

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: P277723

Luminaire Tested: **203-SS-8LED2710-12-BK-LSL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277723  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-25)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 203-SS-8LED2710-12-BK-LSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, 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**

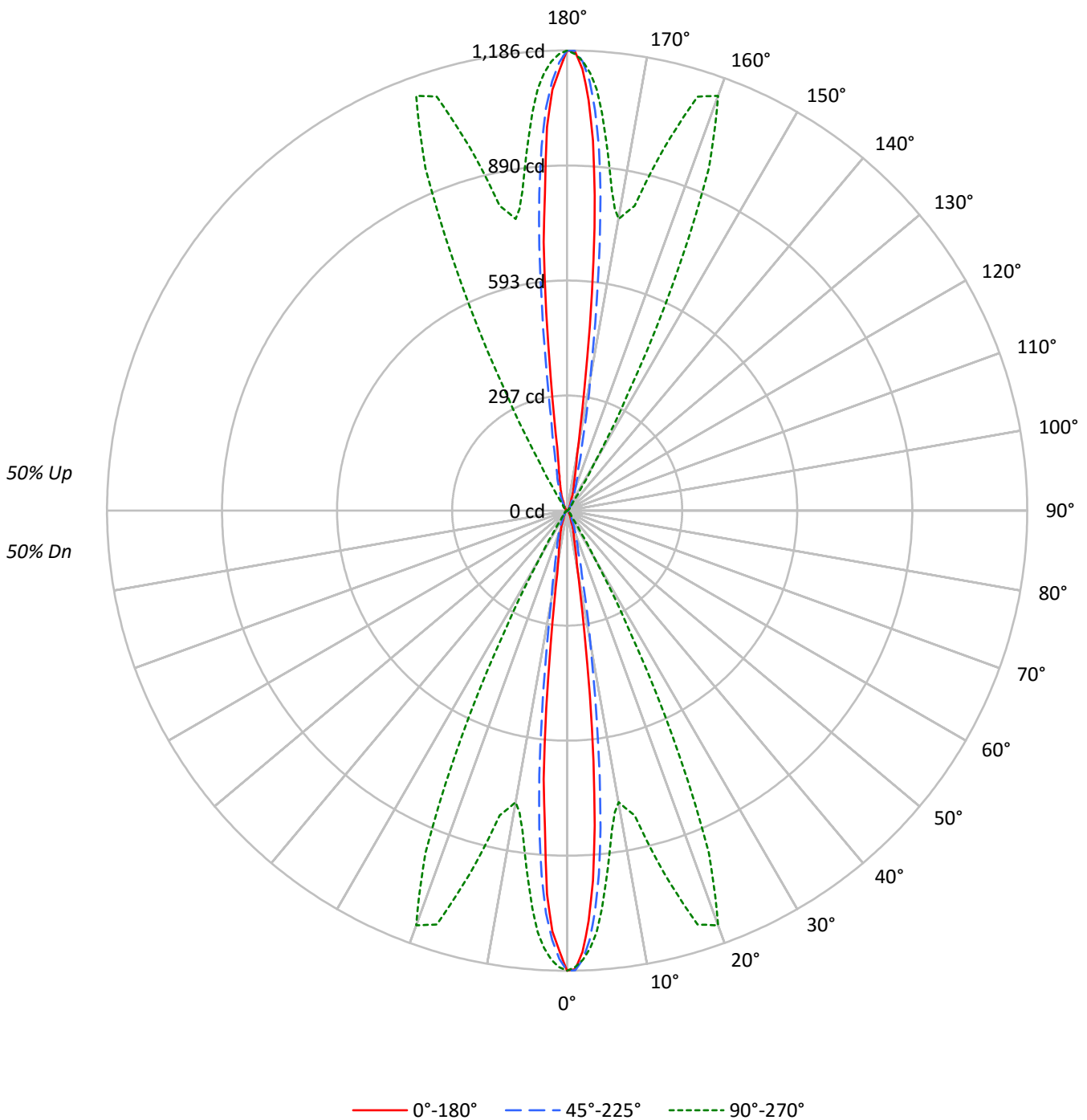
Lumens per Lamp: N/A  
Luminaire Lumens: 462.2 lumens  
Efficiency: N/A  
Efficacy: 28.7 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	56	70	63	57	53	56	52	49	50	47	45	44	42	41	39				
7	71	62	56	52	67	59	54	50	53	49	46	48	45	43	43	41	39	37				
8	68	58	52	48	64	56	50	47	50	47	44	46	43	41	41	39	38	36				
9	65	55	49	46	61	53	48	44	48	44	41	44	41	39	40	38	36	34				
10	62	52	47	43	58	50	45	42	46	42	40	42	39	37	38	36	35	33				

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

	0°	90°	180°
0°	585049	585049	585049
5°	403739	509528	344060
10°	74998	382356	64928
15°	33559	494745	35448
20°	17274	597237	21579
25°	10942	350856	11432
30°	7805	79075	8830
35°	6023	16503	6625
40°	4702	9983	5281
45°	3838	7675	4466
50°	2840	5603	3531
55°	2322	3957	3183
60°	888	888	1776
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°	65.4	14.1
10°-20°	83.0	18.0
20°-30°	61.9	13.4
30°-40°	11.6	2.5
40°-50°	6.1	1.3
50°-60°	2.9	0.6
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°	0.4	0.1
120°-130°	2.9	0.6
130°-140°	6.1	1.3
140°-150°	11.6	2.5
150°-160°	61.9	13.4
160°-170°	83.0	18.0
170°-180°	65.4	14.1
0°-30°	210.3	45.5
0°-40°	221.8	48.0
0°-60°	230.8	49.9
0°-90°	231.1	50.0
90°-120°	0.4	0.1
90°-150°	21.0	4.5
90°-180°	231.0	50.0
0°-180°	462.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1186	1186	1186	1186	1186	
5°	815	940	1029	822	695	52
15°	66	112	969	102	69	20
25°	20	35	644	36	21	10
35°	10	14	27	14	11	6
45°	6	7	11	7	6	4
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
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	3	3	5	4	4	2
135°	6	7	11	7	6	4
145°	10	14	27	14	11	6
155°	20	35	644	36	21	10
165°	66	112	969	102	69	20
175°	815	940	1029	822	695	52
180°	1186	1186	1186	1186	1186	



TEST NUMBER: P277723

CATALOG NUMBER: 203-SS-8LED2710-12-BK-LSL

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8
1°	1182.2	1185.8	1184.9	1184.0	1176.7	1165.8	1155.7	1145.7	1136.5
2°	1138.4	1152.1	1157.5	1164.8	1158.5	1137.5	1107.3	1083.6	1085.4
3°	1058.9	1091.8	1108.2	1132.9	1129.2	1093.6	1038.9	991.4	989.6
4°	955.8	997.8	1034.3	1086.3	1089.1	1033.4	941.2	864.5	818.9
5°	815.2	874.5	940.3	1021.5	1028.8	957.6	821.6	710.2	694.7
6°	650.0	729.4	822.5	937.5	960.4	860.9	684.7	535.0	513.0
7°	480.2	568.7	686.5	849.9	891.9	767.7	537.7	373.4	349.6
8°	319.5	405.3	549.6	759.5	829.8	677.4	407.1	252.9	234.6
9°	212.7	272.0	429.1	686.5	786.9	605.2	306.7	179.8	164.3
10°	149.7	184.4	341.4	633.5	763.2	550.5	234.6	140.6	129.6
12.5°	92.2	104.1	180.8	543.2	804.3	443.7	144.2	97.7	91.3
15°	65.7	74.9	112.3	501.2	968.6	384.3	102.2	74.9	69.4
17.5°	49.3	56.6	83.1	476.5	1118.3	342.3	79.4	58.4	53.9
20°	32.9	39.3	63.0	420.8	1137.5	281.2	62.1	46.6	41.1
22.5°	24.6	28.3	47.5	304.0	954.9	197.2	47.5	33.8	27.4
25°	20.1	21.9	34.7	170.7	644.5	115.0	36.5	24.6	21.0
27.5°	16.4	18.3	25.6	84.0	337.8	67.6	26.5	19.2	18.3
30°	13.7	14.6	20.1	43.8	138.8	39.3	21.0	16.4	15.5
32.5°	11.0	12.8	16.4	26.5	55.7	25.6	16.4	13.7	12.8
35°	10.0	11.0	13.7	19.2	27.4	18.3	13.7	11.9	11.0
37.5°	8.2	10.0	11.9	14.6	19.2	14.6	11.9	11.0	10.0
40°	7.3	8.2	10.0	12.8	15.5	12.8	10.0	9.1	8.2
42.5°	6.4	7.3	9.1	10.0	12.8	10.0	9.1	8.2	7.3
45°	5.5	6.4	7.3	9.1	11.0	9.1	7.3	7.3	6.4
47.5°	4.6	5.5	6.4	7.3	9.1	7.3	6.4	5.5	5.5
50°	3.7	4.6	5.5	6.4	7.3	6.4	5.5	4.6	4.6
52.5°	2.7	3.7	4.6	4.6	5.5	4.6	4.6	3.7	3.7
55°	2.7	2.7	2.7	3.7	4.6	3.7	3.7	2.7	3.7
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
60°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
62.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
120°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
122.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
125°	2.7	2.7	2.7	3.7	4.6	3.7	3.7	2.7	3.7
127.5°	2.7	3.7	4.6	4.6	5.5	4.6	4.6	3.7	3.7
130°	3.7	4.6	5.5	6.4	7.3	6.4	5.5	4.6	4.6
132.5°	4.6	5.5	6.4	7.3	9.1	7.3	6.4	5.5	5.5
135°	5.5	6.4	7.3	9.1	11.0	9.1	7.3	7.3	6.4
137.5°	6.4	7.3	9.1	10.0	12.8	10.0	9.1	8.2	7.3
140°	7.3	8.2	10.0	12.8	15.5	12.8	10.0	9.1	8.2
142.5°	8.2	10.0	11.9	14.6	19.2	14.6	11.9	11.0	10.0
145°	10.0	11.0	13.7	19.2	27.4	18.3	13.7	11.9	11.0
147.5°	11.0	12.8	16.4	26.5	55.7	25.6	16.4	13.7	12.8
150°	13.7	14.6	20.1	43.8	138.8	39.3	21.0	16.4	15.5
152.5°	16.4	18.3	25.6	84.0	337.8	67.6	26.5	19.2	18.3
155°	20.1	21.9	34.7	170.7	644.5	115.0	36.5	24.6	21.0
157.5°	24.6	28.3	47.5	304.0	954.9	197.2	47.5	33.8	27.4
160°	32.9	39.3	63.0	420.8	1137.5	281.2	62.1	46.6	41.1
162.5°	49.3	56.6	83.1	476.5	1118.3	342.3	79.4	58.4	53.9
165°	65.7	74.9	112.3	501.2	968.6	384.3	102.2	74.9	69.4
167.5°	92.2	104.1	180.8	543.2	804.3	443.7	144.2	97.7	91.3
170°	149.7	184.4	341.4	633.5	763.2	550.5	234.6	140.6	129.6
171°	212.7	272.0	429.1	686.5	786.9	605.2	306.7	179.8	164.3
172°	319.5	405.3	549.6	759.5	829.8	677.4	407.1	252.9	234.6
173°	480.2	568.7	686.5	849.9	891.9	767.7	537.7	373.4	349.6
174°	650.0	729.4	822.5	937.5	960.4	860.9	684.7	535.0	513.0
175°	815.2	874.5	940.3	1021.5	1028.8	957.6	821.6	710.2	694.7
176°	955.8	997.8	1034.3	1086.3	1089.1	1033.4	941.2	864.5	818.9
177°	1058.9	1091.8	1108.2	1132.9	1129.2	1093.6	1038.9	991.4	989.6
178°	1138.4	1152.1	1157.5	1164.8	1158.5	1137.5	1107.3	1083.6	1085.4
179°	1182.2	1185.8	1184.9	1184.0	1176.7	1165.8	1155.7	1145.7	1136.5
180°	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8

(END OF REPORT)