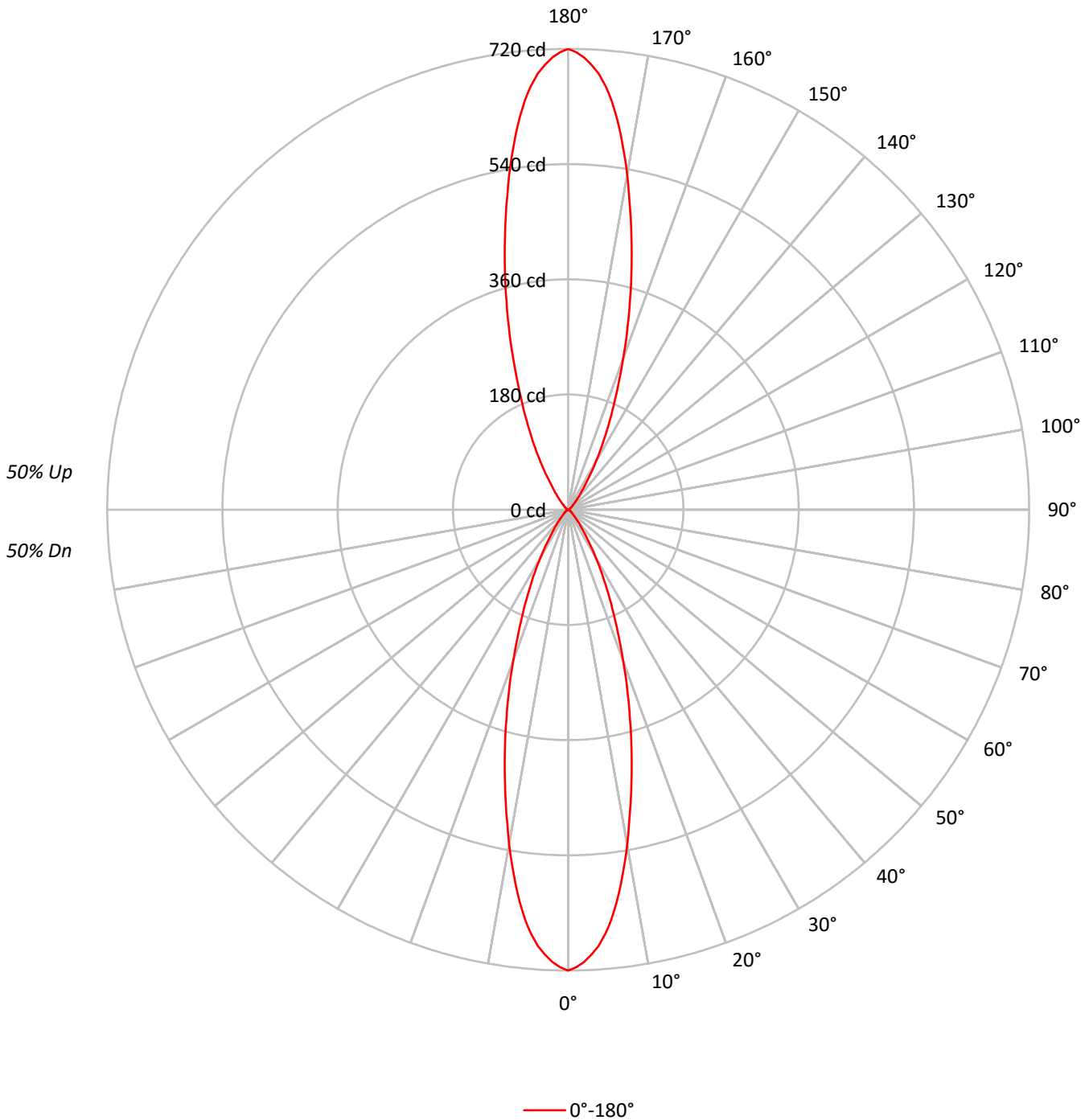
Lumens per Lamp: N/A  
Luminaire Lumens: 562.7 lumens  
Efficiency: N/A  
Efficacy: 36.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 15.6  
Input Voltage (V): 12.0  
Input Current (A<sub>in</sub>): 0.684  
Voltage Rise (V): NR  
Power Factor: 0.9908  
Total Harmonic Distortion (THDi): 27.1%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.0  
Test Distance: 25 FT



TEST NUMBER: P277797  
CATALOG NUMBER: 203-SS-8LED4025-12-CS-DIFF

### Luminous Intensity Polar Plot





TEST NUMBER: P277797

CATALOG NUMBER: 203-SS-8LED4025-12-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	92	93	90	88	85	77	75	74		65	64	63		54	53	52	47
2	94	88	84	80	87	82	79	75	71	68	66		61	59	57		51	50	49	45
3	88	81	75	71	82	76	71	67	66	63	60		57	55	53		49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		46	45	43	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		44	42	41	38
6	74	64	58	53	69	61	55	51	54	50	47		48	45	43		42	40	39	36
7	70	60	54	49	65	57	51	48	51	47	44		46	43	40		41	38	37	35
8	66	56	50	46	62	53	48	44	48	44	41		43	40	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	40	37		40	37	34		36	34	32	30

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

	0°
0°	355233
5°	329351
10°	266026
15°	195120
20°	131786
25°	83835
30°	48995
35°	25899
40°	14169
45°	7675
50°	5373
55°	4301
60°	2960
65°	2335
70°	1443
75°	1906
80°	2841
85°	0



TEST NUMBER: P277797

CATALOG NUMBER: 203-SS-8LED4025-12-CS-DIFF

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	10.5
10°-20°	104.7	18.6
20°-30°	71.2	12.6
30°-40°	28.9	5.1
40°-50°	9.6	1.7
50°-60°	4.5	0.8
60°-70°	2.2	0.4
70°-80°	1.1	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.1	0.2
110°-120°	2.2	0.4
120°-130°	4.5	0.8
130°-140°	9.6	1.7
140°-150°	28.9	5.1
150°-160°	71.2	12.6
160°-170°	104.7	18.6
170°-180°	59.1	10.5
0°-30°	235.0	41.8
0°-40°	263.9	46.9
0°-60°	278.0	49.4
0°-90°	281.4	50.0
90°-120°	3.4	0.6
90°-150°	46.4	8.2
90°-180°	281.0	49.9
0°-180°	562.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	720	
5°	665	59
15°	382	105
25°	154	71
35°	43	29
45°	11	10
55°	5	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	4
135°	11	10
145°	43	29
155°	154	71
165°	382	105
175°	665	59
180°	720	



TEST NUMBER: P277797

CATALOG NUMBER: 203-SS-8LED4025-12-CS-DIFF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	720
1°	715
2°	707
3°	696
4°	683
5°	665
6°	644
7°	619
8°	591
9°	561
10°	531
11°	499
12°	469
13°	439
14°	410
15°	382
16°	353
17°	326
18°	300
19°	276
20°	251
21°	228
22°	208
23°	188
24°	170
25°	154
26°	138
27°	124
28°	111
29°	98
30°	86
32.5°	61
35°	43
37.5°	31
40°	22
42.5°	16
45°	11
47.5°	9
50°	7
52.5°	6
55°	5
57.5°	4
60°	3
62.5°	3
65°	2



TEST NUMBER: P277797

CATALOG NUMBER: 203-SS-8LED4025-12-CS-DIFF

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2
70°	1
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°	1
112.5°	2
115°	2
117.5°	3
120°	3
122.5°	4
125°	5
127.5°	6
130°	7
132.5°	9
135°	11
137.5°	16
140°	22
142.5°	31
145°	43
147.5°	61
150°	86
151°	98
152°	111
153°	124
154°	138
155°	154
156°	170
157°	188
158°	208
159°	228
160°	251
161°	276



TEST NUMBER: P277797

CATALOG NUMBER: 203-SS-8LED4025-12-CS-DIFF

**CANDELA DISTRIBUTION (continued):**

	0°
162°	300
163°	326
164°	353
165°	382
166°	410
167°	439
168°	469
169°	499
170°	531
171°	561
172°	591
173°	619
174°	644
175°	665
176°	683
177°	696
178°	707
179°	715
180°	720

(END OF REPORT)