

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: P829672

Luminaire Tested: **OHBL-100SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829672  
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-L735-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

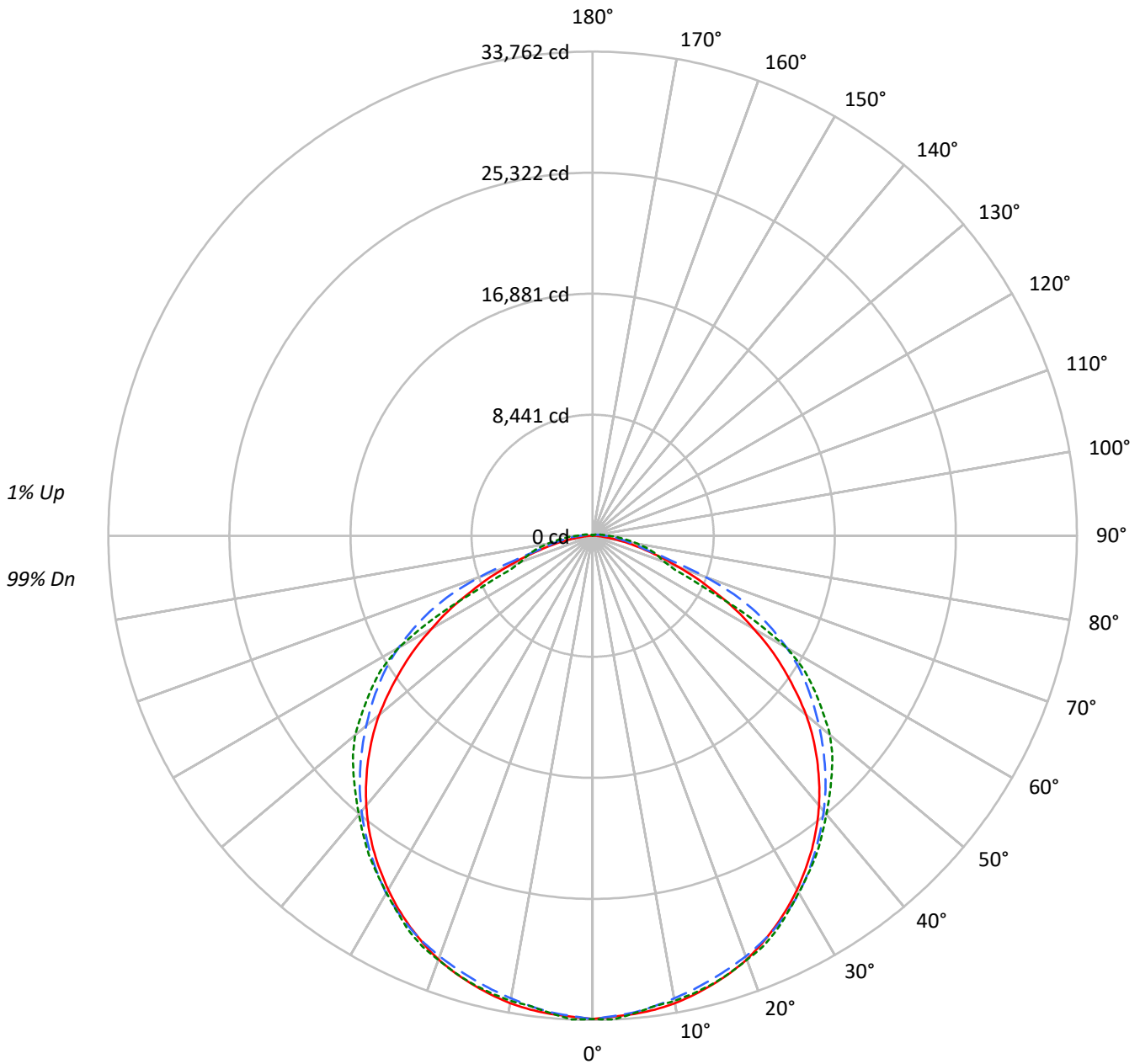
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 95234.0 lumens  
Efficiency: N/A  
Efficacy: 161.4 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°	53286	53286	53286
5°	52937	52512	52622
10°	52744	51717	52038
15°	52409	51122	51690
20°	52074	50747	51232
25°	51446	50369	50778
30°	50762	49775	49818
35°	49945	48831	49288
40°	48883	47856	48567
45°	47411	46728	48247
50°	45416	45444	47865
55°	42246	44180	46079
60°	38096	42331	42600
65°	32680	38899	26998
70°	26322	30367	19574
75°	19735	18027	19866
80°	13737	14989	18967
85°	7818	13734	17779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3177.0	3.3
10°-20°	9110.2	9.6
20°-30°	13914.1	14.6
30°-40°	16882.6	17.7
40°-50°	17694.6	18.6
50°-60°	16034.0	16.8
60°-70°	10750.1	11.3
70°-80°	4827.3	5.1
80°-90°	1751.8	1.8
90°-100°	527.3	0.6
100°-110°	248.8	0.3
110°-120°	124.7	0.1
120°-130°	68.8	0.1
130°-140°	47.3	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°	26201.3	27.5
0°-40°	43084.0	45.2
0°-60°	76812.5	80.7
0°-90°	94141.7	98.9
90°-120°	900.8	0.9
90°-150°	1048.6	1.1
90°-180°	1092.0	1.1
0°-180°	95234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33694	33694	33694	33694	33694	
5°	33475	33592	33358	33460	33416	###
15°	32388	32262	32033	32315	32354	9145
25°	30089	29957	30167	30444	30357	13869
35°	26669	26732	27005	27292	27185	16669
45°	22133	22493	22912	23497	23570	17050
55°	16287	17071	18235	18966	18922	14538
65°	9559	11054	12550	10592	8648	9524
75°	3761	5456	4014	4107	4375	4110
85°	648	1242	1593	1924	2017	791
90°	5	414	823	1033	1082	39
95°	5	258	565	687	706	7
105°	20	112	278	336	351	23
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°	33693.9	33693.9	33693.9	33693.9	<i>33693.9</i>
2.5°	<i>33557.5</i>	<i>33698.7</i>	<i>33523.4</i>	<i>33713.4</i>	<i>33762.1</i>
5°	33474.6	33591.6	33357.7	33460.0	<i>33416.2</i>
7.5°	33323.6	33362.6	33084.9	33167.7	<i>33080.0</i>
10°	33099.5	33080.0	32753.6	32914.4	<i>32933.9</i>
12.5°	32768.2	32709.8	32417.4	32661.0	<i>32665.9</i>
15°	32388.2	32261.5	32032.6	32315.1	<i>32354.1</i>
17.5°	31949.7	31784.1	31633.1	31998.5	<i>31940.0</i>
20°	31438.2	31243.3	31214.1	31613.6	<i>31467.4</i>
22.5°	30804.8	30653.8	30722.0	31102.0	<i>31009.5</i>
25°	30088.7	29957.1	30166.6	30444.3	<i>30356.6</i>
27.5°	29333.5	29255.6	29494.3	29708.7	<i>29538.2</i>
30°	28505.3	28461.5	28778.2	28953.5	<i>28739.2</i>
32.5°	27604.0	27618.6	27920.7	28159.4	<i>27959.7</i>
35°	26668.6	26732.0	27004.8	27292.2	<i>27185.0</i>
37.5°	25640.7	25781.9	26054.8	26381.2	<i>26269.1</i>
40°	24554.2	24758.9	25060.9	25455.5	<i>25353.2</i>
42.5°	23380.1	23638.3	24028.1	24466.5	<i>24456.8</i>
45°	22132.9	22493.4	22912.4	23497.0	<i>23570.1</i>
47.5°	20837.0	21241.4	21772.4	22551.9	<i>22664.0</i>
50°	19429.0	19935.7	20598.3	21533.7	<i>21601.9</i>
52.5°	17860.3	18552.1	19429.0	20325.5	<i>20242.6</i>
55°	16286.7	17071.0	18235.4	18966.2	<i>18922.4</i>
57.5°	14717.9	15599.7	17012.6	17533.9	<i>17529.0</i>
60°	12964.1	14079.7	15624.1	16018.7	<i>15629.0</i>
62.5°	11341.7	12540.2	14143.0	13855.6	<i>12520.7</i>
65°	9558.6	11054.3	12549.9	10591.5	<i>8647.6</i>
67.5°	7975.3	9534.3	10659.7	7254.2	<i>6211.6</i>
70°	6382.2	8101.9	8311.4	5383.4	<i>5310.3</i>
72.5°	4969.3	6801.1	5734.2	4608.8	<i>4842.6</i>
75°	3761.1	5456.5	4014.4	4107.0	<i>4374.9</i>
77.5°	2742.9	4189.8	3122.9	3600.3	<i>3819.5</i>
80°	1885.4	2967.0	2548.0	3025.4	<i>3176.5</i>
82.5°	1183.9	1958.5	2041.3	2435.9	<i>2591.8</i>
85°	648.0	1242.3	1593.1	1924.4	<i>2017.0</i>
87.5°	268.0	750.3	1218.0	1485.9	<i>1563.9</i>
90°	4.9	414.1	823.3	1032.8	<i>1081.6</i>
92.5°	4.9	316.7	672.3	833.1	<i>867.2</i>
95°	4.9	258.2	565.1	686.9	<i>706.4</i>
97.5°	9.7	204.6	472.6	570.0	<i>589.5</i>
100°	14.6	170.5	394.6	477.4	<i>492.1</i>
102.5°	19.5	136.4	331.3	399.5	<i>414.1</i>
105°	19.5	112.1	277.7	336.2	<i>350.8</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34.1	68.2	165.6	209.5	219.2
115°	39.0	58.5	141.3	180.3	190.0
117.5°	39.0	48.7	121.8	151.0	160.8
120°	39.0	43.8	107.2	131.5	136.4
122.5°	39.0	39.0	92.6	116.9	121.8
125°	34.1	39.0	87.7	102.3	107.2
127.5°	39.0	39.0	77.9	92.6	97.4
130°	39.0	43.8	68.2	87.7	87.7
132.5°	43.8	48.7	63.3	82.8	82.8
135°	43.8	48.7	53.6	77.9	82.8
137.5°	48.7	48.7	48.7	73.1	77.9
140°	48.7	48.7	43.8	63.3	68.2
142.5°	43.8	48.7	43.8	58.5	63.3
145°	43.8	48.7	48.7	53.6	58.5
147.5°	48.7	48.7	48.7	48.7	53.6
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	53.6	53.6	53.6	48.7
157.5°	48.7	53.6	53.6	53.6	53.6
160°	48.7	53.6	53.6	53.6	53.6
162.5°	53.6	53.6	53.6	53.6	53.6
165°	53.6	53.6	53.6	53.6	53.6
167.5°	53.6	58.5	53.6	53.6	53.6
170°	53.6	53.6	53.6	48.7	48.7
172.5°	53.6	53.6	53.6	48.7	48.7
175°	53.6	53.6	48.7	43.8	43.8
177.5°	58.5	53.6	48.7	43.8	39.0
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°	24.4	92.6	238.7	287.4	297.2
110°	29.2	77.9	199.7	243.6	253.3



(END OF REPORT)