

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: G2-1802-569-36

Luminaire Tested: **203-SS-8LED4010-12-CS-DIFF**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-36
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: 203-SS-8LED4010-12-CS-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD SILVER, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

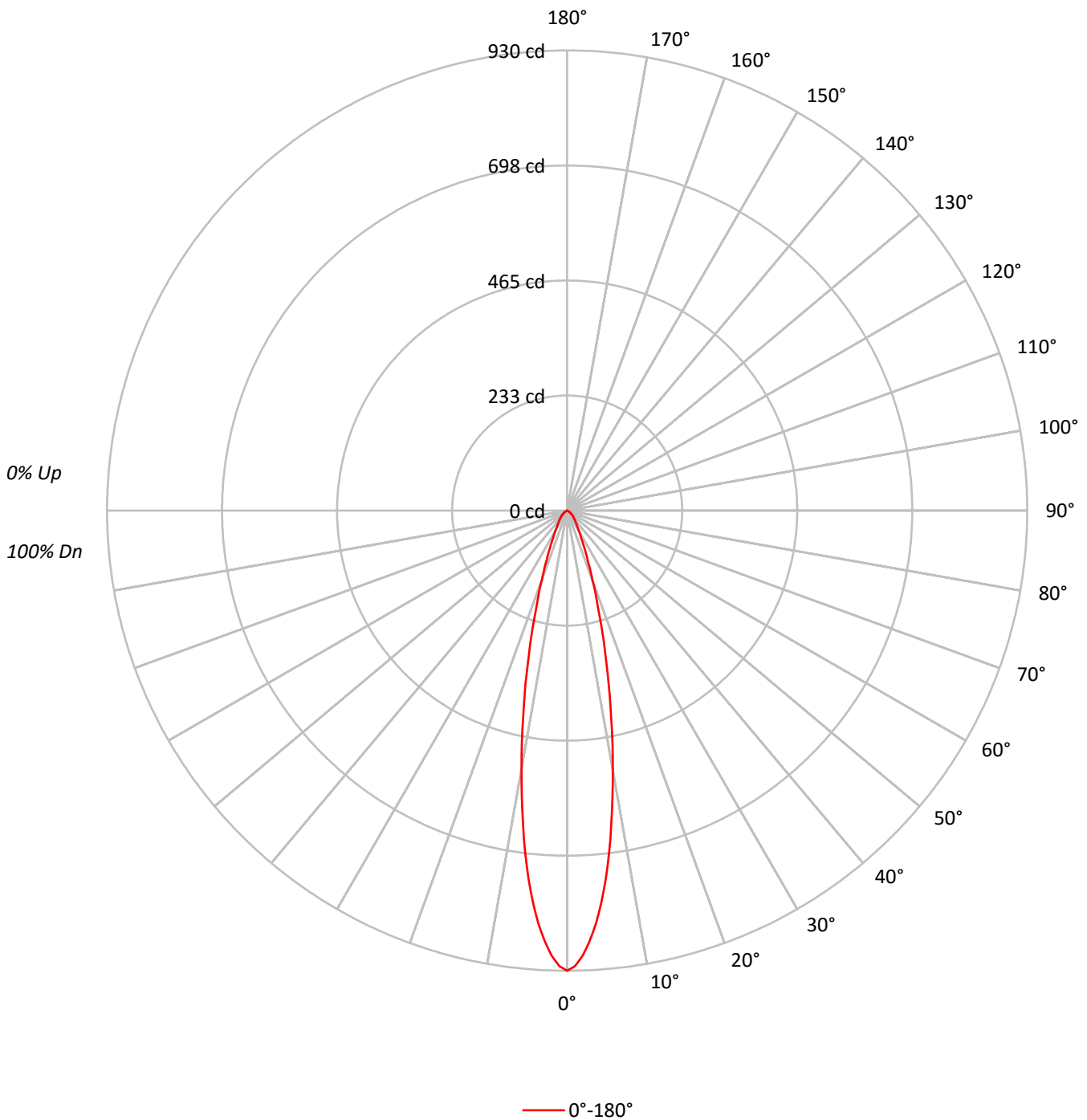
Lumens per Lamp: N/A
Luminaire Lumens: 233.2 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): 12.0
Input Current (A_{in}): 0.656
Voltage Rise (V): NR
Power Factor: 0.9482
Total Harmonic Distortion (THDi): 27.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.7
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	110	108	106	106	104	103	102	101	99	98	98	97	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	71
8	87	79	74	70	86	78	74	70	77	73	70	76	73	70	76	72	70	68
9	84	76	71	68	83	75	71	68	75	70	67	74	70	67	73	70	67	66
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	458843
5°	393240
10°	266026
15°	150681
20°	78757
25°	43551
30°	27346
35°	19274
40°	14813
45°	11862
50°	9211
55°	6881
60°	3947
65°	2335
70°	1443
75°	1906
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	28.8
10°-20°	83.0	35.6
20°-30°	38.8	16.6
30°-40°	20.5	8.8
40°-50°	13.3	5.7
50°-60°	7.1	3.0
60°-70°	2.3	1.0
70°-80°	0.9	0.4
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°	188.9	81.0
0°-40°	209.5	89.8
0°-60°	229.9	98.6
0°-90°	233.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	233.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	930	
5°	794	67
15°	295	83
25°	80	39
35°	32	21
45°	17	13
55°	8	7
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	930
1°	921
2°	900
3°	871
4°	836
5°	794
6°	748
7°	696
8°	641
9°	585
10°	531
12.5°	404
15°	295
17.5°	210
20°	150
22.5°	108
25°	80
27.5°	60
30°	48
32.5°	38
35°	32
37.5°	27
40°	23
42.5°	20
45°	17
47.5°	15
50°	12
52.5°	10
55°	8
57.5°	6
60°	4
62.5°	3
65°	2
67.5°	2
70°	1
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)