

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: P277781

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: P277781
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-4)
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
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK
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: 597.0 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

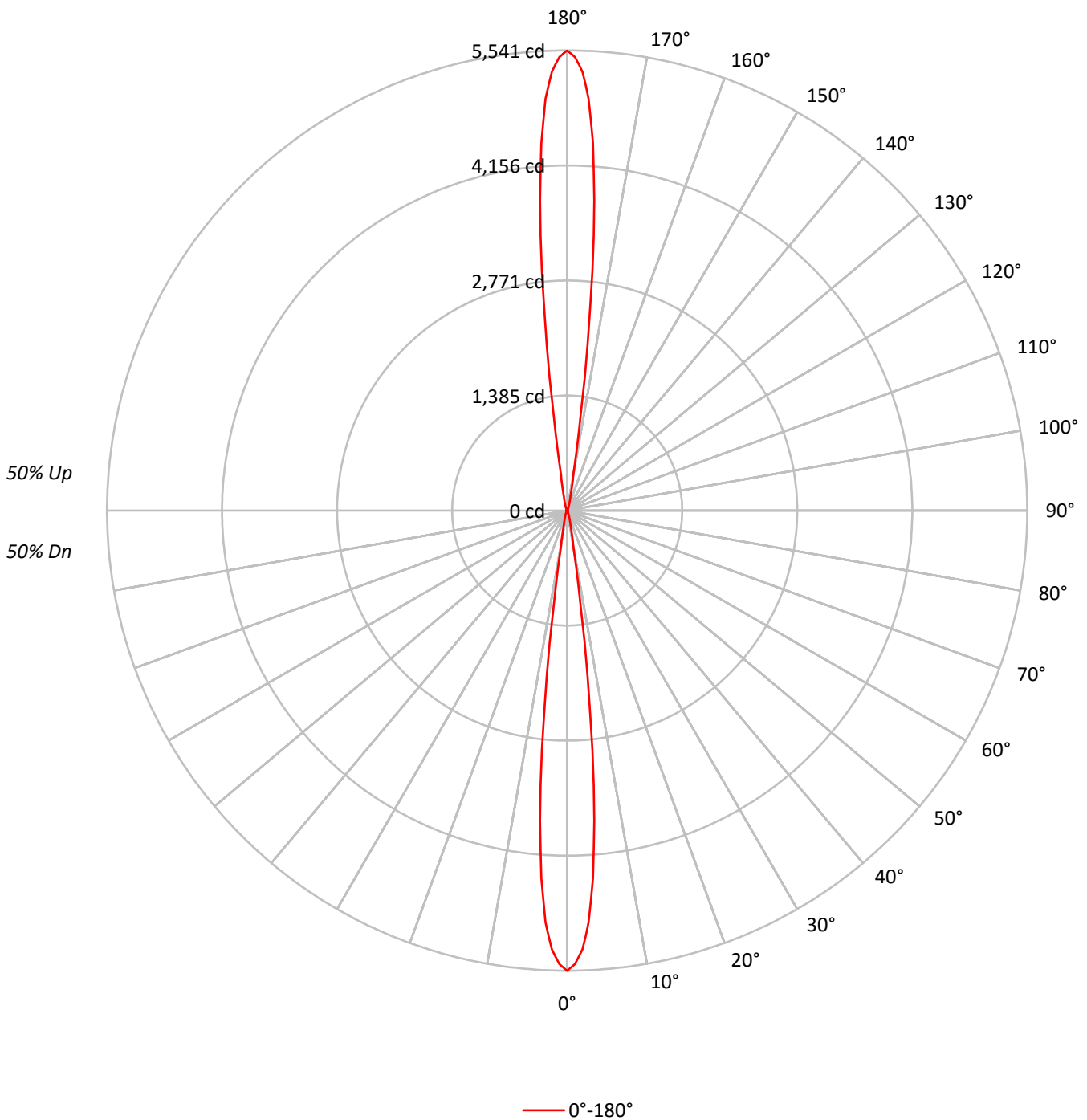
Input Watts (W): 16.1
Input Voltage (V): 12.0
Input Current (A_{in}): 0.709
Voltage Rise (V): NR
Power Factor: 0.9469
Total Harmonic Distortion (THDi): 27.5
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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	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	96	94	94	91	89	87	78	77	76	66	65	65	55	55	54	49				
2	96	91	87	84	89	85	82	79	74	72	70	64	62	61	54	53	53	48				
3	91	85	80	77	85	80	76	73	70	68	65	61	60	58	53	52	51	48				
4	87	80	75	71	81	75	71	68	67	64	62	59	57	56	52	51	50	47				
5	83	76	70	66	78	72	67	64	64	61	59	58	56	54	51	50	49	46				
6	80	72	67	63	75	68	64	61	62	59	56	56	54	52	50	49	48	46				
7	77	69	64	60	72	66	61	58	60	57	55	55	53	51	50	48	47	45				
8	74	66	61	58	70	63	59	56	58	55	53	53	51	50	49	48	47	45				
9	72	64	59	56	68	61	57	54	57	54	51	52	50	49	48	47	46	45				
10	69	62	57	54	66	59	55	53	55	52	50	51	49	48	48	47	46	44				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2733816
5°	1856250
10°	213422
15°	63337
20°	28352
25°	14698
30°	10255
35°	8432
40°	7085
45°	4884
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°	226.2	37.9
10°-20°	41.7	7.0
20°-30°	13.5	2.3
30°-40°	8.6	1.4
40°-50°	5.7	1.0
50°-60°	2.4	0.4
60°-70°	0.4	0.1
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°	0.6	0.1
120°-130°	2.4	0.4
130°-140°	5.7	1.0
140°-150°	8.6	1.4
150°-160°	13.5	2.3
160°-170°	41.7	7.0
170°-180°	226.2	37.9
0°-30°	281.3	47.1
0°-40°	290.0	48.6
0°-60°	298.2	49.9
0°-90°	298.5	50.0
90°-120°	0.6	0.1
90°-150°	17.4	2.9
90°-180°	299.0	50.1
0°-180°	597.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5541	
5°	3748	226
15°	124	42
25°	27	13
35°	14	9
45°	7	6
55°	3	2
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	1
125°	3	2
135°	7	6
145°	14	9
155°	27	13
165°	124	42
175°	3748	226
180°	5541	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5541
1°	5462
2°	5286
3°	4964
4°	4438
5°	3748
6°	2905
7°	2011
8°	1218
9°	697
10°	426
12.5°	202
15°	124
17.5°	87
20°	54
22.5°	35
25°	27
27.5°	22
30°	18
32.5°	15
35°	14
37.5°	12
40°	11
42.5°	9
45°	7
47.5°	6
50°	5
52.5°	3
55°	3
57.5°	2
60°	1
62.5°	1
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°	1
120°	1
122.5°	2
125°	3
127.5°	3
130°	5
132.5°	6
135°	7
137.5°	9
140°	11
142.5°	12
145°	14
147.5°	15
150°	18
152.5°	22
155°	27
157.5°	35
160°	54
162.5°	87
165°	124
167.5°	202
170°	426
171°	697
172°	1218
173°	2011
174°	2905
175°	3748
176°	4438
177°	4964
178°	5286
179°	5462
180°	5541

(END OF REPORT)