

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: P277808

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

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: P277808  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)  
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-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,  
REGRESSED HOOD SILVER, LINEAR SPREAD 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: 634.8 lumens  
Efficiency: N/A  
Efficacy: 41.8 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

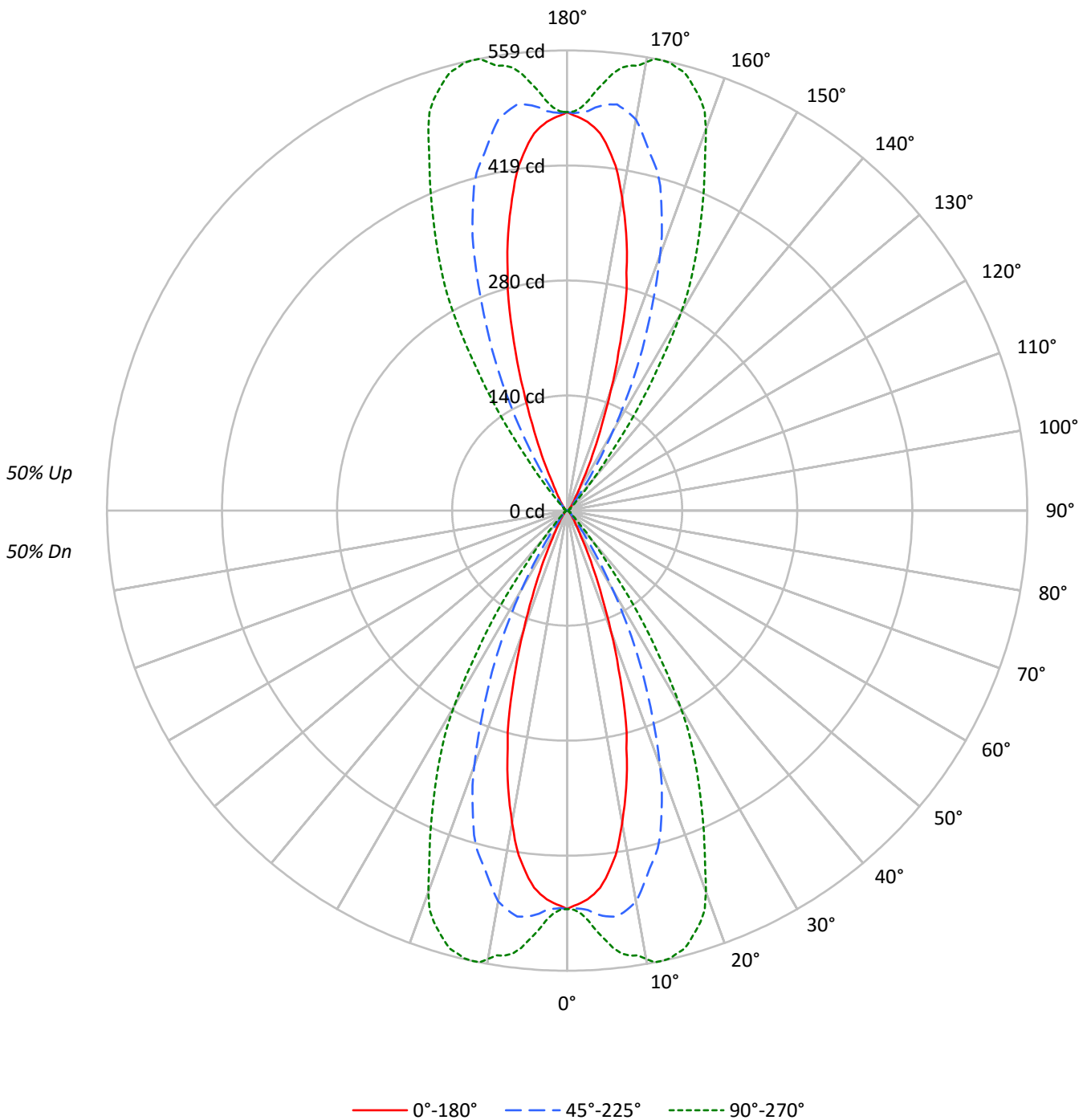
Input Watts (W): 15.2  
Input Voltage (V): 12.0  
Input Current (Ain): 0.669  
Voltage Rise (V): NR  
Power Factor: 0.9907  
Total Harmonic Distortion (THDi): 27.4  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.2  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	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	74	65	64	63	53	53	52	47				
2	94	88	83	80	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	52	48	64	56	50	46	50	46	43	44	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	61	51	45	41	58	49	44	40	44	40	37	40	37	35	36	34	32	30				
10	58	48	42	39	55	46	41	37	42	38	35	38	35	33	34	32	30	29				

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

	0°	45°	90°
0°	238796	238796	238796
5°	227822	244661	259023
10°	192881	241478	277048
15°	142509	217083	281442
20°	81382	173264	258846
25°	37018	117587	208499
30°	15382	63237	156669
35°	9035	23490	84925
40°	5797	9661	28983
45°	4186	5582	10466
50°	3838	4605	5373
55°	3441	3441	4301
60°	2960	2960	3947
65°	2335	2335	2335
70°	1443	1443	2885
75°	1906	1906	1906
80°	0	2841	2841
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	7.3
10°-20°	115.0	18.1
20°-30°	100.0	15.8
30°-40°	40.4	6.4
40°-50°	8.1	1.3
50°-60°	3.9	0.6
60°-70°	2.2	0.4
70°-80°	1.1	0.2
80°-90°	0.2	0.0
90°-100°	0.3	0.0
100°-110°	1.1	0.2
110°-120°	2.2	0.4
120°-130°	3.9	0.6
130°-140°	8.1	1.3
140°-150°	40.4	6.4
150°-160°	100.0	15.8
160°-170°	115.0	18.1
170°-180°	46.5	7.3
0°-30°	261.5	41.2
0°-40°	301.9	47.6
0°-60°	314.0	49.5
0°-90°	317.4	50.0
90°-120°	3.6	0.6
90°-150°	56.0	8.8
90°-180°	318.0	50.1
0°-180°	634.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	460	471	494	515	523	42
15°	279	327	425	517	551	74
25°	68	93	216	339	383	33
35°	15	17	39	109	141	10
45°	6	7	8	12	15	5
55°	4	4	4	5	5	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	1	1	1	1	1	1
115°	2	2	2	2	2	2
125°	4	4	4	5	5	3
135°	6	7	8	12	15	5
145°	15	17	39	109	141	10
155°	68	93	216	339	383	33
165°	279	327	425	517	551	74
175°	460	471	494	515	523	42
180°	484	484	484	484	484	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	484	484	484	484	484
1°	480	482	483	484	485
2°	477	479	484	489	490
3°	473	477	486	496	499
4°	467	475	491	506	512
5°	460	471	494	515	523
6°	449	466	496	523	534
7°	436	457	497	530	542
8°	423	446	493	533	546
9°	405	433	488	530	547
10°	385	419	482	529	553
11°	365	402	471	531	559
12°	345	384	458	533	559
13°	323	366	446	529	558
14°	298	347	436	524	554
15°	279	327	425	517	551
16°	254	305	410	508	543
17°	228	281	391	497	534
18°	202	254	372	485	525
19°	180	225	353	473	513
20°	155	198	330	459	493
21°	134	172	306	441	468
22°	113	149	282	416	446
23°	96	128	259	388	425
24°	81	109	237	363	404
25°	68	93	216	339	383
26°	56	78	194	315	363
27°	45	64	172	294	343
28°	37	53	150	271	322
29°	31	44	131	247	301
30°	27	36	111	227	275
32.5°	19	24	68	169	205
35°	15	17	39	109	141
37.5°	11	13	23	62	79
40°	9	10	15	31	45
42.5°	8	8	11	18	23
45°	6	7	8	12	15
47.5°	5	6	7	8	9
50°	5	5	6	6	7
52.5°	4	5	5	5	6
55°	4	4	4	5	5
57.5°	3	3	4	4	4
60°	3	3	3	4	4
62.5°	2	2	3	3	3
65°	2	2	2	2	2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2	2	2	2	2
70°	1	1	1	2	2
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	0	0	1	1	1
82.5°	0	0	0	1	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	1	1
100°	0	0	1	1	1
102.5°	1	1	1	1	1
105°	1	1	1	1	1
107.5°	1	1	1	1	1
110°	1	1	1	2	2
112.5°	2	2	2	2	2
115°	2	2	2	2	2
117.5°	2	2	3	3	3
120°	3	3	3	4	4
122.5°	3	3	4	4	4
125°	4	4	4	5	5
127.5°	4	5	5	5	6
130°	5	5	6	6	7
132.5°	5	6	7	8	9
135°	6	7	8	12	15
137.5°	8	8	11	18	23
140°	9	10	15	31	45
142.5°	11	13	23	62	79
145°	15	17	39	109	141
147.5°	19	24	68	169	205
150°	27	36	111	227	275
151°	31	44	131	247	301
152°	37	53	150	271	322
153°	45	64	172	294	343
154°	56	78	194	315	363
155°	68	93	216	339	383
156°	81	109	237	363	404
157°	96	128	259	388	425
158°	113	149	282	416	446
159°	134	172	306	441	468
160°	155	198	330	459	493
161°	180	225	353	473	513



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
162°	202	254	372	485	525
163°	228	281	391	497	534
164°	254	305	410	508	543
165°	279	327	425	517	551
166°	298	347	436	524	554
167°	323	366	446	529	558
168°	345	384	458	533	559
169°	365	402	471	531	559
170°	385	419	482	529	553
171°	405	433	488	530	547
172°	423	446	493	533	546
173°	436	457	497	530	542
174°	449	466	496	523	534
175°	460	471	494	515	523
176°	467	475	491	506	512
177°	473	477	486	496	499
178°	477	479	484	489	490
179°	480	482	483	484	485
180°	484	484	484	484	484

(END OF REPORT)