

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: G2-1802-569-41

Luminaire Tested: **230-8LED4025-12-CS-LSL**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-41
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-41)
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: 230-8LED4025-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

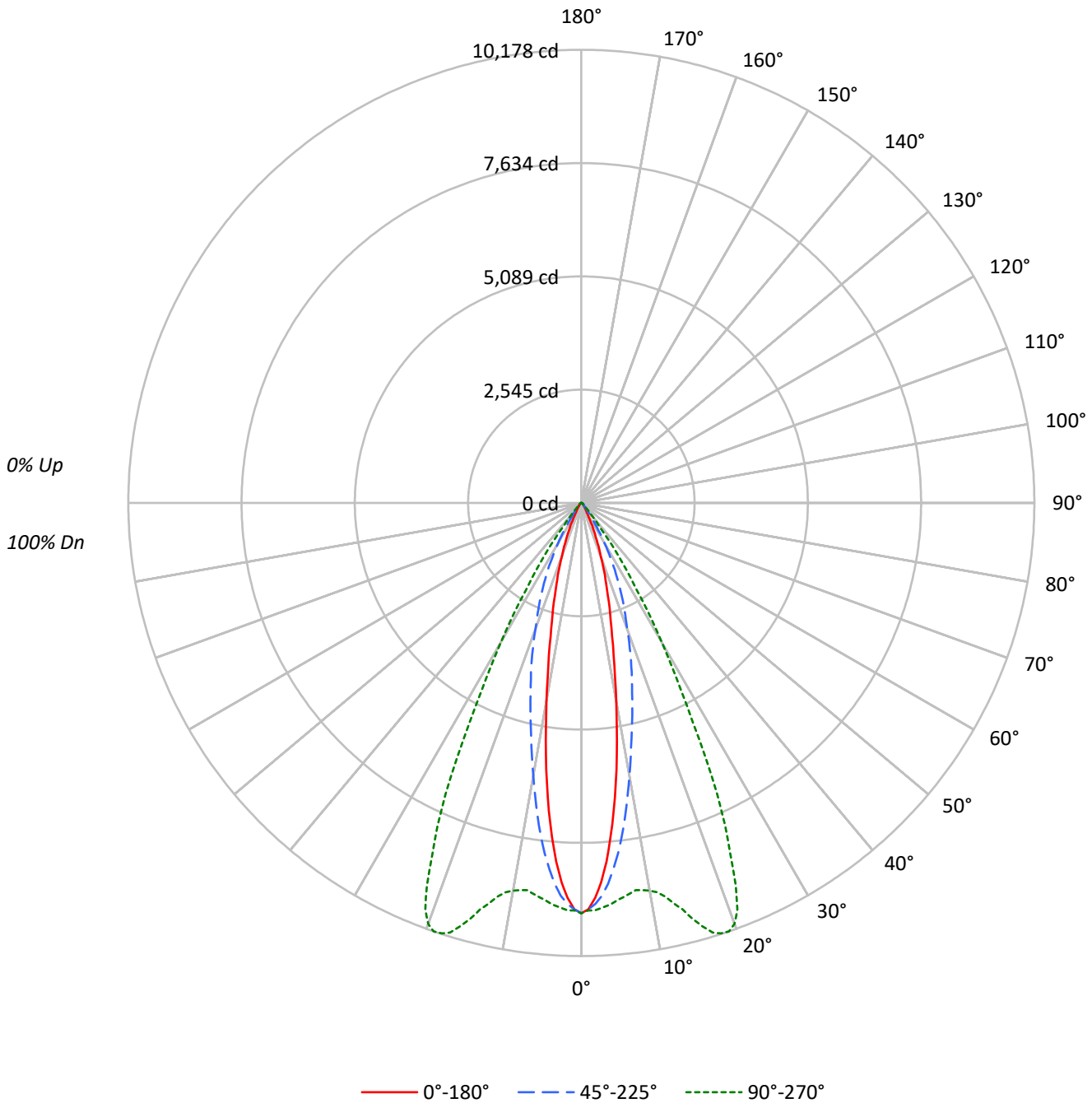
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 540.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.4
Input Voltage (V): 12.0
Input Current (Ain): 0.648
Voltage Rise (V): NR
Power Factor: 0.9912
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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4547282	4547282	4547282
5°	3733004	4088505	4444055
10°	2254158	3114709	4431213
15°	1250604	2252354	4943420
20°	679774	1588362	5283356
25°	334960	1074669	3935734
30°	131431	598818	2066721
35°	84925	216167	880149
40°	57772	90813	222910
45°	44725	53657	80520
50°	39376	49201	59026
55°	33117	33117	44127
60°	25261	25261	37990
65°	14943	29886	29886
70°	18465	18465	18465
75°	24400	24400	24400
80°	0	0	36368
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.2	18.2
10°-20°	1463.1	36.6
20°-30°	1261.2	31.5
30°-40°	401.7	10.0
40°-50°	72.7	1.8
50°-60°	39.5	1.0
60°-70°	19.9	0.5
70°-80°	12.0	0.3
80°-90°	0.7	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
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0°-30°	3453.4	86.3
0°-40°	3855.2	96.4
0°-60°	3967.3	99.2
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°	9217	9217	9217	9217	9217	
5°	7537	7819	8255	8781	8973	619
15°	2448	2974	4410	7448	9678	686
25°	615	859	1974	4461	7230	288
35°	141	167	359	1051	1461	90
45°	64	64	77	102	115	50
55°	38	38	38	51	51	34
65°	13	13	26	26	26	14
75°	13	13	13	13	13	8
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°	9216.6	9216.6	9216.6	9216.6	9216.6
1°	9126.9	9139.7	9126.9	9152.5	9152.5
2°	8870.5	8934.6	9011.5	9126.9	9152.5
3°	8524.4	8639.8	8832.1	9037.2	9101.3
4°	8075.8	8268.0	8575.7	8921.8	9050.0
5°	7537.4	7819.4	8255.2	8780.8	8973.1
6°	6960.5	7293.8	7909.1	8627.0	8909.0
7°	6345.2	6742.6	7511.7	8460.3	8844.9
8°	5730.0	6165.8	7088.7	8255.2	8780.8
9°	5089.0	5588.9	6652.9	8050.1	8806.4
10°	4499.4	5037.7	6217.1	7909.1	8844.9
11°	3961.0	4512.2	5806.9	7768.1	8909.0
12°	3499.5	4063.5	5409.5	7665.6	9037.2
13°	3063.7	3653.3	5063.4	7588.7	9229.5
14°	2730.4	3294.4	4730.1	7524.6	9408.9
15°	2448.4	2973.9	4409.6	7447.7	9678.1
16°	2166.4	2679.1	4114.8	7370.7	9896.0
17°	1910.0	2422.7	3845.6	7268.2	10088.3
18°	1704.9	2166.4	3563.6	7114.4	10165.2
19°	1474.1	1910.0	3294.4	6934.9	10178.0
20°	1294.7	1679.2	3025.2	6691.4	10062.7
21°	1128.0	1474.1	2781.7	6396.5	9780.7
22°	974.2	1294.7	2589.4	5999.1	9267.9
23°	833.2	1128.0	2384.3	5563.3	8562.9
24°	717.8	987.0	2179.2	4986.5	7947.6
25°	615.3	858.9	1974.1	4460.9	7229.7
26°	512.7	730.7	1781.8	3986.6	6396.5
27°	410.2	615.3	1589.5	3525.1	5499.2
28°	333.3	499.9	1397.2	3089.3	4781.4
29°	269.2	410.2	1217.8	2691.9	4178.9
30°	230.7	333.3	1051.1	2384.3	3627.7
32.5°	179.5	217.9	640.9	1679.2	2320.2
35°	141.0	166.6	358.9	1051.1	1461.3
37.5°	102.5	115.4	217.9	525.6	679.4
40°	89.7	102.5	141.0	256.4	346.1
42.5°	76.9	76.9	102.5	141.0	179.5
45°	64.1	64.1	76.9	102.5	115.4
47.5°	51.3	51.3	64.1	76.9	89.7
50°	51.3	51.3	64.1	64.1	76.9
52.5°	38.5	51.3	51.3	51.3	51.3
55°	38.5	38.5	38.5	51.3	51.3
57.5°	38.5	38.5	38.5	38.5	38.5
60°	25.6	25.6	25.6	38.5	38.5
62.5°	12.8	25.6	25.6	25.6	25.6
65°	12.8	12.8	25.6	25.6	25.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	12.8	12.8	12.8	12.8	25.6
70°	12.8	12.8	12.8	12.8	12.8
72.5°	12.8	12.8	12.8	12.8	12.8
75°	12.8	12.8	12.8	12.8	12.8
77.5°	0.0	12.8	12.8	12.8	12.8
80°	0.0	0.0	0.0	12.8	12.8
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)