

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: P830510

Luminaire Tested: **OHBL-48HE-NL-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

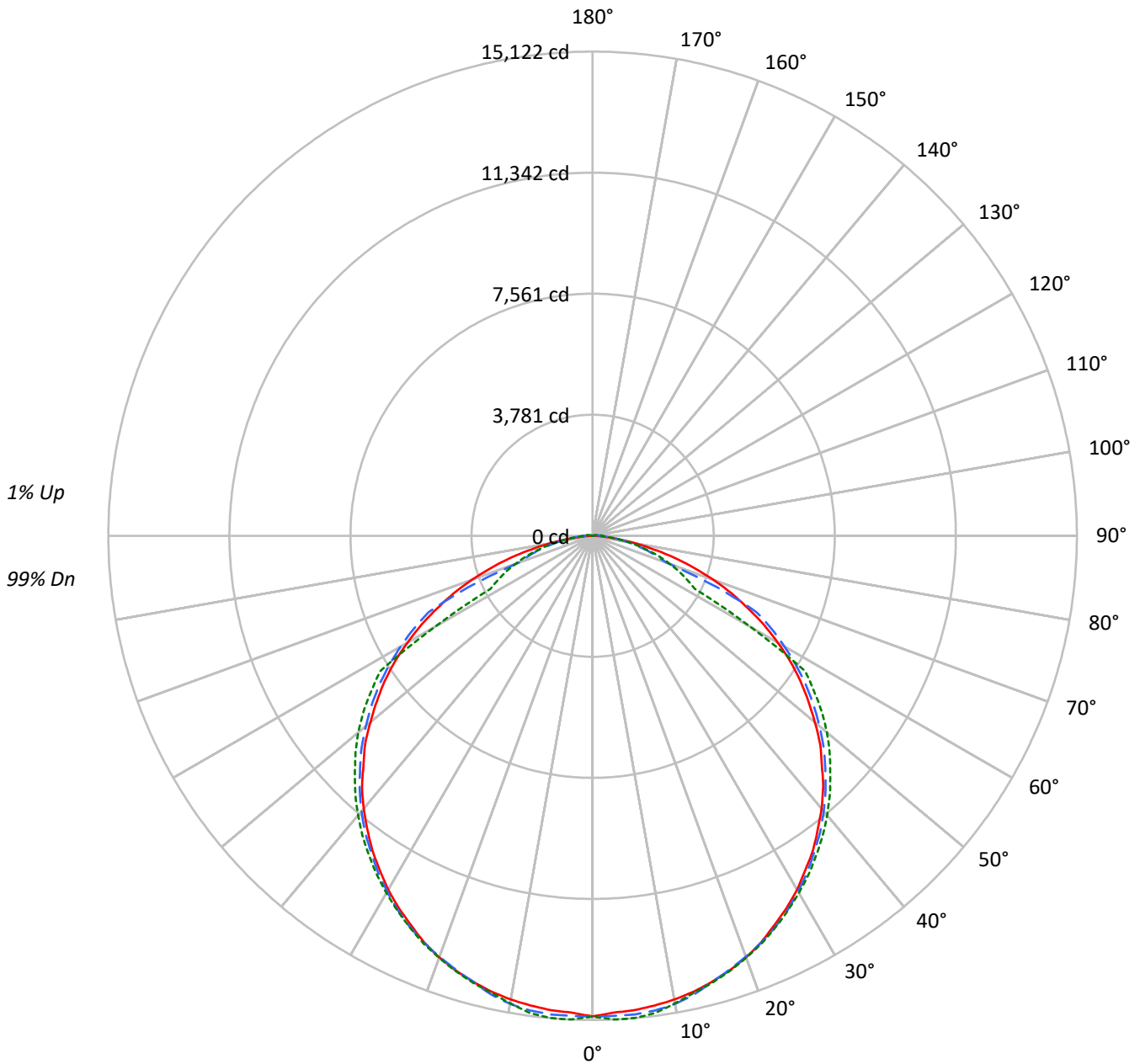
Test Method: LM-79-08  
Report Number: P830510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-NL-UNV-L950-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42147.0 lumens  
Efficiency: N/A  
Efficacy: 158.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	23741	23741	23741
5°	23610	23823	24003
10°	23616	23840	23811
15°	23612	23608	23659
20°	23580	23544	23602
25°	23419	23538	23556
30°	23310	23430	23522
35°	23159	23286	23505
40°	22959	23177	23519
45°	22628	22970	23471
50°	22287	22741	23493
55°	21861	22427	23234
60°	21128	21878	18088
65°	19990	21153	12173
70°	18489	11229	11815
75°	16127	10671	11282
80°	12402	9789	10340
85°	6260	9893	10131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1426.2	3.4
10°-20°	4083.5	9.7
20°-30°	6213.4	14.7
30°-40°	7554.6	17.9
40°-50°	7943.3	18.8
50°-60°	7253.2	17.2
60°-70°	4649.7	11.0
70°-80°	2196.4	5.2
80°-90°	609.0	1.4
90°-100°	161.3	0.4
100°-110°	44.2	0.1
110°-120°	12.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11723.0	27.8
0°-40°	19277.7	45.7
0°-60°	34474.2	81.8
0°-90°	41929.3	99.5
90°-120°	217.7	0.5
90°-150°	217.7	0.5
90°-180°	218.0	0.5
0°-180°	42147.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15012	15012	15012	15012	15012	
5°	14872	14930	15006	15088	15120	###
15°	14422	14530	14419	14440	14451	4071
25°	13421	13442	13489	13510	13500	6193
35°	11996	11924	12061	12209	12175	7497
45°	10117	10099	10270	10513	10494	7820
55°	7928	7868	8134	8405	8427	7071
65°	5342	5342	5653	3242	3253	5296
75°	2639	2690	1746	1839	1846	2782
85°	345	437	545	590	558	510
90°	0	148	242	287	282	15
95°	8	76	174	234	234	4
105°	13	29	42	42	40	13
115°	13	18	26	18	2	9
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830510

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15011.7	15011.7	15011.7	15011.7	15011.7
2.5°	14906.3	14956.5	15011.7	15082.8	15122.1
5°	14872.0	14930.0	15006.4	15088.1	15119.6
7.5°	14798.3	14879.8	14953.7	15011.7	15030.1
10°	14706.0	14803.6	14845.7	14840.4	14827.3
12.5°	14582.2	14685.1	14672.0	14611.2	14621.8
15°	14421.6	14529.5	14419.1	14440.0	14450.6
17.5°	14231.9	14337.4	14208.2	14250.3	14253.1
20°	14010.8	14089.7	13989.6	14023.9	14023.9
22.5°	13744.7	13800.0	13757.8	13781.5	13786.8
25°	13420.7	13441.6	13489.0	13510.2	13499.6
27.5°	13110.0	13083.5	13175.8	13225.7	13199.3
30°	12764.8	12722.7	12830.6	12912.3	12880.8
32.5°	12369.6	12343.4	12467.2	12564.5	12546.1
35°	11995.6	11924.5	12061.4	12209.0	12174.7
37.5°	11553.0	11510.9	11666.3	11821.9	11803.5
40°	11121.1	11049.9	11226.5	11410.8	11392.4
42.5°	10657.6	10573.1	10765.5	10986.9	10965.7
45°	10117.4	10099.0	10270.2	10512.6	10494.1
47.5°	9638.3	9546.0	9785.5	10020.1	10041.2
50°	9058.5	9024.5	9243.1	9527.6	9548.5
52.5°	8492.4	8468.7	8697.6	8984.9	9021.7
55°	7928.5	7868.0	8134.0	8405.4	8426.6
57.5°	7325.5	7262.2	7533.6	7828.6	7873.3
60°	6679.9	6619.4	6917.0	7191.1	5718.7
62.5°	6034.6	5992.5	6303.5	4464.8	3598.4
65°	5341.9	5341.9	5652.6	3242.5	3253.1
67.5°	4694.1	4651.9	4214.7	2913.2	2913.2
70°	3998.5	4014.4	2428.5	2552.6	2555.1
72.5°	3300.5	3358.5	2096.9	2196.7	2202.0
75°	2639.3	2689.5	1746.3	1838.6	1846.4
77.5°	1938.8	1490.9	1403.9	1475.3	1477.8
80°	1361.8	940.4	1074.8	1143.1	1135.3
82.5°	795.4	658.4	787.5	837.7	835.0
85°	345.0	437.3	545.2	590.1	558.3
87.5°	110.4	271.3	339.7	366.2	363.4
90°	0.0	147.5	242.3	287.0	281.9
92.5°	0.0	115.7	210.8	263.5	266.0
95°	7.8	76.4	174.0	234.5	234.5
97.5°	5.3	55.2	123.8	184.3	189.6
100°	5.3	44.6	81.7	131.6	134.4
102.5°	13.1	36.8	49.9	84.2	87.0
105°	13.1	29.0	42.1	42.1	39.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.9	21.2	29.0	21.2	2.5
115°	13.1	18.4	26.2	18.4	2.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	13.1	26.2	36.8	23.7	7.8
110°	15.9	23.7	31.5	21.2	2.5



(END OF REPORT)