

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: P830859

Luminaire Tested: **OHBL-90SE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-NL-UNV-L730-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

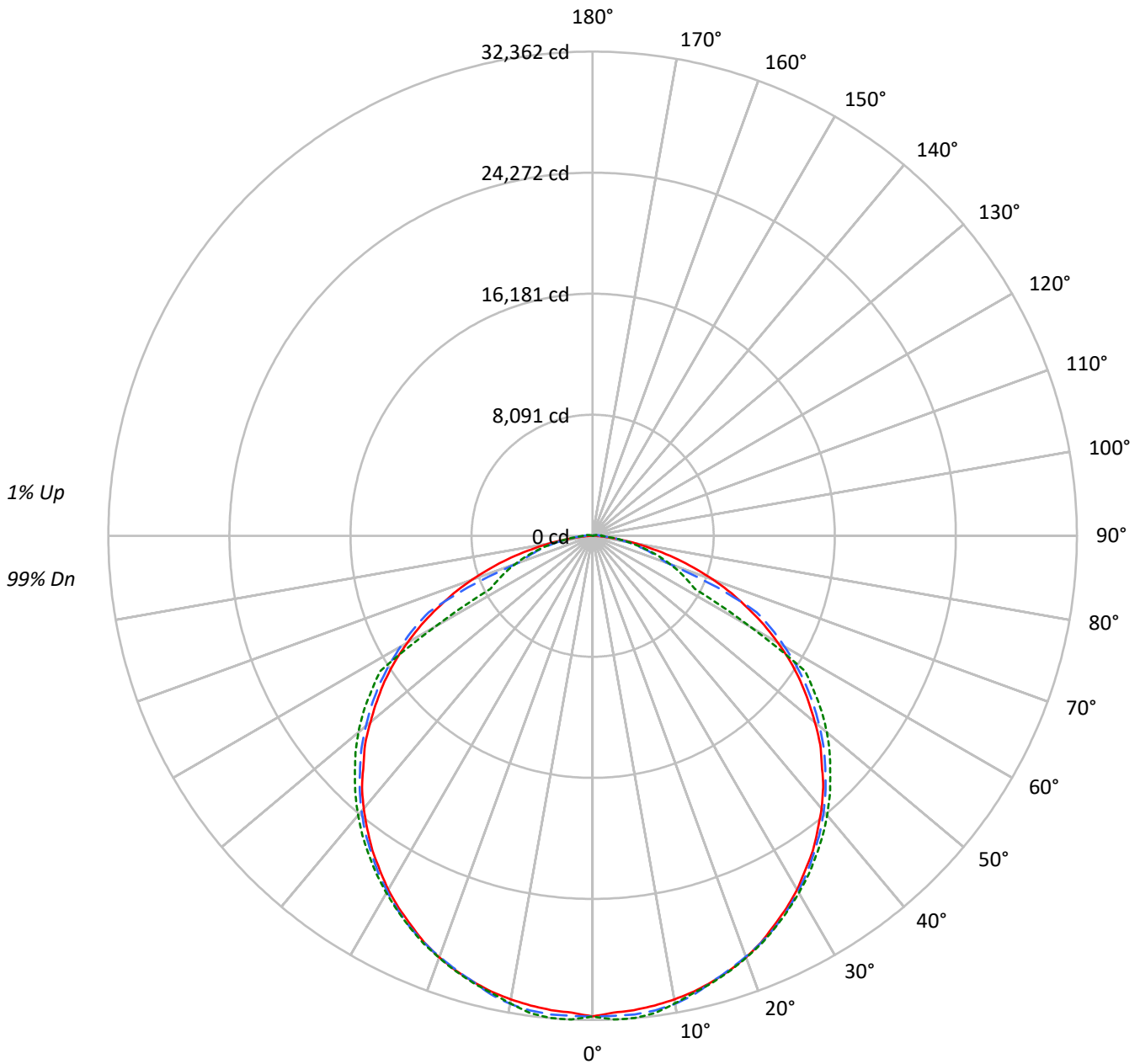
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 90195.0 lumens  
Efficiency: N/A  
Efficacy: 170.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 529  
Input Voltage (V): NR  
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102				99																
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86				84																
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73				71																
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62				60																
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53				51																
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46				44																
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41				39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36				34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32				30																
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29				27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26				25																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	50805	50805	50805
5°	50524	50981	51366
10°	50538	51019	50955
15°	50530	50521	50631
20°	50461	50385	50508
25°	50116	50371	50411
30°	49884	50141	50337
35°	49560	49833	50300
40°	49133	49598	50332
45°	48424	49155	50227
50°	47694	48666	50274
55°	46782	47995	49721
60°	45215	46819	38708
65°	42778	45266	26051
70°	39566	24030	25283
75°	34512	22836	24144
80°	26541	20948	22127
85°	13395	21170	21680



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3052.0	3.4
10°-20°	8738.7	9.7
20°-30°	13296.7	14.7
30°-40°	16166.9	17.9
40°-50°	16998.8	18.8
50°-60°	15521.9	17.2
60°-70°	9950.3	11.0
70°-80°	4700.4	5.2
80°-90°	1303.4	1.4
90°-100°	345.2	0.4
100°-110°	94.5	0.1
110°-120°	26.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25087.4	27.8
0°-40°	41254.4	45.7
0°-60°	73775.1	81.8
0°-90°	89729.1	99.5
90°-120°	465.9	0.5
90°-150°	465.9	0.5
90°-180°	466.0	0.5
0°-180°	90195.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32125	32125	32125	32125	32125	
5°	31826	31950	32114	32289	32356	###
15°	30862	31093	30857	30902	30924	8713
25°	28720	28765	28867	28912	28889	13252
35°	25671	25519	25812	26127	26054	16043
45°	21651	21612	21978	22497	22458	16735
55°	16967	16838	17407	17988	18033	15132
65°	11432	11432	12096	6939	6962	11333
75°	5648	5756	3737	3935	3951	5954
85°	738	936	1167	1263	1195	1091
90°	0	316	519	614	603	32
95°	17	164	372	502	502	9
105°	28	62	90	90	85	28
115°	28	39	56	39	5	20
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32125.1	32125.1	32125.1	32125.1	<i>32125.1</i>
2.5°	<i>31899.5</i>	<i>32007.0</i>	<i>32125.1</i>	<i>32277.3</i>	<i>32361.5</i>
5°	31826.1	31950.3	32113.8	32288.7	<i>32356.1</i>
7.5°	31668.6	31842.9	32001.0	32125.1	<i>32164.5</i>
10°	31471.0	31679.9	31770.0	31758.7	<i>31730.7</i>
12.5°	31206.1	31426.3	31398.2	31268.1	<i>31290.8</i>
15°	30862.3	31093.3	30856.9	30901.7	<i>30924.4</i>
17.5°	30456.5	30682.1	30405.8	30495.9	<i>30501.8</i>
20°	29983.2	30152.1	29937.9	30011.3	<i>30011.3</i>
22.5°	29413.9	29532.0	29441.9	29492.7	<i>29504.0</i>
25°	28720.4	28765.2	28866.6	28912.0	<i>28889.3</i>
27.5°	28055.6	27998.9	28196.4	28303.2	<i>28246.5</i>
30°	27316.7	27226.6	27457.6	27632.4	<i>27565.0</i>
32.5°	26471.1	26415.0	26679.9	26888.2	<i>26848.8</i>
35°	25670.7	25518.6	25811.6	26127.3	<i>26053.9</i>
37.5°	24723.6	24633.5	24965.9	25298.9	<i>25259.6</i>
40°	23799.2	23647.0	24024.8	24419.3	<i>24379.9</i>
42.5°	22807.3	22626.5	23038.3	23512.1	<i>23466.8</i>
45°	21651.3	21611.9	21978.3	22497.0	<i>22457.6</i>
47.5°	20626.0	20428.5	20941.1	21443.0	<i>21488.4</i>
50°	19385.3	19312.4	19780.3	20389.1	<i>20433.8</i>
52.5°	18173.7	18123.0	18613.0	19227.7	<i>19306.5</i>
55°	16967.0	16837.5	17406.9	17987.5	<i>18032.9</i>
57.5°	15676.7	15541.3	16122.0	16753.4	<i>16848.9</i>
60°	14295.1	14165.6	14802.4	15389.1	<i>12238.0</i>
62.5°	12914.2	12824.0	13489.5	9554.8	<i>7700.5</i>
65°	11431.7	11431.7	12096.5	6939.0	<i>6961.7</i>
67.5°	10045.3	9955.2	9019.4	6234.2	<i>6234.2</i>
70°	8556.9	8590.9	5196.9	5462.5	<i>5467.9</i>
72.5°	7063.1	7187.3	4487.3	4701.0	<i>4712.3</i>
75°	5648.1	5755.5	3737.2	3934.7	<i>3951.4</i>
77.5°	4149.0	3190.5	3004.3	3157.1	<i>3162.4</i>
80°	2914.2	2012.4	2300.1	2446.3	<i>2429.6</i>
82.5°	1702.1	1409.0	1685.4	1792.8	<i>1786.8</i>
85°	738.2	935.8	1166.7	1262.8	<i>1194.8</i>
87.5°	236.3	580.7	726.9	783.6	<i>777.6</i>
90°	0.0	315.7	518.6	614.1	<i>603.4</i>
92.5°	0.0	247.7	451.2	564.0	<i>569.3</i>
95°	16.7	163.5	372.4	501.9	<i>501.9</i>
97.5°	11.3	118.2	265.0	394.5	<i>405.8</i>
100°	11.3	95.5	174.9	281.7	<i>287.7</i>
102.5°	28.0	78.8	106.8	180.2	<i>186.2</i>
105°	28.0	62.1	90.1	90.1	<i>84.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34.0	45.4	62.1	45.4	5.4
115°	28.0	39.4	56.1	39.4	5.4
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	28.0	56.1	78.8	50.7	16.7
110°	34.0	50.7	67.4	45.4	5.4



(END OF REPORT)