

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: P277783

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: P277783
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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

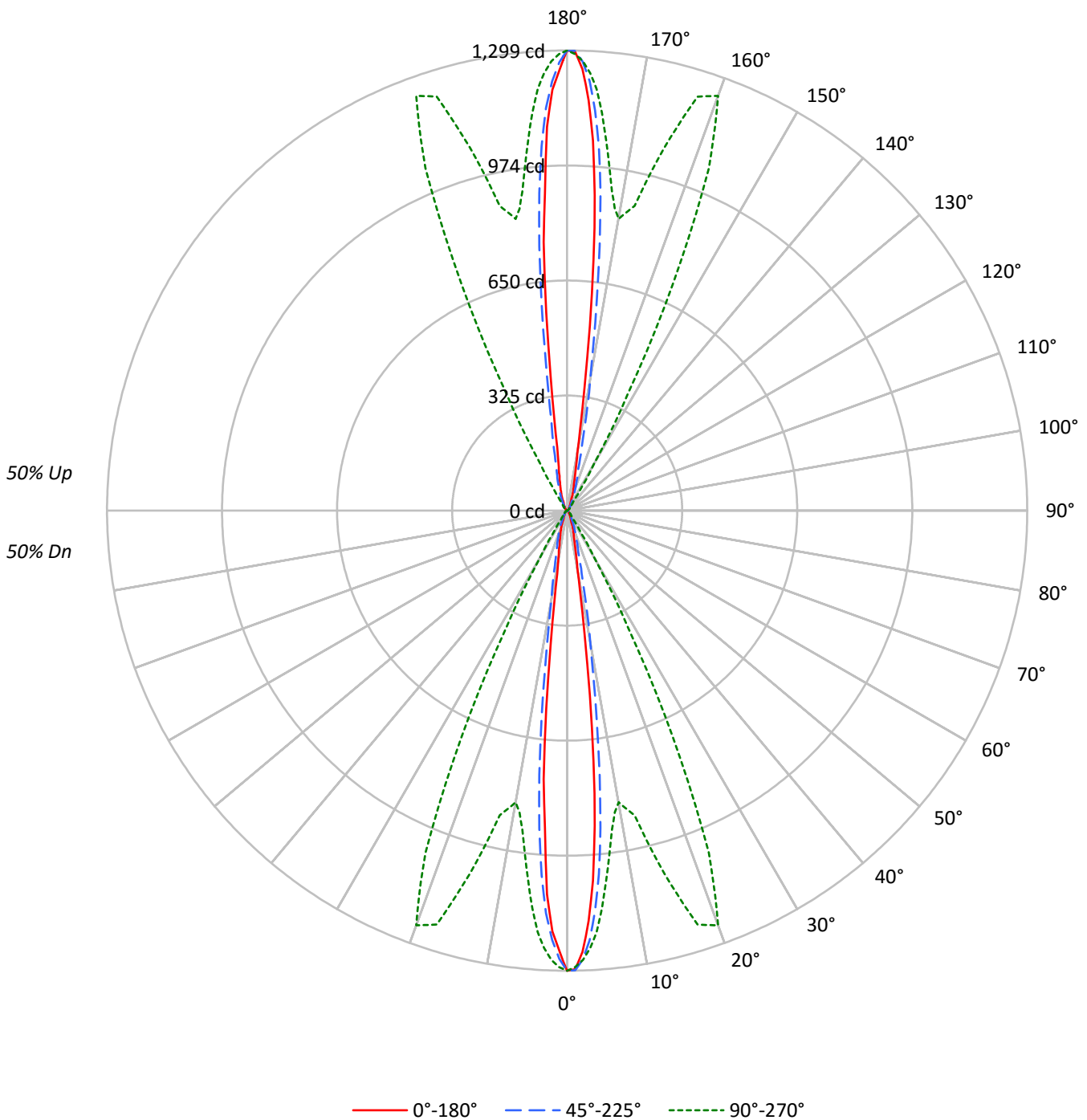
Lumens per Lamp: N/A
Luminaire Lumens: 506.3 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16.1
Input Voltage (V): 12.0
Input Current (Ain): 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	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°	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	14.1
10°-20°	90.9	18.0
20°-30°	67.8	13.4
30°-40°	12.7	2.5
40°-50°	6.7	1.3
50°-60°	3.2	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°	3.2	0.6
130°-140°	6.7	1.3
140°-150°	12.7	2.5
150°-160°	67.8	13.4
160°-170°	90.9	18.0
170°-180°	71.6	14.1
0°-30°	230.3	45.5
0°-40°	243.0	48.0
0°-60°	252.8	49.9
0°-90°	253.1	50.0
90°-120°	0.4	0.1
90°-150°	23.0	4.5
90°-180°	253.0	50.0
0°-180°	506.3	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
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	8	12	8	7	5
145°	11	15	30	15	12	7
155°	22	38	706	40	23	10
165°	72	123	1061	112	76	22
175°	893	1030	1127	900	761	57
180°	1299	1299	1299	1299	1299	



TEST NUMBER: P277783

CATALOG NUMBER: 203-SS-8LED4010-12-BK-LSL

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
92.5°	0	0	0	0	0	0	0	0	0
95°	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
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	1	1	1	1	1
120°	1	1	1	1	1	1	2	2	2
122.5°	2	2	2	2	2	2	3	3	3
125°	3	3	3	4	5	4	4	3	4
127.5°	3	4	5	5	6	5	5	4	4
130°	4	5	6	7	8	7	6	5	5
132.5°	5	6	7	8	10	8	7	6	6
135°	6	7	8	10	12	10	8	8	7
137.5°	7	8	10	11	14	11	10	9	8
140°	8	9	11	14	17	14	11	10	9
142.5°	9	11	13	16	21	16	13	12	11
145°	11	12	15	21	30	20	15	13	12
147.5°	12	14	18	29	61	28	18	15	14
150°	15	16	22	48	152	43	23	18	17
152.5°	18	20	28	92	370	74	29	21	20
155°	22	24	38	187	706	126	40	27	23
157.5°	27	31	52	333	1046	216	52	37	30
160°	36	43	69	461	1246	308	68	51	45
162.5°	54	62	91	522	1225	375	87	64	59
165°	72	82	123	549	1061	421	112	82	76
167.5°	101	114	198	595	881	486	158	107	100
170°	164	202	374	694	836	603	257	154	142
171°	233	298	470	752	862	663	336	197	180
172°	350	444	602	832	909	742	446	277	257
173°	526	623	752	931	977	841	589	409	383
174°	712	799	901	1027	1052	943	750	586	562
175°	893	958	1030	1119	1127	1049	900	778	761
176°	1047	1093	1133	1190	1193	1132	1031	947	897
177°	1160	1196	1214	1241	1237	1198	1138	1086	1084
178°	1247	1262	1268	1276	1269	1246	1213	1187	1189
179°	1295	1299	1298	1297	1289	1277	1266	1255	1245
180°	1299	1299	1299	1299	1299	1299	1299	1299	1299

(END OF REPORT)