

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: G2-1802-569-29

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-29
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-8LED4025-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 316.3 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

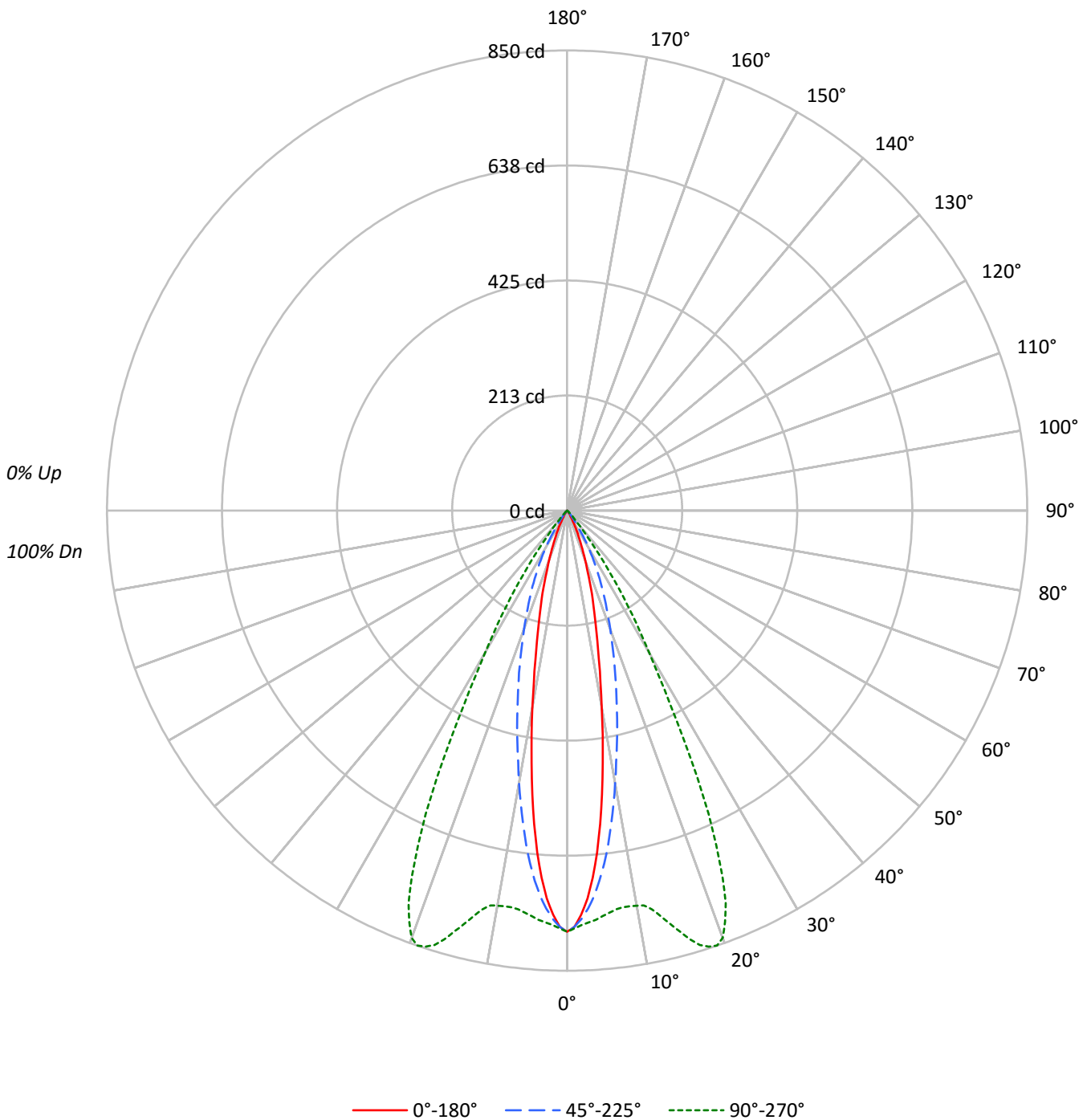
Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (A_{in}): 0.691
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 26.9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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	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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86					86			
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82					82			
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78					78			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74					74			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71					71			
8	86	78	73	70	85	78	73	69	77	72	69	76	72	69	75	71	69	67					67			
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65					65			
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62					62			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	383849	383849	383849
5°	313997	339751	372439
10°	184866	256006	371234
15°	99092	179285	411181
20°	50404	121810	441037
25°	23409	80024	336429
30°	7976	45007	172051
35°	3614	15660	76493
40°	1932	5152	19966
45°	1395	2093	3489
50°	768	1535	1535
55°	860	860	860
60°	987	987	987
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	19.1
10°-20°	118.3	37.4
20°-30°	101.1	32.0
30°-40°	31.7	10.0
40°-50°	3.5	1.1
50°-60°	1.0	0.3
60°-70°	0.1	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	280.0	88.5
0°-40°	311.7	98.5
0°-60°	316.2	100.0
0°-90°	316.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	634	645	686	733	752	52
15°	194	225	351	614	805	54
25°	43	59	147	366	618	21
35°	6	8	26	85	127	4
45°	2	2	3	5	5	2
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	778	778	778	778	778
1°	769	768	769	771	772
2°	747	748	755	763	766
3°	717	720	736	755	762
4°	680	686	714	745	758
5°	634	645	686	733	752
6°	582	599	655	719	747
7°	529	551	622	706	742
8°	471	500	584	689	740
9°	419	450	548	676	740
10°	369	402	511	662	741
11°	323	357	474	648	743
12°	282	317	442	635	753
13°	247	283	411	627	769
14°	219	251	379	620	787
15°	194	225	351	614	805
16°	171	201	325	603	824
17°	150	180	300	593	839
18°	130	159	276	580	847
19°	112	141	253	562	850
20°	96	123	232	541	840
21°	83	107	213	517	814
22°	70	93	195	483	782
23°	60	79	178	444	734
24°	51	68	162	405	677
25°	43	59	147	366	618
26°	36	50	132	326	548
27°	30	43	118	292	474
28°	23	35	104	257	405
29°	18	28	92	223	349
30°	14	22	79	194	302
32.5°	9	13	50	135	208
35°	6	8	26	85	127
37.5°	5	6	14	44	61
40°	3	4	8	19	31
42.5°	3	3	5	9	11
45°	2	2	3	5	5
47.5°	2	2	2	3	4
50°	1	1	2	2	2
52.5°	1	1	1	1	1
55°	1	1	1	1	1
57.5°	1	1	1	1	1
60°	1	1	1	1	1
62.5°	0	0	0	0	0
65°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
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)