

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: P830824

Luminaire Tested: **OHBL-90SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830824  
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-90SE-MCL-UNV-L735-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

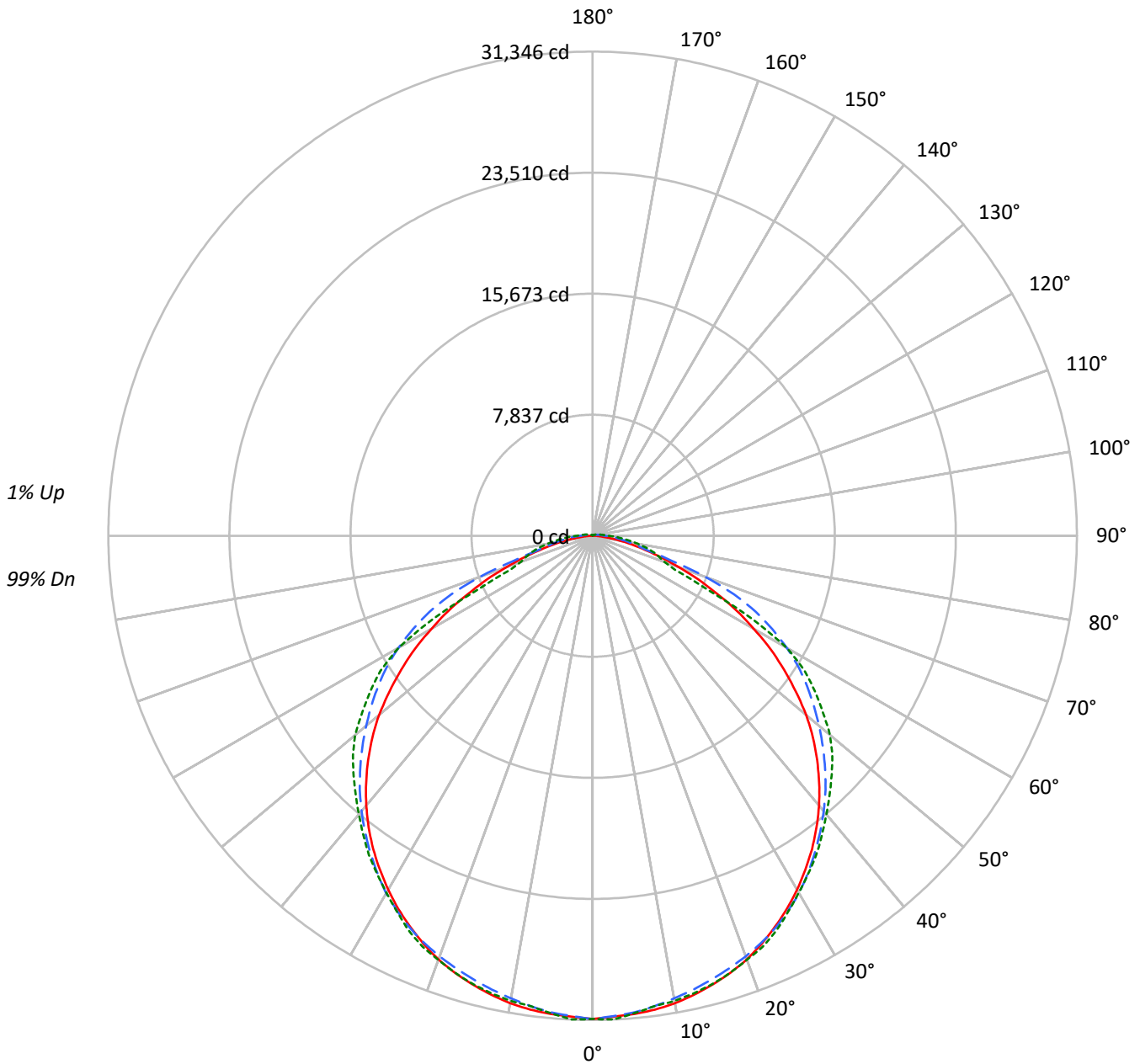
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 88418.0 lumens  
Efficiency: N/A  
Efficacy: 167.1 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): 529  
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°	49472	49472	49472
5°	49149	48754	48856
10°	48969	48015	48313
15°	48658	47463	47990
20°	48347	47115	47565
25°	47764	46764	47144
30°	47129	46213	46252
35°	46371	45336	45760
40°	45385	44431	45091
45°	44018	43383	44794
50°	42165	42191	44439
55°	39222	41018	42781
60°	35369	39302	39551
65°	30341	36115	25066
70°	24438	28194	18173
75°	18322	16736	18444
80°	12754	13916	17610
85°	7259	12751	16506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2949.6	3.3
10°-20°	8458.2	9.6
20°-30°	12918.3	14.6
30°-40°	15674.3	17.7
40°-50°	16428.2	18.6
50°-60°	14886.4	16.8
60°-70°	9980.7	11.3
70°-80°	4481.8	5.1
80°-90°	1626.4	1.8
90°-100°	489.5	0.6
100°-110°	231.0	0.3
110°-120°	115.8	0.1
120°-130°	63.9	0.1
130°-140°	43.9	0.0
140°-150°	29.5	0.0
150°-160°	21.9	0.0
160°-170°	14.1	0.0
170°-180°	4.5	0.0
0°-30°	24326.1	27.5
0°-40°	40000.4	45.2
0°-60°	71315.0	80.7
0°-90°	87403.9	98.9
90°-120°	836.3	0.9
90°-150°	973.6	1.1
90°-180°	1014.0	1.1
0°-180°	88418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31282	31282	31282	31282	31282	
5°	31079	31187	30970	31065	31024	###
15°	30070	29952	29740	30002	30038	8490
25°	27935	27813	28008	28265	28184	12877
35°	24760	24819	25072	25339	25239	15476
45°	20549	20884	21272	21815	21883	15830
55°	15121	15849	16930	17609	17568	13497
65°	8874	10263	11652	9833	8029	8842
75°	3492	5066	3727	3813	4062	3816
85°	602	1153	1479	1787	1873	734
90°	4	384	764	959	1004	36
95°	4	240	525	638	656	6
105°	18	104	258	312	326	21
115°	36	54	131	167	176	34
125°	32	36	81	95	100	31
135°	41	45	50	72	77	32
145°	41	45	45	50	54	27
155°	45	50	50	50	45	21
165°	50	50	50	50	50	14
175°	50	50	45	41	41	5
180°	45	45	45	45	45	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31282.4	31282.4	31282.4	31282.4	<i>31282.4</i>
2.5°	<i>31155.7</i>	<i>31286.9</i>	<i>31124.1</i>	<i>31300.5</i>	<i>31345.7</i>
5°	31078.8	31187.4	30970.3	31065.3	<i>31024.5</i>
7.5°	30938.6	30974.8	30717.0	30793.9	<i>30712.4</i>
10°	30730.5	30712.4	30409.4	30558.7	<i>30576.7</i>
12.5°	30423.0	30368.7	30097.3	30323.4	<i>30328.0</i>
15°	30070.1	29952.5	29740.0	30002.3	<i>30038.5</i>
17.5°	29663.1	29509.3	29369.1	29708.3	<i>29654.0</i>
20°	29188.1	29007.2	28980.1	29351.0	<i>29215.3</i>
22.5°	28600.1	28459.9	28523.2	28876.0	<i>28790.1</i>
25°	27935.2	27813.1	28007.6	28265.4	<i>28184.0</i>
27.5°	27234.1	27161.7	27383.4	27582.4	<i>27424.1</i>
30°	26465.2	26424.5	26718.5	26881.3	<i>26682.3</i>
32.5°	25628.4	25641.9	25922.4	26144.0	<i>25958.6</i>
35°	24759.9	24818.7	25072.0	25338.9	<i>25239.4</i>
37.5°	23805.5	23936.7	24190.0	24493.1	<i>24389.0</i>
40°	22796.9	22986.8	23267.3	23633.7	<i>23538.7</i>
42.5°	21706.8	21946.5	22308.4	22715.4	<i>22706.4</i>
45°	20548.8	20883.6	21272.5	21815.3	<i>21883.2</i>
47.5°	19345.7	19721.1	20214.1	20937.8	<i>21041.9</i>
50°	18038.5	18508.9	19124.0	19992.5	<i>20055.8</i>
52.5°	16582.0	17224.3	18038.5	18870.7	<i>18793.8</i>
55°	15121.0	15849.2	16930.3	17608.8	<i>17568.1</i>
57.5°	13664.5	14483.2	15795.0	16279.0	<i>16274.4</i>
60°	12036.2	13072.0	14505.9	14872.2	<i>14510.4</i>
62.5°	10530.0	11642.7	13130.8	12863.9	<i>11624.6</i>
65°	8874.5	10263.1	11651.7	9833.4	<i>8028.7</i>
67.5°	7404.5	8851.9	9896.7	6735.0	<i>5767.1</i>
70°	5925.4	7522.1	7716.6	4998.1	<i>4930.3</i>
72.5°	4613.7	6314.4	5323.8	4278.9	<i>4496.0</i>
75°	3491.9	5066.0	3727.1	3813.0	<i>4061.8</i>
77.5°	2546.6	3889.9	2899.4	3342.6	<i>3546.2</i>
80°	1750.5	2754.6	2365.6	2808.9	<i>2949.1</i>
82.5°	1099.1	1818.3	1895.2	2261.6	<i>2406.3</i>
85°	601.6	1153.4	1479.1	1786.7	<i>1872.6</i>
87.5°	248.8	696.6	1130.8	1379.6	<i>1451.9</i>
90°	4.5	384.5	764.4	958.9	<i>1004.1</i>
92.5°	4.5	294.0	624.2	773.5	<i>805.1</i>
95°	4.5	239.7	524.7	637.8	<i>655.9</i>
97.5°	9.0	190.0	438.7	529.2	<i>547.3</i>
100°	13.6	158.3	366.4	443.3	<i>456.8</i>
102.5°	18.1	126.6	307.6	370.9	<i>384.5</i>
105°	18.1	104.0	257.8	312.1	<i>325.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.7	63.3	153.8	194.5	203.5
115°	36.2	54.3	131.2	167.4	176.4
117.5°	36.2	45.2	113.1	140.2	149.3
120°	36.2	40.7	99.5	122.1	126.6
122.5°	36.2	36.2	85.9	108.6	113.1
125°	31.7	36.2	81.4	95.0	99.5
127.5°	36.2	36.2	72.4	85.9	90.5
130°	36.2	40.7	63.3	81.4	81.4
132.5°	40.7	45.2	58.8	76.9	76.9
135°	40.7	45.2	49.8	72.4	76.9
137.5°	45.2	45.2	45.2	67.8	72.4
140°	45.2	45.2	40.7	58.8	63.3
142.5°	40.7	45.2	40.7	54.3	58.8
145°	40.7	45.2	45.2	49.8	54.3
147.5°	45.2	45.2	45.2	45.2	49.8
150°	45.2	45.2	45.2	45.2	45.2
152.5°	45.2	45.2	45.2	45.2	45.2
155°	45.2	49.8	49.8	49.8	45.2
157.5°	45.2	49.8	49.8	49.8	49.8
160°	45.2	49.8	49.8	49.8	49.8
162.5°	49.8	49.8	49.8	49.8	49.8
165°	49.8	49.8	49.8	49.8	49.8
167.5°	49.8	54.3	49.8	49.8	49.8
170°	49.8	49.8	49.8	45.2	45.2
172.5°	49.8	49.8	49.8	45.2	45.2
175°	49.8	49.8	45.2	40.7	40.7
177.5°	54.3	49.8	45.2	40.7	36.2
180°	45.2	45.2	45.2	45.2	45.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	22.6	85.9	221.6	266.9	275.9
110°	27.1	72.4	185.5	226.2	235.2



(END OF REPORT)