

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: P830020

Luminaire Tested: **OHBL-24HE-A-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830020  
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-L735-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

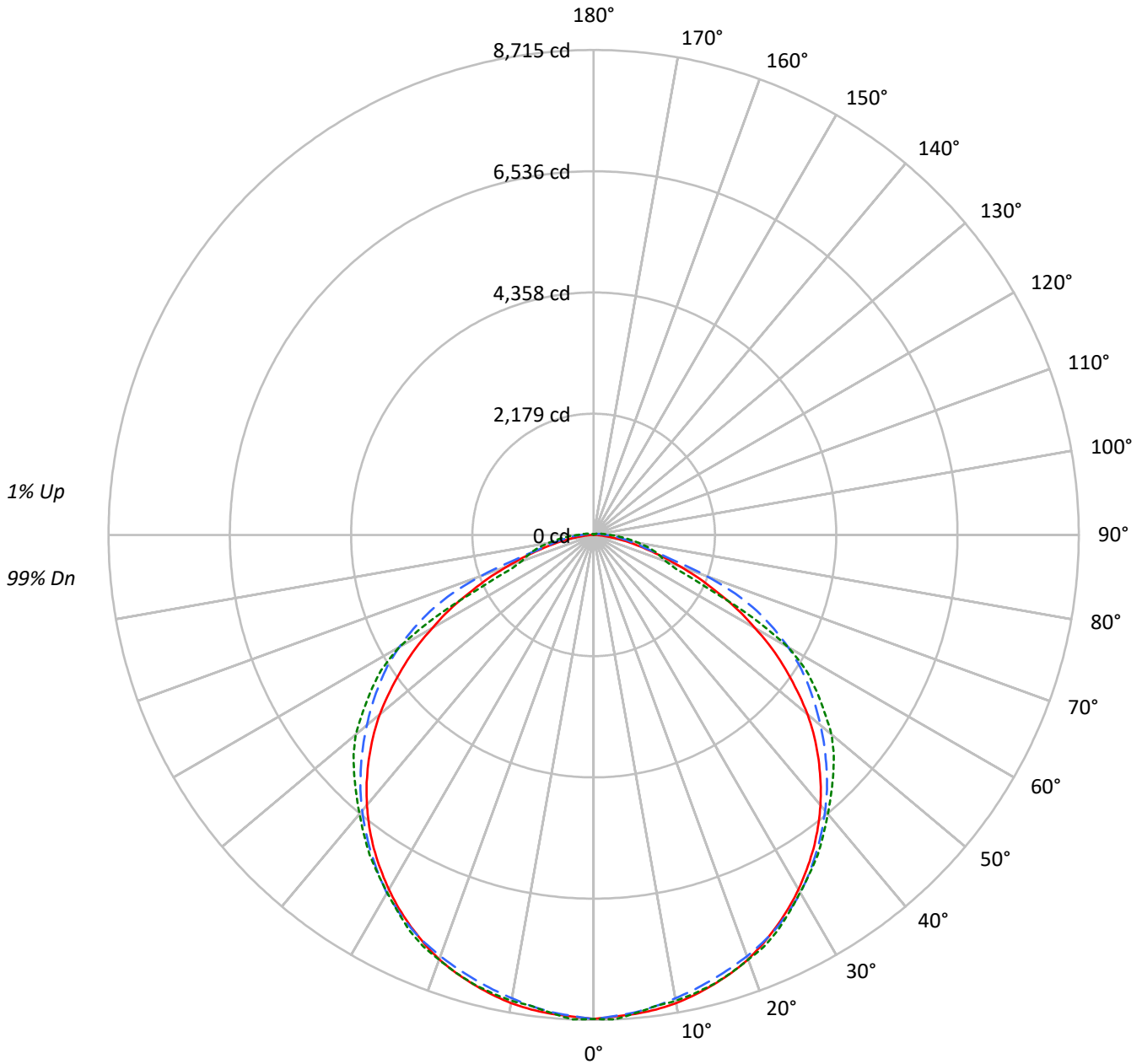
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24584.0 lumens  
Efficiency: N/A  
Efficacy: 184.8 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°	13755	13755	13755
5°	13665	13556	13584
10°	13615	13350	13433
15°	13529	13197	13343
20°	13443	13100	13225
25°	13280	13003	13108
30°	13104	12849	12860
35°	12893	12605	12723
40°	12619	12354	12537
45°	12239	12063	12455
50°	11724	11731	12356
55°	10906	11405	11895
60°	9834	10928	10997
65°	8436	10042	6969
70°	6795	7839	5053
75°	5094	4653	5128
80°	3546	3869	4896
85°	2019	3545	4590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.1	3.3
10°-20°	2351.7	9.6
20°-30°	3591.8	14.6
30°-40°	4358.1	17.7
40°-50°	4567.7	18.6
50°-60°	4139.1	16.8
60°-70°	2775.1	11.3
70°-80°	1246.1	5.1
80°-90°	452.2	1.8
90°-100°	136.1	0.6
100°-110°	64.2	0.3
110°-120°	32.2	0.1
120°-130°	17.8	0.1
130°-140°	12.2	0.0
140°-150°	8.2	0.0
150°-160°	6.1	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6763.7	27.5
0°-40°	11121.8	45.2
0°-60°	19828.6	80.7
0°-90°	24302.1	98.9
90°-120°	232.5	0.9
90°-150°	270.7	1.1
90°-180°	282.0	1.1
0°-180°	24584.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8698	8698	8698	8698	8698	
5°	8641	8671	8611	8638	8626	822
15°	8361	8328	8269	8342	8352	2361
25°	7767	7733	7787	7859	7836	3580
35°	6884	6901	6971	7045	7018	4303
45°	5714	5806	5915	6066	6084	4401
55°	4204	4407	4707	4896	4885	3753
65°	2468	2854	3240	2734	2232	2459
75°	971	1409	1036	1060	1129	1061
85°	167	321	411	497	521	204
90°	1	107	212	267	279	10
95°	1	67	146	177	182	2
105°	5	29	72	87	91	6
115°	10	15	36	46	49	9
125°	9	10	23	26	28	9
135°	11	13	14	20	21	9
145°	11	13	13	14	15	7
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	11	11	1
180°	13	13	13	13	13	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8697.8	8697.8	8697.8	8697.8	8697.8
2.5°	8662.6	8699.1	8653.8	8702.9	8715.4
5°	8641.2	8671.4	8611.1	8637.5	8626.2
7.5°	8602.3	8612.3	8540.6	8562.0	8539.4
10°	8544.4	8539.4	8455.1	8496.6	8501.6
12.5°	8458.9	8443.8	8368.3	8431.2	8432.5
15°	8360.8	8328.1	8269.0	8341.9	8352.0
17.5°	8247.6	8204.8	8165.9	8260.2	8245.1
20°	8115.6	8065.2	8057.7	8160.8	8123.1
22.5°	7952.1	7913.1	7930.7	8028.8	8004.9
25°	7767.2	7733.2	7787.3	7859.0	7836.4
27.5°	7572.3	7552.1	7613.8	7669.1	7625.1
30°	7358.5	7347.1	7428.9	7474.2	7418.8
32.5°	7125.8	7129.6	7207.5	7269.2	7217.6
35°	6884.3	6900.7	6971.1	7045.3	7017.6
37.5°	6619.0	6655.4	6725.9	6810.1	6781.2
40°	6338.5	6391.3	6469.3	6571.2	6544.8
42.5°	6035.4	6102.1	6202.7	6315.9	6313.4
45°	5713.5	5806.5	5914.7	6065.6	6084.5
47.5°	5378.9	5483.3	5620.4	5821.6	5850.5
50°	5015.5	5146.3	5317.3	5558.8	5576.4
52.5°	4610.5	4789.1	5015.5	5246.9	5225.5
55°	4204.3	4406.8	4707.3	4896.0	4884.7
57.5°	3799.3	4027.0	4391.7	4526.2	4525.0
60°	3346.6	3634.6	4033.3	4135.1	4034.5
62.5°	2927.8	3237.2	3650.9	3576.7	3232.1
65°	2467.5	2853.6	3239.7	2734.1	2232.3
67.5°	2058.8	2461.2	2751.7	1872.6	1603.5
70°	1647.5	2091.5	2145.5	1389.7	1370.8
72.5°	1282.8	1755.7	1480.2	1189.7	1250.1
75°	970.9	1408.6	1036.3	1060.2	1129.4
77.5°	708.1	1081.6	806.1	929.4	986.0
80°	486.7	765.9	657.7	781.0	820.0
82.5°	305.6	505.6	527.0	628.8	669.1
85°	167.3	320.7	411.2	496.8	520.7
87.5°	69.2	193.7	314.4	383.6	403.7
90°	1.3	106.9	212.5	266.6	279.2
92.5°	1.3	81.7	173.6	215.1	223.9
95°	1.3	66.7	145.9	177.3	182.4
97.5°	2.5	52.8	122.0	147.1	152.2
100°	3.8	44.0	101.9	123.2	127.0
102.5°	5.0	35.2	85.5	103.1	106.9
105°	5.0	28.9	71.7	86.8	90.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	17.6	42.8	54.1	56.6
115°	10.1	15.1	36.5	46.5	49.0
117.5°	10.1	12.6	31.4	39.0	41.5
120°	10.1	11.3	27.7	34.0	35.2
122.5°	10.1	10.1	23.9	30.2	31.4
125°	8.8	10.1	22.6	26.4	27.7
127.5°	10.1	10.1	20.1	23.9	25.2
130°	10.1	11.3	17.6	22.6	22.6
132.5°	11.3	12.6	16.3	21.4	21.4
135°	11.3	12.6	13.8	20.1	21.4
137.5°	12.6	12.6	12.6	18.9	20.1
140°	12.6	12.6	11.3	16.3	17.6
142.5°	11.3	12.6	11.3	15.1	16.3
145°	11.3	12.6	12.6	13.8	15.1
147.5°	12.6	12.6	12.6	12.6	13.8
150°	12.6	12.6	12.6	12.6	12.6
152.5°	12.6	12.6	12.6	12.6	12.6
155°	12.6	13.8	13.8	13.8	12.6
157.5°	12.6	13.8	13.8	13.8	13.8
160°	12.6	13.8	13.8	13.8	13.8
162.5°	13.8	13.8	13.8	13.8	13.8
165°	13.8	13.8	13.8	13.8	13.8
167.5°	13.8	15.1	13.8	13.8	13.8
170°	13.8	13.8	13.8	12.6	12.6
172.5°	13.8	13.8	13.8	12.6	12.6
175°	13.8	13.8	12.6	11.3	11.3
177.5°	15.1	13.8	12.6	11.3	10.1
180°	12.6	12.6	12.6	12.6	12.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	6.3	23.9	61.6	74.2	76.7
110°	7.5	20.1	51.6	62.9	65.4



(END OF REPORT)