

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: P277728

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277728
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: 203-SS-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: 461.2 lumens
Efficiency: N/A
Efficacy: 31.0 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

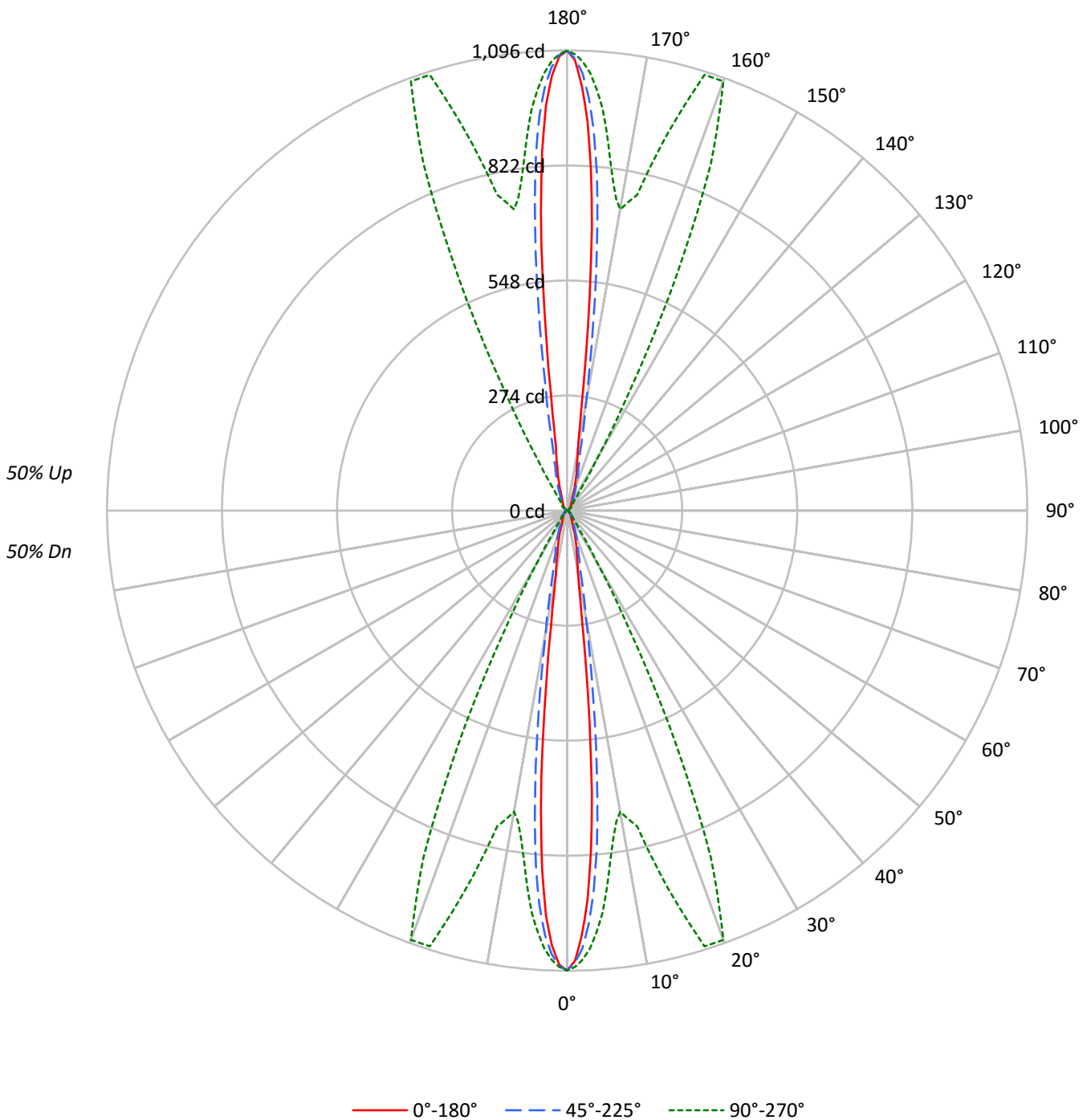
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	47
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	72	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	65	77	71	65	61	62	58	55		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	55	50	66	58	52	48	52	48	45		46	44	41		41	39	38	36
8	67	57	51	47	63	54	49	45	49	45	42		44	41	39		40	38	36	34
9	63	54	48	44	60	51	46	43	47	43	40		42	39	37		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	540497	540497	540497
5°	334997	476543	354906
10°	73195	364972	77303
15°	41476	477021	41476
20°	22052	571352	21579
25°	14426	332945	14916
30°	11451	80613	11964
35°	9336	19274	9878
40°	8244	12946	8244
45°	6977	11443	6977
50°	5603	9134	5603
55°	4731	7053	4731
60°	2664	3651	2664
65°	2101	2101	1051
70°	1298	1298	1298
75°	1716	1716	1716
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	13.4
10°-20°	79.1	17.1
20°-30°	56.6	12.3
30°-40°	14.6	3.2
40°-50°	9.9	2.2
50°-60°	5.9	1.3
60°-70°	1.8	0.4
70°-80°	0.8	0.2
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.8	0.2
110°-120°	1.8	0.4
120°-130°	5.9	1.3
130°-140°	9.9	2.2
140°-150°	14.6	3.2
150°-160°	56.6	12.3
160°-170°	79.1	17.1
170°-180°	61.8	13.4
0°-30°	197.5	42.8
0°-40°	212.1	46.0
0°-60°	228.0	49.4
0°-90°	230.6	50.0
90°-120°	2.6	0.6
90°-150°	33.1	7.2
90°-180°	231.0	50.1
0°-180°	461.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1096	1096	1096	1096	1096	
5°	676	808	962	851	717	43
15°	81	103	934	110	81	23
25°	26	37	612	38	27	13
35°	16	19	32	19	16	10
45°	10	13	16	13	10	8
55°	6	6	8	6	6	5
65°	2	2	2	2	1	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	1	1	1	1	1	1
115°	2	2	2	2	1	2
125°	6	6	8	6	6	5
135°	10	13	16	13	10	8
145°	16	19	32	19	16	10
155°	26	37	612	38	27	13
165°	81	103	934	110	81	23
175°	676	808	962	851	717	43
180°	1096	1096	1096	1096	1096	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5
1°	1072.6	1074.5	1076.3	1081.8	1087.2	1085.4	1085.4	1087.2	1081.8
2°	1010.6	1030.6	1042.5	1058.0	1069.9	1066.2	1057.1	1050.7	1036.1
3°	926.6	958.5	984.1	1022.4	1043.4	1035.2	1011.5	989.6	965.8
4°	814.3	856.3	906.5	973.1	1006.0	991.4	943.9	896.5	857.2
5°	676.4	732.1	807.9	911.1	962.2	934.8	850.8	774.1	716.6
6°	511.2	587.9	688.3	830.7	903.8	858.1	736.7	627.2	560.5
7°	359.7	435.4	566.0	752.2	841.7	783.3	613.5	471.0	398.9
8°	240.1	302.2	443.7	672.8	788.7	705.7	489.3	330.5	276.6
9°	178.0	210.9	338.7	606.2	749.5	638.1	380.7	232.8	197.2
10°	146.1	161.6	256.5	552.3	728.5	585.2	291.2	174.4	154.3
12.5°	106.8	113.2	144.2	453.7	770.5	486.6	161.6	116.8	108.6
15°	81.2	84.9	103.2	387.1	933.9	422.7	109.5	88.5	81.2
17.5°	59.3	64.8	82.2	324.1	1088.2	362.4	85.8	66.6	59.3
20°	42.0	47.5	63.9	241.9	1088.2	281.2	66.6	48.4	41.1
22.5°	32.9	35.6	49.3	154.3	894.6	181.7	51.1	35.6	32.0
25°	26.5	28.3	37.4	93.1	611.6	106.8	38.3	28.3	27.4
27.5°	22.8	23.7	30.1	61.2	327.7	66.6	30.1	24.6	23.7
30°	20.1	21.0	24.6	40.2	141.5	41.1	24.6	21.9	21.0
32.5°	17.3	19.2	21.0	29.2	59.3	29.2	21.9	19.2	18.3
35°	15.5	17.3	19.2	22.8	32.0	22.8	19.2	17.3	16.4
37.5°	13.7	15.5	17.3	20.1	24.6	20.1	17.3	16.4	14.6
40°	12.8	13.7	15.5	17.3	20.1	18.3	15.5	14.6	12.8
42.5°	11.0	12.8	13.7	15.5	18.3	15.5	14.6	12.8	11.9
45°	10.0	11.0	12.8	13.7	16.4	14.6	12.8	11.9	10.0
47.5°	9.1	10.0	11.9	11.9	14.6	12.8	11.9	10.0	9.1
50°	7.3	9.1	10.0	11.0	11.9	11.0	10.0	8.2	7.3
52.5°	6.4	7.3	9.1	9.1	10.0	9.1	8.2	7.3	6.4
55°	5.5	6.4	6.4	7.3	8.2	7.3	6.4	5.5	5.5
57.5°	4.6	4.6	5.5	5.5	5.5	5.5	4.6	4.6	3.7
60°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7
62.5°	1.8	1.8	1.8	2.7	2.7	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.9
67.5°	0.9	0.9	1.8	1.8	1.8	1.8	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
80°	0.0	0.0	0.9	0.9	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	0.9	0.9	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
105°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
110°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
112.5°	0.9	0.9	1.8	1.8	1.8	1.8	0.9	0.9	0.9
115°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.9
117.5°	1.8	1.8	1.8	2.7	2.7	1.8	1.8	1.8	1.8
120°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7
122.5°	4.6	4.6	5.5	5.5	5.5	5.5	4.6	4.6	3.7
125°	5.5	6.4	6.4	7.3	8.2	7.3	6.4	5.5	5.5
127.5°	6.4	7.3	9.1	9.1	10.0	9.1	8.2	7.3	6.4
130°	7.3	9.1	10.0	11.0	11.9	11.0	10.0	8.2	7.3
132.5°	9.1	10.0	11.9	11.9	14.6	12.8	11.9	10.0	9.1
135°	10.0	11.0	12.8	13.7	16.4	14.6	12.8	11.9	10.0
137.5°	11.0	12.8	13.7	15.5	18.3	15.5	14.6	12.8	11.9
140°	12.8	13.7	15.5	17.3	20.1	18.3	15.5	14.6	12.8
142.5°	13.7	15.5	17.3	20.1	24.6	20.1	17.3	16.4	14.6
145°	15.5	17.3	19.2	22.8	32.0	22.8	19.2	17.3	16.4
147.5°	17.3	19.2	21.0	29.2	59.3	29.2	21.9	19.2	18.3
150°	20.1	21.0	24.6	40.2	141.5	41.1	24.6	21.9	21.0
152.5°	22.8	23.7	30.1	61.2	327.7	66.6	30.1	24.6	23.7
155°	26.5	28.3	37.4	93.1	611.6	106.8	38.3	28.3	27.4
157.5°	32.9	35.6	49.3	154.3	894.6	181.7	51.1	35.6	32.0
160°	42.0	47.5	63.9	241.9	1088.2	281.2	66.6	48.4	41.1
162.5°	59.3	64.8	82.2	324.1	1088.2	362.4	85.8	66.6	59.3
165°	81.2	84.9	103.2	387.1	933.9	422.7	109.5	88.5	81.2
167.5°	106.8	113.2	144.2	453.7	770.5	486.6	161.6	116.8	108.6
170°	146.1	161.6	256.5	552.3	728.5	585.2	291.2	174.4	154.3
171°	178.0	210.9	338.7	606.2	749.5	638.1	380.7	232.8	197.2
172°	240.1	302.2	443.7	672.8	788.7	705.7	489.3	330.5	276.6
173°	359.7	435.4	566.0	752.2	841.7	783.3	613.5	471.0	398.9
174°	511.2	587.9	688.3	830.7	903.8	858.1	736.7	627.2	560.5
175°	676.4	732.1	807.9	911.1	962.2	934.8	850.8	774.1	716.6
176°	814.3	856.3	906.5	973.1	1006.0	991.4	943.9	896.5	857.2
177°	926.6	958.5	984.1	1022.4	1043.4	1035.2	1011.5	989.6	965.8
178°	1010.6	1030.6	1042.5	1058.0	1069.9	1066.2	1057.1	1050.7	1036.1
179°	1072.6	1074.5	1076.3	1081.8	1087.2	1085.4	1085.4	1087.2	1081.8
180°	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5

(END OF REPORT)