

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: P247023

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247023
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-41)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2725-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 90 CRI LED
SM16-07-25D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

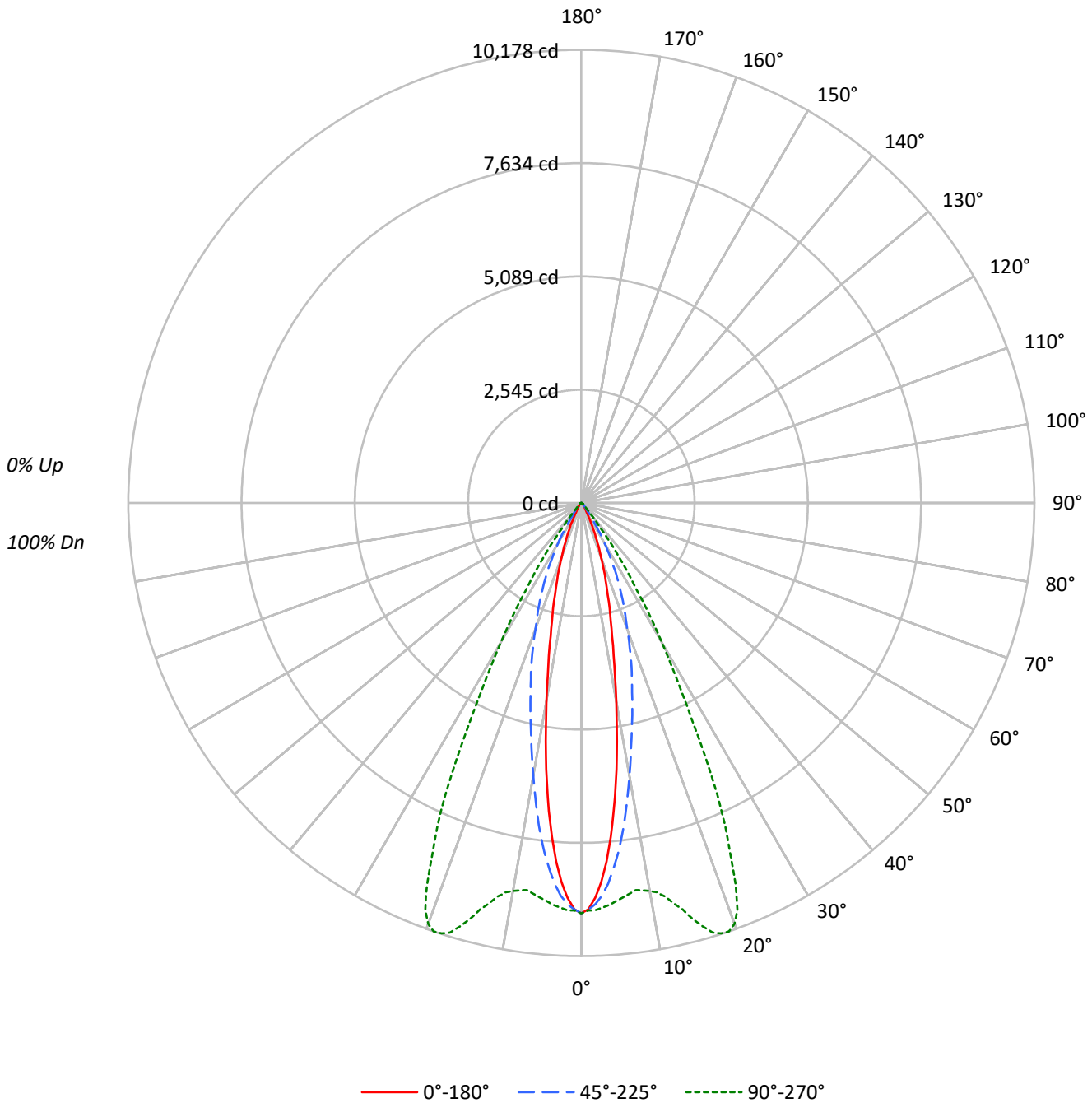
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 540.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.4
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	96	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	88	91	88	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4547923	4547923	4547923
5°	3733499	4088901	4444303
10°	2254158	3114609	4431664
15°	1250961	2252354	4943624
20°	679826	1588204	5283671
25°	334851	1074886	3936333
30°	131203	599216	2066493
35°	84564	216529	880510
40°	57901	90426	222523
45°	45074	53866	80380
50°	39913	49585	59256
55°	32601	32601	44729
60°	24965	24965	37398
65°	14710	29536	29536
70°	18176	18176	18176
75°	24019	24019	24019
80°	0	0	35800
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.2	18.2
10°-20°	1463.2	36.6
20°-30°	1261.3	31.5
30°-40°	401.7	10.0
40°-50°	72.9	1.8
50°-60°	39.5	1.0
60°-70°	19.7	0.5
70°-80°	11.8	0.3
80°-90°	0.6	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°	3453.7	86.3
0°-40°	3855.4	96.4
0°-60°	3967.8	99.2
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°	9218	9218	9218	9218	9218	
5°	7538	7821	8256	8781	8974	619
15°	2449	2974	4410	7448	9678	686
25°	615	859	1974	4462	7231	288
35°	140	167	360	1052	1462	90
45°	65	65	77	102	115	51
55°	38	38	38	52	52	34
65°	13	13	25	25	25	14
75°	13	13	13	13	13	8
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°	9217.9	9217.9	9217.9	9217.9	9217.9
1°	9128.1	9140.7	9128.1	9153.3	9153.3
2°	8871.1	8935.7	9012.9	9128.1	9153.3
3°	8525.6	8640.8	8833.1	9038.2	9101.4
4°	8076.2	8268.6	8576.2	8923.0	9050.8
5°	7538.4	7820.6	8256.0	8781.2	8973.6
6°	6961.2	7294.0	7910.5	8628.1	8910.4
7°	6346.1	6743.5	7513.1	8461.0	8845.8
8°	5731.0	6166.4	7089.0	8256.0	8781.2
9°	5089.2	5589.2	6653.6	8050.9	8807.9
10°	4499.4	5038.7	6216.9	7910.5	8845.8
11°	3961.6	4512.1	5806.8	7768.7	8910.4
12°	3499.6	4064.1	5409.4	7666.2	9038.2
13°	3064.2	3654.0	5064.0	7588.9	9230.6
14°	2730.0	3294.5	4731.1	7525.7	9410.3
15°	2449.1	2974.3	4409.6	7448.5	9678.5
16°	2166.9	2679.4	4114.6	7371.3	9896.2
17°	1909.9	2422.4	3846.4	7268.7	10088.6
18°	1704.8	2166.9	3564.2	7115.7	10165.8
19°	1474.5	1909.9	3294.5	6935.9	10178.5
20°	1294.8	1679.6	3024.9	6691.6	10063.3
21°	1127.7	1474.5	2781.9	6396.7	9781.1
22°	974.6	1294.8	2589.6	5999.2	9268.5
23°	832.8	1127.7	2384.5	5563.9	8563.5
24°	717.6	987.2	2179.5	4986.7	7948.4
25°	615.1	859.4	1974.5	4461.5	7230.8
26°	512.6	730.2	1782.1	3986.9	6396.7
27°	410.1	615.1	1589.7	3524.8	5499.3
28°	332.8	499.9	1397.3	3089.5	4781.7
29°	269.6	410.1	1217.5	2692.1	4179.2
30°	230.3	332.8	1051.8	2384.5	3627.3
32.5°	179.8	217.7	640.4	1679.6	2319.9
35°	140.4	167.1	359.5	1051.8	1461.9
37.5°	102.5	115.2	217.7	525.2	679.7
40°	89.9	102.5	140.4	257.0	345.5
42.5°	77.2	77.2	102.5	140.4	179.8
45°	64.6	64.6	77.2	102.5	115.2
47.5°	52.0	52.0	64.6	77.2	89.9
50°	52.0	52.0	64.6	64.6	77.2
52.5°	37.9	52.0	52.0	52.0	52.0
55°	37.9	37.9	37.9	52.0	52.0
57.5°	37.9	37.9	37.9	37.9	37.9
60°	25.3	25.3	25.3	37.9	37.9
62.5°	12.6	25.3	25.3	25.3	25.3
65°	12.6	12.6	25.3	25.3	25.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	12.6	12.6	12.6	12.6	25.3
70°	12.6	12.6	12.6	12.6	12.6
72.5°	12.6	12.6	12.6	12.6	12.6
75°	12.6	12.6	12.6	12.6	12.6
77.5°	0.0	12.6	12.6	12.6	12.6
80°	0.0	0.0	0.0	12.6	12.6
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)