

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: P829665

Luminaire Tested: **OHBL-100SE-A-UNV-L840-CD**

Issue Date: 5/3/2024

**Test Information**

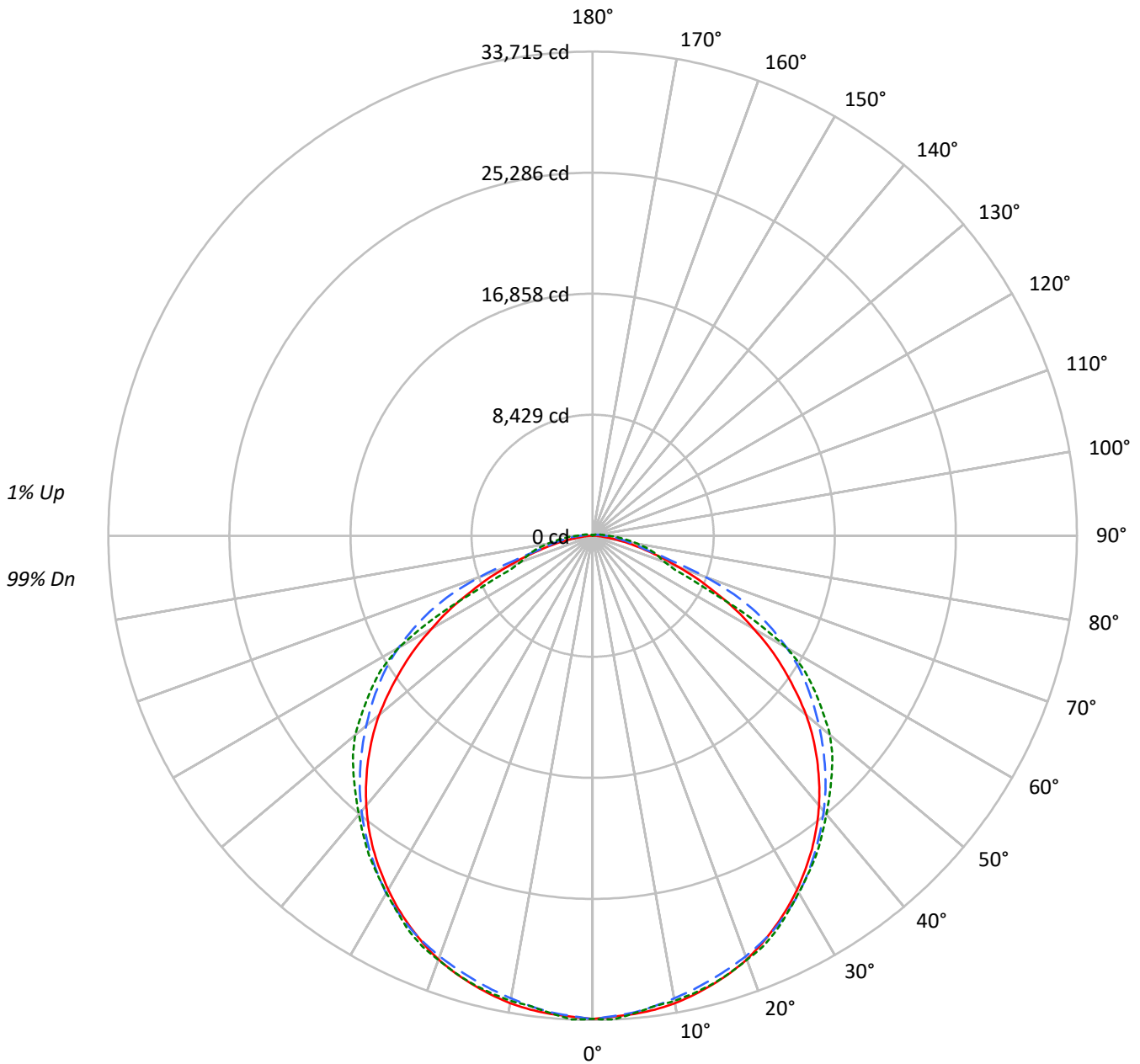
Test Method: LM-79-08  
Report Number: P829665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-A-UNV-L840-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 95101.0 lumens  
Efficiency: N/A  
Efficacy: 161.2 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°	53212	53212	53212
5°	52863	52438	52549
10°	52670	51644	51965
15°	52336	51050	51617
20°	52001	50676	51160
25°	51374	50299	50707
30°	50691	49705	49748
35°	49876	48763	49219
40°	48815	47789	48499
45°	47345	46663	48180
50°	45352	45380	47798
55°	42187	44119	46014
60°	38042	42272	42541
65°	32634	38845	26960
70°	26285	30324	19547
75°	19707	18001	19838
80°	13718	14968	18941
85°	7808	13715	17754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3172.6	3.3
10°-20°	9097.5	9.6
20°-30°	13894.7	14.6
30°-40°	16859.0	17.7
40°-50°	17669.9	18.6
50°-60°	16011.6	16.8
60°-70°	10735.1	11.3
70°-80°	4820.5	5.1
80°-90°	1749.3	1.8
90°-100°	526.5	0.6
100°-110°	248.4	0.3
110°-120°	124.5	0.1
120°-130°	68.7	0.1
130°-140°	47.2	0.0
140°-150°	31.8	0.0
150°-160°	23.6	0.0
160°-170°	15.2	0.0
170°-180°	4.8	0.0
0°-30°	26164.8	27.5
0°-40°	43023.8	45.2
0°-60°	76705.2	80.7
0°-90°	94010.2	98.9
90°-120°	899.5	0.9
90°-150°	1047.2	1.1
90°-180°	1091.0	1.1
0°-180°	95101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33647	33647	33647	33647	33647	
5°	33428	33545	33311	33413	33370	###
15°	32343	32216	31988	32270	32309	9132
25°	30047	29915	30124	30402	30314	13850
35°	26631	26695	26967	27254	27147	16645
45°	22102	22462	22880	23464	23537	17026
55°	16264	17047	18210	18940	18896	14518
65°	9545	11039	12532	10577	8636	9511
75°	3756	5449	4009	4101	4369	4105
85°	647	1241	1591	1922	2014	790
90°	5	414	822	1031	1080	39
95°	5	258	564	686	705	7
105°	20	112	277	336	350	22
115°	39	58	141	180	190	36
125°	34	39	88	102	107	34
135°	44	49	54	78	83	35
145°	44	49	49	54	58	29
155°	49	54	54	54	49	23
165°	54	54	54	54	54	15
175°	54	54	49	44	44	5
180°	49	49	49	49	49	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33646.8	33646.8	33646.8	33646.8	<i>33646.8</i>
2.5°	<i>33510.6</i>	<i>33651.7</i>	<i>33476.5</i>	<i>33666.3</i>	<i>33714.9</i>
5°	33427.9	33544.6	33311.1	33413.3	<i>33369.5</i>
7.5°	33277.1	33316.0	33038.7	33121.4	<i>33033.8</i>
10°	33053.3	33033.8	32707.9	32868.4	<i>32887.9</i>
12.5°	32722.5	32664.1	32372.2	32615.4	<i>32620.3</i>
15°	32343.0	32216.5	31987.8	32270.0	<i>32308.9</i>
17.5°	31905.1	31739.7	31588.9	31953.8	<i>31895.4</i>
20°	31394.3	31199.7	31170.5	31569.4	<i>31423.5</i>
22.5°	30761.8	30611.0	30679.1	31058.6	<i>30966.2</i>
25°	30046.7	29915.3	30124.5	30401.8	<i>30314.2</i>
27.5°	29292.6	29214.7	29453.1	29667.2	<i>29496.9</i>
30°	28465.5	28421.7	28738.0	28913.1	<i>28699.0</i>
32.5°	27565.5	27580.1	27881.7	28120.1	<i>27920.6</i>
35°	26631.4	26694.6	26967.1	27254.1	<i>27147.1</i>
37.5°	25604.9	25745.9	26018.4	26344.3	<i>26232.4</i>
40°	24519.9	24724.3	25025.9	25420.0	<i>25317.8</i>
42.5°	23347.5	23605.3	23994.5	24432.4	<i>24422.6</i>
45°	22102.0	22462.0	22880.4	23464.2	<i>23537.2</i>
47.5°	20807.9	21211.7	21742.0	22520.4	<i>22632.3</i>
50°	19401.9	19907.9	20569.5	21503.6	<i>21571.7</i>
52.5°	17835.3	18526.2	19401.9	20297.1	<i>20214.4</i>
55°	16263.9	17047.2	18210.0	18939.7	<i>18895.9</i>
57.5°	14697.4	15577.9	16988.8	17509.4	<i>17504.5</i>
60°	12945.9	14060.0	15602.3	15996.3	<i>15607.1</i>
62.5°	11325.9	12522.7	14123.3	13836.3	<i>12503.2</i>
65°	9545.3	11038.8	12532.4	10576.7	<i>8635.5</i>
67.5°	7964.1	9520.9	10644.8	7244.1	<i>6203.0</i>
70°	6373.2	8090.6	8299.8	5375.9	<i>5302.9</i>
72.5°	4962.4	6791.6	5726.2	4602.4	<i>4835.9</i>
75°	3755.8	5448.9	4008.8	4101.3	<i>4368.8</i>
77.5°	2739.0	4184.0	3118.5	3595.3	<i>3814.2</i>
80°	1882.8	2962.8	2544.4	3021.2	<i>3172.0</i>
82.5°	1182.2	1955.8	2038.5	2432.5	<i>2588.2</i>
85°	647.1	1240.6	1590.9	1921.7	<i>2014.1</i>
87.5°	267.6	749.2	1216.3	1483.8	<i>1561.7</i>
90°	4.9	413.5	822.2	1031.4	<i>1080.0</i>
92.5°	4.9	316.2	671.4	831.9	<i>866.0</i>
95°	4.9	257.8	564.3	686.0	<i>705.4</i>
97.5°	9.7	204.3	471.9	569.2	<i>588.7</i>
100°	14.6	170.3	394.1	476.8	<i>491.4</i>
102.5°	19.5	136.2	330.8	398.9	<i>413.5</i>
105°	19.5	111.9	277.3	335.7	<i>350.3</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34.1	68.1	165.4	209.2	218.9
115°	38.9	58.4	141.1	180.0	189.7
117.5°	38.9	48.7	121.6	150.8	160.5
120°	38.9	43.8	107.0	131.4	136.2
122.5°	38.9	38.9	92.4	116.8	121.6
125°	34.1	38.9	87.6	102.2	107.0
127.5°	38.9	38.9	77.8	92.4	97.3
130°	38.9	43.8	68.1	87.6	87.6
132.5°	43.8	48.7	63.2	82.7	82.7
135°	43.8	48.7	53.5	77.8	82.7
137.5°	48.7	48.7	48.7	73.0	77.8
140°	48.7	48.7	43.8	63.2	68.1
142.5°	43.8	48.7	43.8	58.4	63.2
145°	43.8	48.7	48.7	53.5	58.4
147.5°	48.7	48.7	48.7	48.7	53.5
150°	48.7	48.7	48.7	48.7	48.7
152.5°	48.7	48.7	48.7	48.7	48.7
155°	48.7	53.5	53.5	53.5	48.7
157.5°	48.7	53.5	53.5	53.5	53.5
160°	48.7	53.5	53.5	53.5	53.5
162.5°	53.5	53.5	53.5	53.5	53.5
165°	53.5	53.5	53.5	53.5	53.5
167.5°	53.5	58.4	53.5	53.5	53.5
170°	53.5	53.5	53.5	48.7	48.7
172.5°	53.5	53.5	53.5	48.7	48.7
175°	53.5	53.5	48.7	43.8	43.8
177.5°	58.4	53.5	48.7	43.8	38.9
180°	48.7	48.7	48.7	48.7	48.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	24.3	92.4	238.4	287.0	296.8
110°	29.2	77.8	199.5	243.3	253.0



(END OF REPORT)