

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: P277785

Luminaire Tested: **203-SS-8LED4010-12-BK-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: P277785
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: 203-SS-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

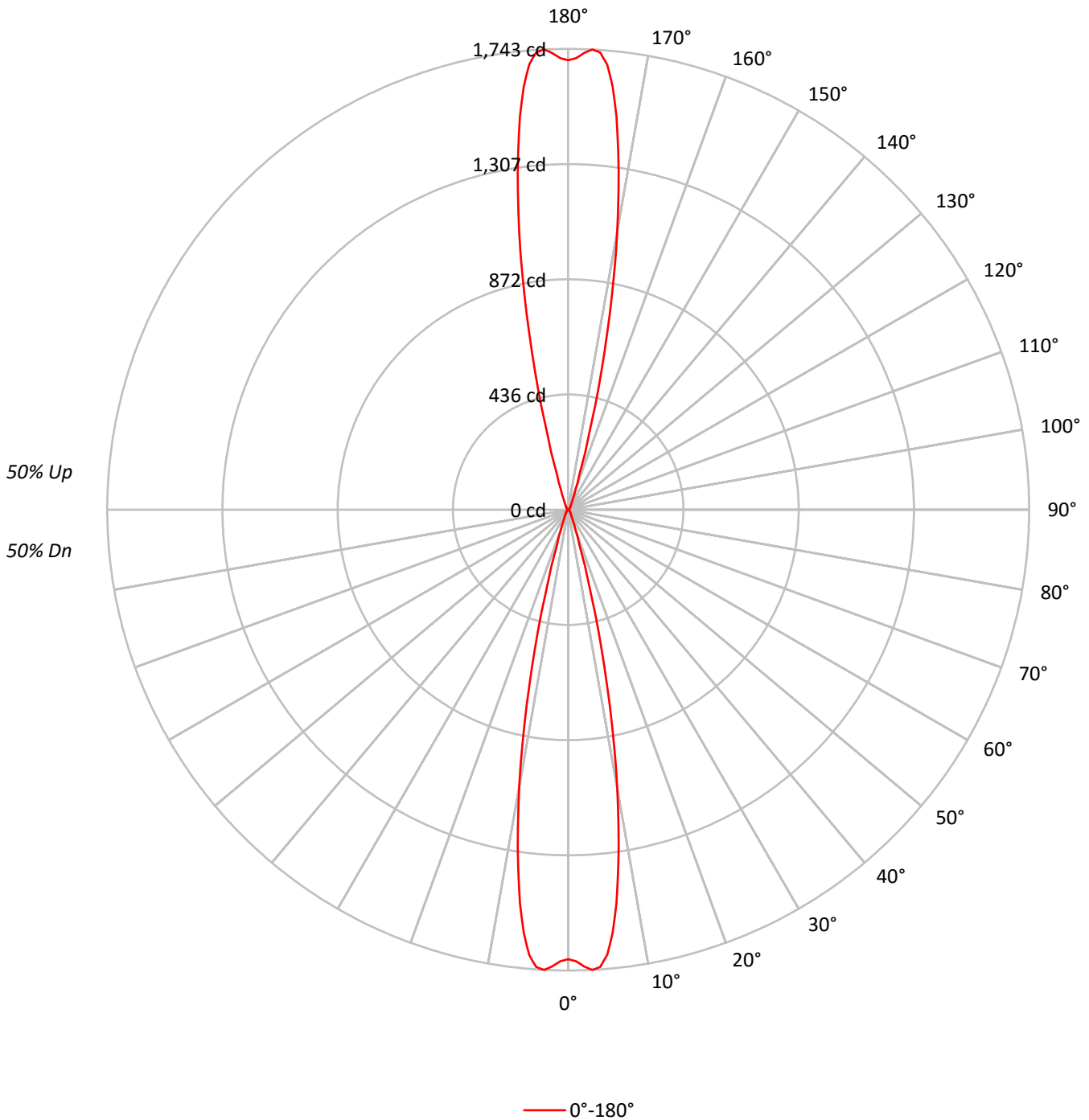
Lumens per Lamp: N/A
Luminaire Lumens: 571.4 lumens
Efficiency: N/A
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16.1
Input Voltage (V): 12.0
Input Current (A_{in}): 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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	101	98	95	93	93	91	89	87	78	76	75		66	65	64		55	54	54	49
2	95	90	86	83	88	84	81	78	73	71	69		63	61	60		53	52	52	47
3	90	84	79	75	84	79	74	71	69	66	64		60	58	57		52	51	50	46
4	86	78	73	69	80	74	69	66	65	62	60		58	55	54		50	49	48	45
5	81	73	68	64	76	70	65	61	62	59	56		55	53	51		49	48	46	44
6	78	69	64	60	73	66	61	58	59	56	53		53	51	49		48	46	45	43
7	74	66	60	56	70	63	58	55	57	54	51		52	49	47		47	45	44	42
8	71	63	57	54	67	60	55	52	55	51	49		50	48	46		46	44	43	41
9	69	60	55	51	65	58	53	50	53	50	47		49	46	44		45	43	42	40
10	66	58	52	49	63	55	51	48	51	48	46		47	45	43		44	42	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	838745
5°	836996
10°	534557
15°	171623
20°	43054
25°	19598
30°	12534
35°	9637
40°	7085
45°	5582
50°	3838
55°	2581
60°	987
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	24.5
10°-20°	108.4	19.0
20°-30°	18.6	3.2
30°-40°	9.8	1.7
40°-50°	6.1	1.1
50°-60°	2.7	0.5
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°	0.1	0.0
120°-130°	2.7	0.5
130°-140°	6.1	1.1
140°-150°	9.8	1.7
150°-160°	18.6	3.2
160°-170°	108.4	19.0
170°-180°	140.0	24.5
0°-30°	266.9	46.7
0°-40°	276.8	48.4
0°-60°	285.6	50.0
0°-90°	285.7	50.0
90°-120°	0.1	0.0
90°-150°	18.8	3.3
90°-180°	286.0	50.1
0°-180°	571.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1700	
5°	1690	140
15°	336	108
25°	36	19
35°	16	10
45°	8	6
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	3	3
135°	8	6
145°	16	10
155°	36	19
165°	336	108
175°	1690	140
180°	1700	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1700
1°	1708
2°	1728
3°	1743
4°	1734
5°	1690
6°	1610
7°	1499
8°	1363
9°	1219
10°	1067
12.5°	678
15°	336
17.5°	148
20°	82
22.5°	52
25°	36
27.5°	27
30°	22
32.5°	18
35°	16
37.5°	13
40°	11
42.5°	9
45°	8
47.5°	7
50°	5
52.5°	4
55°	3
57.5°	2
60°	1
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0

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CANDELA DISTRIBUTION (continued):

	0°
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0
112.5°	0
115°	0
117.5°	0
120°	1
122.5°	2
125°	3
127.5°	4
130°	5
132.5°	7
135°	8
137.5°	9
140°	11
142.5°	13
145°	16
147.5°	18
150°	22
152.5°	27
155°	36
157.5°	52
160°	82
162.5°	148
165°	336
167.5°	678
170°	1067
171°	1219
172°	1363
173°	1499
174°	1610
175°	1690
176°	1734
177°	1743
178°	1728
179°	1708
180°	1700

(END OF REPORT)