

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: G2-1802-569-7

Luminaire Tested: **230-8LED4010-12-CS**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-7
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-7)
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: 230-8LED4010-12-CS
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED
SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

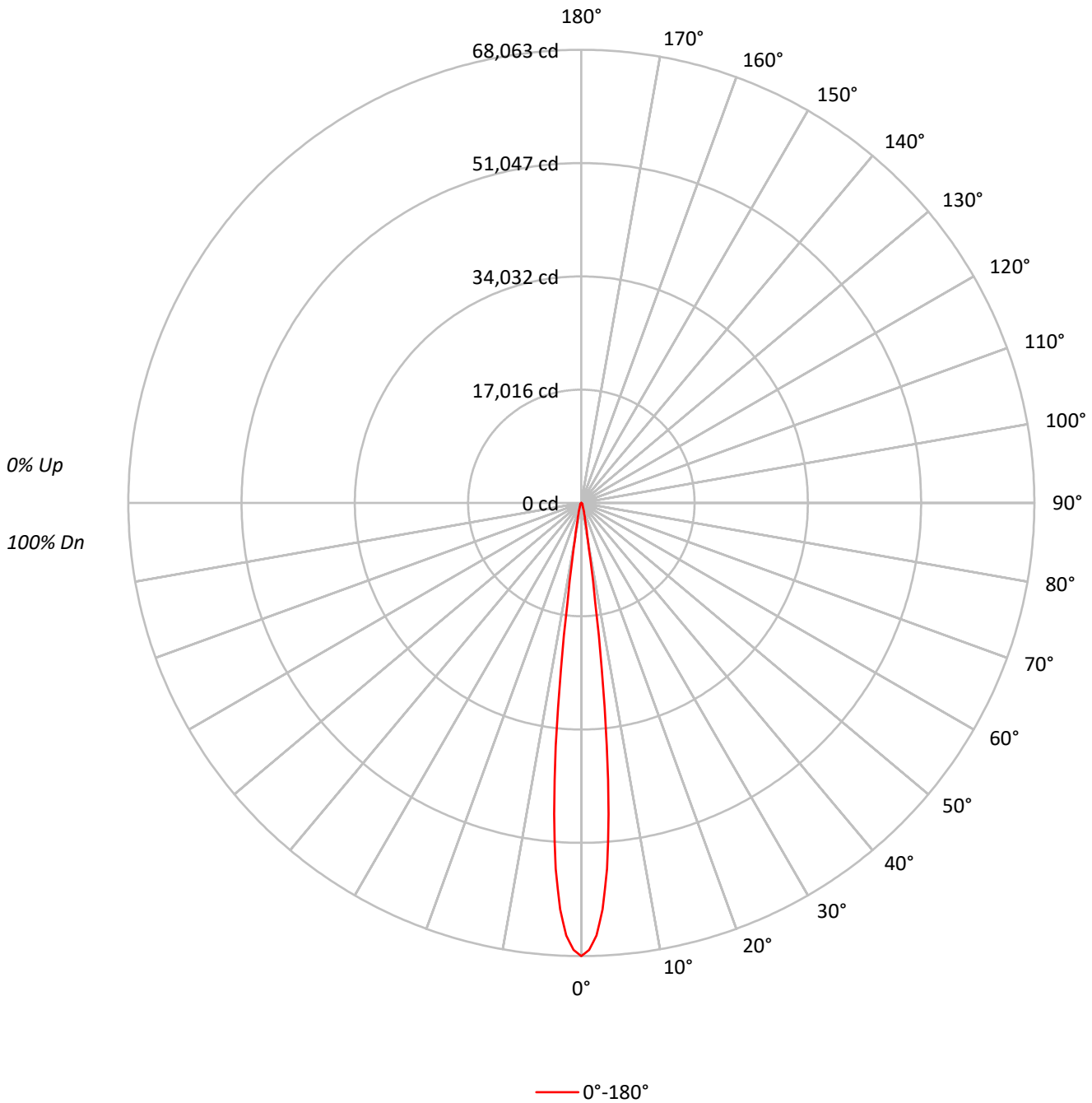
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 533.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): 12.0
Input Current (Ain): 0.656
Voltage Rise (V): NR
Power Factor: 0.9482
Total Harmonic Distortion (THDi): 27.2%
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	116	114	112	110	113	112	110	109	108	106	105	104	103	102	101	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101	101	100	99	99	98	97	95
3	109	105	102	99	108	104	101	99	102	99	97	99	97	96	97	96	94	93
4	107	102	99	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91
5	104	99	96	93	103	98	95	93	97	94	92	95	93	91	94	92	91	90
6	102	97	93	91	101	96	93	91	95	92	90	94	91	90	93	91	89	88
7	100	95	91	89	99	94	91	89	93	91	88	92	90	88	91	89	88	87
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85
10	96	90	87	85	95	90	87	85	89	87	85	89	86	85	88	86	84	84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33580892
5°	23220114
10°	2659359
15°	839525
20°	374881
25°	242033
30°	191877
35°	170392
40°	147490
45°	131595
50°	103391
55°	81115
60°	39865
65°	15760
70°	19474
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2813.0	70.3
10°-20°	539.4	13.5
20°-30°	215.1	5.4
30°-40°	178.6	4.5
40°-50°	146.4	3.7
50°-60°	82.3	2.1
60°-70°	19.9	0.5
70°-80°	5.3	0.1
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°	3567.5	89.2
0°-40°	3746.1	93.7
0°-60°	3974.8	99.4
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	68063	
5°	46884	###
15°	1644	539
25°	445	215
35°	283	179
45°	189	146
55°	94	82
65°	14	20
75°	0	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	68063.0
1°	67160.4
2°	64991.3
3°	61111.2
4°	55102.5
5°	46884.3
6°	36726.0
7°	25180.1
8°	15048.8
9°	8608.9
10°	5308.2
12.5°	2613.7
15°	1643.6
17.5°	1145.2
20°	714.0
22.5°	538.9
25°	444.6
27.5°	390.7
30°	336.8
32.5°	309.9
35°	282.9
37.5°	269.4
40°	229.0
42.5°	215.6
45°	188.6
47.5°	175.1
50°	134.7
52.5°	121.3
55°	94.3
57.5°	67.4
60°	40.4
62.5°	26.9
65°	13.5
67.5°	13.5
70°	13.5
72.5°	13.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)