

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: G2-1802-569-29

Luminaire Tested: **213-8LED4025-12-BK-LSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-29
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-29)
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: 213-8LED4025-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

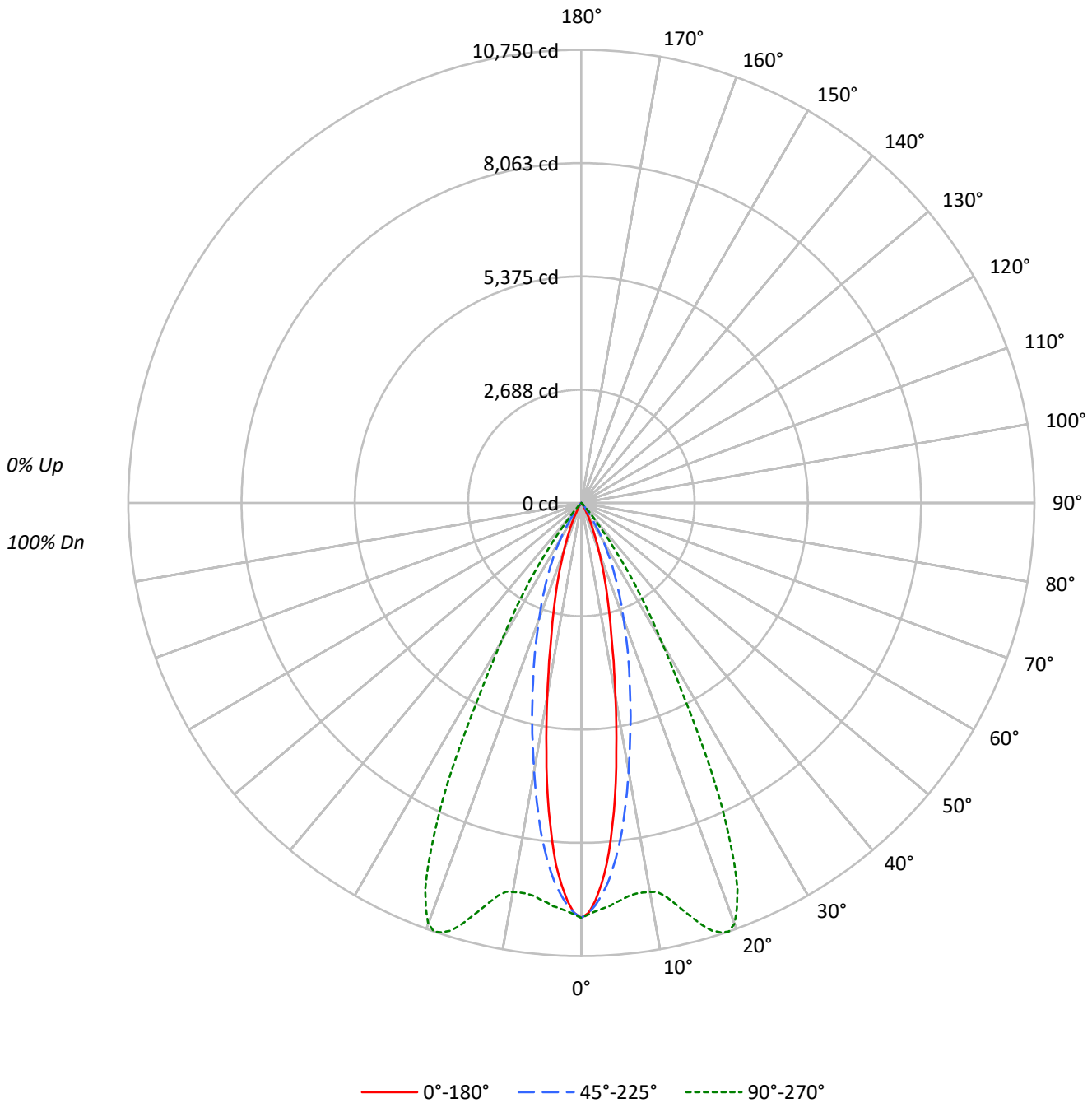
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 506.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (Ain): 0.691
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 26.9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90		94	91	89		91	89	87	86
4	101	95	90	86	99	94	89	86	91	88	85		90	86	84		88	85	83	82
5	97	90	85	81	96	89	84	81	87	83	80		86	82	80		84	81	79	78
6	93	86	81	77	92	85	80	77	84	79	76		82	79	76		81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73		79	75	72		78	74	72	71
8	86	78	73	70	85	78	73	69	77	72	69		76	72	69		75	71	69	67
9	83	75	70	66	82	74	70	66	73	69	66		73	69	66		72	68	66	65
10	80	72	67	64	79	71	67	63	71	66	63		70	66	63		69	66	63	62

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4854756	4854756	4854756
5°	3971276	4297011	4710408
10°	2338124	3237853	4695185
15°	1253260	2267524	5200446
20°	637508	1540583	5578063
25°	296036	1012119	4255015
30°	100895	569193	2176048
35°	45715	198038	967423
40°	24410	65179	252536
45°	17653	26444	44097
50°	9671	19419	19419
55°	10838	10838	10838
60°	12433	12433	12433
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.8	19.1
10°-20°	1496.1	37.4
20°-30°	1278.9	32.0
30°-40°	400.9	10.0
40°-50°	44.5	1.1
50°-60°	12.2	0.3
60°-70°	1.5	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°	3540.8	88.5
0°-40°	3941.8	98.5
0°-60°	3998.5	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°	22.5°	45°	67.5°	90°	Flux
0°	9840	9840	9840	9840	9840	
5°	8018	8158	8676	9271	9511	652
15°	2454	2846	4439	7766	10181	688
25°	544	746	1859	4629	7816	260
35°	76	101	329	1075	1606	55
45°	25	25	38	63	63	22
55°	13	13	13	13	13	11
65°	0	0	0	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9839.8	9839.8	9839.8	9839.8	9839.8
1°	9725.9	9713.3	9725.9	9751.2	9763.9
2°	9447.7	9460.4	9548.9	9650.1	9688.0
3°	9068.3	9106.2	9308.6	9548.9	9637.4
4°	8600.3	8676.2	9030.3	9422.4	9586.8
5°	8018.5	8157.7	8676.2	9270.6	9510.9
6°	7360.9	7575.9	8284.1	9093.6	9447.7
7°	6690.6	6968.8	7866.8	8929.2	9384.5
8°	5957.0	6323.8	7386.2	8714.2	9359.2
9°	5299.4	5691.4	6930.9	8549.7	9359.2
10°	4667.0	5084.4	6462.9	8372.7	9371.8
11°	4085.2	4515.2	5995.0	8195.6	9397.1
12°	3566.7	4009.3	5590.2	8031.2	9523.6
13°	3123.9	3579.3	5198.2	7930.0	9725.9
14°	2769.8	3174.5	4793.5	7841.5	9953.6
15°	2453.6	2845.7	4439.3	7765.6	10181.3
16°	2162.7	2542.1	4110.5	7626.5	10421.7
17°	1897.1	2276.5	3794.3	7500.0	10611.4
18°	1644.2	2010.9	3490.8	7335.6	10712.5
19°	1416.5	1783.3	3199.8	7107.9	10750.5
20°	1214.2	1555.6	2934.2	6842.3	10624.0
21°	1049.7	1353.3	2693.9	6538.8	10295.1
22°	885.3	1176.2	2466.2	6108.8	9890.4
23°	758.8	999.1	2251.2	5615.5	9283.3
24°	645.0	860.0	2048.9	5122.3	8562.4
25°	543.8	746.2	1859.2	4629.0	7816.2
26°	455.3	632.4	1669.5	4123.2	6930.9
27°	379.4	543.8	1492.4	3693.1	5995.0
28°	290.9	442.7	1315.3	3250.4	5122.3
29°	227.7	354.1	1163.6	2820.4	4414.0
30°	177.1	278.2	999.1	2453.6	3819.6
32.5°	113.8	164.4	632.4	1707.4	2630.7
35°	75.9	101.2	328.8	1075.0	1606.2
37.5°	63.2	75.9	177.1	556.5	771.5
40°	37.9	50.6	101.2	240.3	392.1
42.5°	37.9	37.9	63.2	113.8	139.1
45°	25.3	25.3	37.9	63.2	63.2
47.5°	25.3	25.3	25.3	37.9	50.6
50°	12.6	12.6	25.3	25.3	25.3
52.5°	12.6	12.6	12.6	12.6	12.6
55°	12.6	12.6	12.6	12.6	12.6
57.5°	12.6	12.6	12.6	12.6	12.6
60°	12.6	12.6	12.6	12.6	12.6
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)