

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: G2-1802-569-25

Luminaire Tested: **203-SS-8LED4010-12-BK-LSL**

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-25  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 04/06/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 203-SS-8LED4010-12-BK-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, 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**

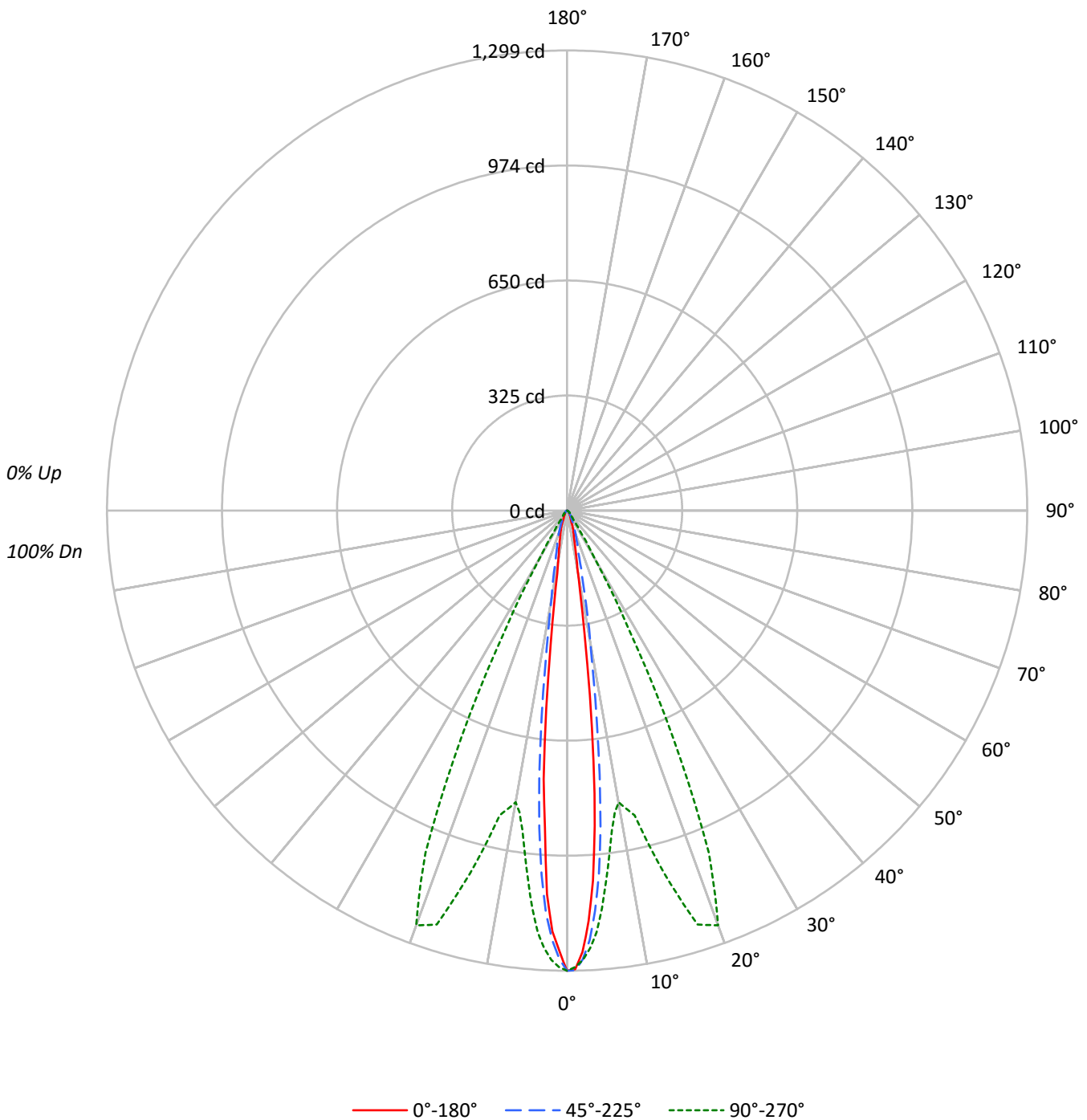
Lumens per Lamp: N/A  
Luminaire Lumens: 253.1 lumens  
Efficiency: N/A  
Efficacy: 31.6 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): 12.0  
Input Current (A<sub>in</sub>): 0.709  
Voltage Rise (V): NR  
Power Factor: 0.9468  
Total Harmonic Distortion (THDi): 27.5  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 9 HR  
Ambient Temperature (°C): 24.9  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91					91			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87					87			
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84					84			
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80					80			
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	81	78	77					77			
7	92	85	80	77	91	84	79	76	83	79	76	82	78	76	81	78	75	74					74			
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71					71			
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69					69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67					67			

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

	0°	90°	180°
0°	640900	640900	640900
5°	442271	558163	376896
10°	82162	418828	71141
15°	36776	541942	38820
20°	18902	654204	23627
25°	11976	384335	12521
30°	8546	86595	9685
35°	6625	18069	7228
40°	5152	10949	5797
45°	4186	8373	4884
50°	3070	6140	3838
55°	2581	4301	3441
60°	987	987	1974
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	28.3
10°-20°	90.9	35.9
20°-30°	67.8	26.8
30°-40°	12.7	5.0
40°-50°	6.7	2.6
50°-60°	3.2	1.3
60°-70°	0.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	230.3	91.0
0°-40°	243.0	96.0
0°-60°	252.8	99.9
0°-90°	253.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1299	1299	1299	1299	1299	
5°	893	1030	1127	900	761	57
15°	72	123	1061	112	76	22
25°	22	38	706	40	23	10
35°	11	15	30	15	12	7
45°	6	8	12	8	7	5
55°	3	3	5	4	4	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	1299	1299	1299	1299	1299	1299	1299	1299	1299
1°	1295	1299	1298	1297	1289	1277	1266	1255	1245
2°	1247	1262	1268	1276	1269	1246	1213	1187	1189
3°	1160	1196	1214	1241	1237	1198	1138	1086	1084
4°	1047	1093	1133	1190	1193	1132	1031	947	897
5°	893	958	1030	1119	1127	1049	900	778	761
6°	712	799	901	1027	1052	943	750	586	562
7°	526	623	752	931	977	841	589	409	383
8°	350	444	602	832	909	742	446	277	257
9°	233	298	470	752	862	663	336	197	180
10°	164	202	374	694	836	603	257	154	142
12.5°	101	114	198	595	881	486	158	107	100
15°	72	82	123	549	1061	421	112	82	76
17.5°	54	62	91	522	1225	375	87	64	59
20°	36	43	69	461	1246	308	68	51	45
22.5°	27	31	52	333	1046	216	52	37	30
25°	22	24	38	187	706	126	40	27	23
27.5°	18	20	28	92	370	74	29	21	20
30°	15	16	22	48	152	43	23	18	17
32.5°	12	14	18	29	61	28	18	15	14
35°	11	12	15	21	30	20	15	13	12
37.5°	9	11	13	16	21	16	13	12	11
40°	8	9	11	14	17	14	11	10	9
42.5°	7	8	10	11	14	11	10	9	8
45°	6	7	8	10	12	10	8	8	7
47.5°	5	6	7	8	10	8	7	6	6
50°	4	5	6	7	8	7	6	5	5
52.5°	3	4	5	5	6	5	5	4	4
55°	3	3	3	4	5	4	4	3	4
57.5°	2	2	2	2	2	2	3	3	3
60°	1	1	1	1	1	1	2	2	2
62.5°	0	0	0	0	1	1	1	1	1
65°	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)