

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: P247013

Luminaire Tested: **213-8LED2710-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247013
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: 213-8LED2710-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI 10° NSP LED
SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

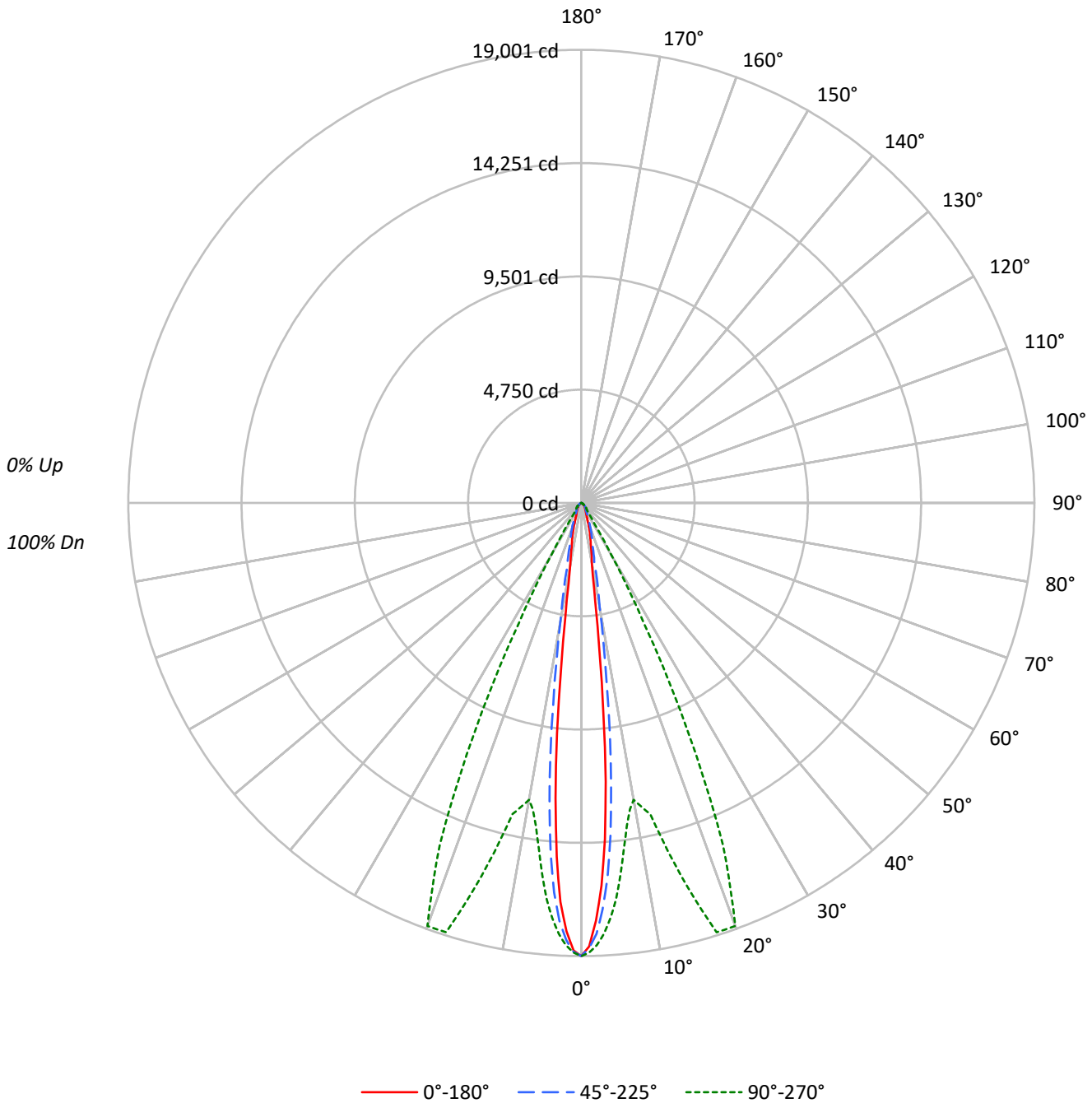
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 533.3 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90				
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85				
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81				
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78				
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74				
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	72	71				
8	87	79	74	71	86	78	74	70	77	73	70	76	73	70	76	72	70	68				
9	84	76	71	68	83	75	71	68	75	70	67	74	70	67	73	70	67	66				
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9374902	9374902	9374902
5°	5810489	8265612	6155787
10°	1269561	6330368	1340801
15°	719388	8273885	719388
20°	382494	9910092	374304
25°	250199	5774881	258691
30°	198599	1398229	207487
35°	161900	334279	171356
40°	142982	224520	142982
45°	120989	198508	120989
50°	97173	158425	97173
55°	82061	122318	82061
60°	46180	63350	46180
65°	36424	36424	18212
70°	22504	22504	22504
75°	29738	29738	29738
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.2	26.8
10°-20°	1371.7	34.3
20°-30°	981.5	24.5
30°-40°	254.1	6.4
40°-50°	172.3	4.3
50°-60°	102.4	2.6
60°-70°	31.2	0.8
70°-80°	14.1	0.4
80°-90°	0.5	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3425.4	85.6
0°-40°	3679.5	92.0
0°-60°	3954.2	98.9
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19001	19001	19001	19001	19001	
5°	11732	14013	16689	14757	12429	749
15°	1408	1790	16198	1899	1408	394
25°	460	649	10608	664	475	222
35°	269	333	555	333	284	170
45°	173	222	284	222	173	134
55°	95	111	142	111	95	83
65°	31	31	31	31	16	27
75°	16	16	16	16	16	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19001.4	19001.4	19001.4	19001.4	19001.4	19001.4	19001.4	19001.4	19001.4
1°	18604.2	18637.2	18668.4	18763.8	18857.5	18826.2	18826.2	18857.5	18763.8
2°	17528.8	17875.7	18082.2	18351.0	18557.4	18493.2	18335.4	18224.4	17971.1
3°	16071.8	16625.1	17069.1	17733.4	18097.8	17955.4	17544.4	17164.5	16751.7
4°	14124.0	14852.5	15723.2	16878.3	17449.0	17195.7	16371.9	15549.7	14868.1
5°	11732.1	12698.2	14013.0	15803.0	16689.3	16214.0	14757.1	13426.6	12429.3
6°	8866.7	10197.1	11938.5	14408.5	15676.4	14883.7	12777.9	10878.7	9721.8
7°	6239.0	7552.0	9817.2	13046.8	14599.2	13586.2	10641.1	8169.5	6918.9
8°	4164.5	5241.7	7695.9	11669.6	13679.9	12240.3	8486.9	5732.5	4797.6
9°	3087.4	3658.0	5874.8	10514.5	13000.0	11067.8	6603.2	4037.8	3420.4
10°	2534.1	2802.9	4448.9	9579.6	12635.7	10150.2	5050.9	3024.9	2676.3
12.5°	1852.4	1963.4	2501.1	7869.4	13364.2	8440.0	2802.9	2025.9	1883.6
15°	1408.4	1472.6	1790.0	6714.2	16198.4	7331.7	1899.2	1535.0	1408.4
17.5°	1028.5	1123.9	1425.7	5621.5	18874.8	6285.8	1488.2	1155.2	1028.5
20°	728.5	823.9	1108.3	4195.7	18874.8	4877.4	1155.2	839.5	712.9
22.5°	570.6	617.5	855.1	2676.3	15516.8	3151.5	886.3	617.5	555.0
25°	459.6	490.9	648.7	1614.8	10608.1	1852.4	664.3	490.9	475.2
27.5°	395.5	411.1	522.1	1061.5	5684.0	1155.2	522.1	426.7	411.1
30°	348.6	364.2	426.7	697.3	2454.3	712.9	426.7	379.8	364.2
32.5°	300.1	333.0	364.2	506.5	1028.5	506.5	379.8	333.0	317.4
35°	268.8	300.1	333.0	395.5	555.0	395.5	333.0	300.1	284.5
37.5°	237.6	268.8	300.1	348.6	426.7	348.6	300.1	284.5	253.2
40°	222.0	237.6	268.8	300.1	348.6	317.4	268.8	253.2	222.0
42.5°	190.8	222.0	237.6	268.8	317.4	268.8	253.2	222.0	206.4
45°	173.4	190.8	222.0	237.6	284.5	253.2	222.0	206.4	173.4
47.5°	157.8	173.4	206.4	206.4	253.2	222.0	206.4	173.4	157.8
50°	126.6	157.8	173.4	190.8	206.4	190.8	173.4	142.2	126.6
52.5°	111.0	126.6	157.8	157.8	173.4	157.8	142.2	126.6	111.0
55°	95.4	111.0	111.0	126.6	142.2	126.6	111.0	95.4	95.4
57.5°	79.8	79.8	95.4	95.4	95.4	95.4	79.8	79.8	64.2
60°	46.8	64.2	64.2	64.2	64.2	64.2	64.2	46.8	46.8
62.5°	31.2	31.2	31.2	46.8	46.8	31.2	31.2	31.2	31.2
65°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	15.6
67.5°	15.6	15.6	31.2	31.2	31.2	31.2	15.6	15.6	15.6
70°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	0.0	0.0
80°	0.0	0.0	15.6	15.6	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

(END OF REPORT)