

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: P830146

Luminaire Tested: **OHBL-24SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830146  
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-24SE-NL-UNV-L850-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

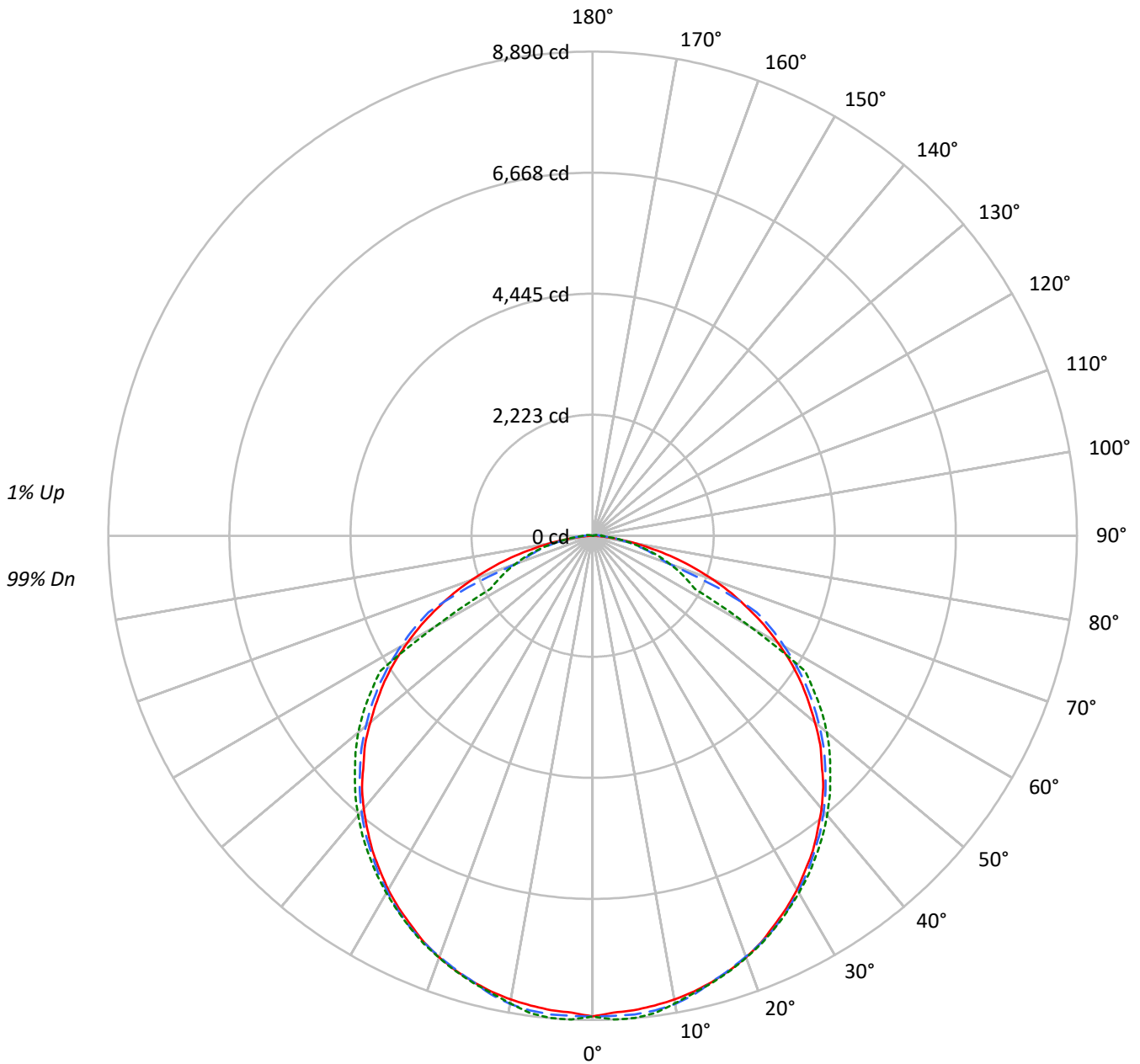
Lumens per Lamp: N/A  
Luminaire Lumens: 24778.0 lumens  
Efficiency: N/A  
Efficacy: 179.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct

Input Watts (W): 138  
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°	15074	15074	15074
5°	14990	15126	15240
10°	14994	15137	15118
15°	14992	14989	15022
20°	14971	14949	14985
25°	14869	14945	14956
30°	14800	14876	14935
35°	14704	14785	14924
40°	14577	14716	14933
45°	14367	14584	14902
50°	14150	14439	14916
55°	13880	14239	14752
60°	13415	13891	11485
65°	12692	13430	7729
70°	11739	7130	7501
75°	10239	6775	7163
80°	7875	6215	6564
85°	3974	6281	6432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.4	3.4
10°-20°	2400.7	9.7
20°-30°	3652.8	14.7
30°-40°	4441.3	17.9
40°-50°	4669.8	18.8
50°-60°	4264.1	17.2
60°-70°	2733.5	11.0
70°-80°	1291.3	5.2
80°-90°	358.1	1.4
90°-100°	94.8	0.4
100°-110°	26.0	0.1
110°-120°	7.2	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°	6891.9	27.8
0°-40°	11333.2	45.7
0°-60°	20267.2	81.8
0°-90°	24650.0	99.5
90°-120°	128.0	0.5
90°-150°	128.0	0.5
90°-180°	128.0	0.5
0°-180°	24778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8825	8825	8825	8825	8825	
5°	8743	8777	8822	8870	8889	831
15°	8478	8542	8477	8489	8495	2394
25°	7890	7902	7930	7943	7936	3641
35°	7052	7010	7091	7178	7157	4407
45°	5948	5937	6038	6180	6170	4597
55°	4661	4626	4782	4942	4954	4157
65°	3140	3140	3323	1906	1912	3113
75°	1552	1581	1027	1081	1086	1636
85°	203	257	320	347	328	300
90°	0	87	142	169	166	9
95°	5	45	102	138	138	3
105°	8	17	25	25	23	8
115°	8	11	15	11	2	5
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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CATALOG NUMBER: OHBL-24SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8825.3	8825.3	8825.3	8825.3	8825.3
2.5°	8763.3	8792.8	8825.3	8867.1	8890.2
5°	8743.1	8777.2	8822.2	8870.2	8888.7
7.5°	8699.9	8747.7	8791.2	8825.3	8836.1
10°	8645.6	8703.0	8727.7	8724.6	8716.9
12.5°	8572.8	8633.3	8625.6	8589.9	8596.1
15°	8478.4	8541.8	8476.9	8489.2	8495.4
17.5°	8366.9	8428.9	8352.9	8377.7	8379.3
20°	8236.9	8283.3	8224.4	8244.6	8244.6
22.5°	8080.5	8112.9	8088.2	8102.1	8105.2
25°	7889.9	7902.2	7930.1	7942.6	7936.3
27.5°	7707.3	7691.7	7746.0	7775.3	7759.8
30°	7504.3	7479.6	7543.0	7591.1	7572.5
32.5°	7272.0	7256.6	7329.4	7386.6	7375.8
35°	7052.2	7010.4	7090.9	7177.6	7157.4
37.5°	6792.0	6767.2	6858.5	6950.0	6939.2
40°	6538.0	6496.2	6600.0	6708.4	6697.5
42.5°	6265.5	6215.9	6329.0	6459.2	6446.7
45°	5948.0	5937.1	6037.8	6180.3	6169.5
47.5°	5666.3	5612.0	5752.9	5890.7	5903.2
50°	5325.4	5305.4	5434.0	5601.2	5613.5
52.5°	4992.6	4978.7	5113.3	5282.2	5303.8
55°	4661.1	4625.5	4781.9	4941.5	4953.9
57.5°	4306.6	4269.4	4429.0	4602.4	4628.6
60°	3927.1	3891.5	4066.5	4227.6	3362.0
62.5°	3547.7	3523.0	3705.8	2624.8	2115.5
65°	3140.5	3140.5	3323.1	1906.3	1912.5
67.5°	2759.6	2734.9	2477.8	1712.6	1712.6
70°	2350.7	2360.1	1427.7	1500.6	1502.1
72.5°	1940.4	1974.5	1232.7	1291.4	1294.6
75°	1551.6	1581.1	1026.7	1080.9	1085.5
77.5°	1139.8	876.5	825.3	867.3	868.8
80°	800.6	552.8	631.9	672.0	667.4
82.5°	467.6	387.1	463.0	492.5	490.9
85°	202.8	257.1	320.5	346.9	328.2
87.5°	64.9	159.5	199.7	215.3	213.6
90°	0.0	86.7	142.5	168.7	165.8
92.5°	0.0	68.0	123.9	154.9	156.4
95°	4.6	44.9	102.3	137.9	137.9
97.5°	3.1	32.5	72.8	108.4	111.5
100°	3.1	26.2	48.0	77.4	79.0
102.5°	7.7	21.6	29.3	49.5	51.2
105°	7.7	17.1	24.8	24.8	23.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.3	12.5	17.1	12.5	1.5
115°	7.7	10.8	15.4	10.8	1.5
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°	7.7	15.4	21.6	13.9	4.6
110°	9.3	13.9	18.5	12.5	1.5



(END OF REPORT)