

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: P247033

Luminaire Tested: **230-8LED2736-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247033
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2736-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 90 CRI LED
SM16-07-36D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

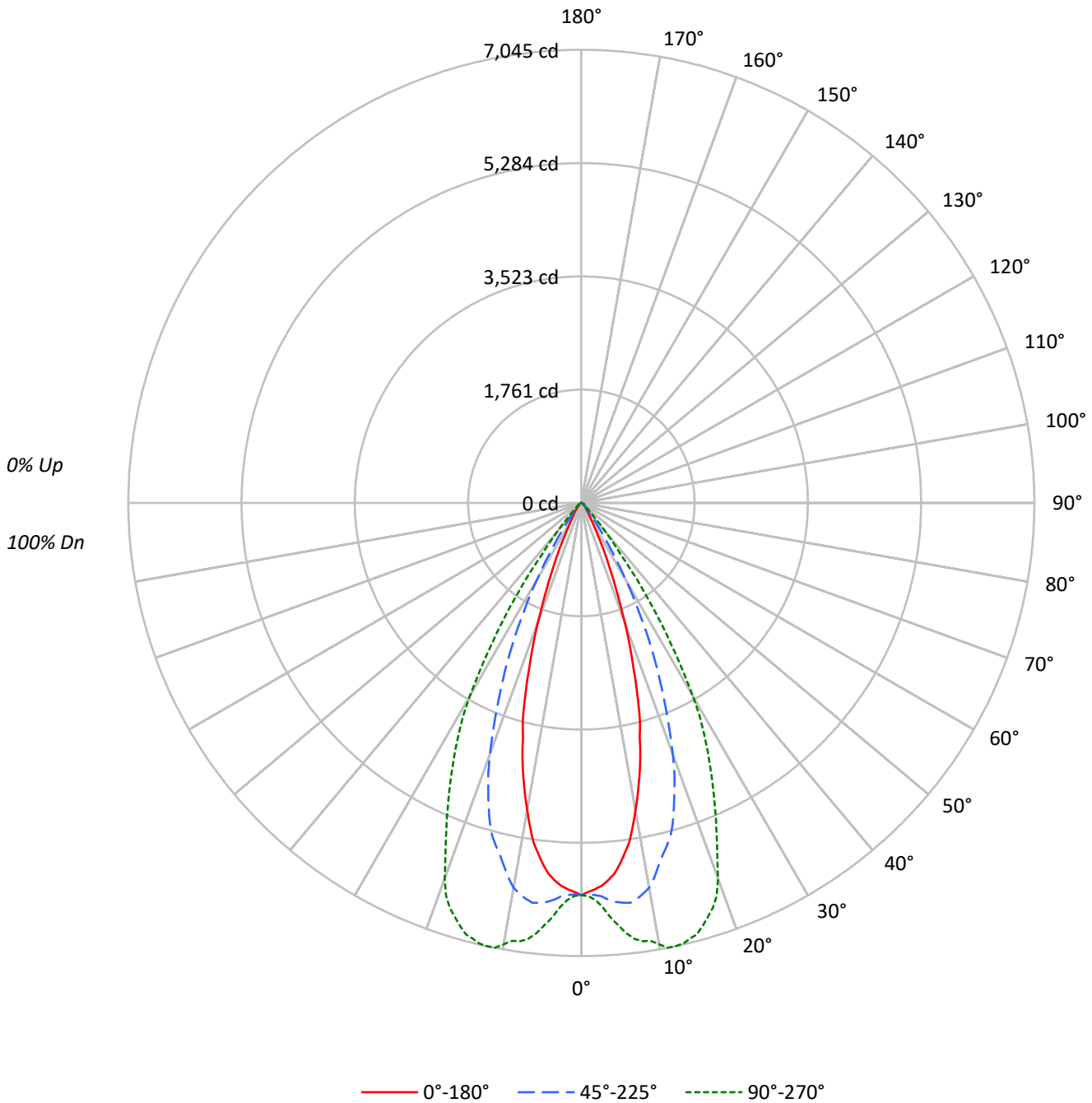
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 526.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3009171	3009171	3009171
5°	2870898	3083564	3264039
10°	2431057	3043118	3491304
15°	1796019	2735964	3546834
20°	1025620	2183919	3262463
25°	466700	1482031	2627361
30°	193472	796733	1974087
35°	113896	296033	1070116
40°	72908	121792	365440
45°	52959	70333	131943
50°	48740	58258	67853
55°	43955	43955	54621
60°	36806	36806	50423
65°	28952	28952	28952
70°	17888	17888	35775
75°	23638	23638	23638
80°	0	35232	35232
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	14.7
10°-20°	1449.1	36.2
20°-30°	1260.5	31.5
30°-40°	508.6	12.7
40°-50°	102.5	2.6
50°-60°	49.7	1.2
60°-70°	27.7	0.7
70°-80°	13.1	0.3
80°-90°	2.3	0.1
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°	3296.1	82.4
0°-40°	3804.7	95.1
0°-60°	3956.9	98.9
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°	6099	6099	6099	6099	6099	
5°	5797	5936	6226	6490	6590	523
15°	3516	4121	5356	6516	6944	936
25°	857	1172	2722	4273	4826	416
35°	189	214	492	1374	1777	122
45°	76	88	101	152	189	63
55°	51	51	51	64	64	42
65°	25	25	25	25	25	25
75°	12	12	12	12	12	11
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°	6099.1	6099.1	6099.1	6099.1	6099.1
1°	6049.4	6074.2	6086.7	6099.1	6111.5
2°	6010.7	6037.0	6099.1	6162.6	6175.0
3°	5961.0	6010.7	6125.3	6250.9	6288.2
4°	5885.1	5985.9	6187.4	6376.6	6452.5
5°	5796.7	5936.2	6226.1	6489.8	6590.5
6°	5658.7	5872.7	6250.9	6590.5	6730.0
7°	5494.4	5759.5	6263.4	6678.9	6830.7
8°	5331.5	5620.0	6213.7	6717.5	6880.4
9°	5103.7	5457.1	6150.2	6678.9	6892.9
10°	4852.5	5280.4	6074.2	6666.5	6968.8
11°	4599.8	5066.5	5936.2	6691.3	7044.7
12°	4347.2	4838.7	5771.9	6717.5	7044.7
13°	4071.1	4612.3	5620.0	6666.5	7032.3
14°	3755.0	4373.4	5494.4	6604.3	6981.2
15°	3516.2	4120.8	5356.4	6516.0	6943.9
16°	3201.4	3843.3	5167.2	6401.4	6843.2
17°	2872.8	3541.0	4927.0	6263.4	6730.0
18°	2545.7	3201.4	4688.2	6111.5	6616.8
19°	2268.2	2835.6	4448.0	5961.0	6464.9
20°	1953.4	2496.0	4159.5	5784.3	6213.7
21°	1688.4	2167.4	3855.8	5557.9	5897.5
22°	1424.7	1877.5	3553.4	5243.2	5620.0
23°	1209.3	1612.4	3263.5	4889.8	5356.4
24°	1020.2	1373.6	2987.4	4575.0	5091.3
25°	857.3	1172.1	2722.4	4272.7	4826.3
26°	705.4	982.9	2444.9	3970.3	4575.0
27°	567.4	806.2	2167.4	3705.3	4322.4
28°	466.6	668.2	1889.9	3415.4	4057.3
29°	390.7	555.0	1651.1	3113.0	3793.6
30°	339.6	454.2	1398.5	2860.4	3465.1
32.5°	238.8	302.3	857.3	2130.1	2582.9
35°	189.1	214.0	491.5	1373.6	1776.7
37.5°	138.1	164.3	289.9	781.4	995.3
40°	113.2	125.6	189.1	390.7	567.4
42.5°	100.8	100.8	138.1	226.4	289.9
45°	75.9	88.4	100.8	151.9	189.1
47.5°	63.5	75.9	88.4	100.8	113.2
50°	63.5	63.5	75.9	75.9	88.4
52.5°	51.1	63.5	63.5	63.5	75.9
55°	51.1	51.1	51.1	63.5	63.5
57.5°	37.3	37.3	51.1	51.1	51.1
60°	37.3	37.3	37.3	51.1	51.1
62.5°	24.8	24.8	37.3	37.3	37.3
65°	24.8	24.8	24.8	24.8	24.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	24.8	24.8	24.8	24.8	24.8
70°	12.4	12.4	12.4	24.8	24.8
72.5°	12.4	12.4	12.4	12.4	12.4
75°	12.4	12.4	12.4	12.4	12.4
77.5°	12.4	12.4	12.4	12.4	12.4
80°	0.0	0.0	12.4	12.4	12.4
82.5°	0.0	0.0	0.0	12.4	12.4
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)