

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: G2-1802-569-39

Luminaire Tested: **230-8LED4010-12-CS-OSL**

Test Date: 04/05/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-39  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-39)  
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: 230-8LED4010-12-CS-OSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD SILVER, OVERALL SPREAD LENS  
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED  
SM16-07-10D-940-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

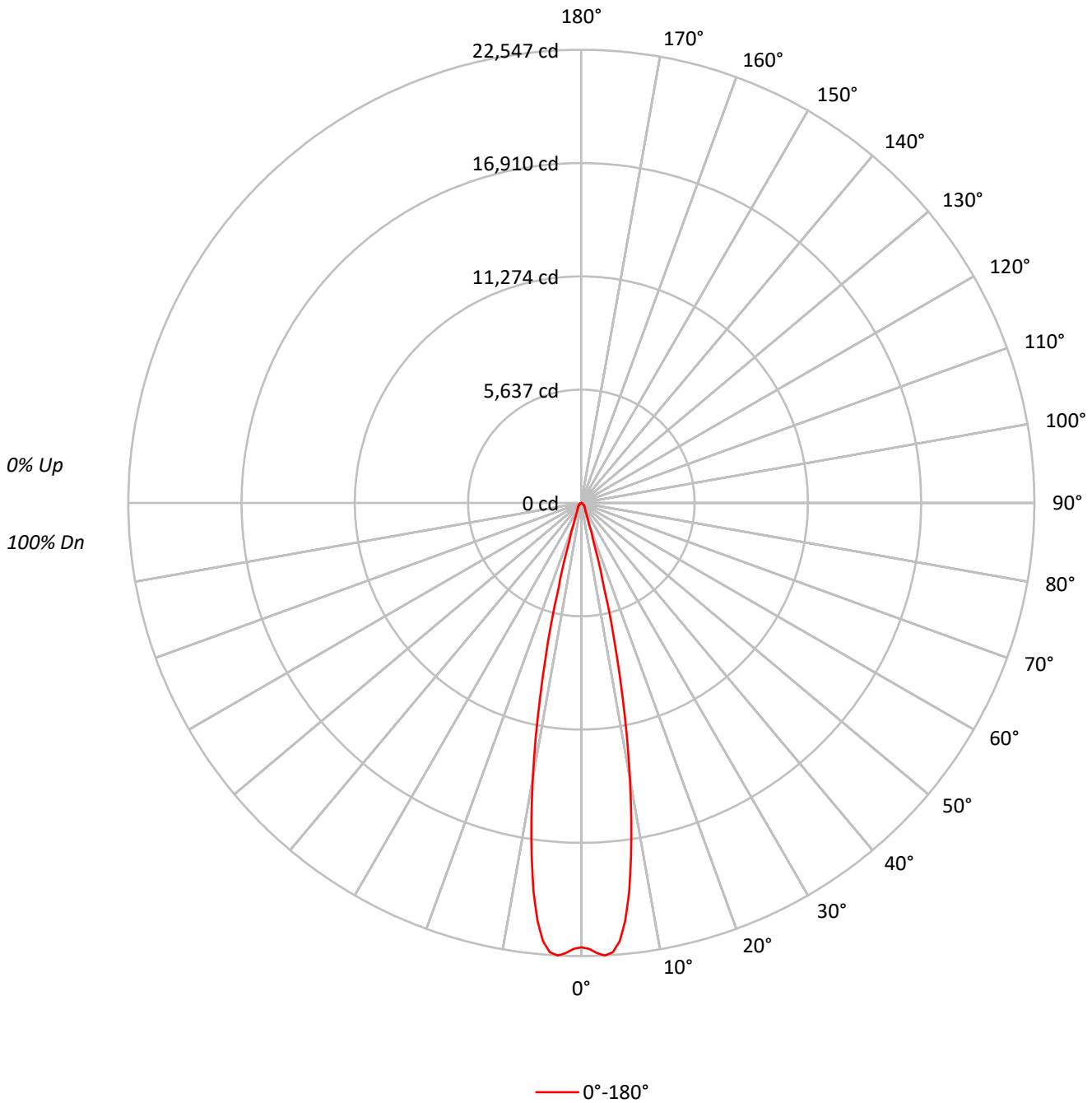
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 533.3 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.5  
Input Voltage (V): 12.0  
Input Current (Ain): 0.656  
Voltage Rise (V): NR  
Power Factor: 0.9482  
Total Harmonic Distortion (THDi): 25.7  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 9 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	91	88	93	89	87	91	88	86	90	87	86	84
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80
8	93	87	83	80	92	86	83	80	86	82	80	85	82	79	84	81	79	78
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

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

	0°
0°	10907191
5°	10839996
10°	6979803
15°	2245764
20°	598760
25°	306652
30°	219166
35°	190328
40°	159276
45°	134246
50°	115979
55°	82749
60°	54272
65°	32104
70°	19763
75°	26116
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1818.7	45.5
10°-20°	1428.0	35.7
20°-30°	285.3	7.1
30°-40°	194.7	4.9
40°-50°	152.0	3.8
50°-60°	87.0	2.2
60°-70°	25.3	0.6
70°-80°	9.0	0.2
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°	3532.0	88.3
0°-40°	3726.7	93.2
0°-60°	3965.7	99.1
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22107	
5°	21887	###
15°	4397	1428
25°	563	285
35°	316	195
45°	192	152
55°	96	87
65°	28	25
75°	14	9
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	22107.1
1°	22189.5
2°	22409.4
3°	22546.8
4°	22409.4
5°	21887.3
6°	20898.0
7°	19496.6
8°	17792.8
9°	15869.3
10°	13932.0
12.5°	8862.1
15°	4396.7
17.5°	2033.5
20°	1140.4
22.5°	769.4
25°	563.3
27.5°	453.4
30°	384.7
32.5°	343.5
35°	316.0
37.5°	274.8
40°	247.3
42.5°	219.8
45°	192.4
47.5°	178.6
50°	151.1
52.5°	123.7
55°	96.2
57.5°	68.7
60°	55.0
62.5°	27.5
65°	27.5
67.5°	13.7
70°	13.7
72.5°	13.7
75°	13.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)