

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: G2-1802-569-45

Luminaire Tested: **213-8LED4036-12-CS-LSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-45
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 213-8LED4036-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

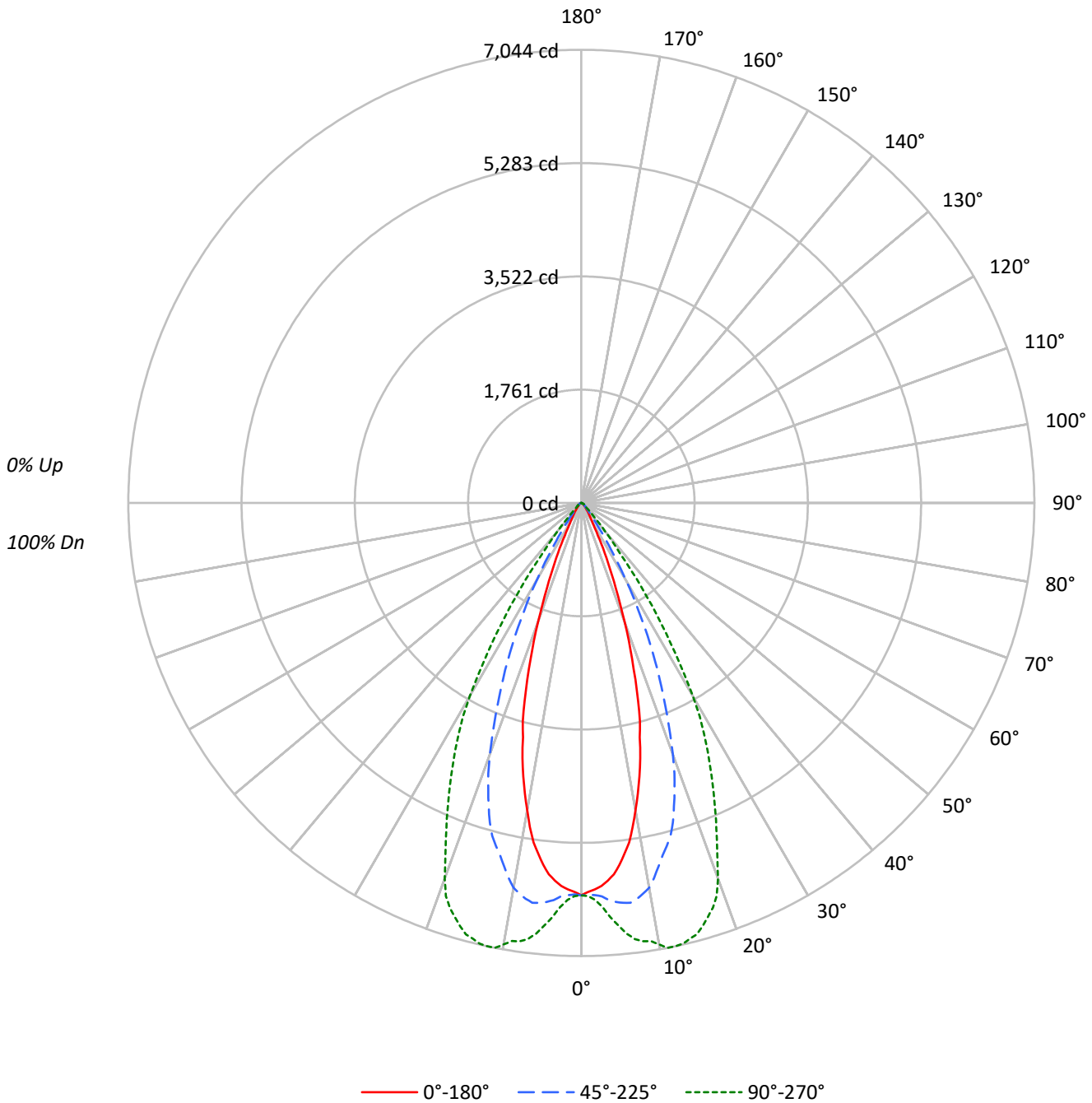
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 526.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): 12.0
Input Current (Ain): 0.669
Voltage Rise (V): NR
Power Factor: 0.9907
Total Harmonic Distortion (THDi): 27.4
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.2
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3009221	3009221	3009221
5°	2870947	3083119	3264138
10°	2430657	3043018	3491254
15°	1795866	2735606	3546629
20°	1025568	2183446	3261886
25°	466483	1481814	2627415
30°	193814	796904	1974315
35°	113836	296033	1070176
40°	73037	121728	365247
45°	52749	70333	131874
50°	48356	58028	67699
55°	43353	43353	54191
60°	37299	37299	49733
65°	29419	29419	29419
70°	18176	18176	36352
75°	24019	24019	24019
80°	0	35800	35800
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	14.7
10°-20°	1449.0	36.2
20°-30°	1260.4	31.5
30°-40°	508.6	12.7
40°-50°	102.4	2.6
50°-60°	49.4	1.2
60°-70°	28.0	0.7
70°-80°	13.3	0.3
80°-90°	2.4	0.1
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°	3295.9	82.4
0°-40°	3804.5	95.1
0°-60°	3956.3	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°	22.5°	45°	67.5°	90°	Flux
0°	6099	6099	6099	6099	6099	
5°	5797	5935	6225	6490	6591	523
15°	3516	4121	5356	6515	6944	935
25°	857	1172	2722	4272	4826	416
35°	189	214	492	1374	1777	122
45°	76	88	101	151	189	63
55°	50	50	50	63	63	42
65°	25	25	25	25	25	25
75°	13	13	13	13	13	12
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°	6099.2	6099.2	6099.2	6099.2	6099.2
1°	6048.8	6074.0	6086.6	6099.2	6111.8
2°	6011.0	6036.2	6099.2	6162.2	6174.8
3°	5960.6	6011.0	6124.4	6250.4	6288.2
4°	5885.0	5985.8	6187.4	6376.5	6452.1
5°	5796.8	5935.4	6225.2	6489.9	6590.7
6°	5658.2	5872.4	6250.4	6590.7	6729.3
7°	5494.3	5759.0	6263.0	6678.9	6830.1
8°	5330.5	5620.4	6212.6	6716.7	6880.5
9°	5103.7	5456.5	6149.6	6678.9	6893.1
10°	4851.7	5280.1	6074.0	6666.3	6968.7
11°	4599.6	5065.9	5935.4	6691.5	7044.4
12°	4347.6	4839.1	5771.6	6716.7	7044.4
13°	4070.3	4612.2	5620.4	6666.3	7031.7
14°	3755.3	4372.8	5494.3	6603.3	6981.3
15°	3515.9	4120.8	5355.7	6515.1	6943.5
16°	3200.8	3843.5	5166.7	6401.7	6842.7
17°	2873.2	3541.1	4927.3	6263.0	6729.3
18°	2545.5	3200.8	4687.8	6111.8	6615.9
19°	2268.3	2835.4	4448.4	5960.6	6464.7
20°	1953.3	2495.1	4158.6	5784.2	6212.6
21°	1688.6	2167.5	3856.1	5557.3	5897.6
22°	1424.0	1877.7	3553.7	5242.3	5620.4
23°	1209.8	1613.0	3263.8	4889.5	5355.7
24°	1020.7	1373.6	2986.6	4574.4	5091.1
25°	856.9	1172.0	2722.0	4272.0	4826.4
26°	705.7	982.9	2444.7	3969.5	4574.4
27°	567.1	806.5	2167.5	3704.9	4322.4
28°	466.3	667.9	1890.3	3415.1	4057.7
29°	390.7	554.5	1650.8	3112.6	3793.1
30°	340.2	453.7	1398.8	2860.6	3465.5
32.5°	239.4	302.4	856.9	2129.7	2583.3
35°	189.0	214.2	491.5	1373.6	1776.8
37.5°	138.6	163.8	289.8	781.3	995.5
40°	113.4	126.0	189.0	390.7	567.1
42.5°	100.8	100.8	138.6	226.8	289.8
45°	75.6	88.2	100.8	151.2	189.0
47.5°	63.0	75.6	88.2	100.8	113.4
50°	63.0	63.0	75.6	75.6	88.2
52.5°	50.4	63.0	63.0	63.0	75.6
55°	50.4	50.4	50.4	63.0	63.0
57.5°	37.8	37.8	50.4	50.4	50.4
60°	37.8	37.8	37.8	50.4	50.4
62.5°	25.2	25.2	37.8	37.8	37.8
65°	25.2	25.2	25.2	25.2	25.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	25.2	25.2	25.2	25.2	25.2
70°	12.6	12.6	12.6	25.2	25.2
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°	12.6	12.6	12.6	12.6	12.6
80°	0.0	0.0	12.6	12.6	12.6
82.5°	0.0	0.0	0.0	12.6	12.6
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)