

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: G2-1802-569-24

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-24
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-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

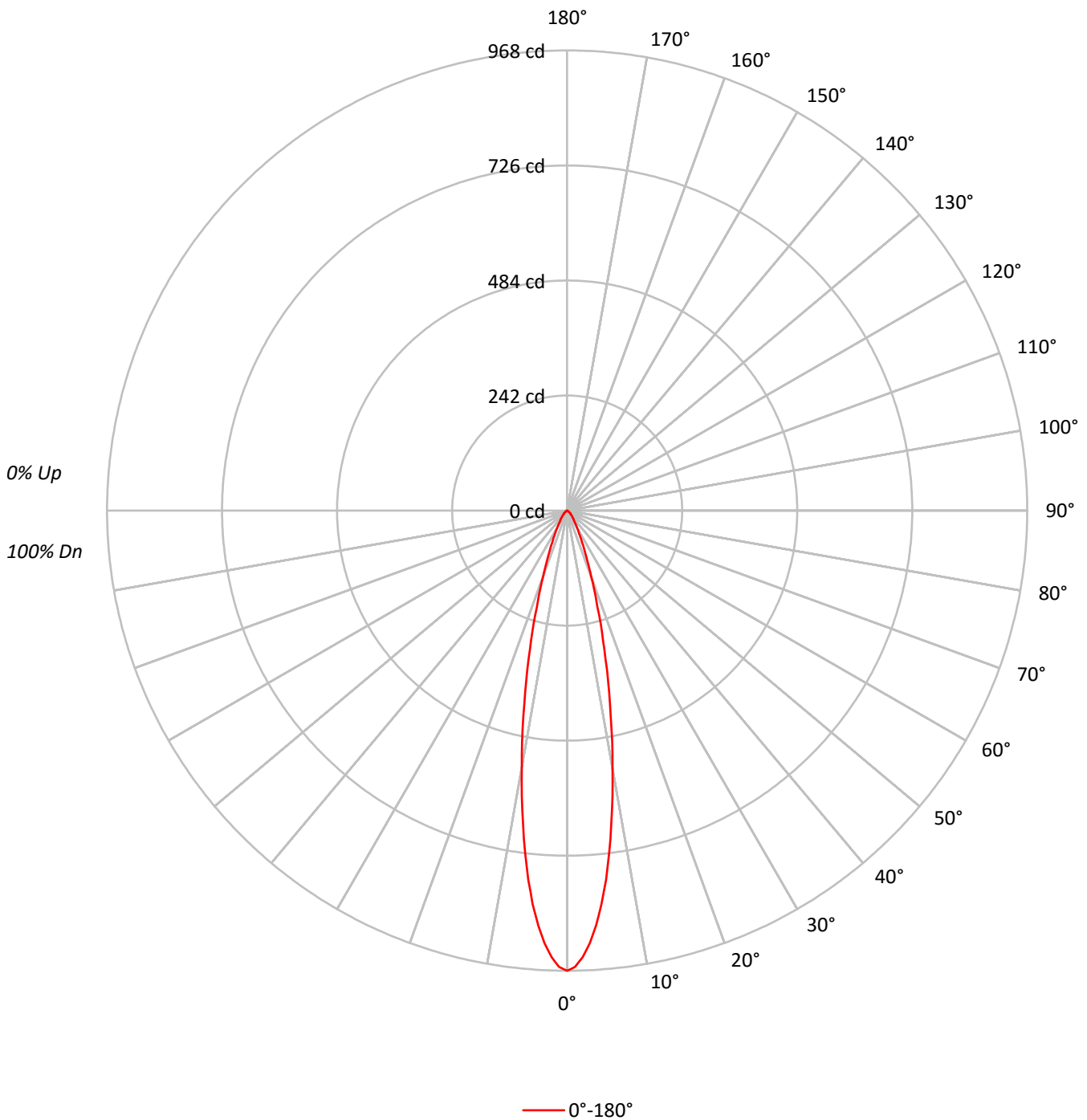
Lumens per Lamp: N/A
Luminaire Lumens: 220.4 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	83	79	76	81	78	76	75
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	74	71	70
10	84	77	72	70	83	77	72	69	76	72	69	75	72	69	75	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	477591
5°	411565
10°	275545
15°	153746
20°	77706
25°	40829
30°	23928
35°	15058
40°	10949
45°	7675
50°	5373
55°	3441
60°	987
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	31.8
10°-20°	84.7	38.4
20°-30°	36.8	16.7
30°-40°	16.6	7.5
40°-50°	8.6	3.9
50°-60°	3.3	1.5
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°	191.5	86.9
0°-40°	208.1	94.4
0°-60°	220.0	99.8
0°-90°	220.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	220.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	968	
5°	831	70
15°	301	85
25°	75	37
35°	25	17
45°	11	9
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	968
1°	960
2°	940
3°	911
4°	875
5°	831
6°	781
7°	726
8°	667
9°	609
10°	550
12.5°	415
15°	301
17.5°	212
20°	148
22.5°	105
25°	75
27.5°	55
30°	42
32.5°	32
35°	25
37.5°	21
40°	17
42.5°	13
45°	11
47.5°	9
50°	7
52.5°	5
55°	4
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

(END OF REPORT)