

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: P277790

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: P277790
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-39)
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-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, 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

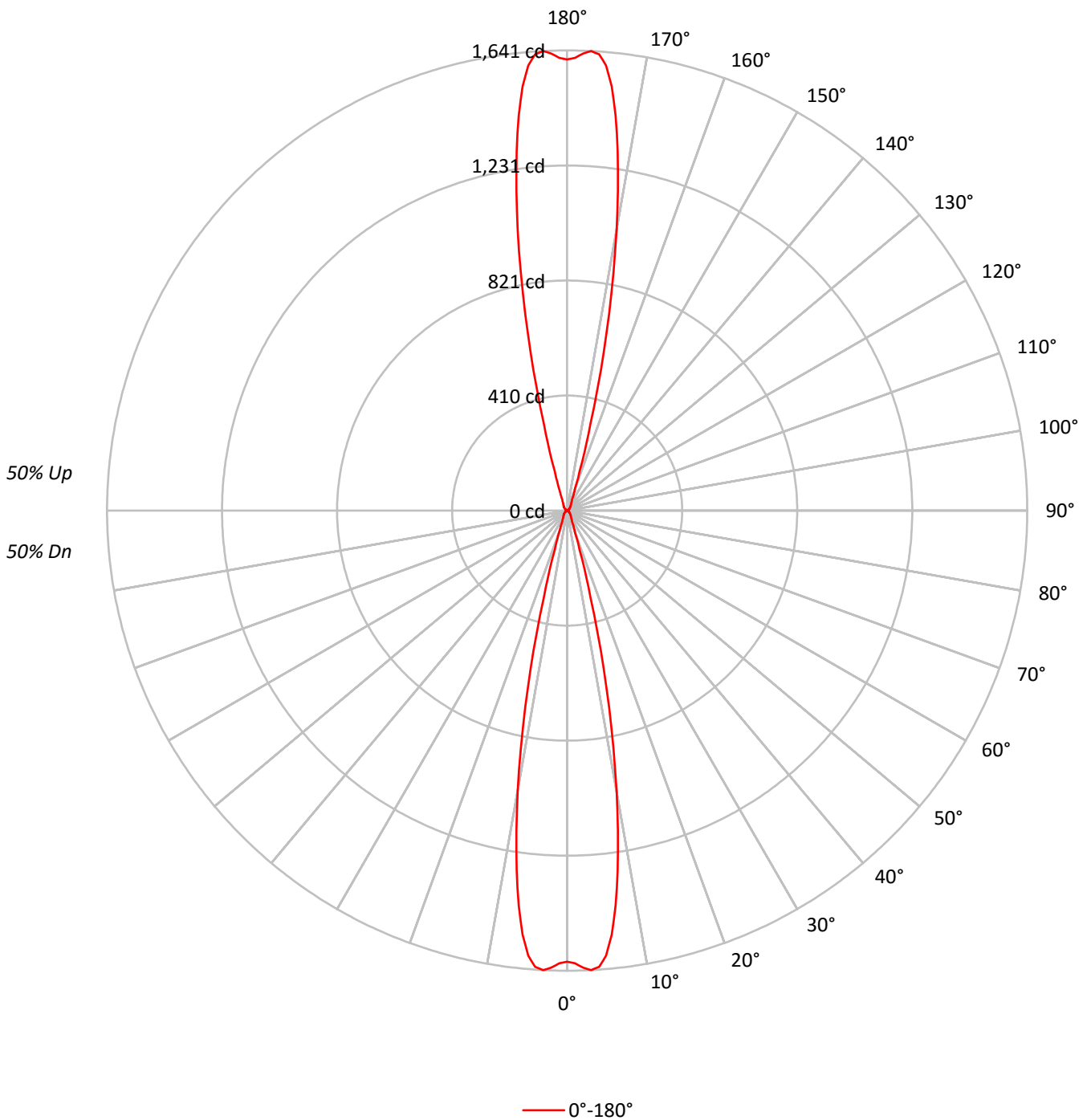
Lumens per Lamp: N/A
Luminaire Lumens: 582.3 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 14.9
Input Voltage (V): 12.0
Input Current (A_{in}): 0.656
Voltage Rise (V): NR
Power Factor: 0.9482
Total Harmonic Distortion (THDi): 25.7
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 25.0
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	95	92	93	91	88	86	78	76	75	65	65	64	54	54	53	48				
2	95	90	85	82	88	84	80	77	72	70	68	62	61	59	52	52	51	47				
3	90	83	78	74	83	78	73	70	68	65	63	59	57	55	51	50	49	45				
4	85	77	72	67	79	73	68	64	64	61	58	56	54	52	49	48	47	44				
5	80	72	66	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42				
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41				
7	73	64	59	55	69	61	56	53	56	52	49	50	48	46	45	43	42	40				
8	70	61	56	52	66	58	54	50	53	50	47	48	46	44	44	42	41	39				
9	67	58	53	49	64	56	51	48	51	48	45	47	44	43	43	41	40	38				
10	65	56	51	47	61	54	49	46	50	46	44	46	43	41	42	40	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	793848
5°	788956
10°	508005
15°	163451
20°	43579
25°	22320
30°	15952
35°	13853
40°	11593
45°	9768
50°	8443
55°	6021
60°	3947
65°	2335
70°	1443
75°	1906
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	22.7
10°-20°	103.9	17.8
20°-30°	20.8	3.6
30°-40°	14.2	2.4
40°-50°	11.1	1.9
50°-60°	6.3	1.1
60°-70°	1.8	0.3
70°-80°	0.7	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.1
110°-120°	1.8	0.3
120°-130°	6.3	1.1
130°-140°	11.1	1.9
140°-150°	14.2	2.4
150°-160°	20.8	3.6
160°-170°	103.9	17.8
170°-180°	132.4	22.7
0°-30°	257.1	44.2
0°-40°	271.2	46.6
0°-60°	288.6	49.6
0°-90°	291.1	50.0
90°-120°	2.5	0.4
90°-150°	34.1	5.8
90°-180°	291.0	50.0
0°-180°	582.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1609	
5°	1593	132
15°	320	104
25°	41	21
35°	23	14
45°	14	11
55°	7	6
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	7	6
135°	14	11
145°	23	14
155°	41	21
165°	320	104
175°	1593	132
180°	1609	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1609
1°	1615
2°	1631
3°	1641
4°	1631
5°	1593
6°	1521
7°	1419
8°	1295
9°	1155
10°	1014
12.5°	645
15°	320
17.5°	148
20°	83
22.5°	56
25°	41
27.5°	33
30°	28
32.5°	25
35°	23
37.5°	20
40°	18
42.5°	16
45°	14
47.5°	13
50°	11
52.5°	9
55°	7
57.5°	5
60°	4
62.5°	2
65°	2
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0



TEST NUMBER: P277790

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CANDELA DISTRIBUTION (continued):

	0°
97.5°	0
100°	0
102.5°	0
105°	1
107.5°	1
110°	1
112.5°	1
115°	2
117.5°	2
120°	4
122.5°	5
125°	7
127.5°	9
130°	11
132.5°	13
135°	14
137.5°	16
140°	18
142.5°	20
145°	23
147.5°	25
150°	28
152.5°	33
155°	41
157.5°	56
160°	83
162.5°	148
165°	320
167.5°	645
170°	1014
171°	1155
172°	1295
173°	1419
174°	1521
175°	1593
176°	1631
177°	1641
178°	1631
179°	1615
180°	1609

(END OF REPORT)