

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: P829664

Luminaire Tested: **OHBL-100SE-A-UNV-L835-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829664  
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-L835-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

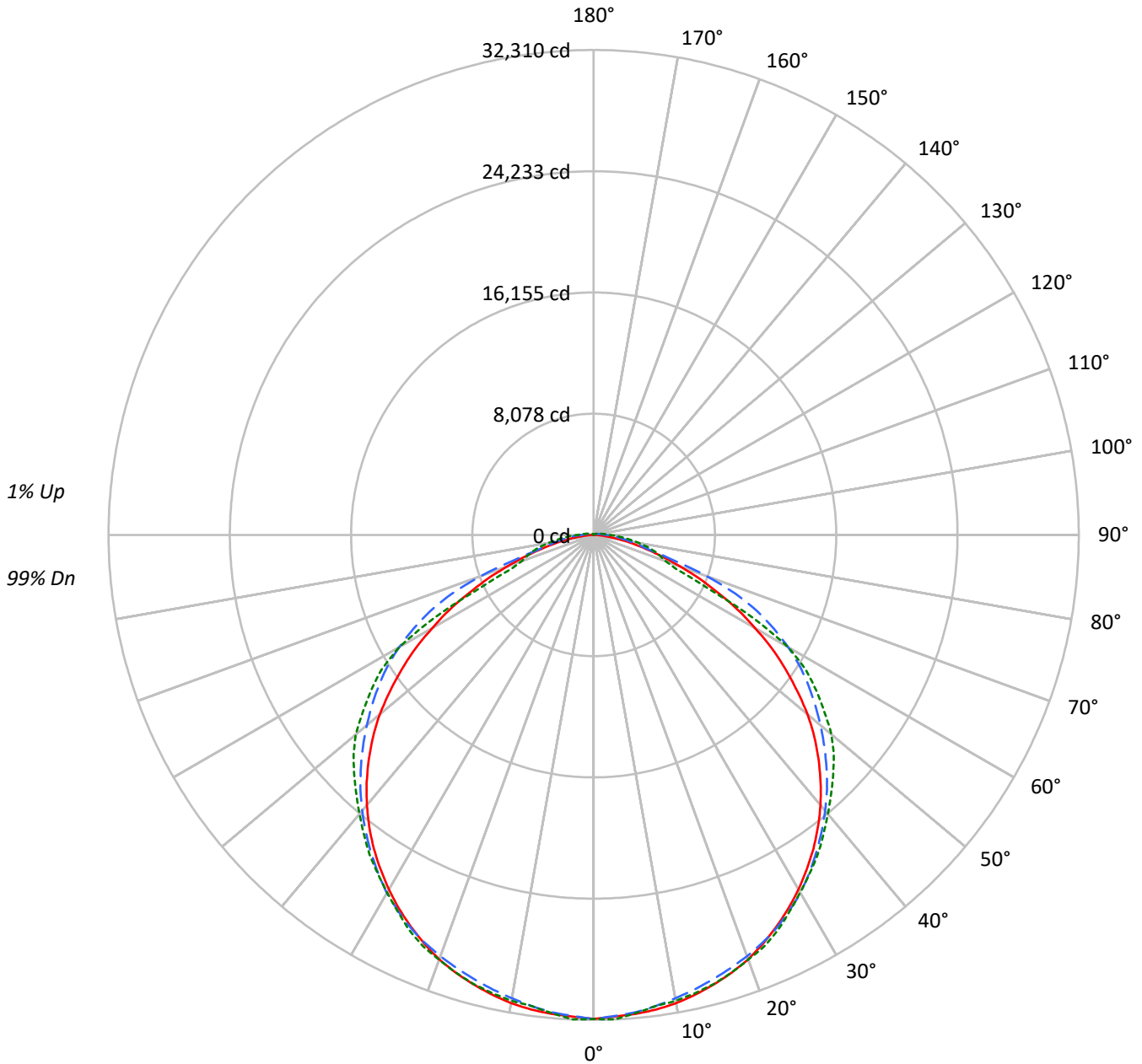
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 91139.0 lumens  
Efficiency: N/A  
Efficacy: 154.4 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<sub>in</sub>): 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°	50995	50995	50995
5°	50661	50254	50360
10°	50476	49493	49800
15°	50155	48924	49467
20°	49835	48565	49029
25°	49234	48204	48595
30°	48580	47635	47676
35°	47798	46731	47169
40°	46781	45798	46479
45°	45372	44719	46173
50°	43463	43490	45807
55°	40430	42280	44097
60°	36458	40511	40768
65°	31274	37227	25837
70°	25190	29061	18732
75°	18886	17251	19012
80°	13146	14344	18152
85°	7482	13143	17014



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3040.4	3.3
10°-20°	8718.5	9.6
20°-30°	13315.8	14.6
30°-40°	16156.7	17.7
40°-50°	16933.7	18.6
50°-60°	15344.5	16.8
60°-70°	10287.9	11.3
70°-80°	4619.7	5.1
80°-90°	1676.4	1.8
90°-100°	504.6	0.6
100°-110°	238.1	0.3
110°-120°	119.3	0.1
120°-130°	65.8	0.1
130°-140°	45.3	0.0
140°-150°	30.4	0.0
150°-160°	22.6	0.0
160°-170°	14.5	0.0
170°-180°	4.6	0.0
0°-30°	25074.7	27.5
0°-40°	41231.4	45.2
0°-60°	73509.6	80.7
0°-90°	90093.6	98.9
90°-120°	862.0	0.9
90°-150°	1003.6	1.1
90°-180°	1045.0	1.1
0°-180°	91139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32245	32245	32245	32245	32245	
5°	32035	32147	31923	32021	31979	###
15°	30996	30874	30655	30926	30963	8751
25°	28795	28669	28870	29135	29051	13273
35°	25522	25582	25844	26119	26016	15952
45°	21181	21526	21927	22487	22557	16317
55°	15586	16337	17451	18151	18109	13913
65°	9148	10579	12010	10136	8276	9115
75°	3599	5222	3842	3930	4187	3934
85°	620	1189	1525	1842	1930	757
90°	5	396	788	988	1035	37
95°	5	247	541	657	676	6
105°	19	107	266	322	336	22
115°	37	56	135	172	182	35
125°	33	37	84	98	103	32
135°	42	47	51	75	79	33
145°	42	47	47	51	56	28
155°	47	51	51	51	47	22
165°	51	51	51	51	51	14
175°	51	51	47	42	42	5
180°	47	47	47	47	47	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32245.1	32245.1	32245.1	32245.1	<i>32245.1</i>
2.5°	<i>32114.5</i>	<i>32249.7</i>	<i>32081.9</i>	<i>32263.7</i>	<i>32310.3</i>
5°	32035.2	32147.1	31923.4	32021.3	<i>31979.3</i>
7.5°	31890.7	31928.0	31662.3	31741.5	<i>31657.6</i>
10°	31676.2	31657.6	31345.2	31499.1	<i>31517.7</i>
12.5°	31359.2	31303.3	31023.5	31256.6	<i>31261.3</i>
15°	30995.5	30874.3	30655.2	30925.6	<i>30962.9</i>
17.5°	30575.9	30417.4	30272.9	30622.5	<i>30566.6</i>
20°	30086.4	29899.9	29871.9	30254.2	<i>30114.3</i>
22.5°	29480.3	29335.7	29401.0	29764.7	<i>29676.1</i>
25°	28794.9	28669.0	28869.5	29135.2	<i>29051.3</i>
27.5°	28072.2	27997.6	28226.1	28431.2	<i>28268.0</i>
30°	27279.6	27237.7	27540.7	27708.6	<i>27503.4</i>
32.5°	26417.1	26431.1	26720.1	26948.6	<i>26757.4</i>
35°	25521.9	25582.5	25843.6	26118.7	<i>26016.1</i>
37.5°	24538.1	24673.3	24934.4	25246.8	<i>25139.6</i>
40°	23498.4	23694.2	23983.3	24361.0	<i>24263.1</i>
42.5°	22374.8	22621.9	22994.9	23414.5	<i>23405.2</i>
45°	21181.2	21526.2	21927.2	22486.7	<i>22556.6</i>
47.5°	19941.0	20328.0	20836.2	21582.2	<i>21689.4</i>
50°	18593.6	19078.5	19712.6	20607.7	<i>20673.0</i>
52.5°	17092.3	17754.4	18593.6	19451.5	<i>19372.2</i>
55°	15586.4	16337.0	17451.3	18150.7	<i>18108.7</i>
57.5°	14085.1	14929.0	16281.0	16779.9	<i>16775.3</i>
60°	12406.6	13474.3	14952.3	15329.9	<i>14956.9</i>
62.5°	10854.0	12001.0	13534.9	13259.8	<i>11982.3</i>
65°	9147.6	10579.0	12010.3	10136.0	<i>8275.7</i>
67.5°	7632.3	9124.3	10201.3	6942.3	<i>5944.5</i>
70°	6107.7	7753.5	7954.0	5151.9	<i>5082.0</i>
72.5°	4755.6	6508.7	5487.6	4410.6	<i>4634.4</i>
75°	3599.4	5221.9	3841.8	3930.4	<i>4186.8</i>
77.5°	2624.9	4009.7	2988.6	3445.5	<i>3655.3</i>
80°	1804.3	2839.4	2438.4	2895.3	<i>3039.9</i>
82.5°	1133.0	1874.3	1953.5	2331.2	<i>2480.4</i>
85°	620.1	1188.9	1524.6	1841.6	<i>1930.2</i>
87.5°	256.4	718.0	1165.6	1422.0	<i>1496.6</i>
90°	4.7	396.3	787.9	988.4	<i>1035.0</i>
92.5°	4.7	303.1	643.4	797.3	<i>829.9</i>
95°	4.7	247.1	540.8	657.4	<i>676.0</i>
97.5°	9.3	195.8	452.3	545.5	<i>564.1</i>
100°	14.0	163.2	377.7	456.9	<i>470.9</i>
102.5°	18.6	130.5	317.0	382.3	<i>396.3</i>
105°	18.6	107.2	265.8	321.7	<i>335.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.6	65.3	158.5	200.5	209.8
115°	37.3	55.9	135.2	172.5	181.8
117.5°	37.3	46.6	116.6	144.5	153.9
120°	37.3	42.0	102.6	125.9	130.5
122.5°	37.3	37.3	88.6	111.9	116.6
125°	32.6	37.3	83.9	97.9	102.6
127.5°	37.3	37.3	74.6	88.6	93.2
130°	37.3	42.0	65.3	83.9	83.9
132.5°	42.0	46.6	60.6	79.3	79.3
135°	42.0	46.6	51.3	74.6	79.3
137.5°	46.6	46.6	46.6	69.9	74.6
140°	46.6	46.6	42.0	60.6	65.3
142.5°	42.0	46.6	42.0	55.9	60.6
145°	42.0	46.6	46.6	51.3	55.9
147.5°	46.6	46.6	46.6	46.6	51.3
150°	46.6	46.6	46.6	46.6	46.6
152.5°	46.6	46.6	46.6	46.6	46.6
155°	46.6	51.3	51.3	51.3	46.6
157.5°	46.6	51.3	51.3	51.3	51.3
160°	46.6	51.3	51.3	51.3	51.3
162.5°	51.3	51.3	51.3	51.3	51.3
165°	51.3	51.3	51.3	51.3	51.3
167.5°	51.3	55.9	51.3	51.3	51.3
170°	51.3	51.3	51.3	46.6	46.6
172.5°	51.3	51.3	51.3	46.6	46.6
175°	51.3	51.3	46.6	42.0	42.0
177.5°	55.9	51.3	46.6	42.0	37.3
180°	46.6	46.6	46.6	46.6	46.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	23.3	88.6	228.5	275.1	284.4
110°	28.0	74.6	191.2	233.1	242.4



(END OF REPORT)