

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: P277768

Luminaire Tested: **203-SS-8LED3025-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277768
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-8LED3025-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 90 CRI LED
SM16-07-25D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

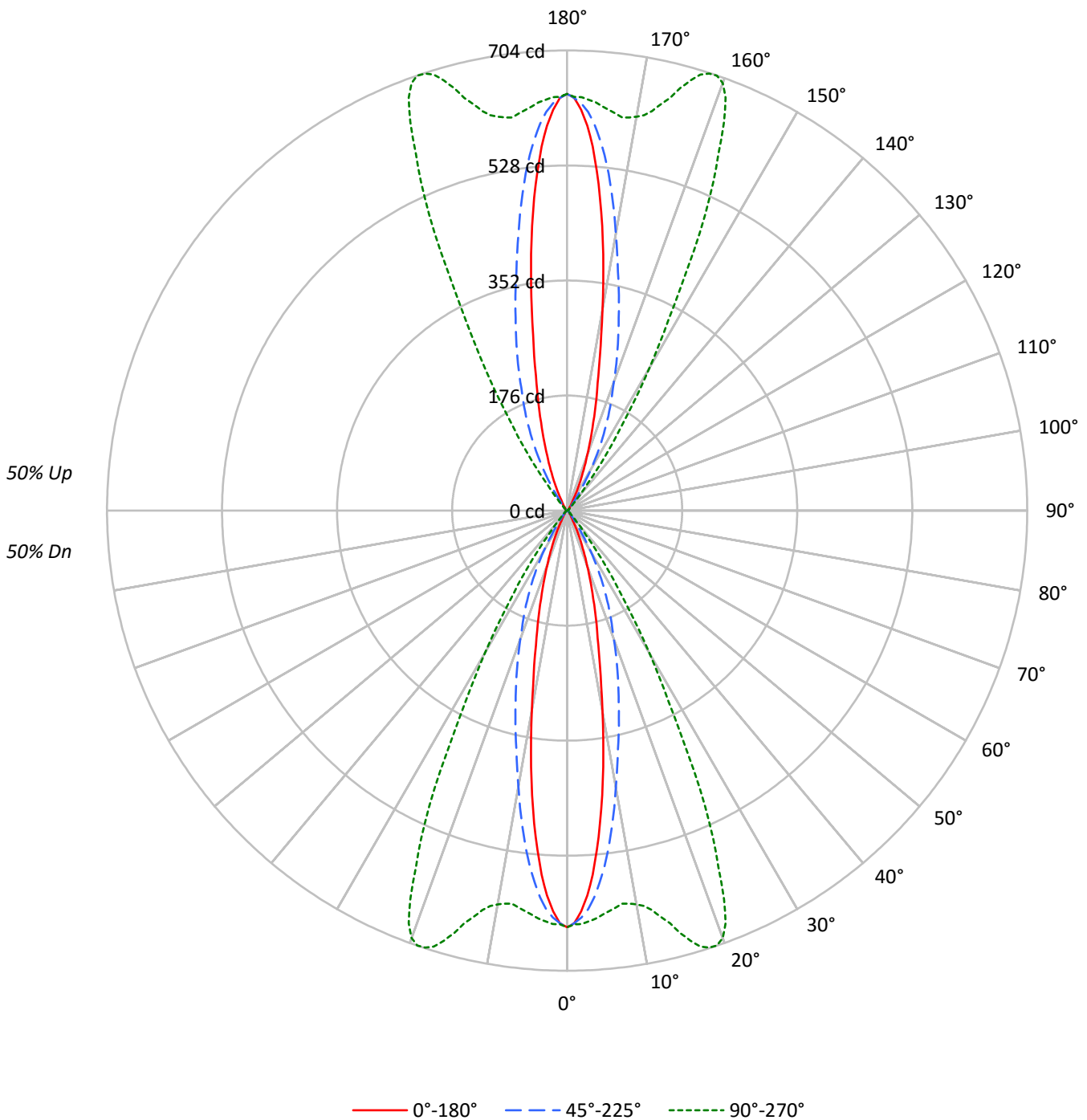
Lumens per Lamp: N/A
Luminaire Lumens: 553.3 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 14.8
Input Voltage (V): NR
Input Current (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	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°	314480	314480	314480
5°	258181	282746	307311
10°	155908	215376	306456
15°	86476	155789	341868
20°	46991	109839	365378
25°	23191	74308	272192
30°	9115	41418	142939
35°	5903	14937	60893
40°	3993	6312	15393
45°	3070	3698	5582
50°	2686	3377	4068
55°	2322	2322	3011
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°	50.4	9.1
10°-20°	101.2	18.3
20°-30°	87.2	15.8
30°-40°	27.8	5.0
40°-50°	5.0	0.9
50°-60°	2.7	0.5
60°-70°	1.4	0.3
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°	1.4	0.3
120°-130°	2.7	0.5
130°-140°	5.0	0.9
140°-150°	27.8	5.0
150°-160°	87.2	15.8
160°-170°	101.2	18.3
170°-180°	50.4	9.1
0°-30°	238.8	43.2
0°-40°	266.6	48.2
0°-60°	274.4	49.6
0°-90°	276.7	50.0
90°-120°	2.3	0.4
90°-150°	37.8	6.8
90°-180°	277.0	50.1
0°-180°	553.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	521	541	571	607	620	43
15°	169	206	305	515	669	47
25°	43	59	136	308	500	20
35°	10	12	25	73	101	6
45°	4	4	5	7	8	3
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°	4	4	5	7	8	3
145°	10	12	25	73	101	6
155°	43	59	136	308	500	20
165°	169	206	305	515	669	47
175°	521	541	571	607	620	43
180°	637	637	637	637	637	



TEST NUMBER: P277768

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.4	637.4	637.4	637.4	637.4
1°	631.2	632.1	631.2	633.0	633.0
2°	613.5	617.9	623.2	631.2	633.0
3°	589.5	597.5	610.8	625.0	629.4
4°	558.5	571.8	593.1	617.0	625.9
5°	521.3	540.8	570.9	607.2	620.5
6°	481.4	504.4	547.0	596.6	616.1
7°	438.8	466.3	519.5	585.1	611.7
8°	396.3	426.4	490.2	570.9	607.2
9°	351.9	386.5	460.1	556.7	609.0
10°	311.2	348.4	429.9	547.0	611.7
11°	273.9	312.0	401.6	537.2	616.1
12°	242.0	281.0	374.1	530.1	625.0
13°	211.9	252.7	350.2	524.8	638.3
14°	188.8	227.8	327.1	520.4	650.7
15°	169.3	205.7	305.0	515.1	669.3
16°	149.8	185.3	284.6	509.7	684.4
17°	132.1	167.5	265.9	502.6	697.7
18°	117.9	149.8	246.4	492.0	703.0
19°	101.9	132.1	227.8	479.6	703.9
20°	89.5	116.1	209.2	462.8	695.9
21°	78.0	101.9	192.4	442.4	676.4
22°	67.4	89.5	179.1	414.9	640.9
23°	57.6	78.0	164.9	384.7	592.2
24°	49.6	68.3	150.7	344.8	549.6
25°	42.6	59.4	136.5	308.5	500.0
26°	35.5	50.5	123.2	275.7	442.4
27°	28.4	42.6	109.9	243.8	380.3
28°	23.0	34.6	96.6	213.6	330.7
29°	18.6	28.4	84.2	186.2	289.0
30°	16.0	23.0	72.7	164.9	250.9
32.5°	12.4	15.1	44.3	116.1	160.5
35°	9.8	11.5	24.8	72.7	101.1
37.5°	7.1	8.0	15.1	36.3	47.0
40°	6.2	7.1	9.8	17.7	23.9
42.5°	5.3	5.3	7.1	9.8	12.4
45°	4.4	4.4	5.3	7.1	8.0
47.5°	3.5	3.5	4.4	5.3	6.2
50°	3.5	3.5	4.4	4.4	5.3
52.5°	2.7	3.5	3.5	3.5	3.5
55°	2.7	2.7	2.7	3.5	3.5
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	3.5	3.5
127.5°	2.7	3.5	3.5	3.5	3.5
130°	3.5	3.5	4.4	4.4	5.3
132.5°	3.5	3.5	4.4	5.3	6.2
135°	4.4	4.4	5.3	7.1	8.0
137.5°	5.3	5.3	7.1	9.8	12.4
140°	6.2	7.1	9.8	17.7	23.9
142.5°	7.1	8.0	15.1	36.3	47.0
145°	9.8	11.5	24.8	72.7	101.1
147.5°	12.4	15.1	44.3	116.1	160.5
150°	16.0	23.0	72.7	164.9	250.9
151°	18.6	28.4	84.2	186.2	289.0
152°	23.0	34.6	96.6	213.6	330.7
153°	28.4	42.6	109.9	243.8	380.3
154°	35.5	50.5	123.2	275.7	442.4
155°	42.6	59.4	136.5	308.5	500.0
156°	49.6	68.3	150.7	344.8	549.6
157°	57.6	78.0	164.9	384.7	592.2
158°	67.4	89.5	179.1	414.9	640.9
159°	78.0	101.9	192.4	442.4	676.4
160°	89.5	116.1	209.2	462.8	695.9
161°	101.9	132.1	227.8	479.6	703.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
162°	117.9	149.8	246.4	492.0	703.0
163°	132.1	167.5	265.9	502.6	697.7
164°	149.8	185.3	284.6	509.7	684.4
165°	169.3	205.7	305.0	515.1	669.3
166°	188.8	227.8	327.1	520.4	650.7
167°	211.9	252.7	350.2	524.8	638.3
168°	242.0	281.0	374.1	530.1	625.0
169°	273.9	312.0	401.6	537.2	616.1
170°	311.2	348.4	429.9	547.0	611.7
171°	351.9	386.5	460.1	556.7	609.0
172°	396.3	426.4	490.2	570.9	607.2
173°	438.8	466.3	519.5	585.1	611.7
174°	481.4	504.4	547.0	596.6	616.1
175°	521.3	540.8	570.9	607.2	620.5
176°	558.5	571.8	593.1	617.0	625.9
177°	589.5	597.5	610.8	625.0	629.4
178°	613.5	617.9	623.2	631.2	633.0
179°	631.2	632.1	631.2	633.0	633.0
180°	637.4	637.4	637.4	637.4	637.4

(END OF REPORT)