

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: METALUX

Report Number: P829668

Luminaire Tested: **OHBL-100SE-A-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-A-UNV-L935-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

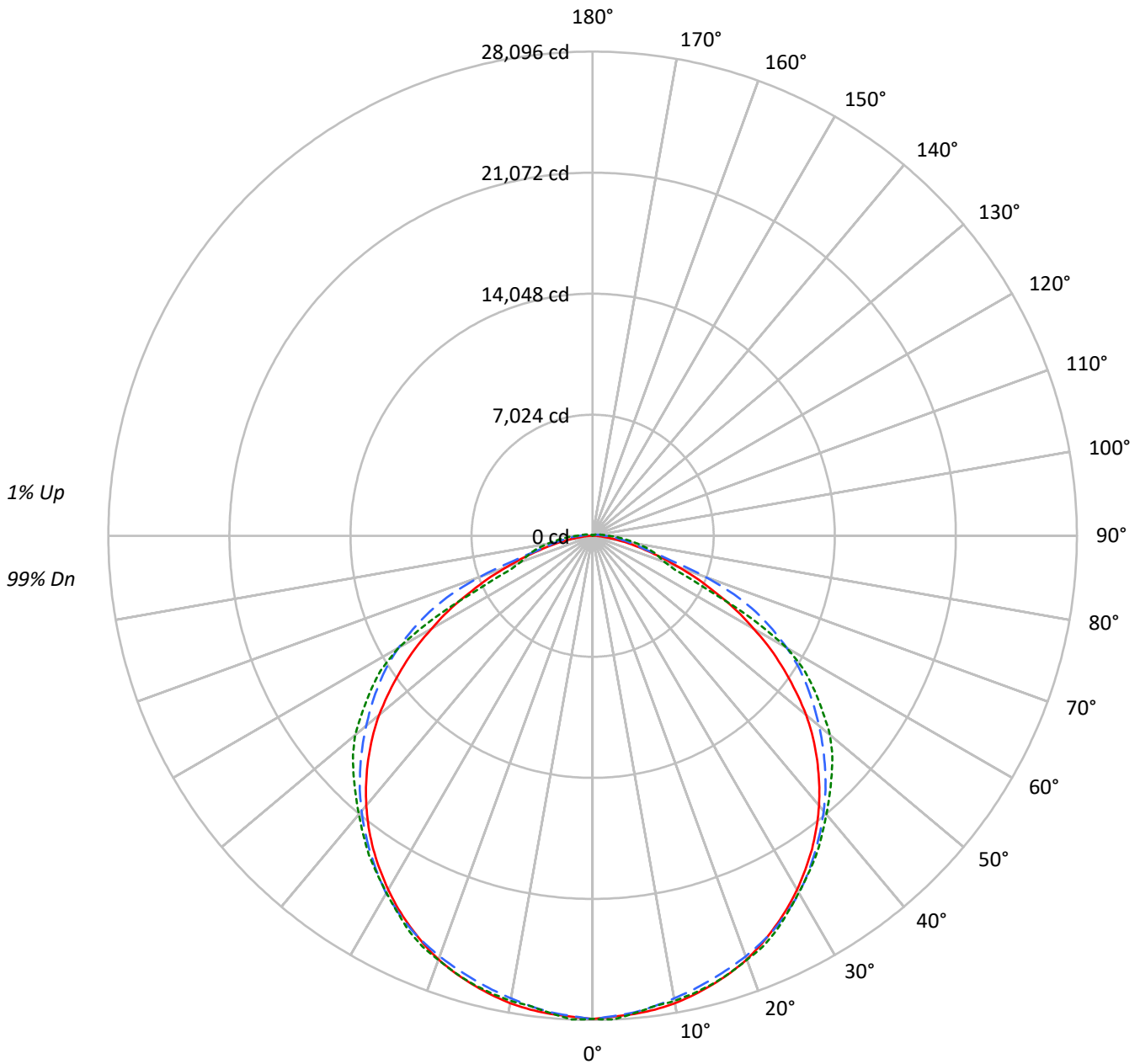
Lumens per Lamp: N/A
Luminaire Lumens: 79251.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44343	44343	44343
5°	44053	43699	43791
10°	43892	43037	43304
15°	43613	42542	43015
20°	43335	42230	42634
25°	42812	41916	42256
30°	42243	41421	41457
35°	41563	40636	41016
40°	40679	39824	40416
45°	39454	38886	40150
50°	37794	37817	39832
55°	35156	36766	38345
60°	31702	35227	35451
65°	27195	32371	22467
70°	21904	25270	16289
75°	16423	15001	16532
80°	11431	12473	15784
85°	6506	11429	14795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2643.8	3.3
10°-20°	7581.2	9.6
20°-30°	11578.9	14.6
30°-40°	14049.2	17.7
40°-50°	14724.9	18.6
50°-60°	13343.0	16.8
60°-70°	8946.0	11.3
70°-80°	4017.1	5.1
80°-90°	1457.8	1.8
90°-100°	438.8	0.6
100°-110°	207.0	0.3
110°-120°	103.8	0.1
120°-130°	57.2	0.1
130°-140°	39.3	0.0
140°-150°	26.5	0.0
150°-160°	19.7	0.0
160°-170°	12.6	0.0
170°-180°	4.0	0.0
0°-30°	21804.0	27.5
0°-40°	35853.2	45.2
0°-60°	63921.2	80.7
0°-90°	78342.0	98.9
90°-120°	749.6	0.9
90°-150°	872.6	1.1
90°-180°	909.0	1.1
0°-180°	79251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28039	28039	28039	28039	28039	
5°	27857	27954	27759	27844	27808	###
15°	26952	26847	26657	26892	26924	7610
25°	25039	24930	25104	25335	25262	11542
35°	22193	22246	22473	22712	22623	13871
45°	18418	18718	19067	19554	19614	14189
55°	13553	14206	15175	15783	15747	12098
65°	7954	9199	10444	8814	7196	7926
75°	3130	4541	3341	3418	3641	3420
85°	539	1034	1326	1601	1678	658
90°	4	345	685	860	900	32
95°	4	215	470	572	588	6
105°	16	93	231	280	292	19
115°	32	49	118	150	158	30
125°	28	32	73	85	89	28
135°	36	40	45	65	69	29
145°	36	40	40	45	49	24
155°	40	45	45	45	40	19
165°	45	45	45	45	45	12
175°	45	45	40	36	36	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28039.1	28039.1	28039.1	28039.1	28039.1
2.5°	27925.6	28043.1	27897.2	28055.3	28095.8
5°	27856.6	27953.9	27759.3	27844.5	27808.0
7.5°	27730.9	27763.4	27532.3	27601.2	27528.2
10°	27544.5	27528.2	27256.6	27390.4	27406.6
12.5°	27268.8	27220.1	26976.9	27179.6	27183.6
15°	26952.5	26847.1	26656.6	26891.7	26924.2
17.5°	26587.7	26449.8	26324.1	26628.2	26579.5
20°	26162.0	25999.8	25975.5	26307.9	26186.3
22.5°	25634.9	25509.2	25566.0	25882.2	25805.2
25°	25038.9	24929.5	25103.8	25334.9	25261.9
27.5°	24410.5	24345.7	24544.3	24722.7	24580.8
30°	23721.3	23684.8	23948.4	24094.3	23915.9
32.5°	22971.3	22983.4	23234.8	23433.5	23267.2
35°	22192.9	22245.6	22472.6	22711.8	22622.6
37.5°	21337.4	21455.0	21682.0	21953.7	21860.4
40°	20433.3	20603.6	20855.0	21183.4	21098.2
42.5°	19456.3	19671.1	19995.5	20360.4	20352.2
45°	18418.4	18718.4	19067.1	19553.6	19614.4
47.5°	17340.0	17676.5	18118.4	18767.0	18860.3
50°	16168.3	16589.9	17141.3	17919.7	17976.5
52.5°	14862.8	15438.5	16168.3	16914.3	16845.3
55°	13553.3	14206.0	15175.0	15783.1	15746.6
57.5°	12247.8	12981.7	14157.4	14591.2	14587.1
60°	10788.3	11716.7	13001.9	13330.3	13006.0
62.5°	9438.3	10435.6	11769.4	11530.2	10419.4
65°	7954.4	9199.1	10443.7	8813.9	7196.3
67.5°	6636.8	7934.1	8870.7	6036.8	5169.1
70°	5311.0	6742.2	6916.5	4479.9	4419.1
72.5°	4135.3	5659.7	4771.8	3835.3	4029.9
75°	3129.9	4540.7	3340.7	3417.7	3640.7
77.5°	2282.5	3486.6	2598.8	2996.1	3178.5
80°	1569.0	2469.0	2120.4	2517.7	2643.4
82.5°	985.2	1629.8	1698.7	2027.1	2156.9
85°	539.2	1033.8	1325.7	1601.4	1678.5
87.5°	223.0	624.4	1013.6	1236.5	1301.4
90°	4.1	344.6	685.2	859.5	900.0
92.5°	4.1	263.5	559.5	693.3	721.7
95°	4.1	214.9	470.3	571.6	587.9
97.5°	8.1	170.3	393.3	474.3	490.6
100°	12.2	141.9	328.4	397.3	409.5
102.5°	16.2	113.5	275.7	332.4	344.6
105°	16.2	93.2	231.1	279.7	291.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.4	56.8	137.8	174.3	182.4
115°	32.4	48.7	117.6	150.0	158.1
117.5°	32.4	40.5	101.4	125.7	133.8
120°	32.4	36.5	89.2	109.5	113.5
122.5°	32.4	32.4	77.0	97.3	101.4
125°	28.4	32.4	73.0	85.1	89.2
127.5°	32.4	32.4	64.9	77.0	81.1
130°	32.4	36.5	56.8	73.0	73.0
132.5°	36.5	40.5	52.7	68.9	68.9
135°	36.5	40.5	44.6	64.9	68.9
137.5°	40.5	40.5	40.5	60.8	64.9
140°	40.5	40.5	36.5	52.7	56.8
142.5°	36.5	40.5	36.5	48.7	52.7
145°	36.5	40.5	40.5	44.6	48.7
147.5°	40.5	40.5	40.5	40.5	44.6
150°	40.5	40.5	40.5	40.5	40.5
152.5°	40.5	40.5	40.5	40.5	40.5
155°	40.5	44.6	44.6	44.6	40.5
157.5°	40.5	44.6	44.6	44.6	44.6
160°	40.5	44.6	44.6	44.6	44.6
162.5°	44.6	44.6	44.6	44.6	44.6
165°	44.6	44.6	44.6	44.6	44.6
167.5°	44.6	48.7	44.6	44.6	44.6
170°	44.6	44.6	44.6	40.5	40.5
172.5°	44.6	44.6	44.6	40.5	40.5
175°	44.6	44.6	40.5	36.5	36.5
177.5°	48.7	44.6	40.5	36.5	32.4
180°	40.5	40.5	40.5	40.5	40.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	20.3	77.0	198.7	239.2	247.3
110°	24.3	64.9	166.2	202.7	210.8



(END OF REPORT)