

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: P246990

Luminaire Tested: **230-8LED3036-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246990
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED3036-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 90 CRI LED
SM16-07-36D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

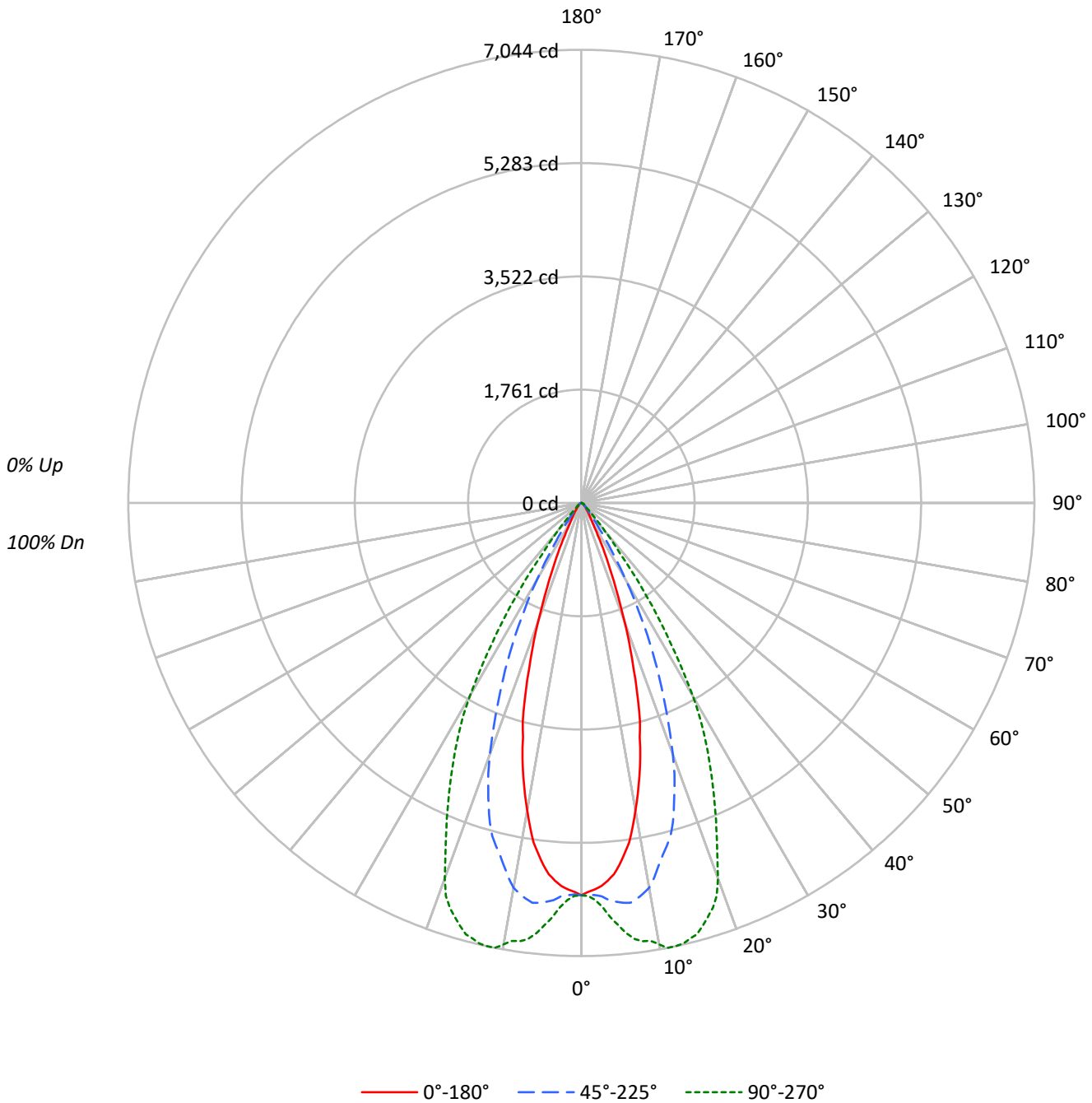
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 526.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): 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	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	90	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	58	57

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3009221	3009221	3009221
5°	2870799	3082673	3263593
10°	2430406	3042817	3490753
15°	1795457	2735657	3546629
20°	1025410	2182921	3261308
25°	466592	1481814	2627034
30°	193529	796847	1974258
35°	113836	296214	1070116
40°	73230	121728	365247
45°	52540	70402	131874
50°	47973	57797	67622
55°	42751	42751	53761
60°	37892	37892	49042
65°	29886	29886	29886
70°	18465	18465	36929
75°	24400	24400	24400
80°	0	36368	36368
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.4	14.7
10°-20°	1448.9	36.2
20°-30°	1260.3	31.5
30°-40°	508.6	12.7
40°-50°	102.4	2.6
50°-60°	49.0	1.2
60°-70°	28.4	0.7
70°-80°	13.5	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°	3295.6	82.4
0°-40°	3804.2	95.1
0°-60°	3955.7	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°	5796	5934	6224	6489	6590	523
15°	3515	4121	5356	6514	6944	935
25°	857	1171	2722	4271	4826	416
35°	189	215	492	1373	1777	122
45°	75	88	101	151	189	63
55°	50	50	50	62	62	42
65°	26	26	26	26	26	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°	6048.1	6073.6	6086.4	6099.2	6110.6
2°	6011.1	6035.3	6099.2	6161.8	6174.6
3°	5959.9	6011.1	6123.4	6249.9	6288.3
4°	5884.6	5985.5	6187.4	6376.4	6451.7
5°	5796.5	5934.3	6224.3	6488.7	6589.6
6°	5657.2	5871.8	6249.9	6589.6	6728.9
7°	5493.7	5758.1	6262.7	6677.7	6829.8
8°	5330.2	5620.2	6211.5	6716.1	6879.6
9°	5102.8	5456.8	6149.0	6677.7	6892.4
10°	4851.2	5279.1	6073.6	6666.4	6967.7
11°	4599.6	5065.9	5934.3	6690.5	7044.5
12°	4346.6	4838.4	5770.9	6716.1	7044.5
13°	4069.5	4612.4	5620.2	6666.4	7031.7
14°	3755.3	4372.2	5493.7	6602.4	6980.5
15°	3515.1	4120.6	5355.8	6514.3	6943.5
16°	3201.0	3843.5	5166.8	6400.6	6842.6
17°	2872.6	3540.7	4926.6	6262.7	6728.9
18°	2545.7	3201.0	4687.8	6110.6	6615.2
19°	2268.6	2835.7	4447.6	5959.9	6464.5
20°	1953.0	2494.6	4157.6	5783.7	6211.5
21°	1688.6	2167.6	3856.3	5556.2	5897.4
22°	1424.2	1877.7	3553.5	5242.1	5620.2
23°	1209.6	1613.3	3263.5	4889.6	5355.8
24°	1020.6	1373.1	2986.4	4574.1	5090.0
25°	857.1	1171.2	2722.0	4271.3	4825.7
26°	705.0	982.2	2444.8	3968.5	4574.1
27°	567.1	805.9	2167.6	3704.2	4322.5
28°	466.2	668.1	1890.5	3414.2	4058.1
29°	390.9	554.3	1650.2	3112.9	3792.3
30°	339.7	453.4	1398.7	2859.9	3465.4
32.5°	238.8	302.8	857.1	2129.3	2582.7
35°	189.0	214.6	491.8	1373.1	1776.7
37.5°	139.3	163.5	290.0	781.8	995.0
40°	113.7	126.5	189.0	390.9	567.1
42.5°	100.9	100.9	139.3	227.4	290.0
45°	75.3	88.1	100.9	150.7	189.0
47.5°	62.5	75.3	88.1	100.9	113.7
50°	62.5	62.5	75.3	75.3	88.1
52.5°	49.7	62.5	62.5	62.5	75.3
55°	49.7	49.7	49.7	62.5	62.5
57.5°	38.4	38.4	49.7	49.7	49.7
60°	38.4	38.4	38.4	49.7	49.7
62.5°	25.6	25.6	38.4	38.4	38.4
65°	25.6	25.6	25.6	25.6	25.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	25.6	25.6	25.6	25.6	25.6
70°	12.8	12.8	12.8	25.6	25.6
72.5°	12.8	12.8	12.8	12.8	12.8
75°	12.8	12.8	12.8	12.8	12.8
77.5°	12.8	12.8	12.8	12.8	12.8
80°	0.0	0.0	12.8	12.8	12.8
82.5°	0.0	0.0	0.0	12.8	12.8
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)