

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: G2-1802-569-31

Luminaire Tested: **230-8LED4025-12-BK-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-31
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-31)
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: 230-8LED4025-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

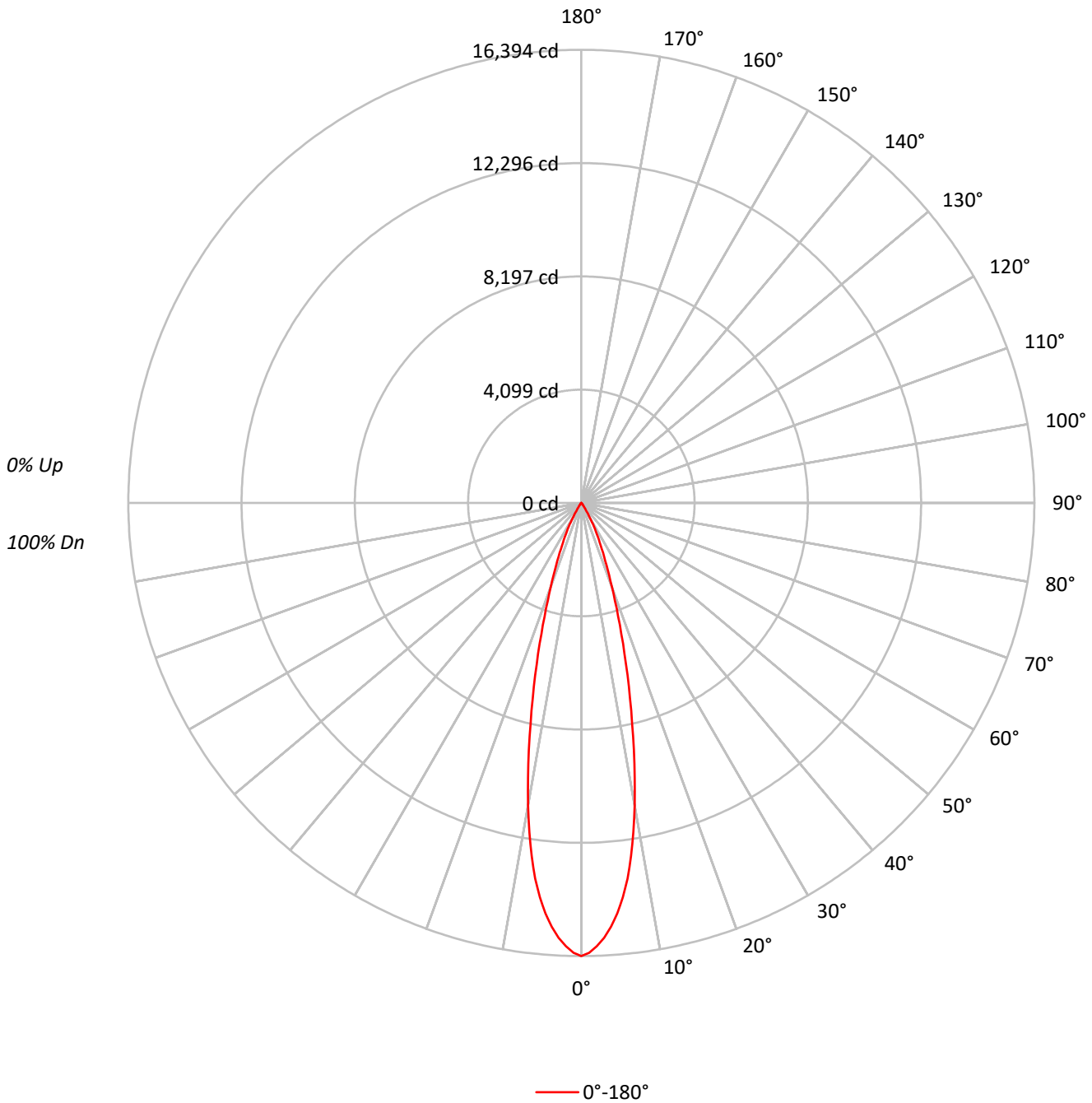
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 506.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.44
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (Ain): 0.692
Voltage Rise (V): NR
Power Factor: 0.991
Total Harmonic Distortion (THDi): 27.0
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97
2	111	107	104	102	109	106	103	101	103	100	99	100	98	97	97	96	95	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	99	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	82	79	76	82	78	76	81	78	75	80	77	75	74
10	87	80	76	74	87	80	76	74	79	76	73	79	76	73	78	75	73	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8088415
5°	7378594
10°	5558743
15°	3292668
20°	1704449
25°	858385
30°	356693
35°	104741
40°	37356
45°	24281
50°	8904
55°	9978
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.2	32.6
10°-20°	1777.8	44.4
20°-30°	747.7	18.7
30°-40°	136.9	3.4
40°-50°	26.5	0.7
50°-60°	9.0	0.2
60°-70°	0.0	0.0
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°	3827.6	95.7
0°-40°	3964.5	99.1
0°-60°	4000.0	100.0
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°	16394	
5°	14898	###
15°	6446	1778
25°	1577	748
35°	174	137
45°	35	26
55°	12	9
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16393.9
1°	16278.0
2°	16046.1
3°	15756.3
4°	15373.7
5°	14898.3
6°	14341.8
7°	13692.5
8°	12904.1
9°	12046.2
10°	11095.5
11°	10121.6
12°	9124.5
13°	8173.8
14°	7281.0
15°	6446.3
16°	5669.5
17°	4950.6
18°	4313.0
19°	3744.9
20°	3246.3
21°	2794.2
22°	2423.1
23°	2110.1
24°	1820.3
25°	1576.8
26°	1356.5
27°	1147.8
28°	962.3
29°	800.0
30°	626.1
32.5°	289.9
35°	173.9
37.5°	104.3
40°	58.0
42.5°	46.4
45°	34.8
47.5°	23.2
50°	11.6
52.5°	11.6
55°	11.6
57.5°	11.6
60°	0.0
62.5°	0.0
65°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.0
70°	0.0
72.5°	0.0
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)