

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: G2-1802-569-37

Luminaire Tested: **230-8LED4010-12-CS-LSL**

Test Date: 04/05/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-37  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-37)  
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: 230-8LED4010-12-CS-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD SILVER, LINEAR SPREAD LENS  
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED  
SM16-07-10D-940-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

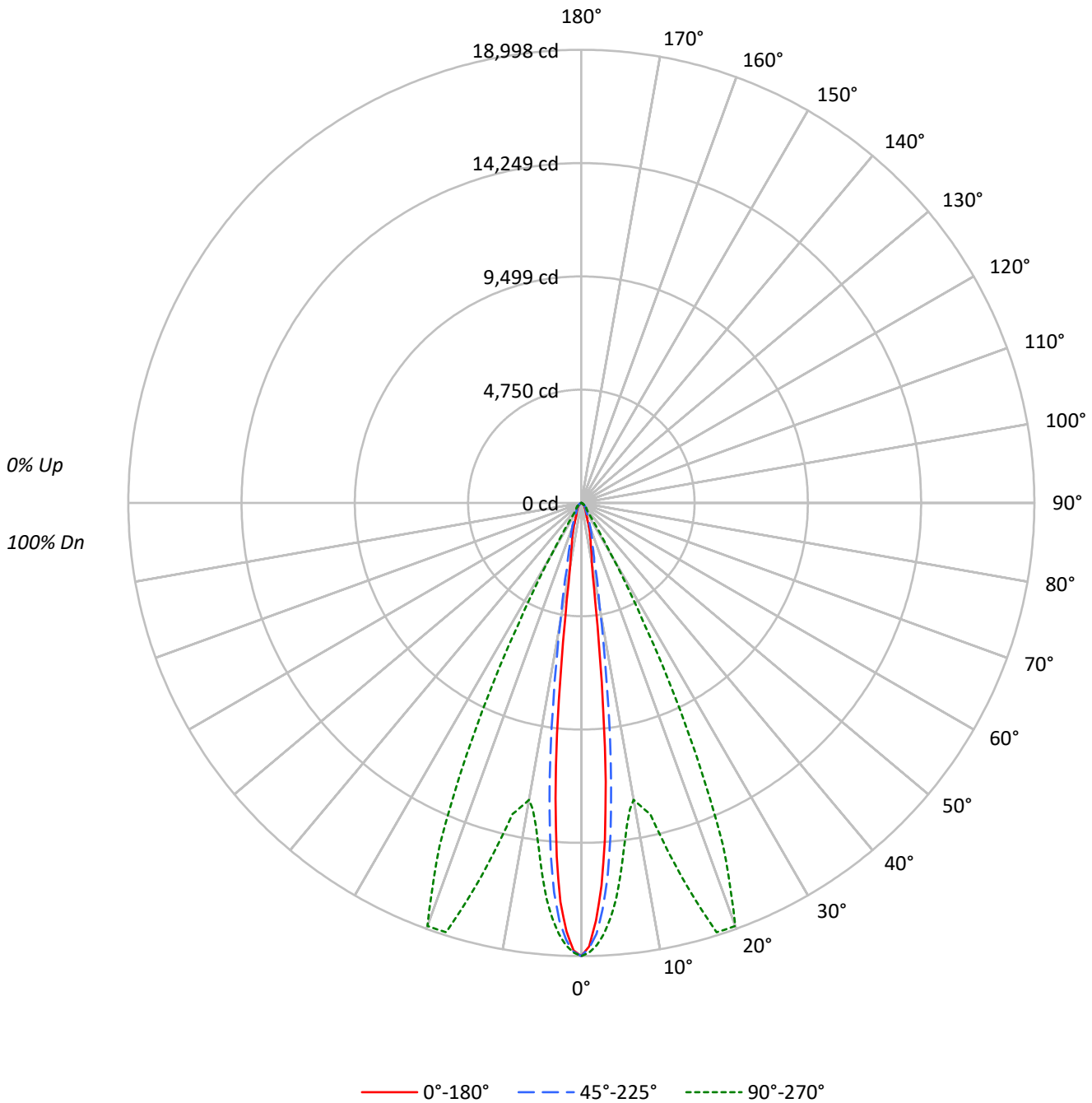
**Summary**

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): 12.0  
Input Current (Ain): 0.656  
Voltage Rise (V): NR  
Power Factor: 0.9482  
Total Harmonic Distortion (THDi): 25.7  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 9 HR  
Ambient Temperature (°C): 24.7  
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	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	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	67	65	71	67	65	64

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

	0°	90°	180°
0°	9373373	9373373	9373373
5°	5810192	8264424	6155193
10°	1269060	6329467	1340451
15°	719695	8272710	719695
20°	382389	9908464	374041
25°	249927	5774500	258582
30°	198428	1398058	207430
35°	162080	333737	171657
40°	142724	224327	142724
45°	121547	198857	121547
50°	97250	157964	97250
55°	81717	122576	81717
60°	46871	62462	46871
65°	37008	37008	18445
70°	22792	22792	22792
75°	30119	30119	30119
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1072.1	26.8
10°-20°	1371.5	34.3
20°-30°	981.4	24.5
30°-40°	254.1	6.4
40°-50°	172.3	4.3
50°-60°	102.2	2.6
60°-70°	31.5	0.8
70°-80°	14.3	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°	3425.0	85.6
0°-40°	3679.1	92.0
0°-60°	3953.7	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°	18998	18998	18998	18998	18998	
5°	11732	14011	16687	14755	12428	749
15°	1409	1789	16196	1900	1409	394
25°	459	649	10607	665	475	222
35°	269	332	554	332	285	170
45°	174	222	285	222	174	134
55°	95	111	142	111	95	83
65°	32	32	32	32	16	27
75°	16	16	16	16	16	15
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°	112.5°	135°	157.5°	180°
0°	18998.3	18998.3	18998.3	18998.3	18998.3	18998.3	18998.3	18998.3	18998.3
1°	18602.5	18634.2	18665.9	18760.9	18855.9	18824.2	18824.2	18855.9	18760.9
2°	17526.0	17874.3	18080.1	18349.2	18555.1	18491.7	18333.4	18222.6	17969.3
3°	16069.4	16623.6	17066.8	17731.8	18095.9	17953.4	17541.8	17161.8	16750.2
4°	14122.1	14850.4	15721.1	16876.9	17446.8	17193.5	16370.2	15547.0	14866.2
5°	11731.5	12697.2	14011.3	15800.3	16686.9	16211.9	14755.4	13425.5	12428.1
6°	8865.9	10195.8	11937.3	14407.1	15673.6	14882.0	12776.4	10876.6	9720.8
7°	6237.8	7551.8	9815.8	13045.5	14597.1	13583.8	10639.1	8169.3	6918.6
8°	4163.8	5240.4	7694.3	11668.2	13678.8	12238.1	8485.9	5731.2	4797.1
9°	3087.2	3657.2	5873.7	10512.4	12998.0	11066.5	6601.9	4037.1	3419.7
10°	2533.1	2802.3	4448.8	9578.3	12633.9	10148.3	5050.4	3023.9	2675.6
12.5°	1852.3	1963.2	2501.4	7868.5	13362.2	8438.4	2802.3	2026.5	1884.0
15°	1409.0	1472.4	1789.0	6712.7	16196.1	7330.2	1899.8	1535.7	1409.0
17.5°	1029.1	1124.1	1424.9	5620.3	18871.7	6285.3	1488.2	1155.7	1029.1
20°	728.3	823.3	1108.2	4195.5	18871.7	4876.2	1155.7	839.1	712.4
22.5°	570.0	617.4	854.9	2675.6	15515.3	3150.6	886.6	617.4	554.1
25°	459.1	490.8	649.1	1614.9	10607.4	1852.3	664.9	490.8	475.0
27.5°	395.8	411.6	522.5	1060.7	5683.7	1155.7	522.5	427.5	411.6
30°	348.3	364.1	427.5	696.6	2454.0	712.4	427.5	380.0	364.1
32.5°	300.8	332.5	364.1	506.6	1029.1	506.6	380.0	332.5	316.6
35°	269.1	300.8	332.5	395.8	554.1	395.8	332.5	300.8	285.0
37.5°	237.5	269.1	300.8	348.3	427.5	348.3	300.8	285.0	253.3
40°	221.6	237.5	269.1	300.8	348.3	316.6	269.1	253.3	221.6
42.5°	190.0	221.6	237.5	269.1	316.6	269.1	253.3	221.6	205.8
45°	174.2	190.0	221.6	237.5	285.0	253.3	221.6	205.8	174.2
47.5°	158.3	174.2	205.8	205.8	253.3	221.6	205.8	174.2	158.3
50°	126.7	158.3	174.2	190.0	205.8	190.0	174.2	142.5	126.7
52.5°	110.8	126.7	158.3	158.3	174.2	158.3	142.5	126.7	110.8
55°	95.0	110.8	110.8	126.7	142.5	126.7	110.8	95.0	95.0
57.5°	79.2	79.2	95.0	95.0	95.0	95.0	79.2	79.2	63.3
60°	47.5	63.3	63.3	63.3	63.3	63.3	63.3	47.5	47.5
62.5°	31.7	31.7	31.7	47.5	47.5	31.7	31.7	31.7	31.7
65°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	15.8
67.5°	15.8	15.8	31.7	31.7	31.7	31.7	15.8	15.8	15.8
70°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
72.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
77.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	0.0	0.0
80°	0.0	0.0	15.8	15.8	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)