

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: P247028

Luminaire Tested: **213-8LED2736-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247028
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: 213-8LED2736-12-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

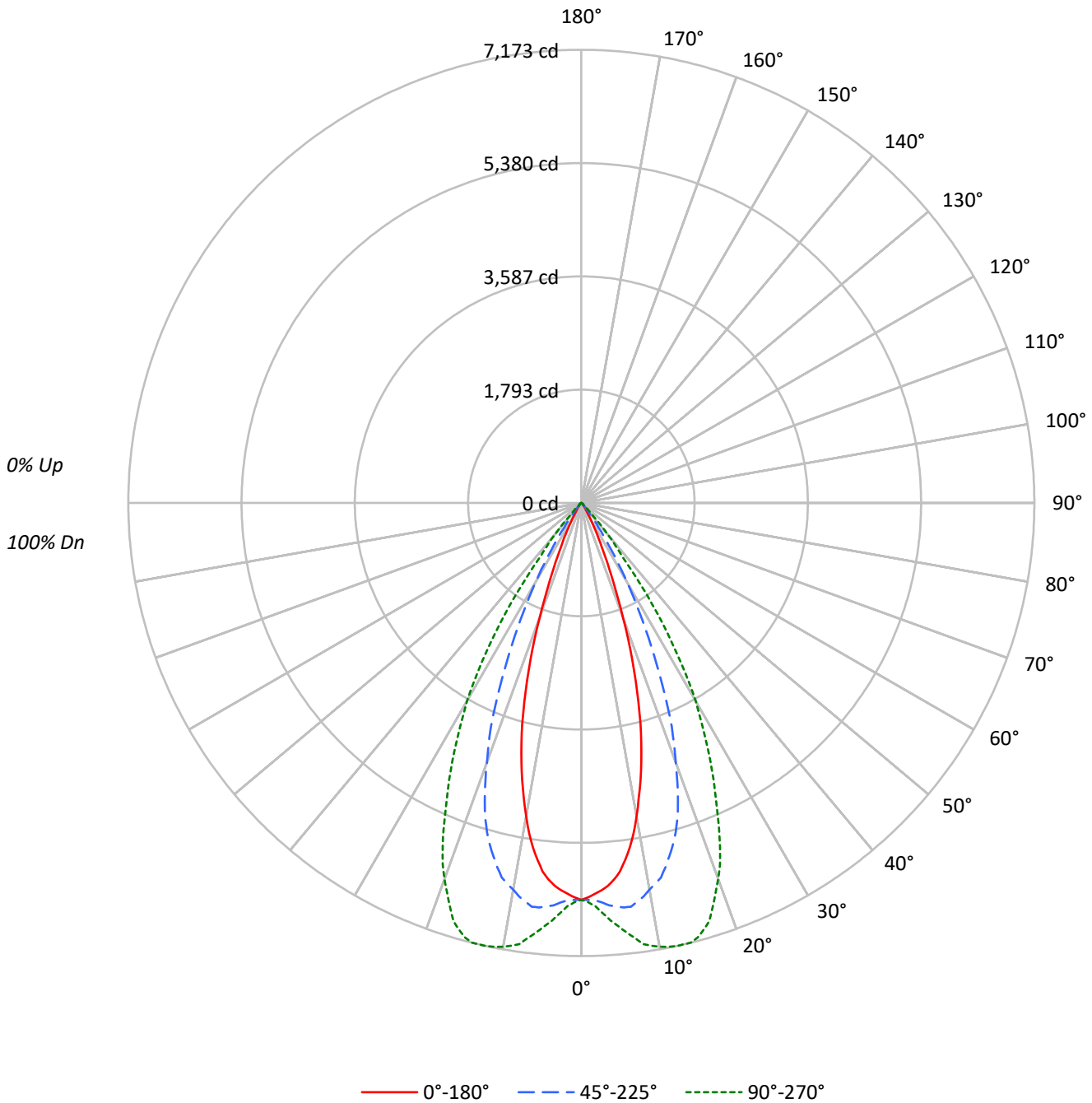
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 512.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	87	90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65
9	81	72	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3099756	3099756	3099756
5°	2962522	3176228	3331741
10°	2524843	3114559	3573567
15°	1845514	2861259	3636834
20°	1017009	2295228	3325836
25°	412915	1539192	2721648
30°	133938	827440	2065753
35°	63061	284107	1182205
40°	34135	84050	421087
45°	18002	36980	91056
50°	9902	19803	29705
55°	11096	11096	11096
60°	12729	12729	12729
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°	604.1	15.1
10°-20°	1498.8	37.5
20°-30°	1301.0	32.5
30°-40°	514.7	12.9
40°-50°	66.1	1.7
50°-60°	13.7	0.3
60°-70°	1.6	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°	0.0	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°	3404.0	85.1
0°-40°	3918.7	98.0
0°-60°	3998.5	100.0
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°	22.5°	45°	67.5°	90°	Flux
0°	6283	6283	6283	6283	6283	
5°	5982	6152	6413	6663	6727	541
15°	3613	4241	5602	6727	7120	961
25°	758	1113	2827	4555	5000	379
35°	105	143	472	1492	1963	70
45°	26	39	53	105	130	23
55°	13	13	13	13	13	12
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6282.7	6282.7	6282.7	6282.7	6282.7
1°	6242.6	6256.9	6282.7	6308.6	6321.5
2°	6191.0	6229.7	6295.6	6361.6	6387.4
3°	6137.9	6216.8	6334.4	6453.4	6505.0
4°	6073.4	6191.0	6387.4	6543.7	6622.5
5°	5981.7	6152.3	6413.2	6662.7	6727.2
6°	5864.1	6086.3	6439.0	6727.2	6831.9
7°	5693.5	5994.6	6439.0	6793.2	6936.5
8°	5509.9	5851.2	6374.5	6844.8	7054.1
9°	5287.7	5693.5	6308.6	6884.9	7094.3
10°	5039.7	5497.0	6216.8	6897.8	7133.0
11°	4764.4	5287.7	6137.9	6884.9	7158.8
12°	4502.0	5052.6	6060.5	6872.0	7173.1
13°	4213.8	4803.1	5915.7	6844.8	7173.1
14°	3927.1	4529.3	5759.4	6793.2	7173.1
15°	3613.1	4241.1	5601.7	6727.2	7120.1
16°	3271.8	3940.0	5418.2	6662.7	7028.3
17°	2944.9	3638.9	5208.9	6530.8	6923.6
18°	2592.2	3271.8	4947.9	6347.3	6727.2
19°	2276.8	2919.1	4672.6	6137.9	6530.8
20°	1937.0	2565.0	4371.5	5915.7	6334.4
21°	1623.0	2225.2	4096.3	5667.7	6125.0
22°	1347.7	1871.1	3822.4	5431.1	5864.1
23°	1125.5	1570.0	3481.2	5196.0	5575.9
24°	929.1	1321.9	3154.3	4907.8	5274.8
25°	758.5	1112.6	2827.4	4555.1	4999.5
26°	628.0	929.1	2526.3	4241.1	4725.7
27°	497.5	758.5	2225.2	3914.2	4437.5
28°	392.9	615.1	1949.9	3626.0	4149.3
29°	314.0	484.6	1689.0	3258.9	3874.0
30°	235.1	392.9	1452.4	2970.8	3626.0
32.5°	143.4	222.2	877.5	2291.2	2801.6
35°	104.7	143.4	471.7	1492.5	1962.8
37.5°	66.0	91.8	235.1	837.3	1059.6
40°	53.0	66.0	130.5	392.9	653.8
42.5°	38.7	53.0	78.9	183.5	262.4
45°	25.8	38.7	53.0	104.7	130.5
47.5°	25.8	25.8	25.8	53.0	66.0
50°	12.9	12.9	25.8	25.8	38.7
52.5°	12.9	12.9	12.9	25.8	25.8
55°	12.9	12.9	12.9	12.9	12.9
57.5°	12.9	12.9	12.9	12.9	12.9
60°	12.9	12.9	12.9	12.9	12.9
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

(END OF REPORT)