

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: P830032

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830032  
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-MCL-UNV-L735-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

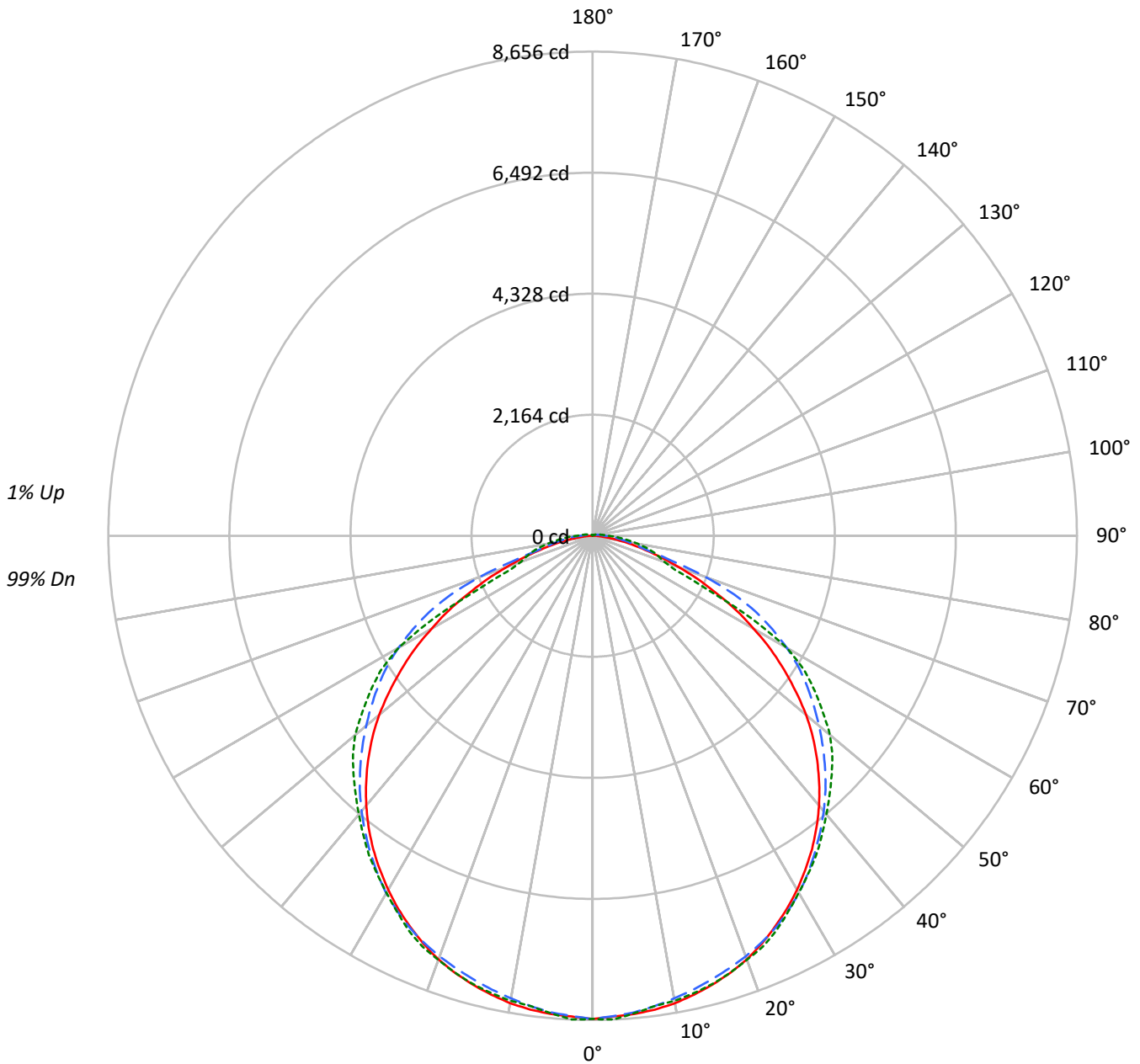
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24415.0 lumens  
Efficiency: N/A  
Efficacy: 183.6 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°	13661	13661	13661
5°	13571	13462	13491
10°	13522	13259	13341
15°	13436	13106	13252
20°	13350	13010	13134
25°	13189	12913	13018
30°	13014	12761	12772
35°	12804	12519	12636
40°	12532	12269	12451
45°	12155	11980	12369
50°	11643	11650	12271
55°	10831	11326	11813
60°	9767	10852	10921
65°	8378	9973	6922
70°	6748	7785	5018
75°	5059	4622	5093
80°	3522	3843	4862
85°	2004	3521	4558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.5	3.3
10°-20°	2335.6	9.6
20°-30°	3567.2	14.6
30°-40°	4328.2	17.7
40°-50°	4536.3	18.6
50°-60°	4110.6	16.8
60°-70°	2756.0	11.3
70°-80°	1237.6	5.1
80°-90°	449.1	1.8
90°-100°	135.2	0.6
100°-110°	63.8	0.3
110°-120°	32.0	0.1
120°-130°	17.6	0.1
130°-140°	12.1	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°	6717.2	27.5
0°-40°	11045.4	45.2
0°-60°	19692.3	80.7
0°-90°	24135.0	98.9
90°-120°	230.9	0.9
90°-150°	268.8	1.1
90°-180°	280.0	1.1
0°-180°	24415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8638	8638	8638	8638	8638	
5°	8582	8612	8552	8578	8567	816
15°	8303	8271	8212	8285	8295	2344
25°	7714	7680	7734	7805	7782	3556
35°	6837	6853	6923	6997	6969	4273
45°	5674	5767	5874	6024	6043	4371
55°	4175	4376	4675	4862	4851	3727
65°	2450	2834	3217	2715	2217	2442
75°	964	1399	1029	1053	1122	1054
85°	166	318	408	493	517	203
90°	1	106	211	265	277	10
95°	1	66	145	176	181	2
105°	5	29	71	86	90	6
115°	10	15	36	46	49	9
125°	9	10	22	26	28	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	12	11	11	1
180°	12	12	12	12	12	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8638.0	8638.0	8638.0	8638.0	8638.0
2.5°	8603.1	8639.3	8594.3	8643.0	8655.5
5°	8581.8	8611.8	8551.9	8578.1	8566.9
7.5°	8543.1	8553.1	8481.9	8503.2	8480.7
10°	8485.7	8480.7	8397.0	8438.2	8443.2
12.5°	8400.7	8385.8	8310.8	8373.3	8374.5
15°	8303.3	8270.8	8212.1	8284.6	8294.6
17.5°	8190.9	8148.4	8109.7	8203.4	8188.4
20°	8059.8	8009.8	8002.3	8104.7	8067.3
22.5°	7897.4	7858.7	7876.2	7973.6	7949.9
25°	7713.8	7680.1	7733.8	7805.0	7782.5
27.5°	7520.2	7500.2	7561.4	7616.4	7572.7
30°	7307.9	7296.6	7377.8	7422.8	7367.8
32.5°	7076.8	7080.6	7158.0	7219.2	7168.0
35°	6837.0	6853.2	6923.2	6996.9	6969.4
37.5°	6573.5	6609.7	6679.6	6763.3	6734.6
40°	6294.9	6347.4	6424.8	6526.0	6499.8
42.5°	5993.9	6060.1	6160.0	6272.5	6270.0
45°	5674.2	5766.6	5874.0	6023.9	6042.6
47.5°	5342.0	5445.6	5581.8	5781.6	5810.3
50°	4981.0	5110.9	5280.7	5520.6	5538.0
52.5°	4578.8	4756.2	4981.0	5210.8	5189.6
55°	4175.4	4376.5	4675.0	4862.3	4851.1
57.5°	3773.2	3999.3	4361.5	4495.1	4493.9
60°	3323.6	3609.6	4005.5	4106.7	4006.8
62.5°	2907.7	3214.9	3625.8	3552.1	3209.9
65°	2450.5	2834.0	3217.4	2715.3	2217.0
67.5°	2044.6	2444.3	2732.8	1859.8	1592.5
70°	1636.2	2077.1	2130.8	1380.1	1361.4
72.5°	1274.0	1743.6	1470.1	1181.5	1241.5
75°	964.2	1398.9	1029.2	1052.9	1121.6
77.5°	703.2	1074.1	800.6	923.0	979.2
80°	483.4	760.6	653.2	775.6	814.3
82.5°	303.5	502.1	523.3	624.5	664.5
85°	166.1	318.5	408.4	493.4	517.1
87.5°	68.7	192.3	312.2	380.9	400.9
90°	1.2	106.2	211.1	264.8	277.3
92.5°	1.2	81.2	172.4	213.6	222.3
95°	1.2	66.2	144.9	176.1	181.1
97.5°	2.5	52.5	121.2	146.1	151.1
100°	3.7	43.7	101.2	122.4	126.1
102.5°	5.0	35.0	84.9	102.4	106.2
105°	5.0	28.7	71.2	86.2	89.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	17.5	42.5	53.7	56.2
115°	10.0	15.0	36.2	46.2	48.7
117.5°	10.0	12.5	31.2	38.7	41.2
120°	10.0	11.2	27.5	33.7	35.0
122.5°	10.0	10.0	23.7	30.0	31.2
125°	8.7	10.0	22.5	26.2	27.5
127.5°	10.0	10.0	20.0	23.7	25.0
130°	10.0	11.2	17.5	22.5	22.5
132.5°	11.2	12.5	16.2	21.2	21.2
135°	11.2	12.5	13.7	20.0	21.2
137.5°	12.5	12.5	12.5	18.7	20.0
140°	12.5	12.5	11.2	16.2	17.5
142.5°	11.2	12.5	11.2	15.0	16.2
145°	11.2	12.5	12.5	13.7	15.0
147.5°	12.5	12.5	12.5	12.5	13.7
150°	12.5	12.5	12.5	12.5	12.5
152.5°	12.5	12.5	12.5	12.5	12.5
155°	12.5	13.7	13.7	13.7	12.5
157.5°	12.5	13.7	13.7	13.7	13.7
160°	12.5	13.7	13.7	13.7	13.7
162.5°	13.7	13.7	13.7	13.7	13.7
165°	13.7	13.7	13.7	13.7	13.7
167.5°	13.7	15.0	13.7	13.7	13.7
170°	13.7	13.7	13.7	12.5	12.5
172.5°	13.7	13.7	13.7	12.5	12.5
175°	13.7	13.7	12.5	11.2	11.2
177.5°	15.0	13.7	12.5	11.2	10.0
180°	12.5	12.5	12.5	12.5	12.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	6.2	23.7	61.2	73.7	76.2
110°	7.5	20.0	51.2	62.4	64.9



(END OF REPORT)