

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: G2-1802-569-41

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-41
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-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

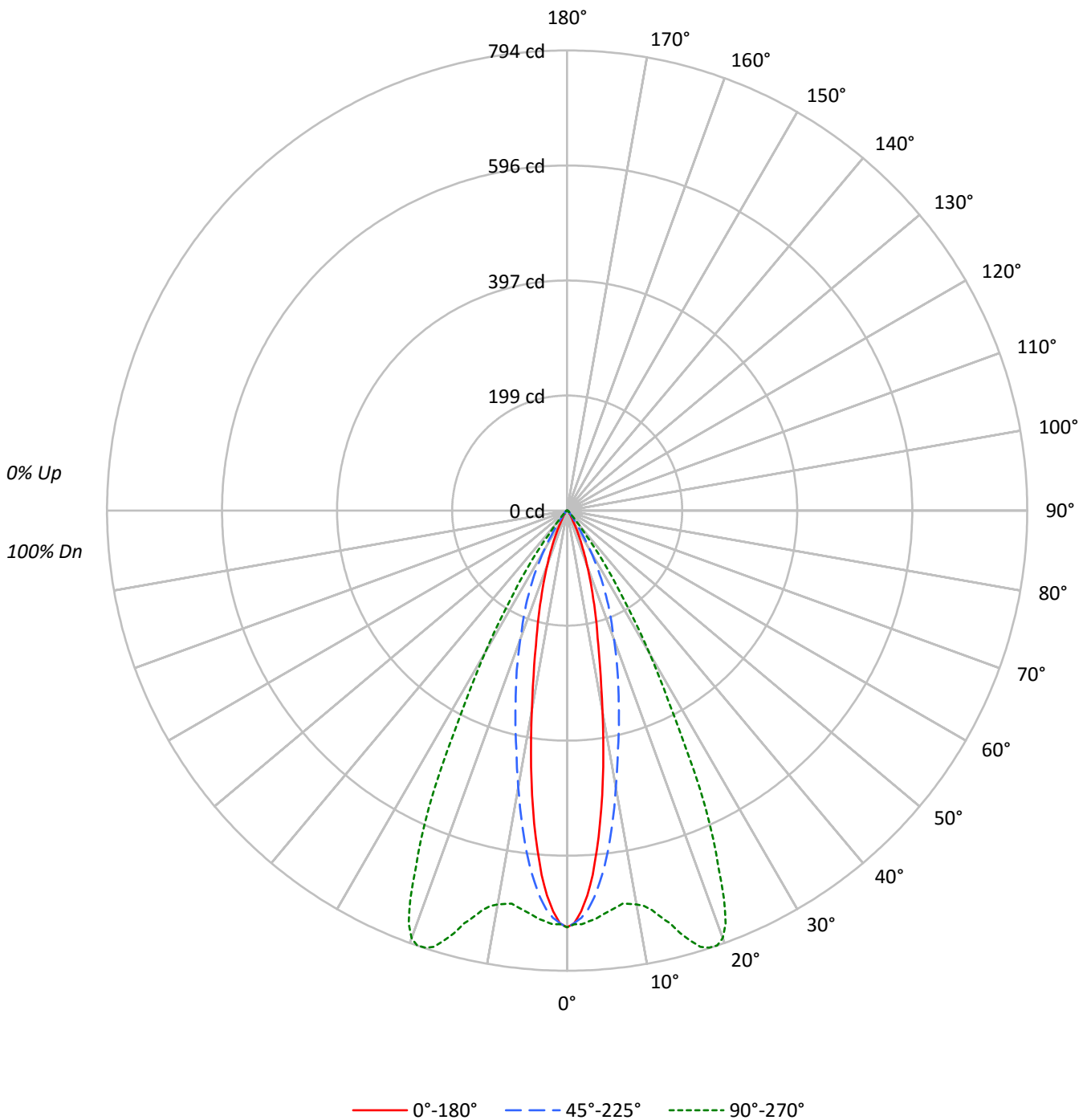
Lumens per Lamp: N/A
Luminaire Lumens: 312.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.4
Input Voltage (V): 12.0
Input Current (A_{in}): 0.648
Voltage Rise (V): NR
Power Factor: 0.9912
Total Harmonic Distortion (THDi): 27.0%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96				95	
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91				90	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86				85	
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82				80	
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78				76	
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74				73	
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70				69	
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67				66	
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64				63	
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61				60	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	354740	354740	354740
5°	291215	318950	346685
10°	175848	242981	345684
15°	97560	175710	385642
20°	53029	123910	412159
25°	26130	83835	307033
30°	10255	46716	161227
35°	6625	16865	68663
40°	4508	7085	17390
45°	3489	4186	6280
50°	3070	3838	4605
55°	2581	2581	3441
60°	1974	1974	2960
65°	1167	2335	2335
70°	1443	1443	1443
75°	1906	1906	1906
80°	0	0	2841
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	18.2
10°-20°	114.1	36.6
20°-30°	98.4	31.5
30°-40°	31.3	10.0
40°-50°	5.7	1.8
50°-60°	3.1	1.0
60°-70°	1.6	0.5
70°-80°	0.9	0.3
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°	269.4	86.3
0°-40°	300.7	96.4
0°-60°	309.5	99.2
0°-90°	312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	588	610	644	685	700	48
15°	191	232	344	581	755	54
25°	48	67	154	348	564	22
35°	11	13	28	82	114	7
45°	5	5	6	8	9	4
55°	3	3	3	4	4	3
65°	1	1	2	2	2	1
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719	719	719	719	719
1°	712	713	712	714	714
2°	692	697	703	712	714
3°	665	674	689	705	710
4°	630	645	669	696	706
5°	588	610	644	685	700
6°	543	569	617	673	695
7°	495	526	586	660	690
8°	447	481	553	644	685
9°	397	436	519	628	687
10°	351	393	485	617	690
11°	309	352	453	606	695
12°	273	317	422	598	705
13°	239	285	395	592	720
14°	213	257	369	587	734
15°	191	232	344	581	755
16°	169	209	321	575	772
17°	149	189	300	567	787
18°	133	169	278	555	793
19°	115	149	257	541	794
20°	101	131	236	522	785
21°	88	115	217	499	763
22°	76	101	202	468	723
23°	65	88	186	434	668
24°	56	77	170	389	620
25°	48	67	154	348	564
26°	40	57	139	311	499
27°	32	48	124	275	429
28°	26	39	109	241	373
29°	21	32	95	210	326
30°	18	26	82	186	283
32.5°	14	17	50	131	181
35°	11	13	28	82	114
37.5°	8	9	17	41	53
40°	7	8	11	20	27
42.5°	6	6	8	11	14
45°	5	5	6	8	9
47.5°	4	4	5	6	7
50°	4	4	5	5	6
52.5°	3	4	4	4	4
55°	3	3	3	4	4
57.5°	3	3	3	3	3
60°	2	2	2	3	3
62.5°	1	2	2	2	2
65°	1	1	2	2	2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1	1	1	1	2
70°	1	1	1	1	1
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	0	1	1	1	1
80°	0	0	0	1	1
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)