

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: P277743

Luminaire Tested: **203-SS-8LED2736-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277743
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED2736-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC, REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI LED
SM16-07-36D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

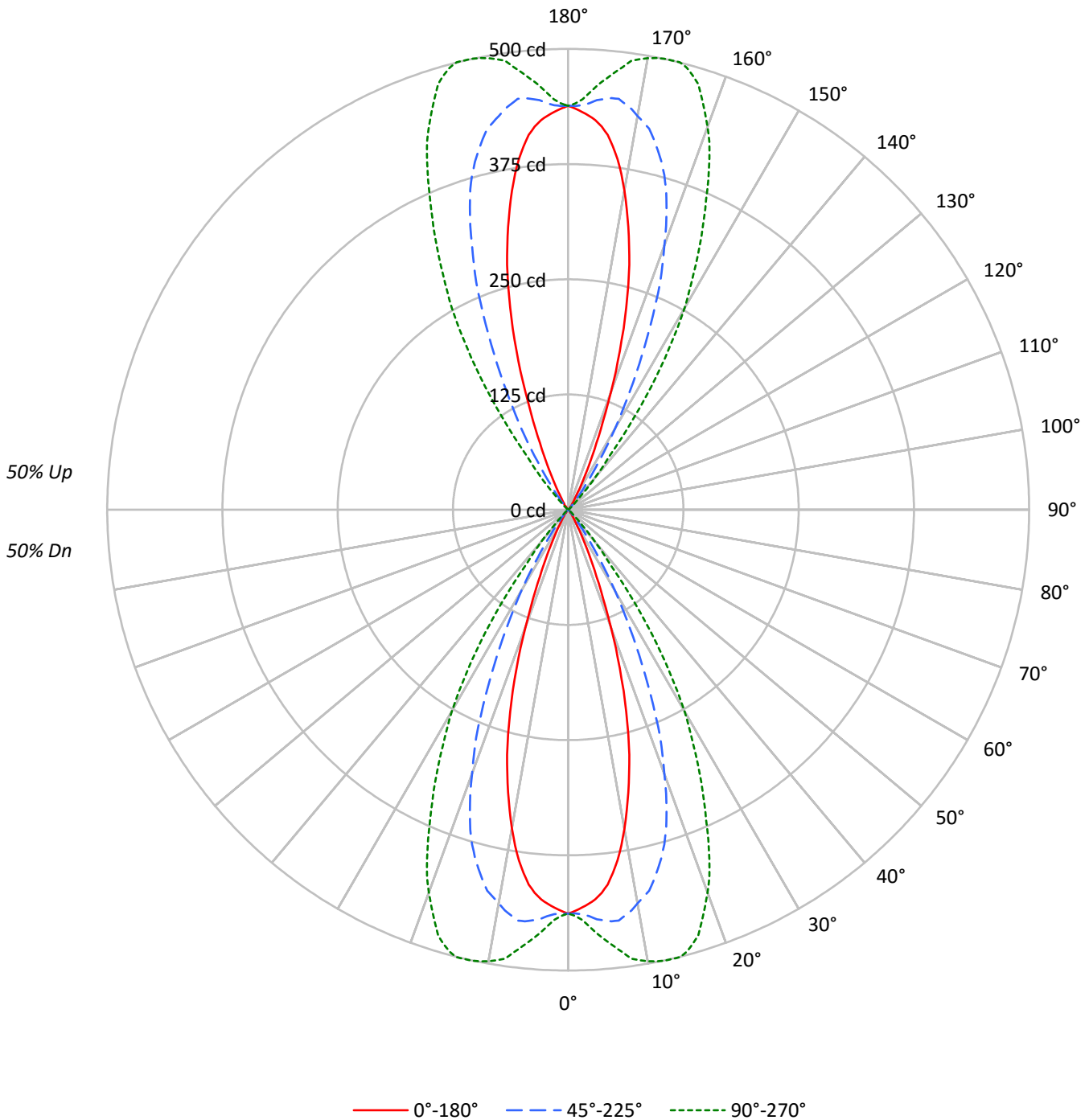
Lumens per Lamp: N/A
Luminaire Lumens: 558.0 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 15.5
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	53	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	59	55	58	54	50	51	48	46	44	42	41	38
6	73	64	58	53	69	60	55	51	54	50	47	48	45	43	42	40	38	36
7	69	60	53	49	65	56	51	47	51	46	43	45	42	40	40	38	36	34
8	65	56	49	45	61	53	47	44	48	44	41	43	40	38	38	36	34	32
9	62	52	46	42	58	50	44	41	45	41	38	41	38	35	37	34	33	31
10	59	49	43	39	55	47	42	38	43	39	36	39	36	33	35	33	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	216199	216199	216199
5°	206624	221532	232378
10°	176098	217230	249243
15°	128718	199563	253655
20°	70933	160086	231964
25°	28798	107353	189827
30°	9343	57711	144079
35°	4397	19816	82456
40°	2383	5861	29369
45°	1256	2582	6349
50°	691	1382	2072
55°	774	774	774
60°	888	888	888
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°	42.1	7.6
10°-20°	104.5	18.7
20°-30°	90.7	16.3
30°-40°	35.9	6.4
40°-50°	4.6	0.8
50°-60°	1.0	0.2
60°-70°	0.1	0.0
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°	0.1	0.0
120°-130°	1.0	0.2
130°-140°	4.6	0.8
140°-150°	35.9	6.4
150°-160°	90.7	16.3
160°-170°	104.5	18.7
170°-180°	42.1	7.6
0°-30°	237.4	42.6
0°-40°	273.3	49.0
0°-60°	278.9	50.0
0°-90°	279.0	50.0
90°-120°	0.1	0.0
90°-150°	41.6	7.4
90°-180°	279.0	50.0
0°-180°	558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	417	429	447	465	469	38
15°	252	296	391	469	497	67
25°	53	78	197	318	349	26
35°	7	10	33	104	137	5
45°	2	3	4	7	9	2
55°	1	1	1	1	1	1
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°	1	1	1	1	1	1
135°	2	3	4	7	9	2
145°	7	10	33	104	137	5
155°	53	78	197	318	349	26
165°	252	296	391	469	497	67
175°	417	429	447	465	469	38
180°	438	438	438	438	438	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	438.2	438.2	438.2	438.2	438.2
1°	435.4	436.4	438.2	440.0	440.9
2°	431.8	434.5	439.1	443.7	445.5
3°	428.1	433.6	441.8	450.1	453.7
4°	423.6	431.8	445.5	456.4	461.9
5°	417.2	429.1	447.3	464.7	469.2
6°	409.0	424.5	449.1	469.2	476.5
7°	397.1	418.1	449.1	473.8	483.8
8°	384.3	408.1	444.6	477.4	492.0
9°	368.8	397.1	440.0	480.2	494.8
10°	351.5	383.4	433.6	481.1	497.5
11°	332.3	368.8	428.1	480.2	499.3
12°	314.0	352.4	422.7	479.3	500.3
13°	293.9	335.0	412.6	477.4	500.3
14°	273.9	315.9	401.7	473.8	500.3
15°	252.0	295.8	390.7	469.2	496.6
16°	228.2	274.8	377.9	464.7	490.2
17°	205.4	253.8	363.3	455.5	482.9
18°	180.8	228.2	345.1	442.7	469.2
19°	158.8	203.6	325.9	428.1	455.5
20°	135.1	178.9	304.9	412.6	441.8
21°	113.2	155.2	285.7	395.3	427.2
22°	94.0	130.5	266.6	378.8	409.0
23°	78.5	109.5	242.8	362.4	388.9
24°	64.8	92.2	220.0	342.3	367.9
25°	52.9	77.6	197.2	317.7	348.7
26°	43.8	64.8	176.2	295.8	329.6
27°	34.7	52.9	155.2	273.0	309.5
28°	27.4	42.9	136.0	252.9	289.4
29°	21.9	33.8	117.8	227.3	270.2
30°	16.4	27.4	101.3	207.2	252.9
32.5°	10.0	15.5	61.2	159.8	195.4
35°	7.3	10.0	32.9	104.1	136.9
37.5°	4.6	6.4	16.4	58.4	73.9
40°	3.7	4.6	9.1	27.4	45.6
42.5°	2.7	3.7	5.5	12.8	18.3
45°	1.8	2.7	3.7	7.3	9.1
47.5°	1.8	1.8	1.8	3.7	4.6
50°	0.9	0.9	1.8	1.8	2.7
52.5°	0.9	0.9	0.9	1.8	1.8
55°	0.9	0.9	0.9	0.9	0.9
57.5°	0.9	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.9	0.9	0.9	0.9	0.9
122.5°	0.9	0.9	0.9	0.9	0.9
125°	0.9	0.9	0.9	0.9	0.9
127.5°	0.9	0.9	0.9	1.8	1.8
130°	0.9	0.9	1.8	1.8	2.7
132.5°	1.8	1.8	1.8	3.7	4.6
135°	1.8	2.7	3.7	7.3	9.1
137.5°	2.7	3.7	5.5	12.8	18.3
140°	3.7	4.6	9.1	27.4	45.6
142.5°	4.6	6.4	16.4	58.4	73.9
145°	7.3	10.0	32.9	104.1	136.9
147.5°	10.0	15.5	61.2	159.8	195.4
150°	16.4	27.4	101.3	207.2	252.9
151°	21.9	33.8	117.8	227.3	270.2
152°	27.4	42.9	136.0	252.9	289.4
153°	34.7	52.9	155.2	273.0	309.5
154°	43.8	64.8	176.2	295.8	329.6
155°	52.9	77.6	197.2	317.7	348.7
156°	64.8	92.2	220.0	342.3	367.9
157°	78.5	109.5	242.8	362.4	388.9
158°	94.0	130.5	266.6	378.8	409.0
159°	113.2	155.2	285.7	395.3	427.2
160°	135.1	178.9	304.9	412.6	441.8
161°	158.8	203.6	325.9	428.1	455.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
162°	180.8	228.2	345.1	442.7	469.2
163°	205.4	253.8	363.3	455.5	482.9
164°	228.2	274.8	377.9	464.7	490.2
165°	252.0	295.8	390.7	469.2	496.6
166°	273.9	315.9	401.7	473.8	500.3
167°	293.9	335.0	412.6	477.4	500.3
168°	314.0	352.4	422.7	479.3	500.3
169°	332.3	368.8	428.1	480.2	499.3
170°	351.5	383.4	433.6	481.1	497.5
171°	368.8	397.1	440.0	480.2	494.8
172°	384.3	408.1	444.6	477.4	492.0
173°	397.1	418.1	449.1	473.8	483.8
174°	409.0	424.5	449.1	469.2	476.5
175°	417.2	429.1	447.3	464.7	469.2
176°	423.6	431.8	445.5	456.4	461.9
177°	428.1	433.6	441.8	450.1	453.7
178°	431.8	434.5	439.1	443.7	445.5
179°	435.4	436.4	438.2	440.0	440.9
180°	438.2	438.2	438.2	438.2	438.2

(END OF REPORT)