

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: P830454

Luminaire Tested: **OHBL-48HE-A-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

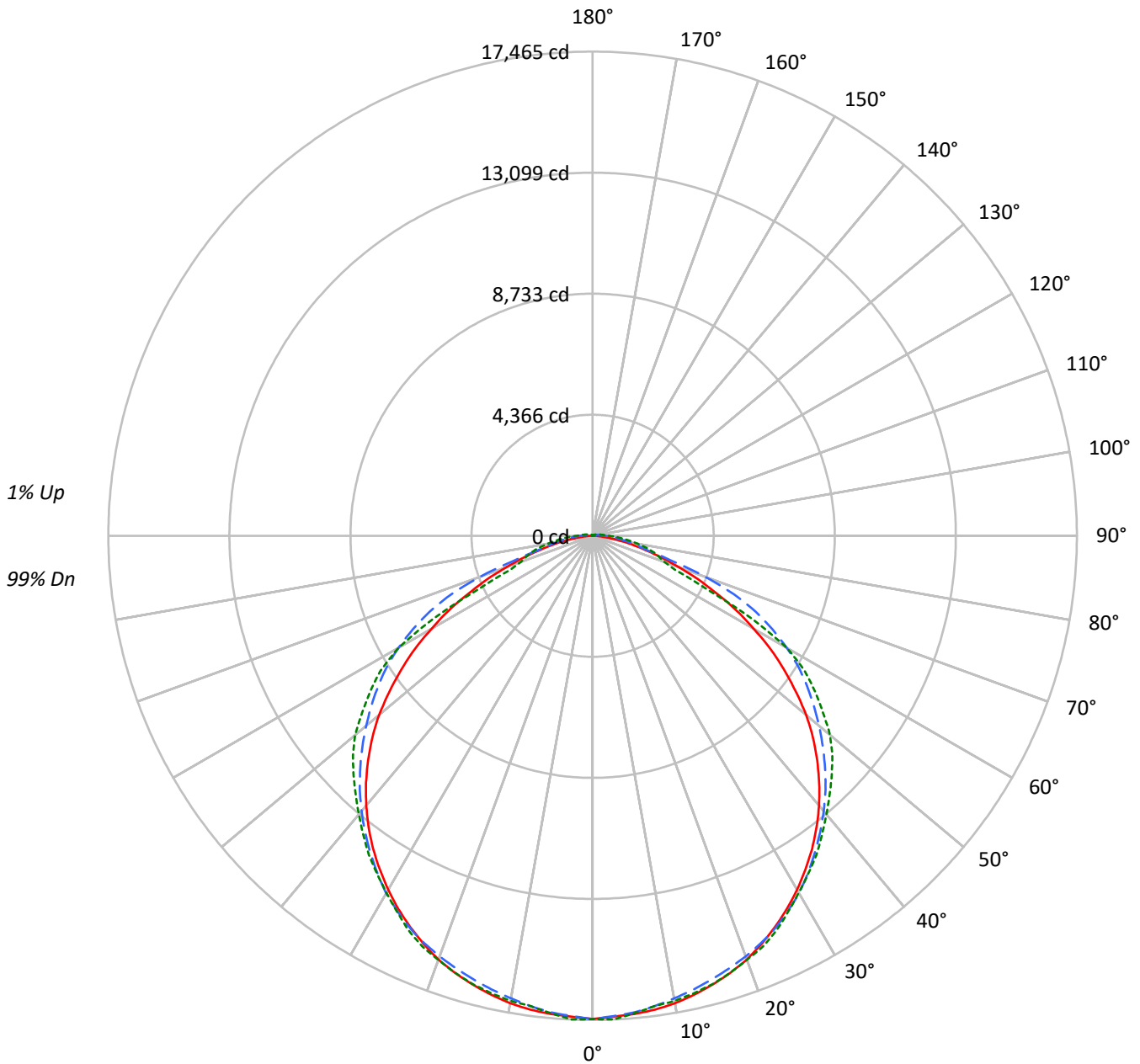
Test Method: LM-79-08  
Report Number: P830454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-A-UNV-L750-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49265.0 lumens  
Efficiency: N/A  
Efficacy: 185.2 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

TEST NUMBER: P830454  
CATALOG NUMBER: OHBL-48HE-A-UNV-L750-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830454

CATALOG NUMBER: OHBL-48HE-A-UNV-L750-CD

**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°	27565	27565	27565
5°	27385	27165	27222
10°	27284	26753	26919
15°	27111	26446	26739
20°	26938	26252	26502
25°	26613	26056	26268
30°	26260	25749	25771
35°	25837	25261	25497
40°	25287	24756	25124
45°	24526	24173	24959
50°	23494	23508	24761
55°	21854	22855	23837
60°	19707	21898	22037
65°	16905	20123	13966
70°	13617	15709	10126
75°	10209	9325	10277
80°	7106	7754	9812
85°	4044	7104	9197



TEST NUMBER: P830454

CATALOG NUMBER: OHBL-48HE-A-UNV-L750-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1643.5	3.3
10°-20°	4712.7	9.6
20°-30°	7197.8	14.6
30°-40°	8733.5	17.7
40°-50°	9153.5	18.6
50°-60°	8294.4	16.8
60°-70°	5561.1	11.3
70°-80°	2497.2	5.1
80°-90°	906.2	1.8
90°-100°	272.8	0.6
100°-110°	128.7	0.3
110°-120°	64.5	0.1
120°-130°	35.6	0.1
130°-140°	24.5	0.0
140°-150°	16.5	0.0
150°-160°	12.2	0.0
160°-170°	7.9	0.0
170°-180°	2.5	0.0
0°-30°	13554.1	27.5
0°-40°	22287.5	45.2
0°-60°	39735.5	80.7
0°-90°	48700.0	98.9
90°-120°	466.0	0.9
90°-150°	542.5	1.1
90°-180°	565.0	1.1
0°-180°	49265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17430	17430	17430	17430	17430	
5°	17317	17377	17256	17309	17286	###
15°	16755	16689	16571	16717	16737	4731
25°	15565	15497	15605	15749	15704	7175
35°	13796	13829	13970	14118	14063	8623
45°	11450	11636	11853	12155	12193	8820
55°	8425	8831	9433	9811	9789	7521
65°	4945	5718	6492	5479	4473	4927
75°	1946	2823	2077	2125	2263	2126
85°	335	643	824	996	1043	409
90°	2	214	426	534	560	20
95°	2	134	292	355	365	3
105°	10	58	144	174	182	12
115°	20	30	73	93	98	19
125°	18	20	45	53	55	18
135°	23	25	28	40	43	18
145°	23	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	23	23	3
180°	25	25	25	25	25	



TEST NUMBER: P830454

CATALOG NUMBER: OHBL-48HE-A-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17430.0	17430.0	17430.0	17430.0	17430.0
2.5°	17359.4	17432.5	17341.8	17440.1	17465.3
5°	17316.6	17377.1	17256.1	17309.0	17286.3
7.5°	17238.5	17258.6	17115.0	17157.8	17112.4
10°	17122.5	17112.4	16943.6	17026.8	17036.8
12.5°	16951.2	16920.9	16769.7	16895.7	16898.2
15°	16754.6	16689.0	16570.6	16716.8	16736.9
17.5°	16527.8	16442.1	16363.9	16553.0	16522.7
20°	16263.1	16162.3	16147.2	16353.9	16278.2
22.5°	15935.5	15857.4	15892.7	16089.2	16041.3
25°	15565.0	15497.0	15605.3	15749.0	15703.6
27.5°	15174.4	15134.1	15257.5	15368.4	15280.2
30°	14745.9	14723.3	14887.1	14977.8	14866.9
32.5°	14279.7	14287.3	14443.5	14567.0	14463.7
35°	13795.8	13828.6	13969.7	14118.4	14063.0
37.5°	13264.0	13337.1	13478.3	13647.1	13589.1
40°	12702.0	12807.9	12964.1	13168.3	13115.3
42.5°	12094.6	12228.2	12429.8	12656.7	12651.6
45°	11449.5	11636.0	11852.7	12155.1	12192.9
47.5°	10779.1	10988.3	11263.0	11666.2	11724.2
50°	10050.7	10312.8	10655.6	11139.5	11174.8
52.5°	9239.2	9597.1	10050.7	10514.5	10471.6
55°	8425.2	8830.9	9433.3	9811.3	9788.6
57.5°	7613.7	8069.8	8800.7	9070.4	9067.8
60°	6706.4	7283.5	8082.4	8286.6	8084.9
62.5°	5867.1	6487.1	7316.3	7167.6	6477.0
65°	4944.7	5718.4	6492.1	5479.0	4473.4
67.5°	4125.6	4932.1	5514.3	3752.6	3213.3
70°	3301.5	4191.2	4299.5	2784.9	2747.1
72.5°	2570.6	3518.3	2966.3	2384.1	2505.1
75°	1945.6	2822.7	2076.7	2124.6	2263.2
77.5°	1418.9	2167.4	1615.5	1862.5	1975.9
80°	975.3	1534.8	1318.1	1565.1	1643.2
82.5°	612.4	1013.1	1056.0	1260.1	1340.8
85°	335.2	642.7	824.1	995.5	1043.4
87.5°	138.6	388.1	630.1	768.7	809.0
90°	2.5	214.2	425.9	534.3	559.5
92.5°	2.5	163.8	347.8	431.0	448.6
95°	2.5	133.6	292.3	355.4	365.4
97.5°	5.0	105.9	244.5	294.9	304.9
100°	7.6	88.2	204.1	247.0	254.5
102.5°	10.1	70.6	171.4	206.7	214.2
105°	10.1	58.0	143.7	173.9	181.5



TEST NUMBER: P830454

CATALOG NUMBER: OHBL-48HE-A-UNV-L750-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	35.3	85.7	108.4	113.4
115°	20.2	30.2	73.1	93.2	98.3
117.5°	20.2	25.2	63.0	78.1	83.2
120°	20.2	22.7	55.4	68.0	70.6
122.5°	20.2	20.2	47.9	60.5	63.0
125°	17.6	20.2	45.4	52.9	55.4
127.5°	20.2	20.2	40.3	47.9	50.4
130°	20.2	22.7	35.3	45.4	45.4
132.5°	22.7	25.2	32.8	42.8	42.8
135°	22.7	25.2	27.7	40.3	42.8
137.5°	25.2	25.2	25.2	37.8	40.3
140°	25.2	25.2	22.7	32.8	35.3
142.5°	22.7	25.2	22.7	30.2	32.8
145°	22.7	25.2	25.2	27.7	30.2
147.5°	25.2	25.2	25.2	25.2	27.7
150°	25.2	25.2	25.2	25.2	25.2
152.5°	25.2	25.2	25.2	25.2	25.2
155°	25.2	27.7	27.7	27.7	25.2
157.5°	25.2	27.7	27.7	27.7	27.7
160°	25.2	27.7	27.7	27.7	27.7
162.5°	27.7	27.7	27.7	27.7	27.7
165°	27.7	27.7	27.7	27.7	27.7
167.5°	27.7	30.2	27.7	27.7	27.7
170°	27.7	27.7	27.7	25.2	25.2
172.5°	27.7	27.7	27.7	25.2	25.2
175°	27.7	27.7	25.2	22.7	22.7
177.5°	30.2	27.7	25.2	22.7	20.2
180°	25.2	25.2	25.2	25.2	25.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.6	47.9	123.5	148.7	153.7
110°	15.1	40.3	103.3	126.0	131.1



(END OF REPORT)