

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: G2-1802-569-27

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

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-27  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-27)  
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: 230-8LED4010-12-BK-OSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD BLACK, OVERALL SPREAD LENS  
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED  
SM16-07-10D-940-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

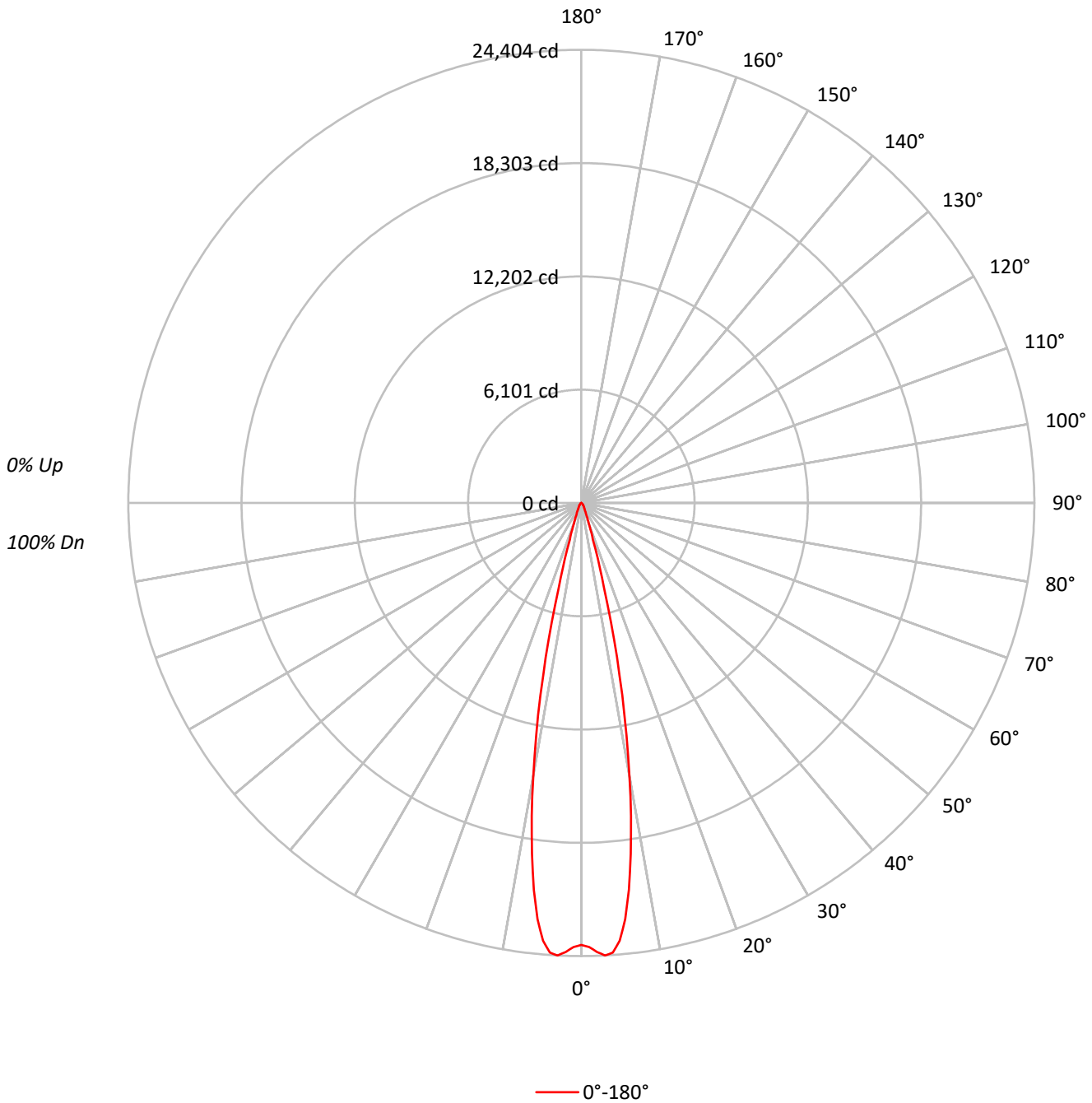
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 500.0 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): 8  
Input Voltage (V): 12.0  
Input Current (Ain): 0.709  
Voltage Rise (V): NR  
Power Factor: 0.9468  
Total Harmonic Distortion (THDi): 27.5  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 9 HR  
Ambient Temperature (°C): 25.1  
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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88
6	101	95	91	88	99	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	82	80	79

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

	0°
0°	11743519
5°	11719040
10°	7484501
15°	2402933
20°	602802
25°	274370
30°	175469
35°	134916
40°	99185
45°	78147
50°	53729
55°	36128
60°	13815
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1959.7	49.0
10°-20°	1517.7	37.9
20°-30°	259.9	6.5
30°-40°	137.8	3.4
40°-50°	86.0	2.1
50°-60°	37.2	0.9
60°-70°	1.7	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°	3737.3	93.4
0°-40°	3875.1	96.9
0°-60°	3998.3	100.0
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°	23802	
5°	23662	###
15°	4704	1518
25°	504	260
35°	224	138
45°	112	86
55°	42	37
65°	0	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	23802.2
1°	23914.2
2°	24194.2
3°	24404.2
4°	24278.2
5°	23662.2
6°	22542.1
7°	20987.9
8°	19083.8
9°	17067.6
10°	14939.4
12.5°	9492.9
15°	4704.4
17.5°	2072.2
20°	1148.1
22.5°	728.1
25°	504.0
27.5°	378.0
30°	308.0
32.5°	252.0
35°	224.0
37.5°	182.0
40°	154.0
42.5°	126.0
45°	112.0
47.5°	98.0
50°	70.0
52.5°	56.0
55°	42.0
57.5°	28.0
60°	14.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)