

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: P246970

Luminaire Tested: **230-8LED3010-12-CS-LSL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246970  
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: 230-8LED3010-12-CS-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD SILVER, LINEAR SPREAD LENS  
Light Source: (1) SORAA 3000K 95 CRI 10° NSP LED  
SM16-07-10D-930-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

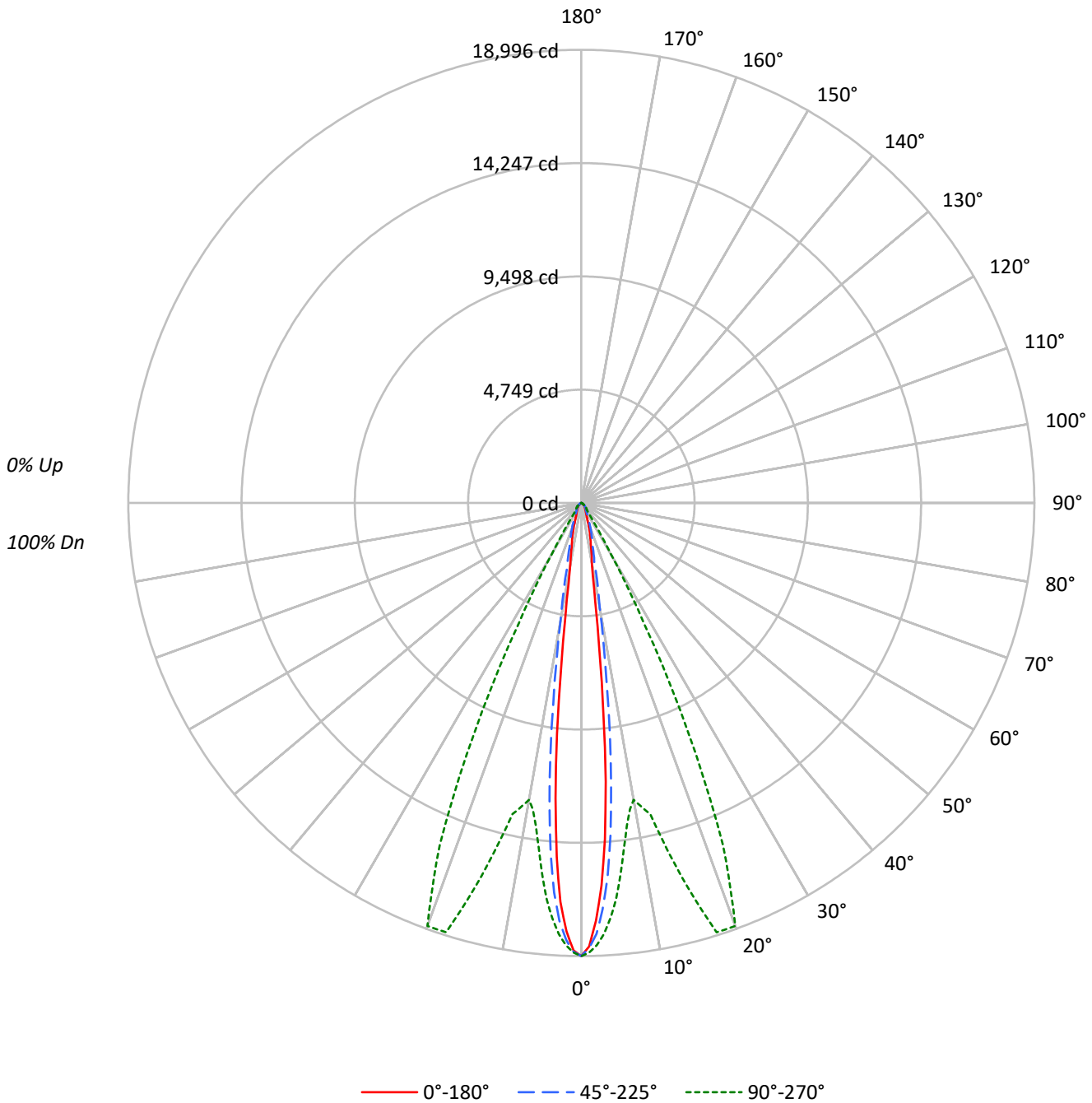
**Summary**

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	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	93	95	93	92	90				
3	105	99	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	76	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	67	65	71	67	65	64				

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

	0°	90°	180°
0°	9372386	9372386	9372386
5°	5809597	8263780	6154499
10°	1268559	6328515	1340150
15°	719644	8271893	719644
20°	382547	9907309	374094
25°	249818	5774337	258582
30°	198372	1397830	207544
35°	162381	333436	172079
40°	142595	224262	142595
45°	122105	199345	122105
50°	97327	157657	97327
55°	81373	122920	81373
60°	47562	61672	47562
65°	37475	37475	18796
70°	23225	23225	23225
75°	30691	30691	30691
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1071.9	26.8
10°-20°	1371.3	34.3
20°-30°	981.3	24.5
30°-40°	254.1	6.4
40°-50°	172.3	4.3
50°-60°	102.2	2.6
60°-70°	31.7	0.8
70°-80°	14.6	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°	3424.6	85.6
0°-40°	3678.6	92.0
0°-60°	3953.1	98.8
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°	18996	18996	18996	18996	18996	
5°	11730	14009	16686	14753	12427	748
15°	1409	1789	16194	1900	1409	394
25°	459	648	10607	664	475	222
35°	270	332	554	332	286	170
45°	175	221	286	221	175	134
55°	95	111	143	111	95	83
65°	32	32	32	32	16	28
75°	16	16	16	16	16	15
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°	18996.3	18996.3	18996.3	18996.3	18996.3	18996.3	18996.3	18996.3	18996.3
1°	18599.8	18632.0	18664.1	18758.8	18853.4	18821.3	18821.3	18853.4	18758.8
2°	17523.1	17873.1	18078.4	18346.3	18553.4	18489.1	18332.0	18221.3	17967.7
3°	16067.7	16621.3	17064.1	17730.2	18094.5	17951.6	17539.1	17160.6	16748.1
4°	14121.3	14848.1	15719.5	16874.9	17444.5	17190.9	16367.7	15544.5	14864.2
5°	11730.3	12696.3	14008.8	15798.1	16685.6	16210.6	14753.4	13423.1	12426.7
6°	8864.2	10194.6	11935.6	14405.2	15671.3	14880.2	12774.9	10874.9	9719.6
7°	6237.4	7551.7	9814.2	13044.5	14594.5	13582.0	10637.4	8167.8	6917.8
8°	4162.5	5239.2	7692.8	11666.0	13676.7	12237.4	8485.6	5730.3	4796.4
9°	3087.5	3657.1	5873.2	10510.6	12996.3	11066.0	6601.7	4037.5	3419.6
10°	2532.1	2801.8	4448.2	9576.7	12632.0	10146.3	5050.0	3023.2	2675.0
12.5°	1851.8	1962.5	2501.8	7867.8	13360.6	8437.4	2801.8	2026.8	1883.9
15°	1408.9	1471.4	1789.3	6712.4	16194.5	7328.5	1900.0	1535.7	1408.9
17.5°	1028.6	1123.2	1425.0	5619.6	18869.5	6283.9	1487.5	1155.3	1028.6
20°	728.6	823.2	1108.9	4194.6	18869.5	4875.0	1155.3	839.3	712.5
22.5°	569.6	617.9	855.4	2675.0	15514.2	3150.0	885.7	617.9	553.6
25°	458.9	491.1	648.2	1614.3	10607.1	1851.8	664.3	491.1	475.0
27.5°	396.4	410.7	523.2	1060.7	5683.9	1155.3	523.2	426.8	410.7
30°	348.2	364.3	426.8	696.4	2453.6	712.5	426.8	380.4	364.3
32.5°	300.0	332.1	364.3	507.1	1028.6	507.1	380.4	332.1	316.1
35°	269.6	300.0	332.1	396.4	553.6	396.4	332.1	300.0	285.7
37.5°	237.5	269.6	300.0	348.2	426.8	348.2	300.0	285.7	253.6
40°	221.4	237.5	269.6	300.0	348.2	316.1	269.6	253.6	221.4
42.5°	189.3	221.4	237.5	269.6	316.1	269.6	253.6	221.4	205.4
45°	175.0	189.3	221.4	237.5	285.7	253.6	221.4	205.4	175.0
47.5°	158.9	175.0	205.4	205.4	253.6	221.4	205.4	175.0	158.9
50°	126.8	158.9	175.0	189.3	205.4	189.3	175.0	142.9	126.8
52.5°	110.7	126.8	158.9	158.9	175.0	158.9	142.9	126.8	110.7
55°	94.6	110.7	110.7	126.8	142.9	126.8	110.7	94.6	94.6
57.5°	78.6	78.6	94.6	94.6	94.6	94.6	78.6	78.6	62.5
60°	48.2	62.5	62.5	62.5	62.5	62.5	62.5	48.2	48.2
62.5°	32.1	32.1	32.1	48.2	48.2	32.1	32.1	32.1	32.1
65°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	16.1
67.5°	16.1	16.1	32.1	32.1	32.1	32.1	16.1	16.1	16.1
70°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
72.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
77.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	0.0	0.0
80°	0.0	0.0	16.1	16.1	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)