

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: P829692

Luminaire Tested: **OHBL-100SE-MFL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-MFL-UNV-L935-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

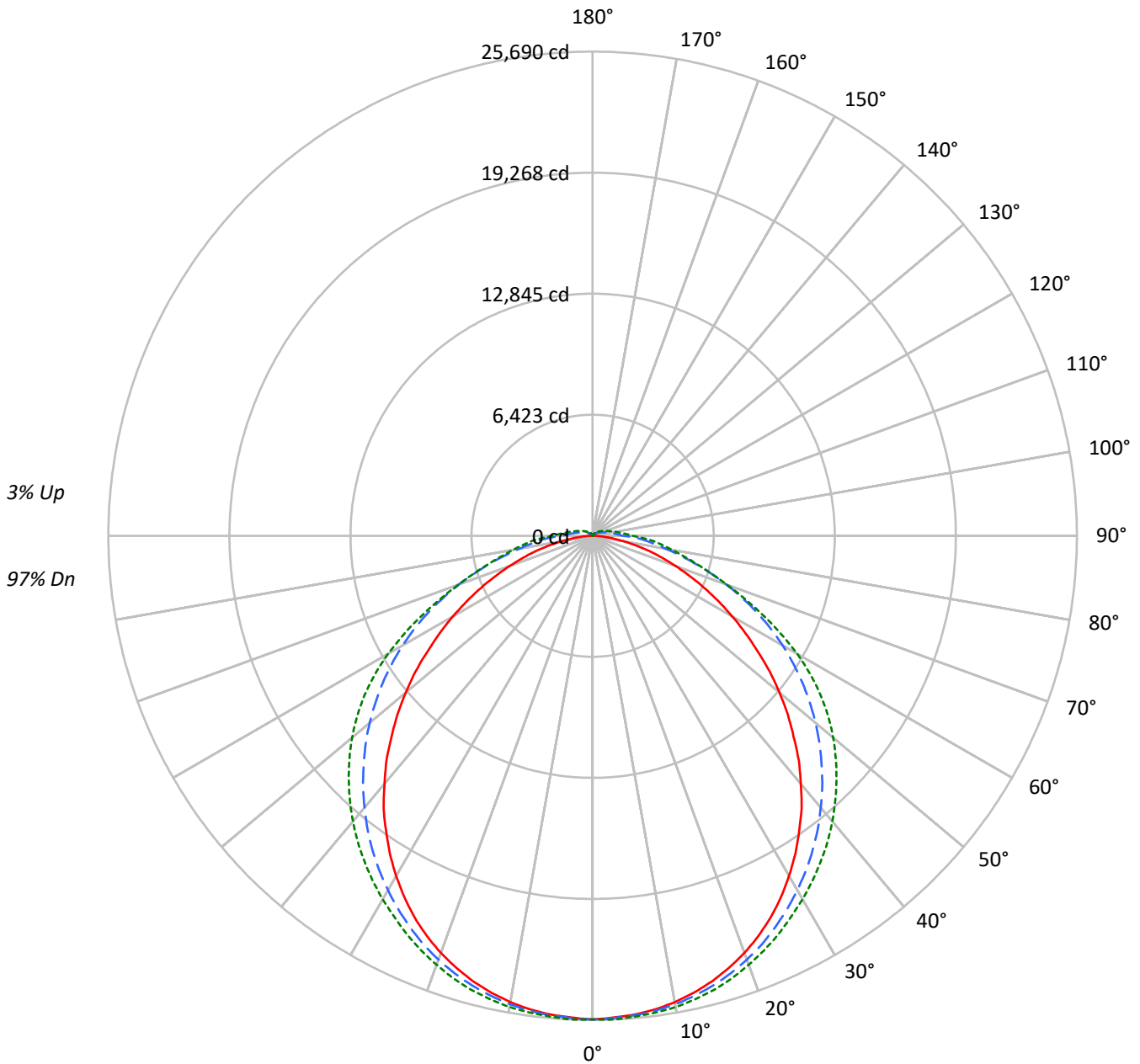
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 76812.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	86	84	82	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	75	72	68	66		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	59	54	50	47		
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	53	48	43	41		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	32		
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	37	32	27	25		
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	35	29	25	23		

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

	0°	45°	90°
0°	40589	40589	40589
5°	40329	40205	40328
10°	40047	39850	40116
15°	39599	39426	39839
20°	39006	38908	39433
25°	38212	38260	39023
30°	37114	37557	38610
35°	35785	36811	38253
40°	34188	35948	37902
45°	32306	35010	37454
50°	30246	34062	36911
55°	27715	32901	35991
60°	25121	31535	34157
65°	22291	29788	31141
70°	19222	27562	27876
75°	16116	24990	25671
80°	12219	23131	25467
85°	7730	24043	28459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2431.9	3.2
10°-20°	6976.8	9.1
20°-30°	10551.3	13.7
30°-40°	12666.9	16.5
40°-50°	13082.9	17.0
50°-60°	11770.5	15.3
60°-70°	8866.5	11.5
70°-80°	5353.9	7.0
80°-90°	2618.5	3.4
90°-100°	1102.2	1.4
100°-110°	629.2	0.8
110°-120°	369.3	0.5
120°-130°	208.9	0.3
130°-140°	110.0	0.1
140°-150°	53.5	0.1
150°-160°	19.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19960.0	26.0
0°-40°	32626.9	42.5
0°-60°	57480.2	74.8
0°-90°	74319.1	96.8
90°-120°	2100.7	2.7
90°-150°	2473.0	3.2
90°-180°	2493.0	3.2
0°-180°	76812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25665	25665	25665	25665	25665	
5°	25502	25571	25540	25640	25609	###
15°	24472	24591	24704	24912	24937	6899
25°	22349	22594	22914	23272	23329	10280
35°	19108	19554	20358	20973	21099	11945
45°	15081	15841	17167	18103	18297	11643
55°	10684	11790	13580	14604	14780	9580
65°	6520	7852	9610	10088	9975	6478
75°	3072	4410	5565	5710	5653	3277
85°	641	1690	2789	3172	3229	740
90°	0	660	1595	2010	2092	40
95°	31	446	1193	1520	1577	26
105°	44	258	691	904	942	44
115°	50	144	427	572	597	51
125°	50	69	258	371	389	45
135°	44	56	132	226	251	35
145°	63	56	63	113	132	37
155°	63	69	63	56	63	19
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25665.3	25665.3	25665.3	25665.3	25665.3
2.5°	25590.0	25652.8	25615.1	25696.7	25690.5
5°	25502.0	25571.1	25539.7	25640.2	25608.8
7.5°	25351.3	25426.6	25420.4	25533.4	25520.9
10°	25131.4	25213.1	25238.2	25389.0	25389.0
12.5°	24829.9	24936.7	24999.5	25181.7	25188.0
15°	24471.9	24591.2	24704.3	24911.6	24936.7
17.5°	24038.5	24189.2	24346.3	24585.0	24616.4
20°	23548.5	23718.1	23931.7	24182.9	24220.6
22.5°	22983.2	23184.2	23460.6	23755.8	23799.8
25°	22348.8	22593.8	22914.1	23272.2	23328.7
27.5°	21626.5	21909.1	22342.5	22744.5	22794.8
30°	20841.3	21174.2	21714.4	22191.8	22273.4
32.5°	20012.2	20395.3	21061.2	21595.1	21708.1
35°	19107.7	19553.6	20357.6	20973.2	21098.8
37.5°	18215.7	18705.7	19616.5	20320.0	20470.7
40°	17173.0	17782.3	18825.0	19603.9	19786.0
42.5°	16193.2	16852.7	18033.6	18881.5	19057.4
45°	15081.4	15841.4	17166.8	18102.7	18297.4
47.5°	14038.7	14861.5	16331.3	17298.7	17499.7
50°	12939.4	13844.0	15439.4	16450.7	16658.0
52.5°	11840.2	12813.8	14516.1	15565.0	15759.7
55°	10684.5	11790.0	13580.1	14604.0	14779.9
57.5°	9610.4	10778.7	12619.1	13592.7	13699.5
60°	8548.8	9761.1	11639.2	12493.5	12531.2
62.5°	7512.4	8787.5	10634.2	11312.6	11262.3
65°	6520.0	7851.6	9610.4	10087.7	9974.7
67.5°	5565.2	6940.8	8561.4	8869.2	8718.4
70°	4660.7	6055.2	7543.8	7700.9	7562.7
72.5°	3863.0	5213.5	6513.7	6645.6	6545.1
75°	3071.5	4409.5	5565.2	5709.7	5653.2
77.5°	2330.4	3630.6	4692.1	4880.6	4893.1
80°	1677.1	2920.8	3932.1	4227.3	4265.0
82.5°	1105.5	2267.5	3297.7	3674.6	3731.1
85°	640.7	1689.7	2788.9	3172.0	3228.6
87.5°	276.4	1218.6	2242.4	2587.9	2657.0
90°	0.0	659.5	1595.4	2010.0	2091.7
92.5°	18.8	546.5	1369.3	1746.2	1815.3
95°	31.4	446.0	1193.4	1520.1	1576.6
97.5°	37.7	376.9	1036.4	1325.4	1381.9
100°	37.7	326.6	898.2	1162.0	1212.3
102.5°	37.7	288.9	785.2	1017.6	1061.5
105°	44.0	257.5	690.9	904.5	942.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.3	169.6	477.4	640.7	665.8
115°	50.3	144.5	427.1	571.6	596.7
117.5°	56.5	125.6	376.9	515.1	533.9
120°	56.5	106.8	332.9	458.5	483.7
122.5°	56.5	87.9	295.2	414.6	433.4
125°	50.3	69.1	257.5	370.6	389.4
127.5°	44.0	56.5	219.8	332.9	351.8
130°	44.0	50.3	188.4	295.2	314.1
132.5°	44.0	56.5	157.0	257.5	282.7
135°	44.0	56.5	131.9	226.1	251.3
137.5°	44.0	56.5	106.8	194.7	219.8
140°	50.3	56.5	87.9	163.3	188.4
142.5°	56.5	56.5	69.1	138.2	157.0
145°	62.8	56.5	62.8	113.1	131.9
147.5°	62.8	62.8	62.8	87.9	106.8
150°	62.8	69.1	62.8	69.1	87.9
152.5°	62.8	69.1	62.8	56.5	69.1
155°	62.8	69.1	62.8	56.5	62.8
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°	44.0	226.1	609.3	804.0	835.4
110°	44.0	201.0	540.2	716.1	747.5



(END OF REPORT)