

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: P830465

Luminaire Tested: **OHBL-48HE-MCL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830465  
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-48HE-MCL-UNV-L740-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

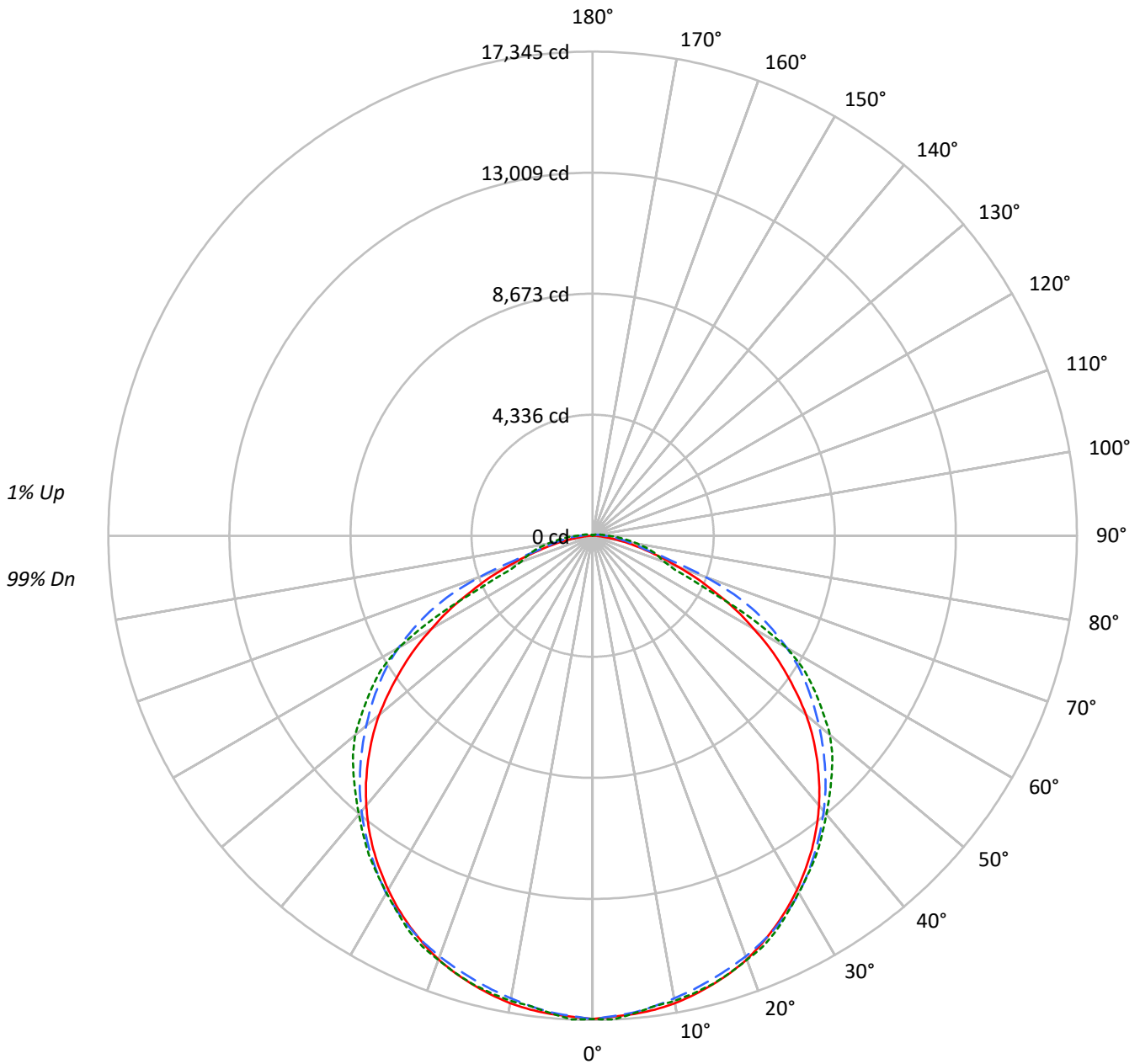
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48925.9 lumens  
Efficiency: N/A  
Efficacy: 183.9 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): 266  
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°	27375	27375	27375
5°	27196	26978	27034
10°	27097	26569	26734
15°	26925	26264	26555
20°	26753	26071	26320
25°	26430	25877	26087
30°	26079	25572	25594
35°	25659	25087	25321
40°	25113	24586	24951
45°	24357	24006	24787
50°	23332	23347	24591
55°	21704	22697	23673
60°	19571	21747	21886
65°	16789	19985	13870
70°	13523	15601	10056
75°	10138	9261	10206
80°	7057	7700	9744
85°	4017	7055	9134



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1632.2	3.3
10°-20°	4680.3	9.6
20°-30°	7148.3	14.6
30°-40°	8673.4	17.7
40°-50°	9090.5	18.6
50°-60°	8237.4	16.8
60°-70°	5522.8	11.3
70°-80°	2480.0	5.1
80°-90°	899.9	1.8
90°-100°	270.9	0.6
100°-110°	127.8	0.3
110°-120°	64.0	0.1
120°-130°	35.3	0.1
130°-140°	24.3	0.0
140°-150°	16.3	0.0
150°-160°	12.1	0.0
160°-170°	7.8	0.0
170°-180°	2.5	0.0
0°-30°	13460.8	27.5
0°-40°	22134.2	45.2
0°-60°	39462.0	80.7
0°-90°	48364.8	98.9
90°-120°	462.7	0.9
90°-150°	538.7	1.1
90°-180°	561.0	1.1
0°-180°	48925.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17310	17310	17310	17310	17310	
5°	17197	17258	17137	17190	17167	###
15°	16639	16574	16457	16602	16622	4698
25°	15458	15390	15498	15641	15596	7125
35°	13701	13733	13874	14021	13966	8563
45°	11371	11556	11771	12072	12109	8759
55°	8367	8770	9368	9744	9721	7469
65°	4911	5679	6448	5441	4443	4893
75°	1932	2803	2062	2110	2248	2112
85°	333	638	818	989	1036	406
90°	2	213	423	531	556	20
95°	2	133	290	353	363	3
105°	10	58	143	173	180	12
115°	20	30	73	93	98	19
125°	18	20	45	53	55	17
135°	22	25	28	40	42	18
145°	22	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	22	22	3
180°	25	25	25	25	25	



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CATALOG NUMBER: OHBL-48HE-MCL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17310.1	17310.1	17310.1	17310.1	17310.1
2.5°	17240.0	17312.6	17222.5	17320.1	17345.1
5°	17197.4	17257.5	17137.4	17189.9	17167.4
7.5°	17119.8	17139.9	16997.2	17039.7	16994.7
10°	17004.7	16994.7	16827.0	16909.6	16919.6
12.5°	16834.5	16804.5	16654.3	16779.4	16781.9
15°	16639.3	16574.2	16456.6	16601.7	16621.8
17.5°	16414.0	16328.9	16251.3	16439.1	16409.0
20°	16151.2	16051.1	16036.1	16241.3	16166.2
22.5°	15825.8	15748.3	15783.3	15978.5	15931.0
25°	15457.9	15390.3	15498.0	15640.6	15595.6
27.5°	15070.0	15029.9	15152.6	15262.7	15175.1
30°	14644.5	14621.9	14784.6	14874.7	14764.6
32.5°	14181.4	14188.9	14344.1	14466.8	14364.1
35°	13700.9	13733.4	13873.6	14021.2	13966.2
37.5°	13172.8	13245.3	13385.5	13553.2	13495.6
40°	12614.6	12719.7	12874.9	13077.7	13025.1
42.5°	12011.4	12144.1	12344.3	12569.6	12564.6
45°	11370.7	11555.9	11771.1	12071.5	12109.0
47.5°	10704.9	10912.6	11185.5	11585.9	11643.5
50°	9981.6	10241.9	10582.3	11062.8	11097.9
52.5°	9175.6	9531.0	9981.6	10442.1	10399.6
55°	8367.2	8770.2	9368.4	9743.8	9721.3
57.5°	7561.3	8014.3	8740.1	9007.9	9005.4
60°	6660.2	7233.4	8026.8	8229.5	8029.3
62.5°	5826.8	6442.5	7265.9	7118.2	6432.5
65°	4910.7	5679.1	6447.5	5441.3	4442.6
67.5°	4097.2	4898.2	5476.3	3726.8	3191.2
70°	3278.8	4162.3	4269.9	2765.7	2728.2
72.5°	2553.0	3494.0	2945.9	2367.7	2487.9
75°	1932.2	2803.2	2062.4	2109.9	2247.6
77.5°	1409.1	2152.5	1604.4	1849.6	1962.3
80°	968.6	1524.3	1309.0	1554.3	1631.9
82.5°	608.2	1006.2	1048.7	1251.5	1331.5
85°	332.9	638.2	818.4	988.6	1036.2
87.5°	137.7	385.4	625.7	763.4	803.4
90°	2.5	212.7	423.0	530.6	555.6
92.5°	2.5	162.7	345.4	428.0	445.5
95°	2.5	132.7	290.3	352.9	362.9
97.5°	5.0	105.1	242.8	292.8	302.9
100°	7.5	87.6	202.7	245.3	252.8
102.5°	10.0	70.1	170.2	205.2	212.7
105°	10.0	57.6	142.7	172.7	180.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.5	35.0	85.1	107.6	112.6
115°	20.0	30.0	72.6	92.6	97.6
117.5°	20.0	25.0	62.6	77.6	82.6
120°	20.0	22.5	55.1	67.6	70.1
122.5°	20.0	20.0	47.6	60.1	62.6
125°	17.5	20.0	45.1	52.6	55.1
127.5°	20.0	20.0	40.0	47.6	50.1
130°	20.0	22.5	35.0	45.1	45.1
132.5°	22.5	25.0	32.5	42.5	42.5
135°	22.5	25.0	27.5	40.0	42.5
137.5°	25.0	25.0	25.0	37.5	40.0
140°	25.0	25.0	22.5	32.5	35.0
142.5°	22.5	25.0	22.5	30.0	32.5
145°	22.5	25.0	25.0	27.5	30.0
147.5°	25.0	25.0	25.0	25.0	27.5
150°	25.0	25.0	25.0	25.0	25.0
152.5°	25.0	25.0	25.0	25.0	25.0
155°	25.0	27.5	27.5	27.5	25.0
157.5°	25.0	27.5	27.5	27.5	27.5
160°	25.0	27.5	27.5	27.5	27.5
162.5°	27.5	27.5	27.5	27.5	27.5
165°	27.5	27.5	27.5	27.5	27.5
167.5°	27.5	30.0	27.5	27.5	27.5
170°	27.5	27.5	27.5	25.0	25.0
172.5°	27.5	27.5	27.5	25.0	25.0
175°	27.5	27.5	25.0	22.5	22.5
177.5°	30.0	27.5	25.0	22.5	20.0
180°	25.0	25.0	25.0	25.0	25.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.5	47.6	122.6	147.7	152.7
110°	15.0	40.0	102.6	125.1	130.2



(END OF REPORT)