

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: P830508

Luminaire Tested: **OHBL-48HE-NL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

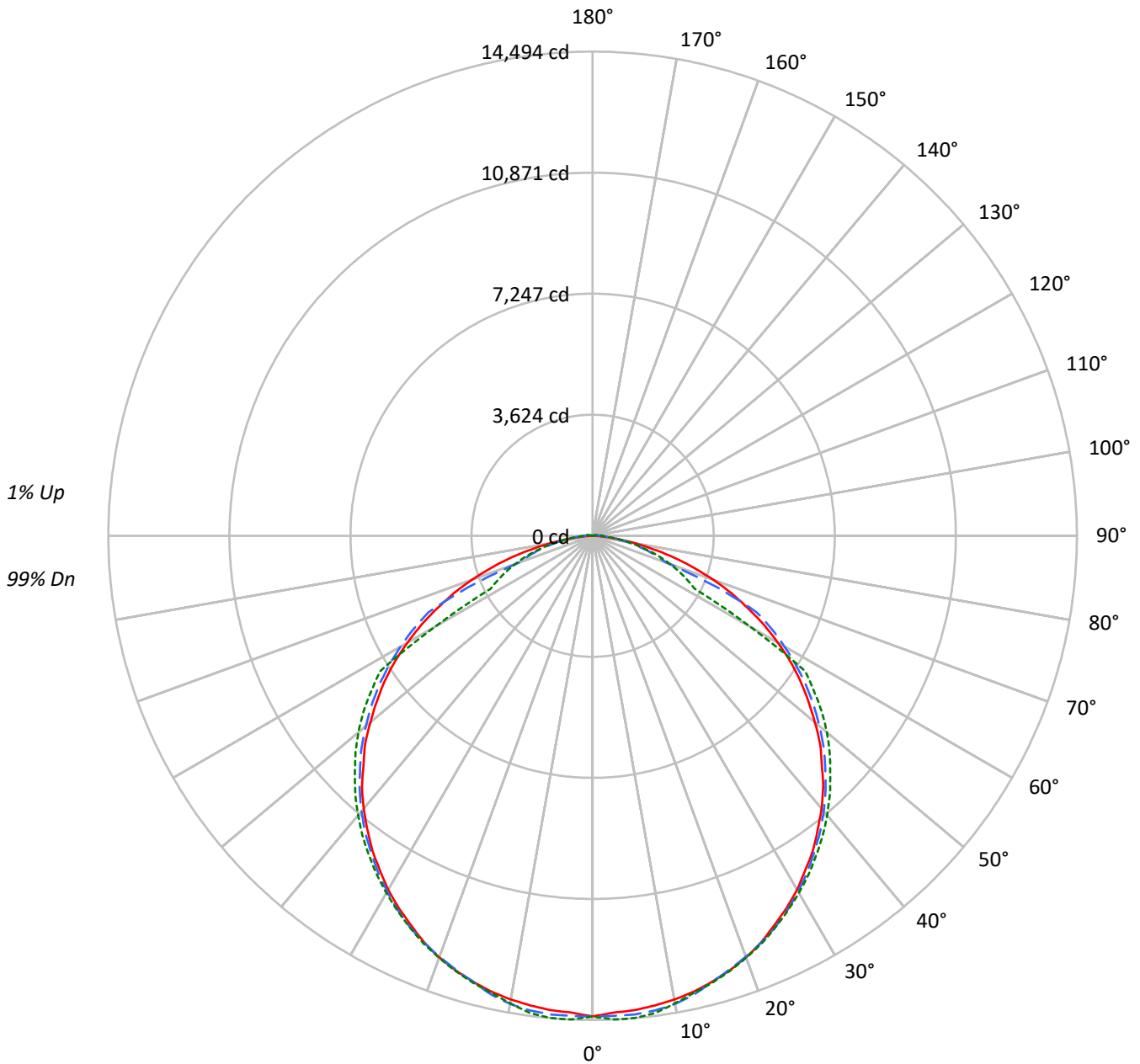
Test Method: LM-79-08  
Report Number: P830508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-NL-UNV-L935-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40396.0 lumens  
Efficiency: N/A  
Efficacy: 151.9 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 (Ain): 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°	22754	22754	22754
5°	22629	22833	23005
10°	22635	22850	22822
15°	22631	22627	22676
20°	22600	22566	22621
25°	22446	22560	22578
30°	22342	22457	22545
35°	22197	22319	22528
40°	22005	22214	22542
45°	21688	22015	22496
50°	21361	21796	22517
55°	20952	21496	22269
60°	20250	20969	17336
65°	19159	20274	11668
70°	17721	10763	11324
75°	15457	10228	10813
80°	11887	9381	9910
85°	5999	9483	9710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1366.9	3.4
10°-20°	3913.9	9.7
20°-30°	5955.3	14.7
30°-40°	7240.8	17.9
40°-50°	7613.3	18.8
50°-60°	6951.9	17.2
60°-70°	4456.5	11.0
70°-80°	2105.2	5.2
80°-90°	583.7	1.4
90°-100°	154.6	0.4
100°-110°	42.3	0.1
110°-120°	11.7	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°	11236.0	27.8
0°-40°	18476.8	45.7
0°-60°	33041.9	81.8
0°-90°	40187.4	99.5
90°-120°	208.7	0.5
90°-150°	208.7	0.5
90°-180°	209.0	0.5
0°-180°	40396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14388	14388	14388	14388	14388	
5°	14254	14310	14383	14461	14492	###
15°	13822	13926	13820	13840	13850	3902
25°	12863	12883	12929	12949	12939	5935
35°	11497	11429	11560	11702	11669	7185
45°	9697	9679	9844	10076	10058	7495
55°	7599	7541	7796	8056	8076	6777
65°	5120	5120	5418	3108	3118	5076
75°	2530	2578	1674	1762	1770	2667
85°	331	419	523	566	535	489
90°	0	141	232	275	270	14
95°	8	73	167	225	225	4
105°	13	28	40	40	38	13
115°	13	18	25	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14388.0	14388.0	14388.0	14388.0	14388.0
2.5°	14287.0	14335.1	14388.0	14456.2	14493.9
5°	14254.1	14309.7	14382.9	14461.3	14491.5
7.5°	14183.5	14261.6	14332.4	14388.0	14405.7
10°	14095.1	14188.6	14229.0	14223.9	14211.3
12.5°	13976.4	14075.0	14062.5	14004.2	14014.3
15°	13822.4	13925.9	13820.0	13840.1	13850.2
17.5°	13640.7	13741.7	13617.9	13658.3	13661.0
20°	13428.7	13504.4	13408.4	13441.3	13441.3
22.5°	13173.7	13226.6	13186.3	13209.0	13214.1
25°	12863.1	12883.2	12928.6	12948.9	12938.8
27.5°	12565.4	12540.0	12628.4	12676.3	12650.9
30°	12234.5	12194.1	12297.5	12375.8	12345.6
32.5°	11855.7	11830.6	11949.3	12042.5	12024.9
35°	11497.3	11429.1	11560.3	11701.7	11668.9
37.5°	11073.1	11032.7	11181.6	11330.7	11313.1
40°	10659.0	10590.9	10760.1	10936.8	10919.1
42.5°	10214.8	10133.8	10318.2	10530.5	10510.2
45°	9697.1	9679.4	9843.5	10075.8	10058.2
47.5°	9237.8	9149.4	9379.0	9603.8	9624.1
50°	8682.2	8649.5	8859.1	9131.7	9151.8
52.5°	8139.6	8116.8	8336.3	8611.6	8646.9
55°	7599.1	7541.1	7796.1	8056.2	8076.5
57.5°	7021.2	6960.5	7220.6	7503.4	7546.2
60°	6402.4	6344.4	6629.6	6892.4	5481.1
62.5°	5783.9	5743.6	6041.6	4279.3	3448.9
65°	5120.0	5120.0	5417.7	3107.8	3118.0
67.5°	4499.0	4458.7	4039.6	2792.1	2792.1
70°	3832.4	3847.7	2327.6	2446.5	2448.9
72.5°	3163.4	3219.0	2009.8	2105.5	2110.5
75°	2529.6	2577.8	1673.8	1762.3	1769.7
77.5°	1858.2	1428.9	1345.5	1414.0	1416.4
80°	1305.2	901.3	1030.1	1095.6	1088.1
82.5°	762.3	631.1	754.8	802.9	800.3
85°	330.6	419.1	522.6	565.6	535.1
87.5°	105.8	260.1	325.6	351.0	348.3
90°	0.0	141.4	232.3	275.0	270.2
92.5°	0.0	110.9	202.1	252.6	255.0
95°	7.5	73.2	166.8	224.8	224.8
97.5°	5.1	52.9	118.7	176.7	181.8
100°	5.1	42.8	78.3	126.2	128.8
102.5°	12.6	35.3	47.8	80.7	83.4
105°	12.6	27.8	40.4	40.4	38.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	20.3	27.8	20.3	2.4
115°	12.6	17.6	25.1	17.6	2.4
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°	12.6	25.1	35.3	22.7	7.5
110°	15.2	22.7	30.2	20.3	2.4



(END OF REPORT)