

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: P247013

Luminaire Tested: **230-8LED2710-12-CS-LSL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247013  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-37)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 230-8LED2710-12-CS-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD SILVER, LINEAR SPREAD LENS  
Light Source: (1) SORAA 2700K 95 CRI 10° NSP LED  
SM16-07-10D-927-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

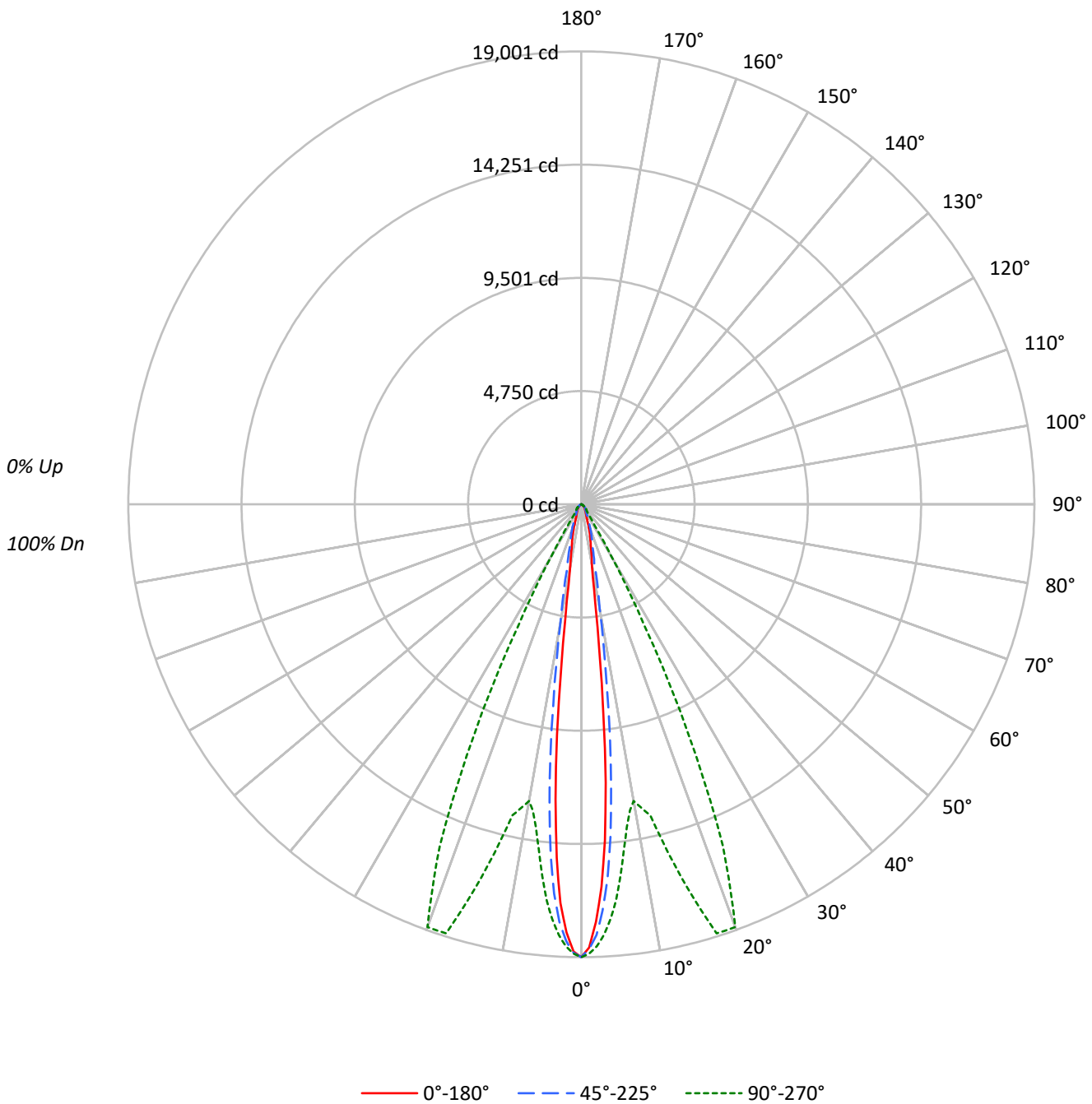
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 533.3 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.5  
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	72	71
8	87	79	74	71	86	78	74	70	77	73	70	76	73	70	76	72	70	68
9	84	76	71	68	83	75	71	68	75	70	67	74	70	67	73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	9374754	9374754	9374754
5°	5810439	8265513	6155738
10°	1269561	6330318	1340801
15°	719388	8273783	719388
20°	382494	9909934	374304
25°	250199	5774827	258691
30°	198599	1398229	207487
35°	161900	334279	171356
40°	142982	224520	142982
45°	120989	198508	120989
50°	97173	158425	97173
55°	82061	122318	82061
60°	46180	63350	46180
65°	36424	36424	18212
70°	22504	22504	22504
75°	29738	29738	29738
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1072.2	26.8
10°-20°	1371.7	34.3
20°-30°	981.5	24.5
30°-40°	254.1	6.4
40°-50°	172.3	4.3
50°-60°	102.4	2.6
60°-70°	31.2	0.8
70°-80°	14.1	0.4
80°-90°	0.5	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°	3425.3	85.6
0°-40°	3679.4	92.0
0°-60°	3954.1	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°	45°	90°	135°	180°	Flux
0°	19001	19001	19001	19001	19001	
5°	11732	14013	16689	14757	12429	749
15°	1408	1790	16198	1899	1408	394
25°	460	649	10608	664	475	222
35°	269	333	555	333	284	170
45°	173	222	284	222	173	134
55°	95	111	142	111	95	83
65°	31	31	31	31	16	27
75°	16	16	16	16	16	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19001.1	19001.1	19001.1	19001.1	19001.1	19001.1	19001.1	19001.1	19001.1
1°	18603.9	18636.9	18668.1	18763.5	18857.2	18825.9	18825.9	18857.2	18763.5
2°	17528.6	17875.5	18081.9	18350.7	18557.1	18492.9	18335.1	18224.1	17970.9
3°	16071.6	16624.9	17068.9	17733.2	18097.5	17955.2	17544.2	17164.3	16751.5
4°	14123.8	14852.3	15723.0	16878.1	17448.8	17195.5	16371.7	15549.5	14867.9
5°	11732.0	12698.1	14012.8	15802.8	16689.1	16213.8	14756.9	13426.5	12429.2
6°	8866.6	10197.0	11938.4	14408.3	15676.2	14883.5	12777.8	10878.6	9721.7
7°	6238.9	7551.9	9817.1	13046.7	14599.0	13586.1	10641.0	8169.4	6918.8
8°	4164.5	5241.6	7695.8	11669.5	13679.8	12240.2	8486.8	5732.4	4797.5
9°	3087.4	3658.0	5874.7	10514.4	12999.9	11067.7	6603.1	4037.8	3420.4
10°	2534.1	2802.9	4448.9	9579.5	12635.6	10150.1	5050.8	3024.9	2676.3
12.5°	1852.4	1963.4	2501.1	7869.3	13364.1	8439.9	2802.9	2025.9	1883.6
15°	1408.4	1472.6	1790.0	6714.1	16198.2	7331.6	1899.2	1535.0	1408.4
17.5°	1028.5	1123.9	1425.7	5621.4	18874.5	6285.7	1488.2	1155.2	1028.5
20°	728.5	823.9	1108.3	4195.7	18874.5	4877.3	1155.2	839.5	712.9
22.5°	570.6	617.5	855.1	2676.3	15516.6	3151.5	886.3	617.5	555.0
25°	459.6	490.9	648.7	1614.8	10608.0	1852.4	664.3	490.9	475.2
27.5°	395.5	411.1	522.1	1061.5	5683.9	1155.2	522.1	426.7	411.1
30°	348.6	364.2	426.7	697.3	2454.3	712.9	426.7	379.8	364.2
32.5°	300.1	333.0	364.2	506.5	1028.5	506.5	379.8	333.0	317.4
35°	268.8	300.1	333.0	395.5	555.0	395.5	333.0	300.1	284.5
37.5°	237.6	268.8	300.1	348.6	426.7	348.6	300.1	284.5	253.2
40°	222.0	237.6	268.8	300.1	348.6	317.4	268.8	253.2	222.0
42.5°	190.8	222.0	237.6	268.8	317.4	268.8	253.2	222.0	206.4
45°	173.4	190.8	222.0	237.6	284.5	253.2	222.0	206.4	173.4
47.5°	157.8	173.4	206.4	206.4	253.2	222.0	206.4	173.4	157.8
50°	126.6	157.8	173.4	190.8	206.4	190.8	173.4	142.2	126.6
52.5°	111.0	126.6	157.8	157.8	173.4	157.8	142.2	126.6	111.0
55°	95.4	111.0	111.0	126.6	142.2	126.6	111.0	95.4	95.4
57.5°	79.8	79.8	95.4	95.4	95.4	95.4	79.8	79.8	64.2
60°	46.8	64.2	64.2	64.2	64.2	64.2	64.2	46.8	46.8
62.5°	31.2	31.2	31.2	46.8	46.8	31.2	31.2	31.2	31.2
65°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	15.6
67.5°	15.6	15.6	31.2	31.2	31.2	31.2	15.6	15.6	15.6
70°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	0.0	0.0
80°	0.0	0.0	15.6	15.6	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)