

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: P247009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247009
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: 213-8LED2710-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, 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

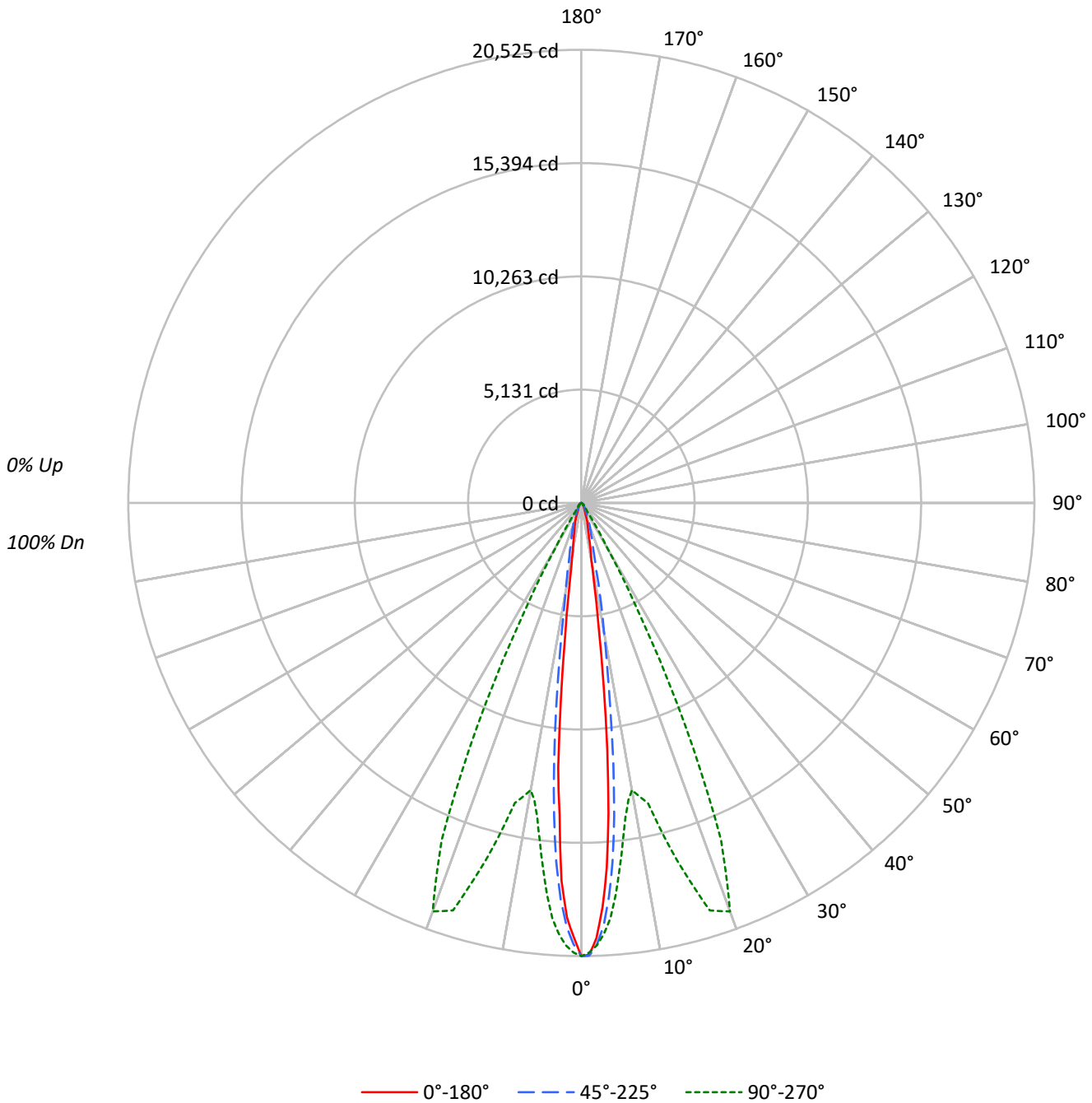
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 500.0 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	81	78	77
7	92	85	80	77	91	84	79	76	83	79	76	82	78	76	81	78	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10126418	10126418	10126418
5°	6988178	8819219	5955205
10°	1298117	6618037	1123822
15°	580864	8563398	613554
20°	299012	10337372	373516
25°	189391	6072822	197884
30°	135077	1368718	152852
35°	104259	285673	114679
40°	81409	172802	91392
45°	66425	132850	77310
50°	49124	97020	61098
55°	40170	68470	55052
60°	15393	15393	30787
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°	1131.7	28.3
10°-20°	1436.0	35.9
20°-30°	1071.4	26.8
30°-40°	200.2	5.0
40°-50°	105.7	2.6
50°-60°	50.3	1.3
60°-70°	4.6	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°	0.0	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°	3639.2	91.0
0°-40°	3839.3	96.0
0°-60°	3995.4	99.9
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°	20525	20525	20525	20525	20525	
5°	14110	16275	17807	14221	12024	902
15°	1137	1944	16765	1769	1201	340
25°	348	601	11155	632	364	165
35°	173	237	474	237	190	107
45°	95	126	190	126	111	73
55°	47	47	80	64	64	37
65°	0	0	0	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	20524.6	20524.6	20524.6	20524.6	20524.6	20524.6	20524.6	20524.6	20524.6
1°	20462.3	20524.6	20509.0	20493.5	20367.1	20178.4	20003.6	19830.5	19671.3
2°	19704.2	19941.3	20034.8	20161.1	20052.1	19688.6	19165.9	18755.7	18786.8
3°	18328.1	18897.6	19181.5	19609.0	19544.9	18928.7	17982.0	17159.8	17128.6
4°	16543.6	17270.6	17902.3	18802.4	18850.9	17886.8	16290.9	14963.3	14174.0
5°	14110.0	15136.4	16275.3	17680.8	17807.1	16574.8	14220.8	12292.6	12024.3
6°	11250.6	12624.9	14236.3	16226.9	16623.2	14901.0	11851.2	9260.2	8879.4
7°	8311.7	9843.4	11882.4	14710.6	15437.6	13287.8	9306.9	6463.1	6051.1
8°	5530.1	7015.2	9512.8	13145.9	14362.7	11724.8	7046.4	4377.4	4060.6
9°	3681.6	4708.0	7427.2	11882.4	13620.2	10475.2	5308.6	3112.1	2843.8
10°	2591.1	3191.7	5909.2	10965.0	13209.9	9528.4	4060.6	2433.6	2243.2
12.5°	1595.9	1801.8	3129.4	9402.0	13921.3	7679.9	2495.9	1691.1	1580.3
15°	1137.2	1296.4	1943.8	8675.1	16765.2	6651.8	1769.0	1296.4	1201.2
17.5°	853.3	979.7	1438.4	8247.6	19356.3	5924.8	1374.3	1010.8	932.9
20°	569.5	680.2	1090.5	7283.5	19688.6	4867.2	1074.9	806.6	711.4
22.5°	425.8	489.8	822.2	5261.9	16528.0	3413.3	822.2	585.0	474.3
25°	347.9	379.1	600.6	2954.6	11155.4	1990.5	631.8	425.8	363.5
27.5°	283.9	316.8	443.1	1453.9	5846.9	1170.1	458.7	332.3	316.8
30°	237.1	252.7	347.9	758.1	2402.5	680.2	363.5	283.9	268.3
32.5°	190.4	221.6	283.9	458.7	964.1	443.1	283.9	237.1	221.6
35°	173.1	190.4	237.1	332.3	474.3	316.8	237.1	206.0	190.4
37.5°	141.9	173.1	206.0	252.7	332.3	252.7	206.0	190.4	173.1
40°	126.4	141.9	173.1	221.6	268.3	221.6	173.1	157.5	141.9
42.5°	110.8	126.4	157.5	173.1	221.6	173.1	157.5	141.9	126.4
45°	95.2	110.8	126.4	157.5	190.4	157.5	126.4	126.4	110.8
47.5°	79.6	95.2	110.8	126.4	157.5	126.4	110.8	95.2	95.2
50°	64.0	79.6	95.2	110.8	126.4	110.8	95.2	79.6	79.6
52.5°	46.7	64.0	79.6	79.6	95.2	79.6	79.6	64.0	64.0
55°	46.7	46.7	46.7	64.0	79.6	64.0	64.0	46.7	64.0
57.5°	31.2	31.2	31.2	31.2	31.2	31.2	46.7	46.7	46.7
60°	15.6	15.6	15.6	15.6	15.6	15.6	31.2	31.2	31.2
62.5°	0.0	0.0	0.0	0.0	15.6	15.6	15.6	15.6	15.6
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

(END OF REPORT)