

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: G2-1802-569-38

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-38
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-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD SILVER, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

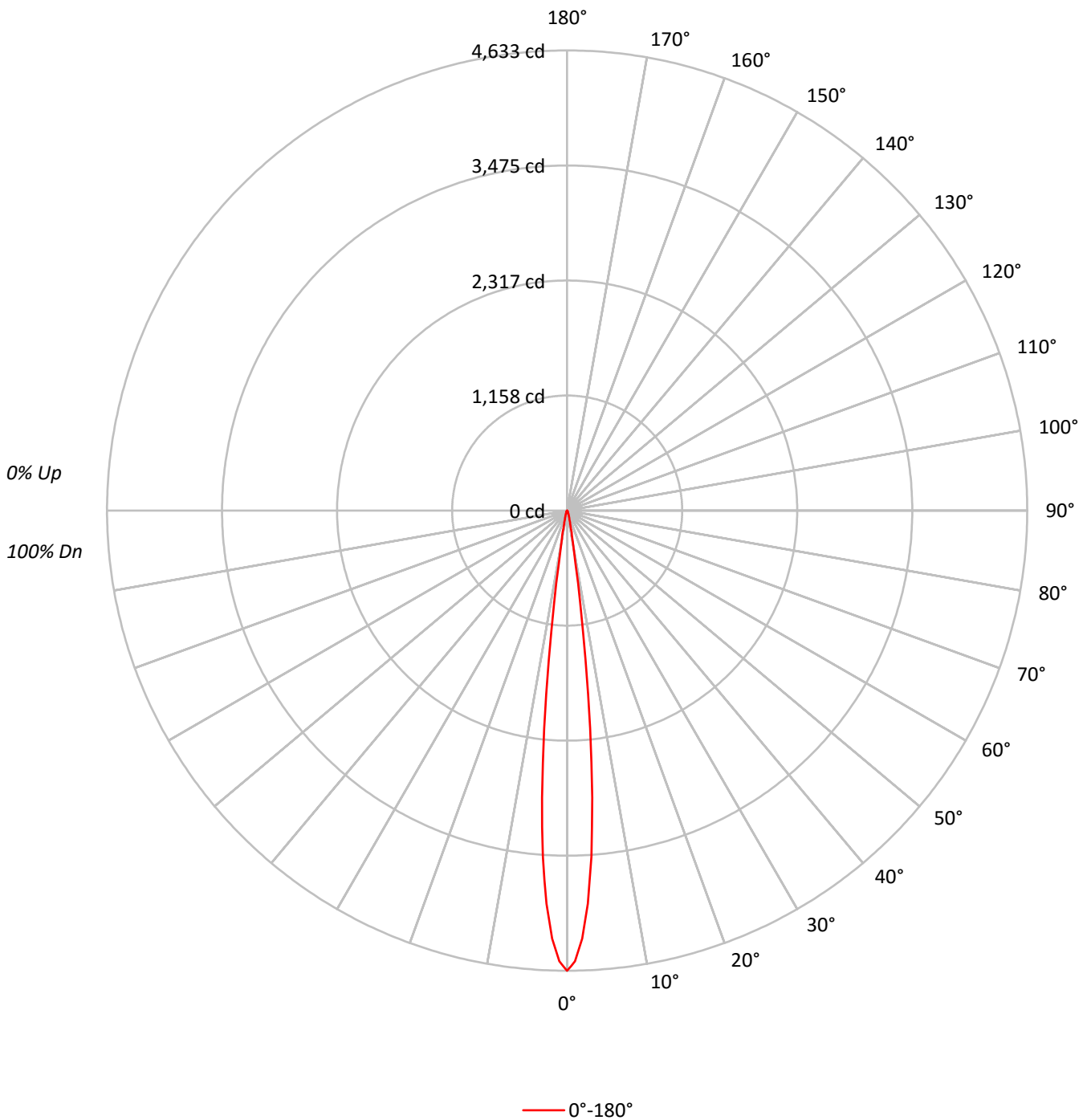
Lumens per Lamp: N/A
Luminaire Lumens: 225.1 lumens
Efficiency: N/A
Efficacy: 30.0 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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): 25.7
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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	116	114	113	111	114	112	111	110	108	107	106	106	105	104	103	103	101	101	100	100	99	99	99	99
2	113	111	108	106	111	109	107	105	106	104	103	103	103	102	101	101	101	100	99	99	97	97	97	97
3	111	108	105	103	109	106	104	102	104	102	100	100	102	100	99	99	100	98	97	97	96	96	96	96
4	109	105	102	100	108	104	101	99	102	100	98	98	100	99	97	97	99	97	96	96	95	95	95	95
5	107	103	100	98	106	102	99	97	101	98	97	97	99	97	96	96	98	96	95	95	94	94	94	94
6	105	101	98	96	104	100	98	96	99	97	95	95	98	96	95	95	97	95	94	94	93	93	93	93
7	104	100	97	95	103	99	96	94	98	96	94	94	97	95	94	94	96	94	93	93	92	92	92	92
8	103	98	95	93	102	98	95	93	97	95	93	93	96	94	93	93	95	94	92	92	91	91	91	91
9	101	97	94	92	101	97	94	92	96	94	92	92	95	93	92	92	95	93	92	92	91	91	91	91
10	100	96	93	91	100	96	93	91	95	93	91	91	94	92	91	91	94	92	91	91	90	90	90	90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2285827
5°	1436761
10°	165327
15°	45460
20°	18377
25°	10343
30°	6836
35°	4818
40°	3220
45°	2093
50°	1535
55°	860
60°	987
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	78.5
10°-20°	30.4	13.5
20°-30°	9.3	4.1
30°-40°	5.0	2.2
40°-50°	2.2	1.0
50°-60°	1.2	0.5
60°-70°	0.4	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°	216.3	96.1
0°-40°	221.3	98.3
0°-60°	224.7	99.8
0°-90°	225.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	225.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4633	
5°	2901	177
15°	89	30
25°	19	9
35°	8	5
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4633
1°	4538
2°	4311
3°	3963
4°	3493
5°	2901
6°	2205
7°	1515
8°	933
9°	543
10°	330
12.5°	149
15°	89
17.5°	59
20°	35
22.5°	25
25°	19
27.5°	15
30°	12
32.5°	10
35°	8
37.5°	6
40°	5
42.5°	3
45°	3
47.5°	2
50°	2
52.5°	2
55°	1
57.5°	1
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

(END OF REPORT)