

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: P277753

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277753
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-25)
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-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, 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

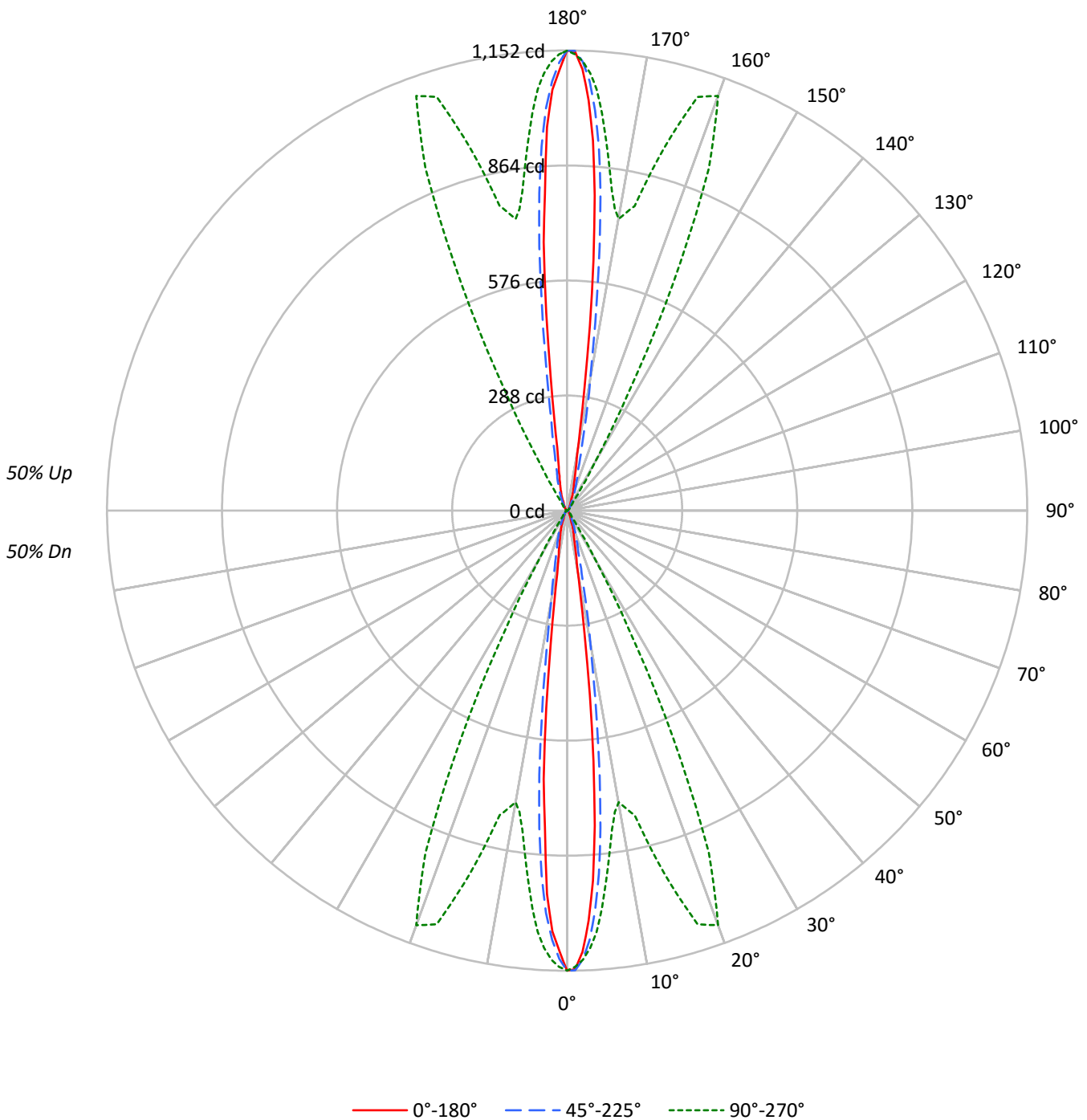
Lumens per Lamp: N/A
Luminaire Lumens: 448.8 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16.1
Input Voltage (V): 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	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°	568176	568176	568176
5°	392051	494818	334105
10°	72844	371284	63075
15°	32588	480444	34427
20°	16749	579963	20949
25°	10615	340730	11105
30°	7577	76739	8603
35°	5903	16021	6384
40°	4573	9725	5152
45°	3698	7396	4326
50°	2686	5450	3377
55°	2322	3785	3011
60°	888	888	1776
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°	63.5	14.1
10°-20°	80.6	18.0
20°-30°	60.1	13.4
30°-40°	11.2	2.5
40°-50°	5.9	1.3
50°-60°	2.8	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°	2.8	0.6
130°-140°	5.9	1.3
140°-150°	11.2	2.5
150°-160°	60.1	13.4
160°-170°	80.6	18.0
170°-180°	63.5	14.1
0°-30°	204.2	45.5
0°-40°	215.4	48.0
0°-60°	224.2	49.9
0°-90°	224.4	50.0
90°-120°	0.4	0.1
90°-150°	20.4	4.5
90°-180°	225.0	50.1
0°-180°	448.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1152	1152	1152	1152	1152	
5°	792	913	999	798	675	51
15°	64	109	941	99	67	19
25°	20	34	626	36	20	9
35°	10	13	27	13	11	6
45°	5	7	11	7	6	4
55°	3	3	4	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	4	4	4	2
135°	5	7	11	7	6	4
145°	10	13	27	13	11	6
155°	20	34	626	36	20	9
165°	64	109	941	99	67	19
175°	792	913	999	798	675	51
180°	1152	1152	1152	1152	1152	



TEST NUMBER: P277753

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6
1°	1148.0	1151.6	1150.7	1149.8	1142.7	1132.1	1122.3	1112.6	1103.7
2°	1105.5	1118.8	1124.1	1131.2	1125.0	1104.6	1075.3	1052.3	1054.0
3°	1028.3	1060.2	1076.2	1100.1	1096.6	1062.0	1008.8	962.7	961.0
4°	928.2	968.9	1004.4	1054.9	1057.6	1003.5	914.0	839.5	795.2
5°	791.6	849.3	913.1	992.0	999.1	929.9	797.8	689.7	674.6
6°	631.2	708.3	798.7	910.4	932.6	836.0	664.9	519.5	498.2
7°	466.3	552.3	666.6	825.3	866.1	745.5	522.1	362.6	339.5
8°	310.3	393.6	533.7	737.6	805.8	657.8	395.4	245.6	227.8
9°	206.6	264.2	416.7	666.6	764.2	587.7	297.9	174.6	159.6
10°	145.4	179.1	331.5	615.2	741.1	534.6	227.8	136.5	125.9
12.5°	89.5	101.1	175.5	527.5	781.0	430.8	140.1	94.9	88.6
15°	63.8	72.7	109.0	486.7	940.6	373.2	99.3	72.7	67.4
17.5°	47.9	55.0	80.7	462.8	1086.0	332.4	77.1	56.7	52.3
20°	31.9	38.1	61.2	408.7	1104.6	273.0	60.3	45.2	39.9
22.5°	23.9	27.5	46.1	295.2	927.3	191.5	46.1	32.8	26.6
25°	19.5	21.3	33.7	165.8	625.9	111.7	35.5	23.9	20.4
27.5°	16.0	17.7	24.8	81.6	328.0	65.6	25.7	18.6	17.7
30°	13.3	14.2	19.5	42.6	134.7	38.1	20.4	16.0	15.1
32.5°	10.6	12.4	16.0	25.7	54.1	24.8	16.0	13.3	12.4
35°	9.8	10.6	13.3	18.6	26.6	17.7	13.3	11.5	10.6
37.5°	8.0	9.8	11.5	14.2	18.6	14.2	11.5	10.6	9.8
40°	7.1	8.0	9.8	12.4	15.1	12.4	9.8	8.9	8.0
42.5°	6.2	7.1	8.9	9.8	12.4	9.8	8.9	8.0	7.1
45°	5.3	6.2	7.1	8.9	10.6	8.9	7.1	7.1	6.2
47.5°	4.4	5.3	6.2	7.1	8.9	7.1	6.2	5.3	5.3
50°	3.5	4.4	5.3	6.2	7.1	6.2	5.3	4.4	4.4
52.5°	2.7	3.5	4.4	4.4	5.3	4.4	4.4	3.5	3.5
55°	2.7	2.7	2.7	3.5	4.4	3.5	3.5	2.7	3.5
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
60°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
62.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
120°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
122.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
125°	2.7	2.7	2.7	3.5	4.4	3.5	3.5	2.7	3.5
127.5°	2.7	3.5	4.4	4.4	5.3	4.4	4.4	3.5	3.5
130°	3.5	4.4	5.3	6.2	7.1	6.2	5.3	4.4	4.4
132.5°	4.4	5.3	6.2	7.1	8.9	7.1	6.2	5.3	5.3
135°	5.3	6.2	7.1	8.9	10.6	8.9	7.1	7.1	6.2
137.5°	6.2	7.1	8.9	9.8	12.4	9.8	8.9	8.0	7.1
140°	7.1	8.0	9.8	12.4	15.1	12.4	9.8	8.9	8.0
142.5°	8.0	9.8	11.5	14.2	18.6	14.2	11.5	10.6	9.8
145°	9.8	10.6	13.3	18.6	26.6	17.7	13.3	11.5	10.6
147.5°	10.6	12.4	16.0	25.7	54.1	24.8	16.0	13.3	12.4
150°	13.3	14.2	19.5	42.6	134.7	38.1	20.4	16.0	15.1
152.5°	16.0	17.7	24.8	81.6	328.0	65.6	25.7	18.6	17.7
155°	19.5	21.3	33.7	165.8	625.9	111.7	35.5	23.9	20.4
157.5°	23.9	27.5	46.1	295.2	927.3	191.5	46.1	32.8	26.6
160°	31.9	38.1	61.2	408.7	1104.6	273.0	60.3	45.2	39.9
162.5°	47.9	55.0	80.7	462.8	1086.0	332.4	77.1	56.7	52.3
165°	63.8	72.7	109.0	486.7	940.6	373.2	99.3	72.7	67.4
167.5°	89.5	101.1	175.5	527.5	781.0	430.8	140.1	94.9	88.6
170°	145.4	179.1	331.5	615.2	741.1	534.6	227.8	136.5	125.9
171°	206.6	264.2	416.7	666.6	764.2	587.7	297.9	174.6	159.6
172°	310.3	393.6	533.7	737.6	805.8	657.8	395.4	245.6	227.8
173°	466.3	552.3	666.6	825.3	866.1	745.5	522.1	362.6	339.5
174°	631.2	708.3	798.7	910.4	932.6	836.0	664.9	519.5	498.2
175°	791.6	849.3	913.1	992.0	999.1	929.9	797.8	689.7	674.6
176°	928.2	968.9	1004.4	1054.9	1057.6	1003.5	914.0	839.5	795.2
177°	1028.3	1060.2	1076.2	1100.1	1096.6	1062.0	1008.8	962.7	961.0
178°	1105.5	1118.8	1124.1	1131.2	1125.0	1104.6	1075.3	1052.3	1054.0
179°	1148.0	1151.6	1150.7	1149.8	1142.7	1132.1	1122.3	1112.6	1103.7
180°	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6	1151.6

(END OF REPORT)