

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: P277738

Luminaire Tested: **203-SS-8LED2725-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-41)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED2725-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 90 CRI LED
SM16-07-25D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

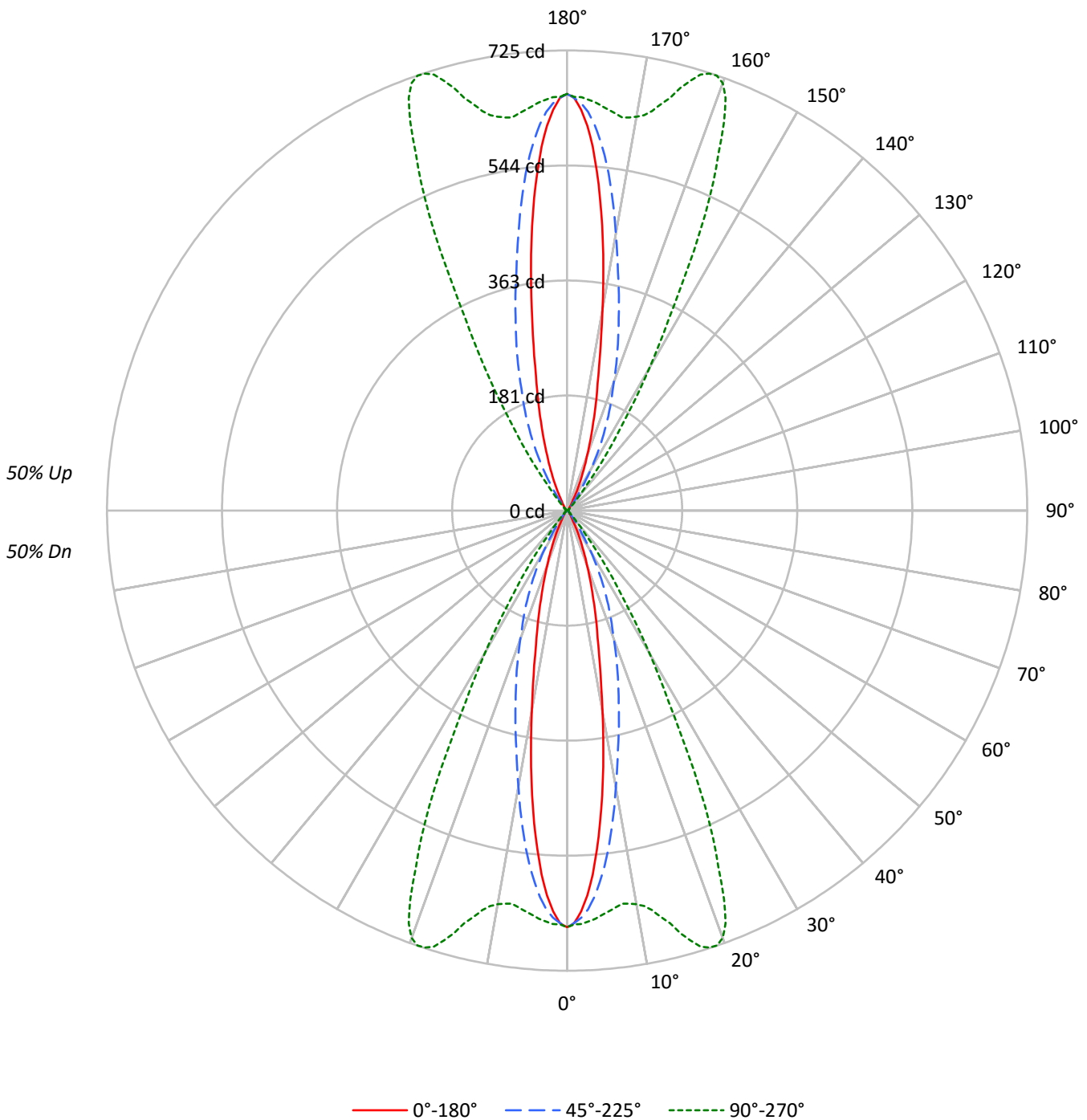
Lumens per Lamp: N/A
Luminaire Lumens: 569.7 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 14.8
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	85	77	75	74		65	64	63		54	53	52	47
2	94	88	84	80	87	82	79	75	71	68	66		61	59	57		51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60		57	55	53		49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		46	45	43	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		44	42	41	38
6	74	64	58	53	69	61	55	51	54	50	47		48	45	43		42	40	39	36
7	69	60	54	49	65	57	51	47	51	47	44		46	43	40		40	38	37	35
8	66	56	50	46	62	53	48	44	48	44	41		43	40	38		39	37	35	33
9	62	53	47	43	59	50	45	41	46	41	39		41	38	36		37	35	33	32
10	59	50	44	40	56	47	42	39	43	39	36		39	36	34		36	33	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	323854	323854	323854
5°	265858	291166	316474
10°	160517	221789	315574
15°	89081	160386	352032
20°	48409	113094	376246
25°	23844	76540	280303
30°	9343	42671	147155
35°	6023	15419	62700
40°	4122	6441	15844
45°	3210	3838	5722
50°	2840	3531	4222
55°	2322	2322	3183
60°	1776	1776	2664
65°	1051	2101	2101
70°	1298	1298	1298
75°	1716	1716	1716
80°	0	0	2557
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	9.1
10°-20°	104.2	18.3
20°-30°	89.8	15.8
30°-40°	28.6	5.0
40°-50°	5.2	0.9
50°-60°	2.8	0.5
60°-70°	1.4	0.2
70°-80°	0.8	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.8	0.1
110°-120°	1.4	0.2
120°-130°	2.8	0.5
130°-140°	5.2	0.9
140°-150°	28.6	5.0
150°-160°	89.8	15.8
160°-170°	104.2	18.3
170°-180°	51.9	9.1
0°-30°	245.9	43.2
0°-40°	274.5	48.2
0°-60°	282.5	49.6
0°-90°	284.8	50.0
90°-120°	2.3	0.4
90°-150°	38.9	6.8
90°-180°	285.0	50.0
0°-180°	569.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	537	557	588	625	639	44
15°	174	212	314	530	689	49
25°	44	61	141	318	515	21
35°	10	12	26	75	104	6
45°	5	5	6	7	8	4
55°	3	3	3	4	4	2
65°	1	1	2	2	2	1
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°	1	1	2	2	2	1
125°	3	3	3	4	4	2
135°	5	5	6	7	8	4
145°	10	12	26	75	104	6
155°	44	61	141	318	515	21
165°	174	212	314	530	689	49
175°	537	557	588	625	639	44
180°	656	656	656	656	656	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.4	656.4	656.4	656.4	656.4
1°	650.0	650.9	650.0	651.8	651.8
2°	631.7	636.3	641.8	650.0	651.8
3°	607.1	615.3	629.0	643.6	648.1
4°	575.1	588.8	610.7	635.4	644.5
5°	536.8	556.9	587.9	625.3	639.0
6°	495.7	519.4	563.3	614.4	634.5
7°	451.9	480.2	535.0	602.5	629.9
8°	408.1	439.1	504.8	587.9	625.3
9°	362.4	398.0	473.8	573.3	627.2
10°	320.4	358.8	442.7	563.3	629.9
11°	282.1	321.3	413.5	553.2	634.5
12°	249.2	289.4	385.2	545.9	643.6
13°	218.2	260.2	360.6	540.4	657.3
14°	194.4	234.6	336.9	535.9	670.1
15°	174.4	211.8	314.0	530.4	689.2
16°	154.3	190.8	293.0	524.9	704.7
17°	136.0	172.5	273.9	517.6	718.4
18°	121.4	154.3	253.8	506.7	723.9
19°	105.0	136.0	234.6	493.9	724.8
20°	92.2	119.6	215.4	476.5	716.6
21°	80.3	105.0	198.1	455.5	696.5
22°	69.4	92.2	184.4	427.2	660.0
23°	59.3	80.3	169.8	396.2	609.8
24°	51.1	70.3	155.2	355.1	566.0
25°	43.8	61.2	140.6	317.7	514.9
26°	36.5	52.0	126.9	283.9	455.5
27°	29.2	43.8	113.2	251.0	391.6
28°	23.7	35.6	99.5	220.0	340.5
29°	19.2	29.2	86.7	191.7	297.6
30°	16.4	23.7	74.9	169.8	258.3
32.5°	12.8	15.5	45.6	119.6	165.2
35°	10.0	11.9	25.6	74.9	104.1
37.5°	7.3	8.2	15.5	37.4	48.4
40°	6.4	7.3	10.0	18.3	24.6
42.5°	5.5	5.5	7.3	10.0	12.8
45°	4.6	4.6	5.5	7.3	8.2
47.5°	3.7	3.7	4.6	5.5	6.4
50°	3.7	3.7	4.6	4.6	5.5
52.5°	2.7	3.7	3.7	3.7	3.7
55°	2.7	2.7	2.7	3.7	3.7
57.5°	2.7	2.7	2.7	2.7	2.7
60°	1.8	1.8	1.8	2.7	2.7
62.5°	0.9	1.8	1.8	1.8	1.8
65°	0.9	0.9	1.8	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.9	0.9	0.9	1.8
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.9	0.9
102.5°	0.0	0.9	0.9	0.9	0.9
105°	0.9	0.9	0.9	0.9	0.9
107.5°	0.9	0.9	0.9	0.9	0.9
110°	0.9	0.9	0.9	0.9	0.9
112.5°	0.9	0.9	0.9	0.9	1.8
115°	0.9	0.9	1.8	1.8	1.8
117.5°	0.9	1.8	1.8	1.8	1.8
120°	1.8	1.8	1.8	2.7	2.7
122.5°	2.7	2.7	2.7	2.7	2.7
125°	2.7	2.7	2.7	3.7	3.7
127.5°	2.7	3.7	3.7	3.7	3.7
130°	3.7	3.7	4.6	4.6	5.5
132.5°	3.7	3.7	4.6	5.5	6.4
135°	4.6	4.6	5.5	7.3	8.2
137.5°	5.5	5.5	7.3	10.0	12.8
140°	6.4	7.3	10.0	18.3	24.6
142.5°	7.3	8.2	15.5	37.4	48.4
145°	10.0	11.9	25.6	74.9	104.1
147.5°	12.8	15.5	45.6	119.6	165.2
150°	16.4	23.7	74.9	169.8	258.3
151°	19.2	29.2	86.7	191.7	297.6
152°	23.7	35.6	99.5	220.0	340.5
153°	29.2	43.8	113.2	251.0	391.6
154°	36.5	52.0	126.9	283.9	455.5
155°	43.8	61.2	140.6	317.7	514.9
156°	51.1	70.3	155.2	355.1	566.0
157°	59.3	80.3	169.8	396.2	609.8
158°	69.4	92.2	184.4	427.2	660.0
159°	80.3	105.0	198.1	455.5	696.5
160°	92.2	119.6	215.4	476.5	716.6
161°	105.0	136.0	234.6	493.9	724.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
162°	121.4	154.3	253.8	506.7	723.9
163°	136.0	172.5	273.9	517.6	718.4
164°	154.3	190.8	293.0	524.9	704.7
165°	174.4	211.8	314.0	530.4	689.2
166°	194.4	234.6	336.9	535.9	670.1
167°	218.2	260.2	360.6	540.4	657.3
168°	249.2	289.4	385.2	545.9	643.6
169°	282.1	321.3	413.5	553.2	634.5
170°	320.4	358.8	442.7	563.3	629.9
171°	362.4	398.0	473.8	573.3	627.2
172°	408.1	439.1	504.8	587.9	625.3
173°	451.9	480.2	535.0	602.5	629.9
174°	495.7	519.4	563.3	614.4	634.5
175°	536.8	556.9	587.9	625.3	639.0
176°	575.1	588.8	610.7	635.4	644.5
177°	607.1	615.3	629.0	643.6	648.1
178°	631.7	636.3	641.8	650.0	651.8
179°	650.0	650.9	650.0	651.8	651.8
180°	656.4	656.4	656.4	656.4	656.4

(END OF REPORT)