

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: P246985

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246985
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: 230-8LED3036-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 95 CRI LED
SM16-07-36D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

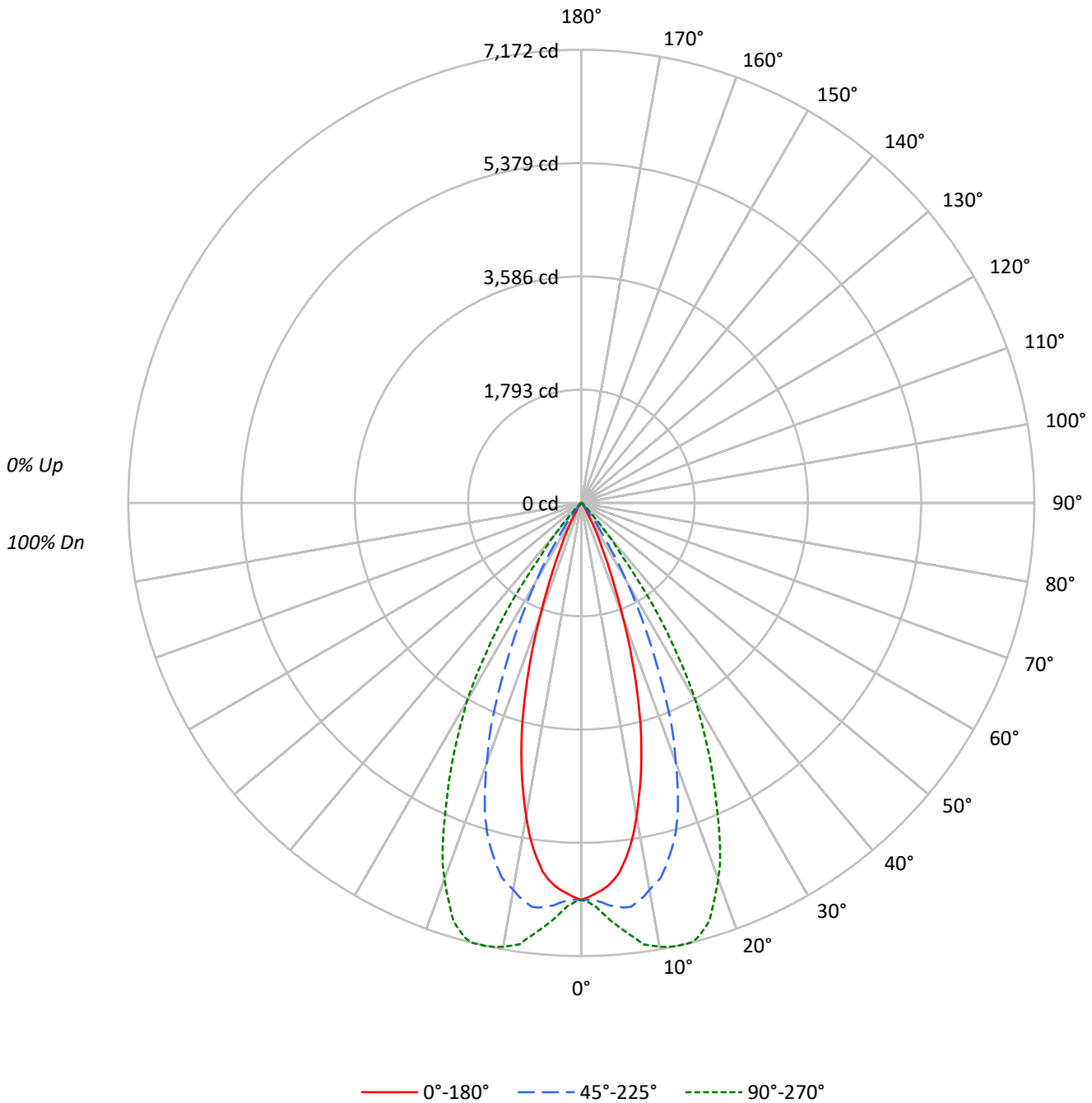
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 512.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	69	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°	3099164	3099164	3099164
5°	2961828	3176030	3331791
10°	2524192	3114409	3572966
15°	1845156	2860851	3636783
20°	1016904	2295070	3325941
25°	413079	1538974	2721158
30°	134564	827554	2065582
35°	63122	283626	1182566
40°	33298	84630	421216
45°	18560	36073	91684
50°	10209	20417	30626
55°	11440	11440	11440
60°	13124	13124	13124
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°	1498.7	37.5
20°-30°	1300.9	32.5
30°-40°	514.7	12.9
40°-50°	66.1	1.7
50°-60°	14.1	0.4
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°	3403.6	85.1
0°-40°	3918.3	98.0
0°-60°	3998.4	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°	6282	6282	6282	6282	6282	
5°	5980	6152	6413	6661	6727	541
15°	3612	4240	5601	6727	7120	961
25°	759	1113	2827	4554	4999	379
35°	105	145	471	1492	1963	70
45°	27	40	52	105	131	24
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°	6281.5	6281.5	6281.5	6281.5	6281.5
1°	6243.1	6254.9	6281.5	6308.0	6321.3
2°	6189.9	6229.8	6294.7	6359.7	6386.3
3°	6138.3	6216.5	6334.6	6451.2	6504.4
4°	6071.8	6189.9	6386.3	6542.8	6622.5
5°	5980.3	6151.5	6412.8	6660.9	6727.3
6°	5862.2	6085.1	6439.4	6727.3	6832.1
7°	5692.4	5993.6	6439.4	6792.2	6935.4
8°	5509.4	5850.4	6373.0	6843.9	7053.5
9°	5286.5	5692.4	6308.0	6883.8	7093.4
10°	5038.4	5496.1	6216.5	6897.1	7131.8
11°	4763.9	5286.5	6138.3	6883.8	7158.3
12°	4502.6	5051.7	6058.5	6870.5	7171.6
13°	4214.7	4802.2	5915.3	6843.9	7171.6
14°	3925.4	4527.7	5758.9	6792.2	7171.6
15°	3612.4	4239.8	5600.9	6727.3	7120.0
16°	3271.4	3938.6	5417.8	6660.9	7027.0
17°	2945.1	3637.5	5208.2	6530.9	6923.6
18°	2590.8	3271.4	4946.9	6346.4	6727.3
19°	2277.9	2918.6	4672.3	6138.3	6530.9
20°	1936.8	2565.7	4371.2	5915.3	6334.6
21°	1622.4	2224.7	4096.6	5667.3	6125.0
22°	1347.8	1871.9	3822.0	5431.1	5862.2
23°	1124.9	1570.7	3481.0	5194.9	5574.3
24°	928.6	1321.2	3153.3	4907.1	5274.6
25°	758.8	1113.1	2827.0	4554.2	4998.6
26°	628.9	928.6	2525.9	4239.8	4724.0
27°	497.5	758.8	2224.7	3913.5	4436.1
28°	392.7	615.6	1950.1	3625.7	4148.3
29°	314.4	484.2	1688.8	3258.1	3873.7
30°	236.2	392.7	1452.6	2970.2	3625.7
32.5°	144.7	222.9	876.9	2289.7	2800.5
35°	104.8	144.7	470.9	1492.5	1963.4
37.5°	65.0	91.5	236.2	837.0	1059.9
40°	51.7	65.0	131.4	392.7	654.0
42.5°	39.9	51.7	78.2	183.1	261.3
45°	26.6	39.9	51.7	104.8	131.4
47.5°	26.6	26.6	26.6	51.7	65.0
50°	13.3	13.3	26.6	26.6	39.9
52.5°	13.3	13.3	13.3	26.6	26.6
55°	13.3	13.3	13.3	13.3	13.3
57.5°	13.3	13.3	13.3	13.3	13.3
60°	13.3	13.3	13.3	13.3	13.3
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)