

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: G2-1802-569-33

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-33
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-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

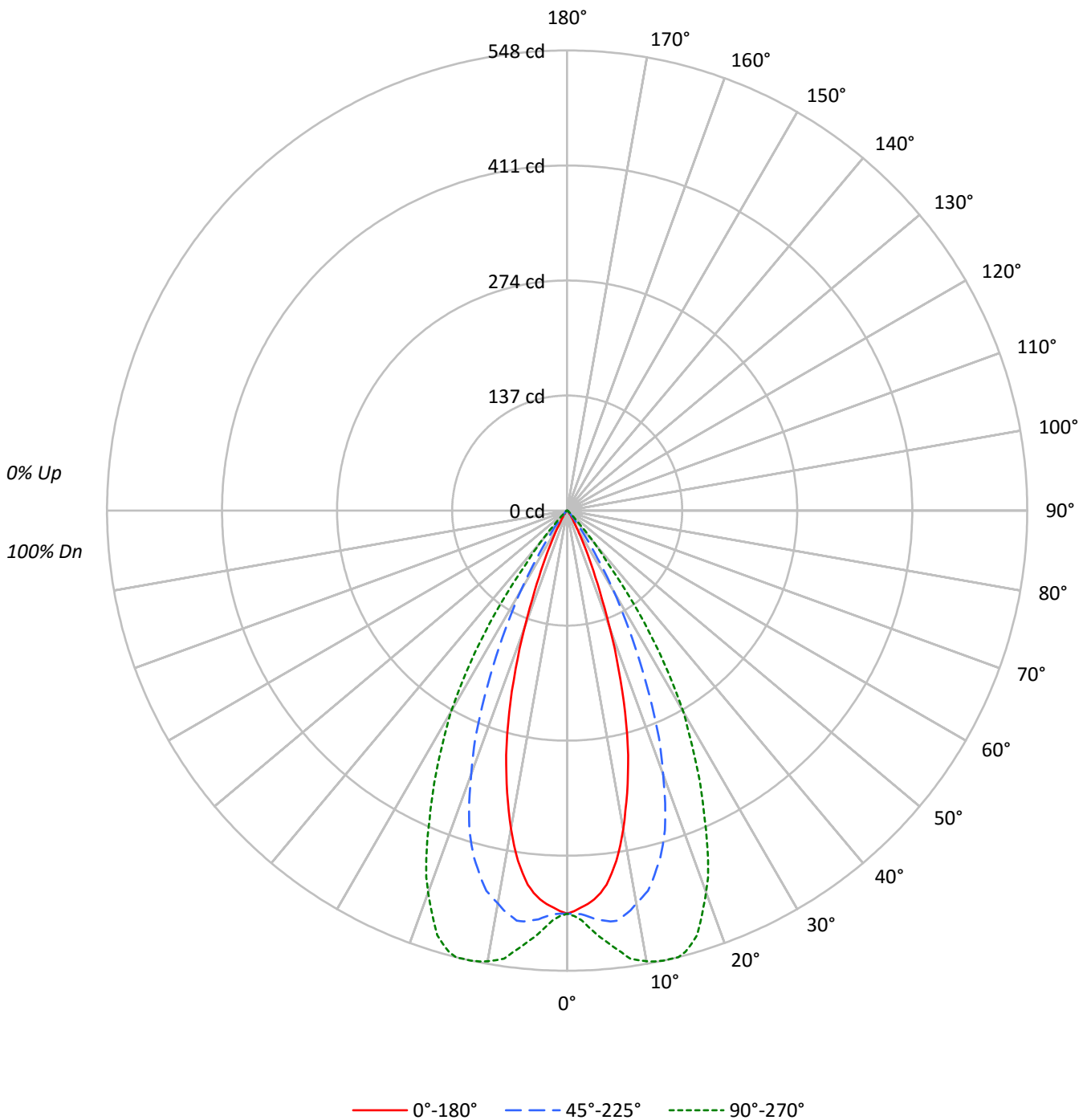
Lumens per Lamp: N/A
Luminaire Lumens: 305.6 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.681
Voltage Rise (V): NR
Power Factor: 0.9907
Total Harmonic Distortion (THDi): 27.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	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	87	90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65
9	81	72	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	236822	236822	236822
5°	226336	242679	254566
10°	192881	237971	273040
15°	140976	218616	277867
20°	77706	175365	254121
25°	31574	117587	207955
30°	10255	63237	157808
35°	4818	21683	90346
40°	2576	6441	32203
45°	1395	2791	6977
50°	768	1535	2303
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°	46.2	15.1
10°-20°	114.5	37.5
20°-30°	99.4	32.5
30°-40°	39.3	12.9
40°-50°	5.0	1.7
50°-60°	1.1	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°	260.1	85.1
0°-40°	299.4	98.0
0°-60°	305.5	100.0
0°-90°	305.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	305.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	457	470	490	509	514	41
15°	276	324	428	514	544	73
25°	58	85	216	348	382	29
35°	8	11	36	114	150	5
45°	2	3	4	8	10	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°	480	480	480	480	480
1°	477	478	480	482	483
2°	473	476	481	486	488
3°	469	475	484	493	497
4°	464	473	488	500	506
5°	457	470	490	509	514
6°	448	465	492	514	522
7°	435	458	492	519	530
8°	421	447	487	523	539
9°	404	435	482	526	542
10°	385	420	475	527	545
11°	364	404	469	526	547
12°	344	386	463	525	548
13°	322	367	452	523	548
14°	300	346	440	519	548
15°	276	324	428	514	544
16°	250	301	414	509	537
17°	225	278	398	499	529
18°	198	250	378	485	514
19°	174	223	357	469	499
20°	148	196	334	452	484
21°	124	170	313	433	468
22°	103	143	292	415	448
23°	86	120	266	397	426
24°	71	101	241	375	403
25°	58	85	216	348	382
26°	48	71	193	324	361
27°	38	58	170	299	339
28°	30	47	149	277	317
29°	24	37	129	249	296
30°	18	30	111	227	277
32.5°	11	17	67	175	214
35°	8	11	36	114	150
37.5°	5	7	18	64	81
40°	4	5	10	30	50
42.5°	3	4	6	14	20
45°	2	3	4	8	10
47.5°	2	2	2	4	5
50°	1	1	2	2	3
52.5°	1	1	1	2	2
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)