

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: **230-8LED4025-12-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: 230-8LED4025-12-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

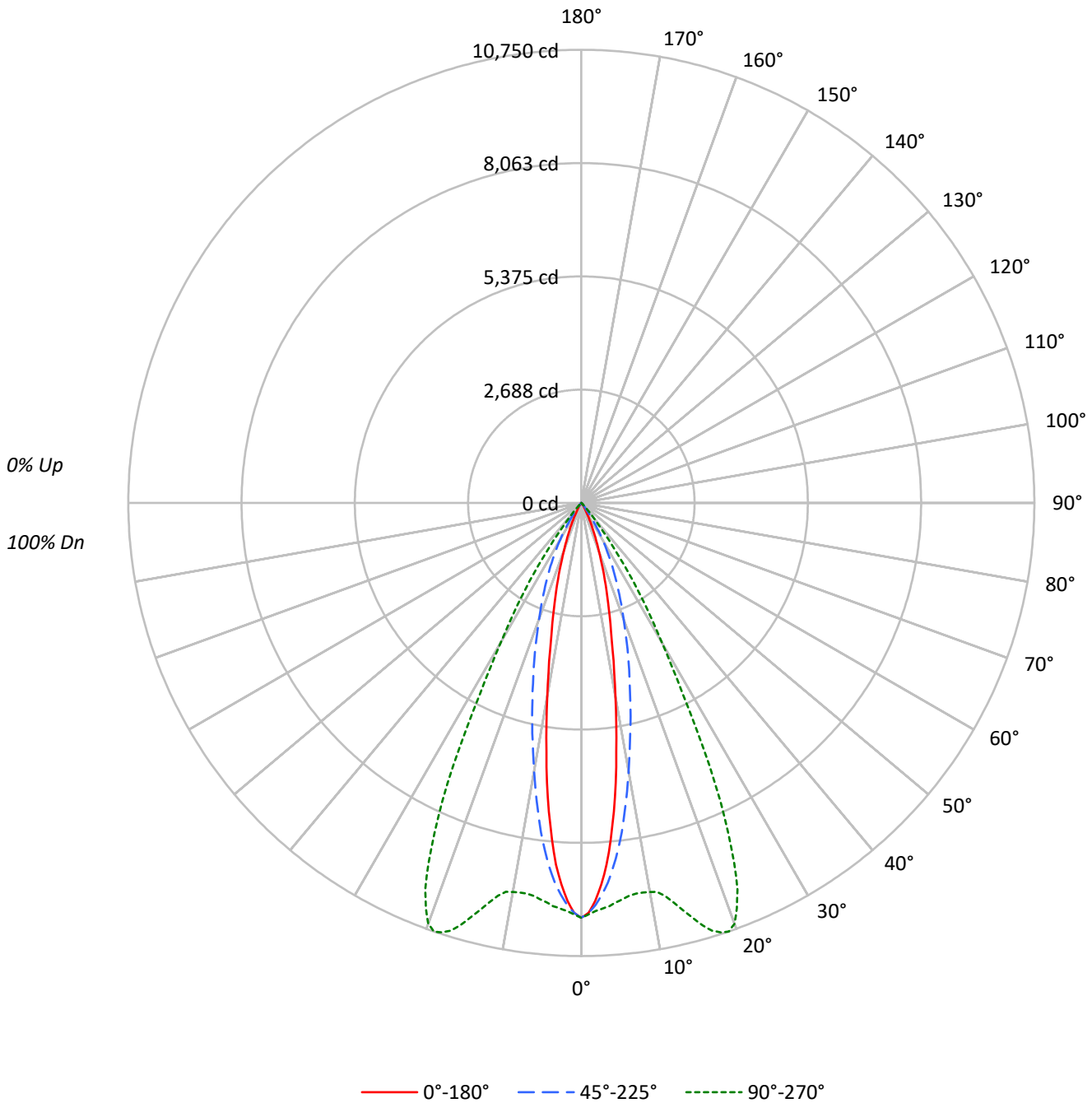
Lumens per Lamp: N/A
Luminaire Lumens: 3999.9 lumens
Efficiency: N/A
Efficacy: 506.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	4854707	4854707	4854707
5°	3971226	4296962	4710359
10°	2338074	3237803	4695135
15°	1253260	2267473	5200395
20°	637508	1540583	5577958
25°	296036	1012119	4254961
30°	100895	569193	2175991
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°	3941.7	98.5
0°-60°	3998.4	100.0
0°-90°	3999.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9840	9840	9840	9840	9840	
5°	8018	8158	8676	9270	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°	9839.7	9839.7	9839.7	9839.7	9839.7
1°	9725.8	9713.2	9725.8	9751.1	9763.8
2°	9447.6	9460.3	9548.8	9650.0	9687.9
3°	9068.2	9106.1	9308.5	9548.8	9637.3
4°	8600.2	8676.1	9030.2	9422.3	9586.7
5°	8018.4	8157.6	8676.1	9270.5	9510.8
6°	7360.8	7575.8	8284.0	9093.5	9447.6
7°	6690.5	6968.7	7866.7	8929.1	9384.4
8°	5956.9	6323.7	7386.1	8714.1	9359.1
9°	5299.3	5691.3	6930.8	8549.6	9359.1
10°	4666.9	5084.3	6462.8	8372.6	9371.7
11°	4085.1	4515.1	5994.9	8195.5	9397.0
12°	3566.6	4009.2	5590.1	8031.1	9523.5
13°	3123.9	3579.2	5198.1	7929.9	9725.8
14°	2769.8	3174.5	4793.4	7841.4	9953.5
15°	2453.6	2845.7	4439.2	7765.5	10181.2
16°	2162.7	2542.1	4110.4	7626.4	10421.5
17°	1897.1	2276.5	3794.2	7499.9	10611.2
18°	1644.2	2010.9	3490.7	7335.5	10712.3
19°	1416.5	1783.3	3199.8	7107.8	10750.3
20°	1214.2	1555.6	2934.2	6842.2	10623.8
21°	1049.7	1353.3	2693.9	6538.7	10295.0
22°	885.3	1176.2	2466.2	6108.7	9890.3
23°	758.8	999.1	2251.2	5615.4	9283.2
24°	645.0	860.0	2048.9	5122.2	8562.3
25°	543.8	746.2	1859.2	4628.9	7816.1
26°	455.3	632.4	1669.5	4123.1	6930.8
27°	379.4	543.8	1492.4	3693.0	5994.9
28°	290.9	442.7	1315.3	3250.4	5122.2
29°	227.7	354.1	1163.6	2820.4	4413.9
30°	177.1	278.2	999.1	2453.6	3819.5
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)