

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: G2-1802-569-35

Luminaire Tested: **213-8LED4036-12-BK-OSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-35
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-35)
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: 213-8LED4036-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

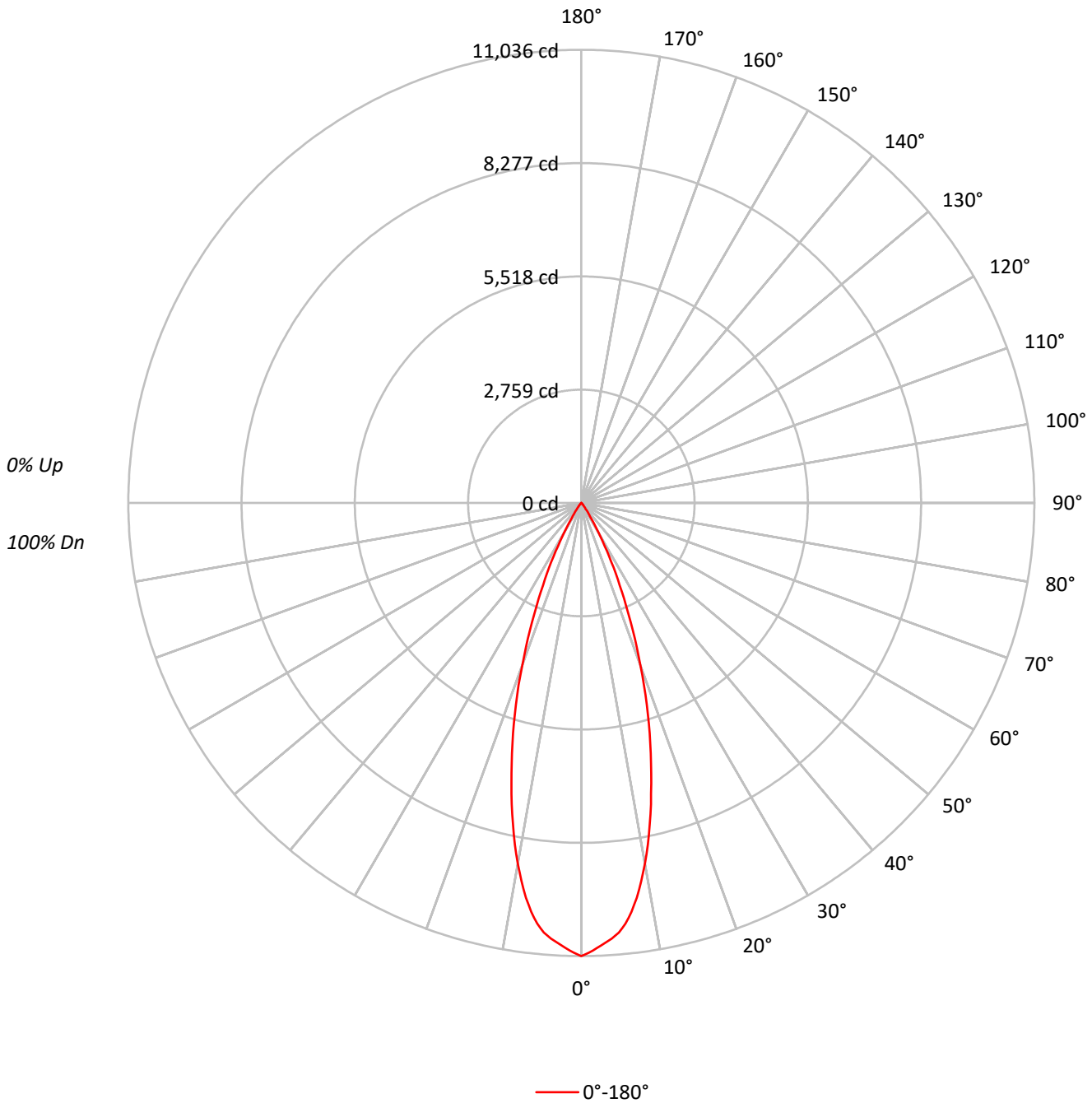
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 519.5 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.56
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (Ain): 0.680
Voltage Rise (V): NR
Power Factor: 0.9908
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 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	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	86	79	74	71	86	79	74	71	78	74	71	77	73	71	76	73	71	70
10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	74	71	68	67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5444986
5°	5201908
10°	4467084
15°	3350744
20°	2213321
25°	1205430
30°	485731
35°	142626
40°	53393
45°	24770
50°	9057
55°	10150
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.0	23.8
10°-20°	1791.3	44.8
20°-30°	1028.9	25.7
30°-40°	189.5	4.7
40°-50°	29.2	0.7
50°-60°	9.2	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°	3772.2	94.3
0°-40°	3961.6	99.0
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°	11036	
5°	10503	952
15°	6560	1791
25°	2214	1029
35°	237	189
45°	36	29
55°	12	9
65°	0	0
75°	0	0
85°	0	0
90°	0	0



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11036.1
1°	10953.2
2°	10846.7
3°	10740.1
4°	10633.5
5°	10503.3
6°	10302.0
7°	10029.6
8°	9709.9
9°	9319.1
10°	8916.5
11°	8478.4
12°	8004.8
13°	7531.0
14°	7033.7
15°	6560.0
16°	6086.4
17°	5624.6
18°	5162.8
19°	4689.1
20°	4215.5
21°	3765.5
22°	3351.1
23°	2936.6
24°	2557.7
25°	2214.3
26°	1906.4
27°	1610.4
28°	1326.2
29°	1065.7
30°	852.6
32.5°	426.3
35°	236.8
37.5°	130.3
40°	82.9
42.5°	47.4
45°	35.5
47.5°	23.7
50°	11.8
52.5°	11.8
55°	11.8
57.5°	11.8
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)