

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: G2-1802-569-24

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

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-24  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-24)  
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-DIFF  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD BLACK, DIFFUSED LENS  
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED  
SM16-07-10D-940-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

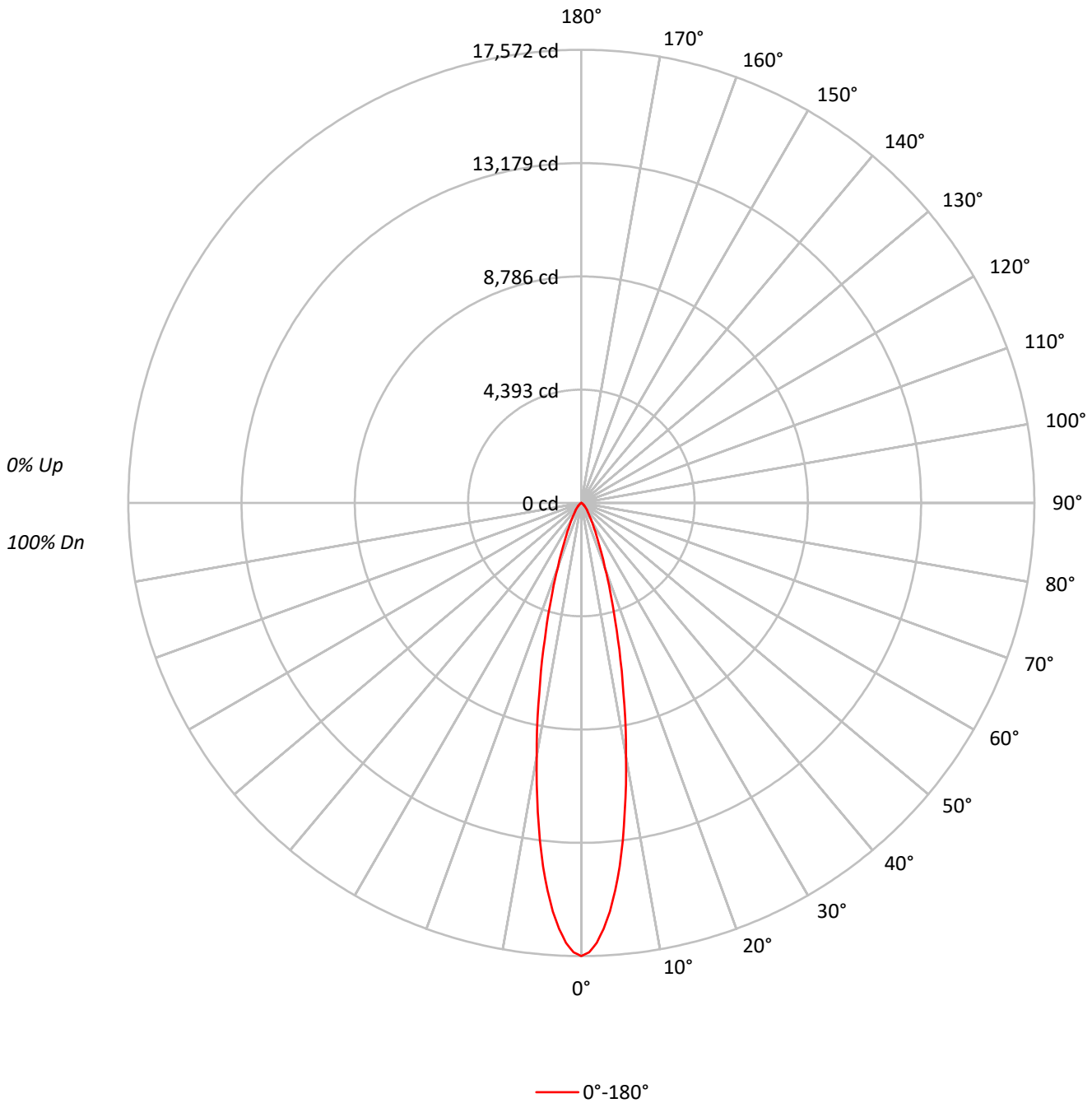
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 500.0 lumens/watt  
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4  
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): 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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	74	71	70
10	84	77	72	70	83	77	72	69	76	72	69	75	72	69	75	71	69	68

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

	0°
0°	8669665
5°	7471110
10°	5001941
15°	2790924
20°	1410582
25°	741179
30°	434344
35°	273326
40°	198757
45°	139339
50°	97557
55°	62449
60°	17959
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1271.0	31.8
10°-20°	1537.0	38.4
20°-30°	667.7	16.7
30°-40°	301.2	7.5
40°-50°	156.4	3.9
50°-60°	60.2	1.5
60°-70°	6.6	0.2
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°	3475.7	86.9
0°-40°	3776.9	94.4
0°-60°	3993.4	99.8
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°	17572	
5°	15085	###
15°	5464	1537
25°	1362	668
35°	454	301
45°	200	156
55°	73	60
65°	0	7
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17572.0
1°	17426.8
2°	17063.7
3°	16537.3
4°	15883.8
5°	15085.1
6°	14177.4
7°	13179.0
8°	12108.0
9°	11055.1
10°	9984.1
12.5°	7533.5
15°	5464.0
17.5°	3848.4
20°	2686.6
22.5°	1906.1
25°	1361.5
27.5°	998.4
30°	762.4
32.5°	580.9
35°	453.8
37.5°	381.2
40°	308.6
42.5°	236.0
45°	199.7
47.5°	163.4
50°	127.1
52.5°	90.8
55°	72.6
57.5°	36.3
60°	18.2
62.5°	18.2
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)