

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: P830022

Luminaire Tested: **OHBL-24HE-A-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830022  
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-24HE-A-UNV-L750-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

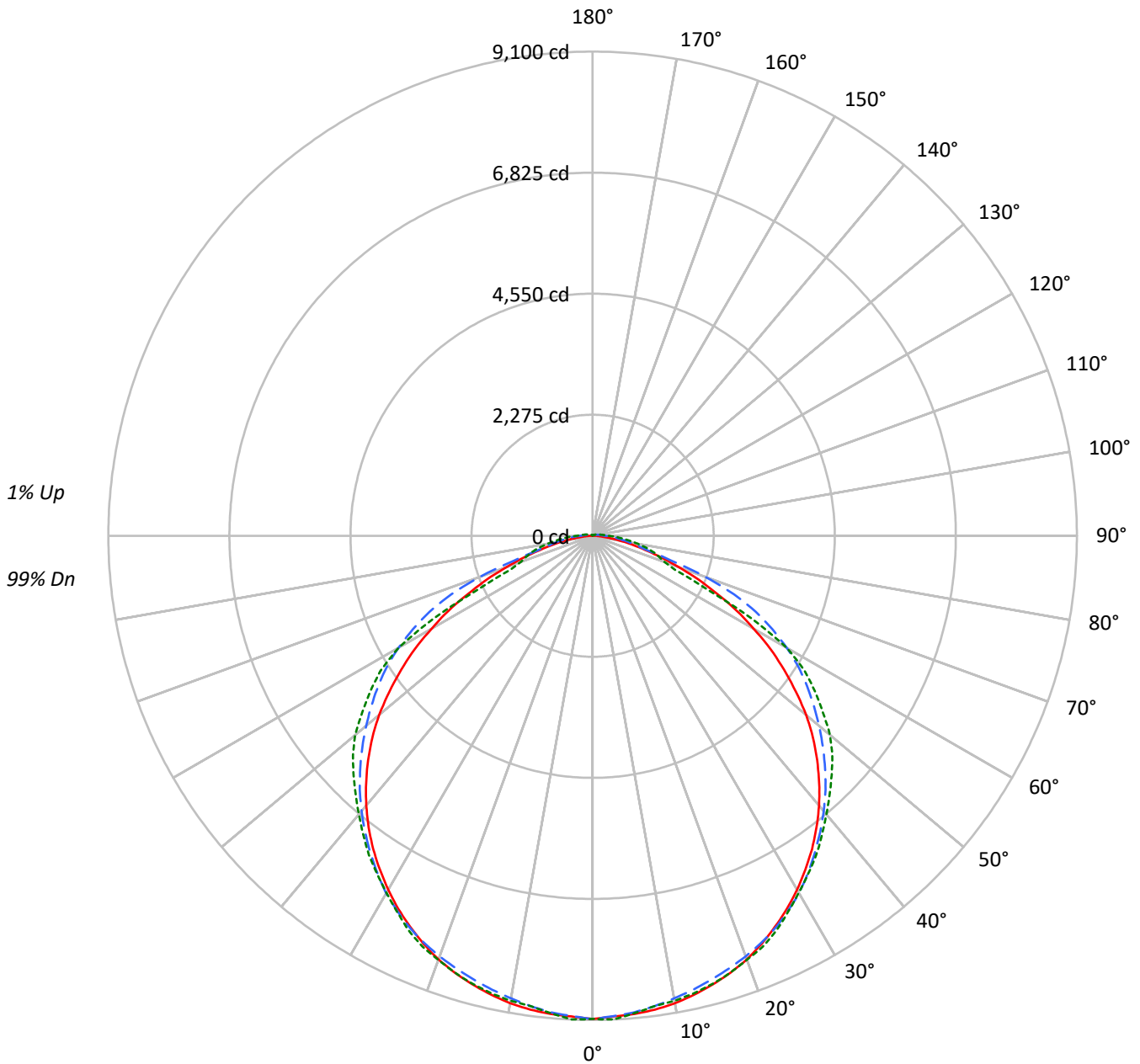
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25667.9 lumens  
Efficiency: N/A  
Efficacy: 193.0 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): 133  
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°	14362	14362	14362
5°	14268	14153	14183
10°	14216	13939	14025
15°	14126	13779	13932
20°	14035	13678	13808
25°	13866	13576	13686
30°	13682	13416	13427
35°	13462	13161	13284
40°	13175	12899	13090
45°	12779	12594	13004
50°	12241	12248	12901
55°	11386	11908	12419
60°	10268	11409	11482
65°	8808	10484	7277
70°	7095	8184	5276
75°	5319	4859	5355
80°	3703	4040	5112
85°	2107	3702	4792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.3	3.3
10°-20°	2455.4	9.6
20°-30°	3750.2	14.6
30°-40°	4550.3	17.7
40°-50°	4769.2	18.6
50°-60°	4321.6	16.8
60°-70°	2897.4	11.3
70°-80°	1301.1	5.1
80°-90°	472.1	1.8
90°-100°	142.1	0.6
100°-110°	67.1	0.3
110°-120°	33.6	0.1
120°-130°	18.5	0.1
130°-140°	12.7	0.0
140°-150°	8.6	0.0
150°-160°	6.4	0.0
160°-170°	4.1	0.0
170°-180°	1.3	0.0
0°-30°	7061.9	27.5
0°-40°	11612.2	45.2
0°-60°	20702.9	80.7
0°-90°	25373.6	98.9
90°-120°	242.8	0.9
90°-150°	282.6	1.1
90°-180°	294.0	1.1
0°-180°	25667.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9081	9081	9081	9081	9081	
5°	9022	9054	8991	9018	9006	858
15°	8730	8695	8634	8710	8720	2465
25°	8110	8074	8131	8206	8182	3738
35°	7188	7205	7278	7356	7327	4493
45°	5965	6063	6176	6333	6353	4595
55°	4390	4601	4915	5112	5100	3918
65°	2576	2979	3382	2855	2331	2567
75°	1014	1471	1082	1107	1179	1108
85°	175	335	429	519	544	213
90°	1	112	222	278	292	10
95°	1	70	152	185	190	2
105°	5	30	75	91	94	6
115°	10	16	38	49	51	10
125°	9	10	24	28	29	9
135°	12	13	14	21	22	9
145°	12	13	13	14	16	8
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	12	12	1
180°	13	13	13	13	13	



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CATALOG NUMBER: OHBL-24HE-A-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9081.4	9081.4	9081.4	9081.4	9081.4
2.5°	9044.6	9082.7	9035.4	9086.6	9099.7
5°	9022.3	9053.8	8990.8	9018.3	9006.5
7.5°	8981.6	8992.1	8917.2	8939.5	8915.9
10°	8921.2	8915.9	8827.9	8871.3	8876.5
12.5°	8831.9	8816.1	8737.3	8803.0	8804.3
15°	8729.5	8695.3	8633.6	8709.8	8720.3
17.5°	8611.3	8566.6	8525.9	8624.4	8608.6
20°	8473.4	8420.9	8413.0	8520.7	8481.3
22.5°	8302.7	8262.0	8280.4	8382.8	8357.8
25°	8109.7	8074.2	8130.7	8205.5	8181.9
27.5°	7906.1	7885.1	7949.5	8007.2	7961.3
30°	7682.9	7671.1	7756.4	7803.7	7745.9
32.5°	7440.0	7443.9	7525.3	7589.7	7535.8
35°	7187.9	7204.9	7278.5	7356.0	7327.1
37.5°	6910.8	6948.9	7022.4	7110.4	7080.2
40°	6618.0	6673.1	6754.6	6860.9	6833.3
42.5°	6301.5	6371.1	6476.2	6594.4	6591.7
45°	5965.4	6062.6	6175.5	6333.1	6352.8
47.5°	5616.1	5725.1	5868.2	6078.3	6108.5
50°	5236.6	5373.2	5551.8	5803.9	5822.3
52.5°	4813.8	5000.3	5236.6	5478.2	5455.9
55°	4389.7	4601.1	4914.9	5111.9	5100.1
57.5°	3966.9	4204.5	4585.3	4725.8	4724.5
60°	3494.1	3794.8	4211.1	4317.5	4212.4
62.5°	3056.9	3379.9	3811.9	3734.4	3374.7
65°	2576.3	2979.4	3382.5	2854.7	2330.7
67.5°	2149.5	2569.7	2873.1	1955.2	1674.2
70°	1720.2	2183.7	2240.1	1451.0	1431.3
72.5°	1339.4	1833.1	1545.5	1242.2	1305.2
75°	1013.7	1470.7	1082.0	1106.9	1179.2
77.5°	739.3	1129.3	841.7	970.4	1029.5
80°	508.2	799.7	686.7	815.4	856.1
82.5°	319.1	527.9	550.2	656.5	698.6
85°	174.6	334.8	429.4	518.7	543.6
87.5°	72.2	202.2	328.3	400.5	421.5
90°	1.3	111.6	221.9	278.4	291.5
92.5°	1.3	85.4	181.2	224.5	233.7
95°	1.3	69.6	152.3	185.1	190.4
97.5°	2.6	55.1	127.4	153.6	158.9
100°	3.9	46.0	106.4	128.7	132.6
102.5°	5.3	36.8	89.3	107.7	111.6
105°	5.3	30.2	74.8	90.6	94.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.2	18.4	44.6	56.5	59.1
115°	10.5	15.8	38.1	48.6	51.2
117.5°	10.5	13.1	32.8	40.7	43.3
120°	10.5	11.8	28.9	35.5	36.8
122.5°	10.5	10.5	24.9	31.5	32.8
125°	9.2	10.5	23.6	27.6	28.9
127.5°	10.5	10.5	21.0	24.9	26.3
130°	10.5	11.8	18.4	23.6	23.6
132.5°	11.8	13.1	17.1	22.3	22.3
135°	11.8	13.1	14.4	21.0	22.3
137.5°	13.1	13.1	13.1	19.7	21.0
140°	13.1	13.1	11.8	17.1	18.4
142.5°	11.8	13.1	11.8	15.8	17.1
145°	11.8	13.1	13.1	14.4	15.8
147.5°	13.1	13.1	13.1	13.1	14.4
150°	13.1	13.1	13.1	13.1	13.1
152.5°	13.1	13.1	13.1	13.1	13.1
155°	13.1	14.4	14.4	14.4	13.1
157.5°	13.1	14.4	14.4	14.4	14.4
160°	13.1	14.4	14.4	14.4	14.4
162.5°	14.4	14.4	14.4	14.4	14.4
165°	14.4	14.4	14.4	14.4	14.4
167.5°	14.4	15.8	14.4	14.4	14.4
170°	14.4	14.4	14.4	13.1	13.1
172.5°	14.4	14.4	14.4	13.1	13.1
175°	14.4	14.4	13.1	11.8	11.8
177.5°	15.8	14.4	13.1	11.8	10.5
180°	13.1	13.1	13.1	13.1	13.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	6.6	24.9	64.3	77.5	80.1
110°	7.9	21.0	53.8	65.7	68.3



(END OF REPORT)