

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: P829677

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

Issue Date: 5/3/2024



**Test Information**

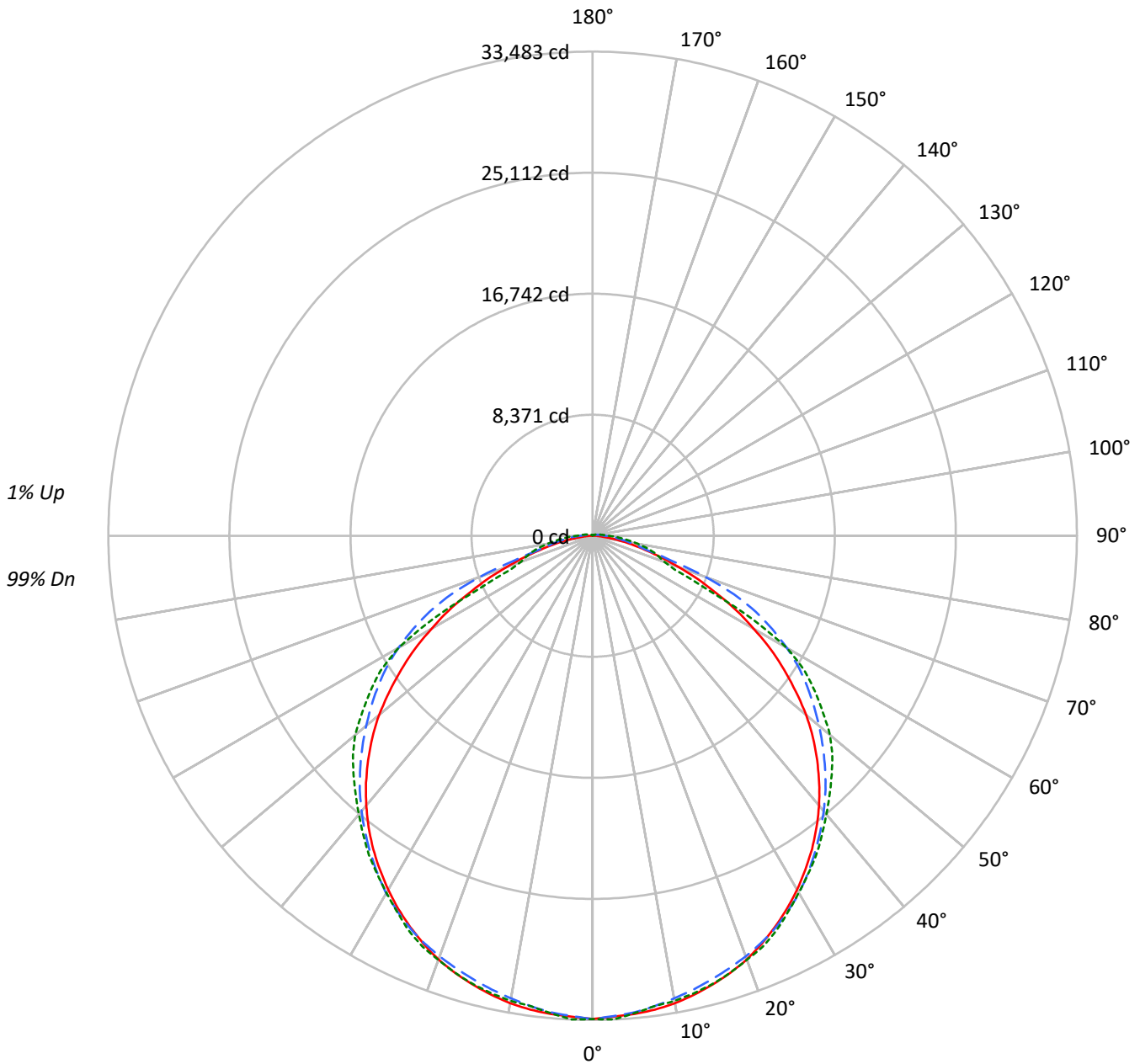
Test Method: LM-79-08  
Report Number: P829677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-MCL-UNV-L840-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 94447.0 lumens  
Efficiency: N/A  
Efficacy: 160.1 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°	52846	52846	52846
5°	52500	52078	52187
10°	52308	51289	51608
15°	51976	50699	51262
20°	51644	50328	50809
25°	51021	49953	50359
30°	50343	49364	49406
35°	49533	48428	48881
40°	48479	47461	48165
45°	47019	46342	47849
50°	45041	45068	47470
55°	41897	43815	45698
60°	37781	41981	42248
65°	32409	38578	26775
70°	26105	30116	19412
75°	19571	17877	19702
80°	13623	14865	18810
85°	7753	13620	17632



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3150.8	3.3
10°-20°	9034.9	9.6
20°-30°	13799.1	14.6
30°-40°	16743.1	17.7
40°-50°	17548.4	18.6
50°-60°	15901.5	16.8
60°-70°	10661.3	11.3
70°-80°	4787.4	5.1
80°-90°	1737.3	1.8
90°-100°	522.9	0.6
100°-110°	246.7	0.3
110°-120°	123.7	0.1
120°-130°	68.2	0.1
130°-140°	46.9	0.0
140°-150°	31.5	0.0
150°-160°	23.4	0.0
160°-170°	15.1	0.0
170°-180°	4.8	0.0
0°-30°	25984.8	27.5
0°-40°	42727.9	45.2
0°-60°	76177.8	80.7
0°-90°	93363.7	98.9
90°-120°	893.3	0.9
90°-150°	1040.0	1.1
90°-180°	1083.0	1.1
0°-180°	94447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33415	33415	33415	33415	33415	
5°	33198	33314	33082	33184	33140	###
15°	32121	31995	31768	32048	32087	9069
25°	29840	29710	29917	30193	30106	13755
35°	26448	26511	26782	27067	26960	16531
45°	21950	22308	22723	23303	23375	16909
55°	16152	16930	18085	18810	18766	14418
65°	9480	10963	12446	10504	8576	9445
75°	3730	5411	3981	4073	4339	4076
85°	643	1232	1580	1908	2000	784
90°	5	411	816	1024	1073	38
95°	5	256	560	681	701	7
105°	19	111	275	333	348	22
115°	39	58	140	179	188	36
125°	34	39	87	102	106	34
135°	44	48	53	77	82	35
145°	44	48	48	53	58	29
155°	48	53	53	53	48	22
165°	53	53	53	53	53	15
175°	53	53	48	44	44	5
180°	48	48	48	48	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33415.4	33415.4	33415.4	33415.4	<i>33415.4</i>
2.5°	<i>33280.1</i>	<i>33420.3</i>	<i>33246.3</i>	<i>33434.8</i>	<i>33483.1</i>
5°	33198.0	33314.0	33082.0	33183.5	<i>33140.0</i>
7.5°	33048.2	33086.9	32811.5	32893.6	<i>32806.6</i>
10°	32826.0	32806.6	32482.9	32642.4	<i>32661.7</i>
12.5°	32497.4	32439.4	32149.5	32391.1	<i>32396.0</i>
15°	32120.6	31994.9	31767.8	32048.1	<i>32086.7</i>
17.5°	31685.7	31521.4	31371.7	31734.0	<i>31676.0</i>
20°	31178.4	30985.1	30956.1	31352.3	<i>31207.4</i>
22.5°	30550.3	30400.5	30468.1	30845.0	<i>30753.2</i>
25°	29840.0	29709.6	29917.3	30192.7	<i>30105.8</i>
27.5°	29091.1	29013.8	29250.6	29463.2	<i>29294.1</i>
30°	28269.8	28226.3	28540.3	28714.3	<i>28501.7</i>
32.5°	27375.9	27390.4	27690.0	27926.7	<i>27728.6</i>
35°	26448.2	26511.1	26781.6	27066.7	<i>26960.4</i>
37.5°	25428.8	25568.9	25839.5	26163.2	<i>26052.1</i>
40°	24351.3	24554.3	24853.8	25245.2	<i>25143.7</i>
42.5°	23186.9	23443.0	23829.5	24264.4	<i>24254.7</i>
45°	21950.0	22307.6	22723.1	23302.9	<i>23375.3</i>
47.5°	20664.8	21065.8	21592.5	22365.5	<i>22476.7</i>
50°	19268.5	19771.0	20428.1	21355.7	<i>21423.4</i>
52.5°	17712.7	18398.8	19268.5	20157.5	<i>20075.3</i>
55°	16152.1	16930.0	18084.7	18809.5	<i>18766.0</i>
57.5°	14596.3	15470.8	16872.0	17389.0	<i>17384.1</i>
60°	12856.9	13963.4	15495.0	15886.3	<i>15499.8</i>
62.5°	11248.0	12436.6	14026.2	13741.1	<i>12417.2</i>
65°	9479.6	10962.9	12446.2	10503.9	<i>8576.1</i>
67.5°	7909.3	9455.5	10571.6	7194.3	<i>6160.3</i>
70°	6329.4	8035.0	8242.7	5338.9	<i>5266.5</i>
72.5°	4928.2	6744.9	5686.8	4570.7	<i>4802.6</i>
75°	3730.0	5411.4	3981.2	4073.0	<i>4338.8</i>
77.5°	2720.2	4155.2	3097.1	3570.6	<i>3788.0</i>
80°	1869.8	2942.5	2526.9	3000.4	<i>3150.2</i>
82.5°	1174.1	1942.3	2024.4	2415.8	<i>2570.4</i>
85°	642.6	1232.1	1579.9	1908.5	<i>2000.3</i>
87.5°	265.7	744.1	1207.9	1473.6	<i>1550.9</i>
90°	4.8	410.7	816.5	1024.3	<i>1072.6</i>
92.5°	4.8	314.1	666.8	826.2	<i>860.0</i>
95°	4.8	256.1	560.5	681.3	<i>700.6</i>
97.5°	9.7	202.9	468.7	565.3	<i>584.6</i>
100°	14.5	169.1	391.4	473.5	<i>488.0</i>
102.5°	19.3	135.3	328.5	396.2	<i>410.7</i>
105°	19.3	111.1	275.4	333.4	<i>347.9</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	33.8	67.6	164.3	207.8	217.4
115°	38.7	58.0	140.1	178.8	188.4
117.5°	38.7	48.3	120.8	149.8	159.4
120°	38.7	43.5	106.3	130.5	135.3
122.5°	38.7	38.7	91.8	116.0	120.8
125°	33.8	38.7	87.0	101.5	106.3
127.5°	38.7	38.7	77.3	91.8	96.6
130°	38.7	43.5	67.6	87.0	87.0
132.5°	43.5	48.3	62.8	82.1	82.1
135°	43.5	48.3	53.1	77.3	82.1
137.5°	48.3	48.3	48.3	72.5	77.3
140°	48.3	48.3	43.5	62.8	67.6
142.5°	43.5	48.3	43.5	58.0	62.8
145°	43.5	48.3	48.3	53.1	58.0
147.5°	48.3	48.3	48.3	48.3	53.1
150°	48.3	48.3	48.3	48.3	48.3
152.5°	48.3	48.3	48.3	48.3	48.3
155°	48.3	53.1	53.1	53.1	48.3
157.5°	48.3	53.1	53.1	53.1	53.1
160°	48.3	53.1	53.1	53.1	53.1
162.5°	53.1	53.1	53.1	53.1	53.1
165°	53.1	53.1	53.1	53.1	53.1
167.5°	53.1	58.0	53.1	53.1	53.1
170°	53.1	53.1	53.1	48.3	48.3
172.5°	53.1	53.1	53.1	48.3	48.3
175°	53.1	53.1	48.3	43.5	43.5
177.5°	58.0	53.1	48.3	43.5	38.7
180°	48.3	48.3	48.3	48.3	48.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	24.2	91.8	236.7	285.1	294.7
110°	29.0	77.3	198.1	241.6	251.2



(END OF REPORT)