

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: P830112

Luminaire Tested: **OHBL-24SE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830112  
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-24SE-MCL-UNV-L935-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

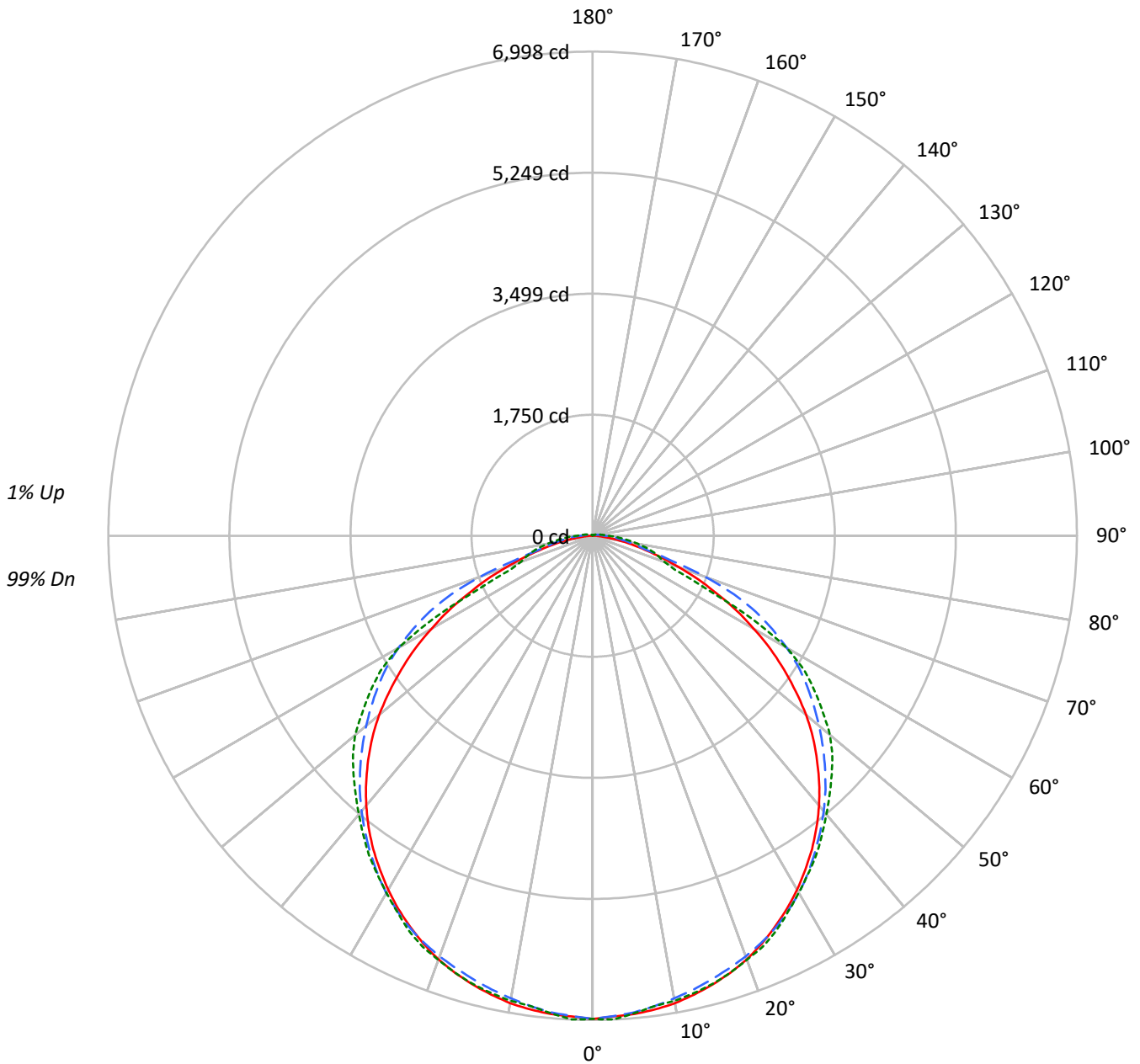
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19738.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 138  
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°	11927	11927	11927
5°	11849	11749	11771
10°	11806	11566	11633
15°	11731	11427	11548
20°	11656	11338	11438
25°	11516	11248	11329
30°	11363	11110	11106
35°	11180	10893	10979
40°	10942	10669	10809
45°	10612	10410	10727
50°	10166	10116	10630
55°	9456	9825	10219
60°	8527	9402	9431
65°	7315	8627	5964
70°	5892	6721	4311
75°	4417	3978	4357
80°	3075	3292	4131
85°	1750	2989	3822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.5	3.3
10°-20°	1888.2	9.6
20°-30°	2883.8	14.6
30°-40°	3499.1	17.7
40°-50°	3667.3	18.6
50°-60°	3323.2	16.8
60°-70°	2228.1	11.3
70°-80°	1000.5	5.1
80°-90°	363.1	1.8
90°-100°	109.3	0.6
100°-110°	51.6	0.3
110°-120°	25.8	0.1
120°-130°	14.3	0.1
130°-140°	9.8	0.0
140°-150°	6.6	0.0
150°-160°	4.9	0.0
160°-170°	3.1	0.0
170°-180°	1.0	0.0
0°-30°	5430.4	27.5
0°-40°	8929.5	45.2
0°-60°	15920.0	80.7
0°-90°	19511.6	98.9
90°-120°	186.7	0.9
90°-150°	217.4	1.1
90°-180°	226.0	1.1
0°-180°	19738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6983	6983	6983	6983	6983	
5°	6938	6962	6914	6935	6926	660
15°	6713	6686	6639	6698	6706	1895
25°	6236	6209	6252	6310	6292	2874
35°	5527	5540	5597	5656	5634	3455
45°	4587	4662	4749	4870	4885	3534
55°	3376	3538	3779	3931	3922	3013
65°	1981	2291	2601	2195	1792	1974
75°	780	1131	832	851	907	852
85°	134	258	330	399	418	164
90°	1	86	171	214	224	8
95°	1	54	117	142	146	1
105°	4	23	58	70	73	5
115°	8	12	29	37	39	8
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6983.3	6983.3	6983.3	6983.3	6983.3
2.5°	6955.0	6984.3	6948.0	6987.4	6997.5
5°	6937.9	6962.1	6913.6	6934.9	6925.8
7.5°	6906.6	6914.7	6857.1	6874.3	6856.1
10°	6860.1	6856.1	6788.4	6821.8	6825.8
12.5°	6791.5	6779.4	6718.8	6769.3	6770.3
15°	6712.7	6686.5	6639.0	6697.6	6705.6
17.5°	6621.8	6587.5	6556.2	6631.9	6619.8
20°	6515.8	6475.4	6469.4	6552.2	6521.9
22.5°	6384.5	6353.2	6367.4	6446.1	6427.0
25°	6236.1	6208.9	6252.3	6309.8	6291.7
27.5°	6079.6	6063.5	6112.9	6157.4	6122.0
30°	5908.0	5898.9	5964.5	6000.8	5956.4
32.5°	5721.2	5724.2	5786.8	5836.3	5794.9
35°	5527.3	5540.4	5597.0	5656.5	5634.3
37.5°	5314.2	5343.5	5400.1	5467.7	5444.5
40°	5089.1	5131.5	5194.1	5275.9	5254.7
42.5°	4845.7	4899.2	4980.0	5070.9	5068.9
45°	4587.2	4661.9	4748.8	4869.9	4885.1
47.5°	4318.6	4402.4	4512.5	4674.1	4697.3
50°	4026.8	4131.8	4269.2	4463.0	4477.2
52.5°	3701.7	3845.1	4026.8	4212.6	4195.4
55°	3375.5	3538.1	3779.4	3930.9	3921.8
57.5°	3050.4	3233.2	3526.0	3634.0	3633.0
60°	2686.9	2918.1	3238.2	3320.0	3239.2
62.5°	2350.7	2599.1	2931.3	2871.7	2595.0
65°	1981.1	2291.1	2601.1	2195.2	1792.3
67.5°	1652.9	1976.0	2209.3	1503.5	1287.4
70°	1322.8	1679.2	1722.6	1115.8	1100.6
72.5°	1029.9	1409.6	1188.5	955.2	1003.7
75°	779.5	1130.9	832.0	851.2	906.7
77.5°	568.5	868.4	647.2	746.2	791.6
80°	390.8	614.9	528.1	627.0	658.3
82.5°	245.4	405.9	423.1	504.9	537.2
85°	134.3	257.5	330.2	398.8	418.0
87.5°	55.5	155.5	252.4	308.0	324.1
90°	1.0	85.8	170.6	214.1	224.2
92.5°	1.0	65.6	139.3	172.7	179.7
95°	1.0	53.5	117.1	142.4	146.4
97.5°	2.0	42.4	97.9	118.1	122.2
100°	3.0	35.3	81.8	99.0	102.0
102.5°	4.0	28.3	68.7	82.8	85.8
105°	4.0	23.2	57.6	69.7	72.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	14.1	34.3	43.4	45.4
115°	8.1	12.1	29.3	37.4	39.4
117.5°	8.1	10.1	25.2	31.3	33.3
120°	8.1	9.1	22.2	27.3	28.3
122.5°	8.1	8.1	19.2	24.2	25.2
125°	7.1	8.1	18.2	21.2	22.2
127.5°	8.1	8.1	16.2	19.2	20.2
130°	8.1	9.1	14.1	18.2	18.2
132.5°	9.1	10.1	13.1	17.2	17.2
135°	9.1	10.1	11.1	16.2	17.2
137.5°	10.1	10.1	10.1	15.1	16.2
140°	10.1	10.1	9.1	13.1	14.1
142.5°	9.1	10.1	9.1	12.1	13.1
145°	9.1	10.1	10.1	11.1	12.1
147.5°	10.1	10.1	10.1	10.1	11.1
150°	10.1	10.1	10.1	10.1	10.1
152.5°	10.1	10.1	10.1	10.1	10.1
155°	10.1	11.1	11.1	11.1	10.1
157.5°	10.1	11.1	11.1	11.1	11.1
160°	10.1	11.1	11.1	11.1	11.1
162.5°	11.1	11.1	11.1	11.1	11.1
165°	11.1	11.1	11.1	11.1	11.1
167.5°	11.1	12.1	11.1	11.1	11.1
170°	11.1	11.1	11.1	10.1	10.1
172.5°	11.1	11.1	11.1	10.1	10.1
175°	11.1	11.1	10.1	9.1	9.1
177.5°	12.1	11.1	10.1	9.1	8.1
180°	10.1	10.1	10.1	10.1	10.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	5.0	19.2	49.5	59.6	61.6
110°	6.1	16.2	41.4	50.5	52.5



(END OF REPORT)