

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: P247018

Luminaire Tested: **230-8LED2725-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247018
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-29)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2725-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI LED
SM16-07-25D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

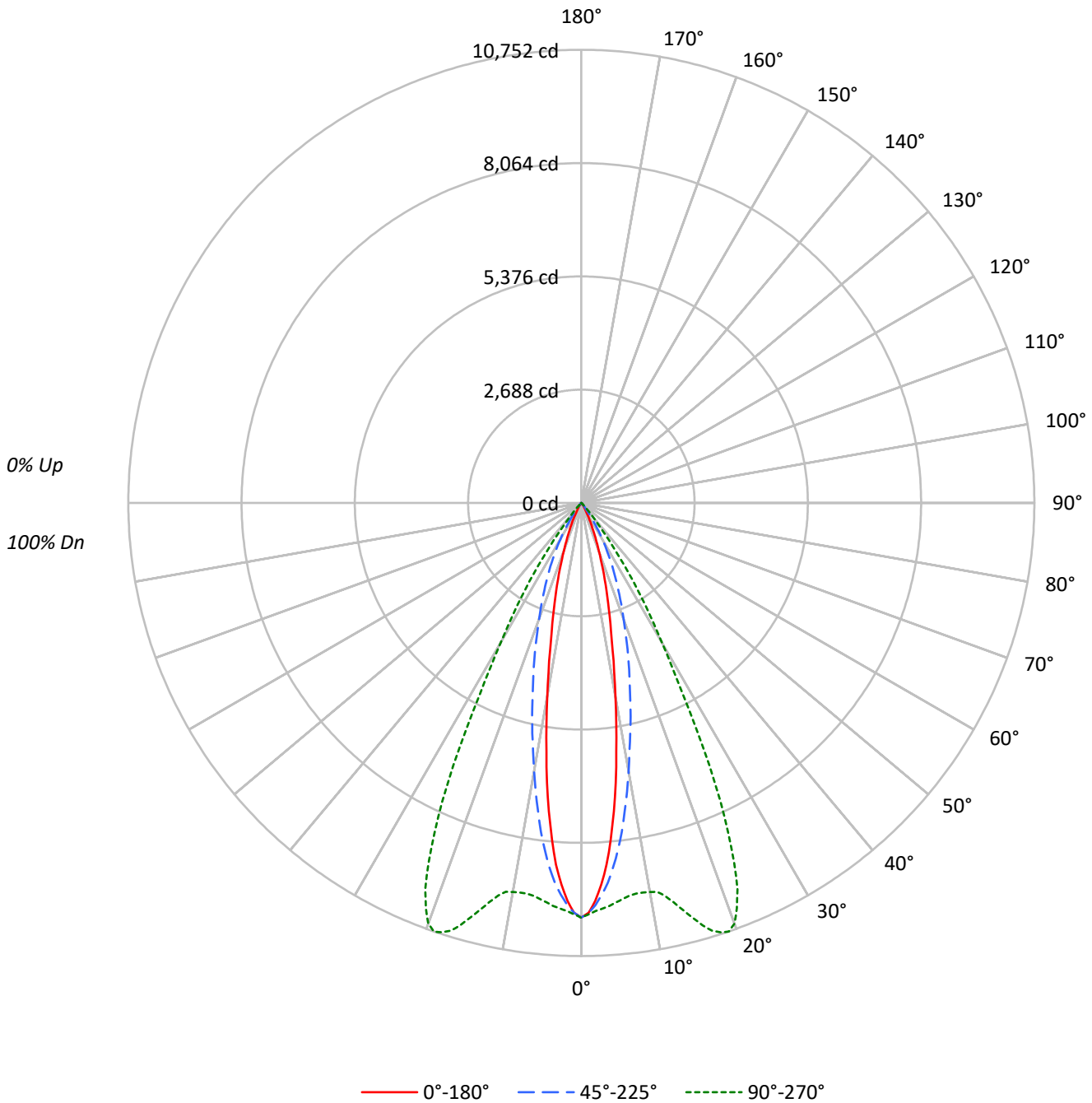
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 506.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	69	77	72	69	76	72	69	75	71	69	67
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4854904	4854904	4854904
5°	3971771	4297011	4710804
10°	2338575	3238154	4695185
15°	1253362	2267524	5200957
20°	637245	1540793	5578220
25°	296417	1012228	4255559
30°	101009	569136	2176219
35°	45896	197797	967182
40°	24088	65115	252536
45°	17374	26096	44446
50°	9595	19112	19112
55°	10752	10752	10752
60°	12334	12334	12334
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°	765.9	19.1
10°-20°	1496.2	37.4
20°-30°	1279.1	32.0
30°-40°	401.0	10.0
40°-50°	44.4	1.1
50°-60°	12.0	0.3
60°-70°	1.5	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°	3541.1	88.5
0°-40°	3942.1	98.6
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°	9840	9840	9840	9840	9840	
5°	8020	8158	8676	9271	9512	652
15°	2454	2846	4439	7766	10182	688
25°	544	747	1859	4629	7817	260
35°	76	101	328	1075	1606	55
45°	25	25	37	64	64	21
55°	12	12	12	12	12	11
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°
0°	9840.1	9840.1	9840.1	9840.1	9840.1
1°	9726.5	9714.0	9726.5	9751.4	9763.9
2°	9448.0	9460.4	9549.1	9650.3	9689.1
3°	9068.3	9107.1	9309.4	9549.1	9637.8
4°	8601.4	8676.2	9030.9	9423.0	9587.9
5°	8019.5	8158.0	8676.2	9270.6	9511.7
6°	7361.4	7576.1	8284.1	9094.7	9448.0
7°	6690.8	6969.2	7867.1	8929.8	9385.6
8°	5957.8	6323.6	7386.3	8715.0	9359.3
9°	5299.7	5691.8	6931.8	8550.1	9359.3
10°	4667.9	5084.9	6463.5	8372.8	9371.8
11°	4085.9	4515.5	5995.2	8195.4	9398.1
12°	3566.4	4009.7	5590.6	8032.0	9524.2
13°	3124.4	3578.8	5198.5	7930.8	9726.5
14°	2769.7	3174.3	4794.0	7842.1	9953.7
15°	2453.8	2845.9	4439.3	7765.9	10182.3
16°	2162.8	2542.5	4110.9	7627.4	10422.0
17°	1896.8	2276.4	3795.0	7499.9	10611.8
18°	1644.6	2010.4	3491.6	7336.4	10713.0
19°	1416.0	1783.2	3200.6	7107.8	10751.8
20°	1213.7	1556.0	2934.6	6843.2	10624.3
21°	1050.2	1353.7	2693.5	6539.7	10295.9
22°	885.4	1176.3	2466.3	6108.8	9891.3
23°	759.3	999.0	2251.5	5615.6	9284.5
24°	645.7	860.4	2049.2	5122.3	8562.6
25°	544.5	746.8	1859.4	4629.1	7817.2
26°	455.8	631.8	1669.6	4123.4	6931.8
27°	379.6	544.5	1492.2	3693.8	5995.2
28°	291.0	443.4	1314.9	3250.5	5122.3
29°	227.2	354.7	1163.9	2821.0	4414.3
30°	177.3	278.5	999.0	2453.8	3819.9
32.5°	113.6	164.9	631.8	1707.0	2631.1
35°	76.2	101.1	328.4	1075.2	1605.8
37.5°	63.7	76.2	177.3	557.0	771.7
40°	37.4	51.3	101.1	239.7	392.1
42.5°	37.4	37.4	63.7	113.6	138.6
45°	24.9	24.9	37.4	63.7	63.7
47.5°	24.9	24.9	24.9	37.4	51.3
50°	12.5	12.5	24.9	24.9	24.9
52.5°	12.5	12.5	12.5	12.5	12.5
55°	12.5	12.5	12.5	12.5	12.5
57.5°	12.5	12.5	12.5	12.5	12.5
60°	12.5	12.5	12.5	12.5	12.5
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)