

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: P277758

Luminaire Tested: **203-SS-8LED3010-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277758
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-8LED3010-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 95 CRI 10° NSP LED
SM16-07-10D-930-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

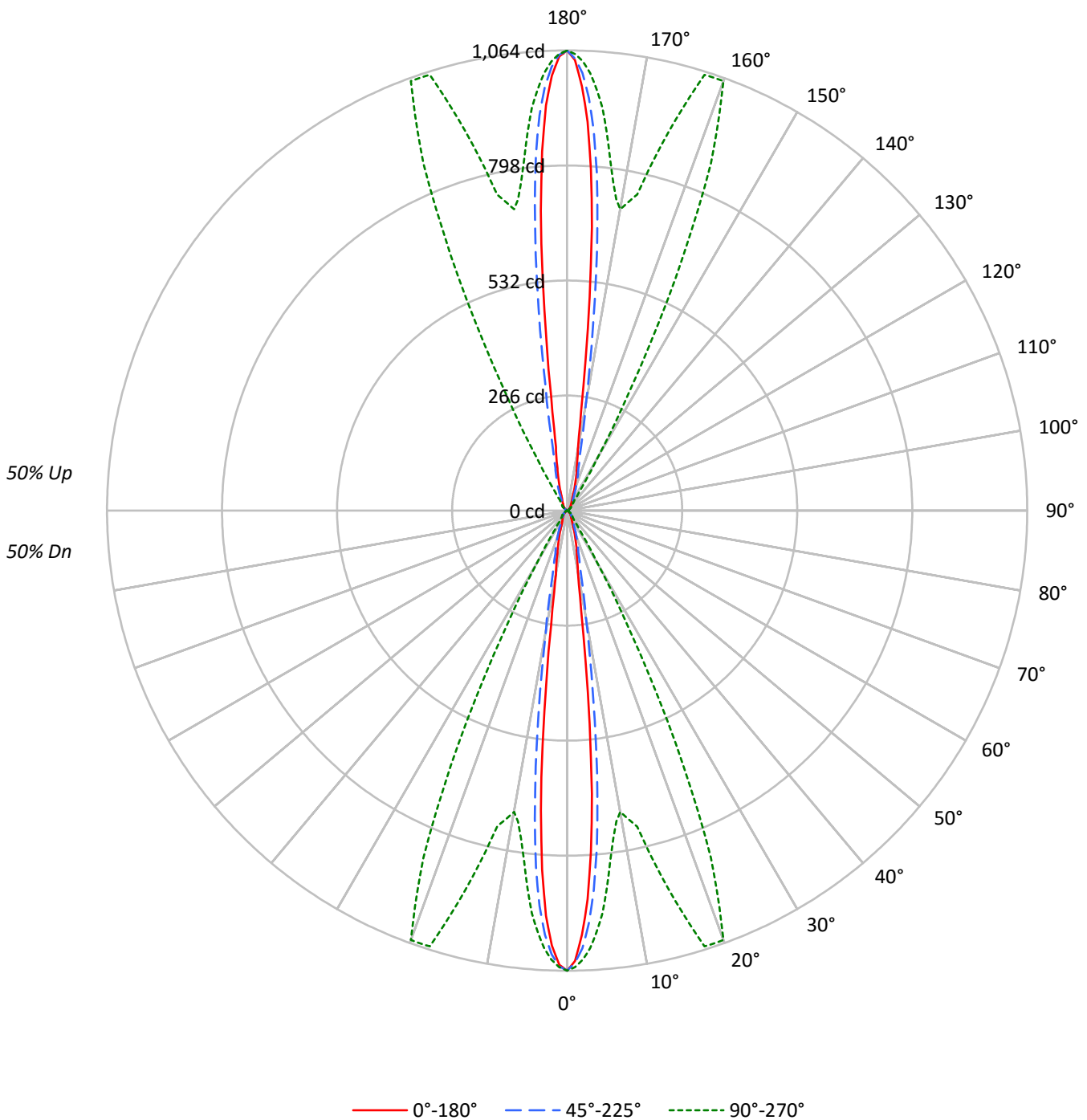
Lumens per Lamp: N/A
Luminaire Lumens: 448.0 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (A_{in}): 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	75	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	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°	524857	524857	524857
5°	325339	462775	344654
10°	71040	354401	75048
15°	40301	463230	40301
20°	21422	554814	20949
25°	13991	323364	14481
30°	11109	78278	11622
35°	9095	18671	9637
40°	7986	12559	7986
45°	6838	11164	6838
50°	5450	8827	5450
55°	4559	6881	4559
60°	2664	3454	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°	60.0	13.4
10°-20°	76.8	17.1
20°-30°	55.0	12.3
30°-40°	14.2	3.2
40°-50°	9.7	2.2
50°-60°	5.7	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°	5.7	1.3
130°-140°	9.7	2.2
140°-150°	14.2	3.2
150°-160°	55.0	12.3
160°-170°	76.8	17.1
170°-180°	60.0	13.4
0°-30°	191.8	42.8
0°-40°	206.0	46.0
0°-60°	221.4	49.4
0°-90°	224.0	50.0
90°-120°	2.6	0.6
90°-150°	32.2	7.2
90°-180°	224.0	50.0
0°-180°	448.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1064	1064	1064	1064	1064	
5°	657	784	934	826	696	42
15°	79	100	907	106	79	22
25°	26	36	594	37	27	12
35°	15	19	31	19	16	10
45°	10	12	16	12	10	8
55°	5	6	8	6	5	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°	5	6	8	6	5	5
135°	10	12	16	12	10	8
145°	15	19	31	19	16	10
155°	26	36	594	37	27	12
165°	79	100	907	106	79	22
175°	657	784	934	826	696	42
180°	1064	1064	1064	1064	1064	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
1°	1041.6	1043.4	1045.2	1050.5	1055.8	1054.0	1054.0	1055.8	1050.5
2°	981.3	1000.9	1012.4	1027.4	1039.0	1035.4	1026.6	1020.4	1006.2
3°	899.8	930.8	955.6	992.9	1013.3	1005.3	982.2	961.0	937.9
4°	790.8	831.5	880.3	945.0	976.9	962.7	916.6	870.5	832.4
5°	656.9	711.0	784.5	884.7	934.4	907.8	826.2	751.7	695.9
6°	496.4	570.9	668.4	806.7	877.6	833.3	715.4	609.0	544.3
7°	349.3	422.9	549.6	730.5	817.3	760.6	595.7	457.4	387.4
8°	233.1	293.4	430.8	653.3	765.9	685.3	475.2	320.9	268.6
9°	172.9	204.8	328.9	588.6	727.8	619.7	369.7	226.1	191.5
10°	141.8	156.9	249.1	536.3	707.4	568.2	282.8	169.3	149.8
12.5°	103.7	109.9	140.1	440.6	748.2	472.5	156.9	113.5	105.5
15°	78.9	82.4	100.2	375.9	906.9	410.4	106.4	86.0	78.9
17.5°	57.6	62.9	79.8	314.7	1056.7	351.9	83.3	64.7	57.6
20°	40.8	46.1	62.1	234.9	1056.7	273.0	64.7	47.0	39.9
22.5°	31.9	34.6	47.9	149.8	868.8	176.4	49.6	34.6	31.0
25°	25.7	27.5	36.3	90.4	594.0	103.7	37.2	27.5	26.6
27.5°	22.2	23.0	29.3	59.4	318.3	64.7	29.3	23.9	23.0
30°	19.5	20.4	23.9	39.0	137.4	39.9	23.9	21.3	20.4
32.5°	16.8	18.6	20.4	28.4	57.6	28.4	21.3	18.6	17.7
35°	15.1	16.8	18.6	22.2	31.0	22.2	18.6	16.8	16.0
37.5°	13.3	15.1	16.8	19.5	23.9	19.5	16.8	16.0	14.2
40°	12.4	13.3	15.1	16.8	19.5	17.7	15.1	14.2	12.4
42.5°	10.6	12.4	13.3	15.1	17.7	15.1	14.2	12.4	11.5
45°	9.8	10.6	12.4	13.3	16.0	14.2	12.4	11.5	9.8
47.5°	8.9	9.8	11.5	11.5	14.2	12.4	11.5	9.8	8.9
50°	7.1	8.9	9.8	10.6	11.5	10.6	9.8	8.0	7.1
52.5°	6.2	7.1	8.9	8.9	9.8	8.9	8.0	7.1	6.2
55°	5.3	6.2	6.2	7.1	8.0	7.1	6.2	5.3	5.3
57.5°	4.4	4.4	5.3	5.3	5.3	5.3	4.4	4.4	3.5
60°	2.7	3.5	3.5	3.5	3.5	3.5	3.5	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	3.5	3.5	3.5	3.5	3.5	3.5	2.7	2.7
122.5°	4.4	4.4	5.3	5.3	5.3	5.3	4.4	4.4	3.5
125°	5.3	6.2	6.2	7.1	8.0	7.1	6.2	5.3	5.3
127.5°	6.2	7.1	8.9	8.9	9.8	8.9	8.0	7.1	6.2
130°	7.1	8.9	9.8	10.6	11.5	10.6	9.8	8.0	7.1
132.5°	8.9	9.8	11.5	11.5	14.2	12.4	11.5	9.8	8.9
135°	9.8	10.6	12.4	13.3	16.0	14.2	12.4	11.5	9.8
137.5°	10.6	12.4	13.3	15.1	17.7	15.1	14.2	12.4	11.5
140°	12.4	13.3	15.1	16.8	19.5	17.7	15.1	14.2	12.4
142.5°	13.3	15.1	16.8	19.5	23.9	19.5	16.8	16.0	14.2
145°	15.1	16.8	18.6	22.2	31.0	22.2	18.6	16.8	16.0
147.5°	16.8	18.6	20.4	28.4	57.6	28.4	21.3	18.6	17.7
150°	19.5	20.4	23.9	39.0	137.4	39.9	23.9	21.3	20.4
152.5°	22.2	23.0	29.3	59.4	318.3	64.7	29.3	23.9	23.0
155°	25.7	27.5	36.3	90.4	594.0	103.7	37.2	27.5	26.6
157.5°	31.9	34.6	47.9	149.8	868.8	176.4	49.6	34.6	31.0
160°	40.8	46.1	62.1	234.9	1056.7	273.0	64.7	47.0	39.9
162.5°	57.6	62.9	79.8	314.7	1056.7	351.9	83.3	64.7	57.6
165°	78.9	82.4	100.2	375.9	906.9	410.4	106.4	86.0	78.9
167.5°	103.7	109.9	140.1	440.6	748.2	472.5	156.9	113.5	105.5
170°	141.8	156.9	249.1	536.3	707.4	568.2	282.8	169.3	149.8
171°	172.9	204.8	328.9	588.6	727.8	619.7	369.7	226.1	191.5
172°	233.1	293.4	430.8	653.3	765.9	685.3	475.2	320.9	268.6
173°	349.3	422.9	549.6	730.5	817.3	760.6	595.7	457.4	387.4
174°	496.4	570.9	668.4	806.7	877.6	833.3	715.4	609.0	544.3
175°	656.9	711.0	784.5	884.7	934.4	907.8	826.2	751.7	695.9
176°	790.8	831.5	880.3	945.0	976.9	962.7	916.6	870.5	832.4
177°	899.8	930.8	955.6	992.9	1013.3	1005.3	982.2	961.0	937.9
178°	981.3	1000.9	1012.4	1027.4	1039.0	1035.4	1026.6	1020.4	1006.2
179°	1041.6	1043.4	1045.2	1050.5	1055.8	1054.0	1054.0	1055.8	1050.5
180°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8

(END OF REPORT)