

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: P830452

Luminaire Tested: **OHBL-48HE-A-UNV-L735-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830452  
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-L735-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

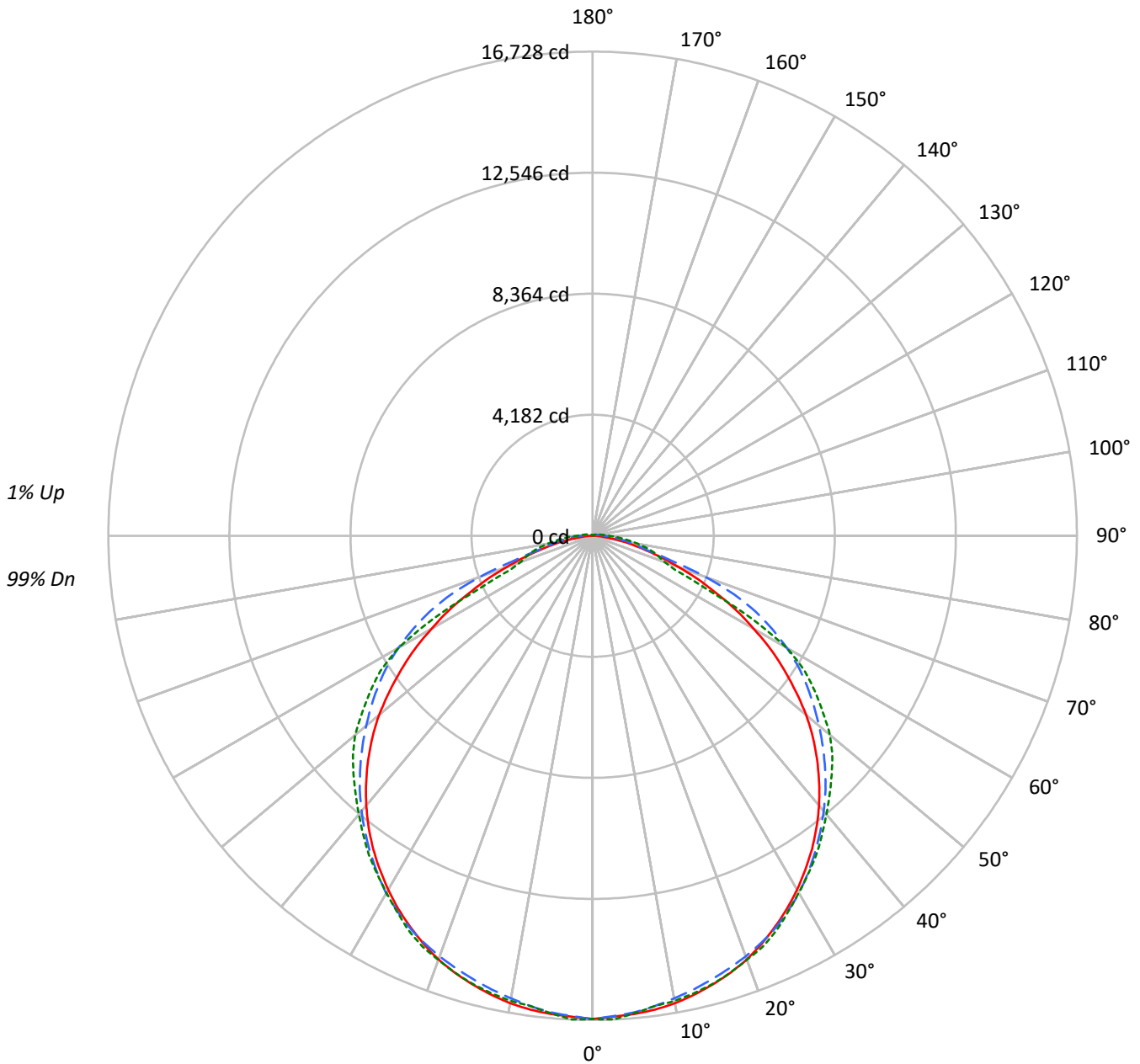
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47185.0 lumens  
Efficiency: N/A  
Efficacy: 177.4 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°	26401	26401	26401
5°	26229	26018	26072
10°	26133	25624	25783
15°	25967	25329	25610
20°	25801	25143	25384
25°	25490	24956	25159
30°	25151	24662	24683
35°	24746	24194	24420
40°	24220	23711	24063
45°	23491	23152	23905
50°	22502	22516	23716
55°	20931	21890	22830
60°	18875	20974	21107
65°	16191	19273	13377
70°	13042	15046	9698
75°	9778	8932	9843
80°	6806	7426	9397
85°	3873	6804	8808



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1574.1	3.3
10°-20°	4513.8	9.6
20°-30°	6894.0	14.6
30°-40°	8364.7	17.7
40°-50°	8767.0	18.6
50°-60°	7944.3	16.8
60°-70°	5326.3	11.3
70°-80°	2391.7	5.1
80°-90°	867.9	1.8
90°-100°	261.3	0.6
100°-110°	123.3	0.3
110°-120°	61.8	0.1
120°-130°	34.1	0.1
130°-140°	23.4	0.0
140°-150°	15.7	0.0
150°-160°	11.7	0.0
160°-170°	7.5	0.0
170°-180°	2.4	0.0
0°-30°	12981.8	27.5
0°-40°	21346.5	45.2
0°-60°	38057.8	80.7
0°-90°	46643.8	98.9
90°-120°	446.3	0.9
90°-150°	519.5	1.1
90°-180°	541.0	1.1
0°-180°	47185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16694	16694	16694	16694	16694	
5°	16586	16643	16528	16578	16556	###
15°	16047	15984	15871	16011	16030	4531
25°	14908	14843	14946	15084	15041	6872
35°	13213	13245	13380	13522	13469	8259
45°	10966	11145	11352	11642	11678	8448
55°	8070	8458	9035	9397	9375	7203
65°	4736	5477	6218	5248	4285	4719
75°	1864	2704	1989	2035	2168	2037
85°	321	616	789	954	999	392
90°	2	205	408	512	536	19
95°	2	128	280	340	350	3
105°	10	56	138	167	174	11
115°	19	29	70	89	94	18
125°	17	19	43	51	53	17
135°	22	24	27	39	41	17
145°	22	24	24	27	29	14
155°	24	27	27	27	24	11
165°	27	27	27	27	27	7
175°	27	27	24	22	22	3
180°	24	24	24	24	24	



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CATALOG NUMBER: OHBL-48HE-A-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16694.1	16694.1	16694.1	16694.1	16694.1
2.5°	16626.5	16696.5	16609.6	16703.7	16727.9
5°	16585.5	16643.4	16527.5	16578.2	16556.5
7.5°	16510.6	16530.0	16392.4	16433.4	16389.9
10°	16399.6	16389.9	16228.2	16307.9	16317.5
12.5°	16235.5	16206.5	16061.7	16182.4	16184.8
15°	16047.2	15984.4	15871.0	16011.0	16030.3
17.5°	15829.9	15747.9	15673.0	15854.1	15825.1
20°	15576.5	15479.9	15465.5	15663.4	15591.0
22.5°	15262.7	15187.9	15221.7	15409.9	15364.1
25°	14907.9	14842.7	14946.5	15084.1	15040.6
27.5°	14533.7	14495.1	14613.4	14719.6	14635.1
30°	14123.4	14101.6	14258.5	14345.4	14239.2
32.5°	13676.8	13684.0	13833.7	13952.0	13853.0
35°	13213.3	13244.7	13379.9	13522.3	13469.2
37.5°	12704.0	12774.0	12909.2	13070.9	13015.4
40°	12165.7	12267.1	12416.8	12612.3	12561.6
42.5°	11584.0	11711.9	11905.0	12122.3	12117.5
45°	10966.1	11144.7	11352.3	11641.9	11678.1
47.5°	10324.0	10524.3	10787.4	11173.6	11229.2
50°	9626.4	9877.4	10205.7	10669.2	10703.0
52.5°	8849.1	9191.9	9626.4	10070.5	10029.5
55°	8069.5	8458.1	9035.0	9397.1	9375.3
57.5°	7292.2	7729.1	8429.1	8687.4	8685.0
60°	6423.2	6976.0	7741.2	7936.7	7743.6
62.5°	5619.4	6213.2	7007.4	6865.0	6203.6
65°	4735.9	5477.0	6218.0	5247.7	4284.6
67.5°	3951.5	4723.9	5281.5	3594.2	3077.6
70°	3162.1	4014.2	4118.0	2667.3	2631.1
72.5°	2462.1	3369.7	2841.1	2283.5	2399.4
75°	1863.5	2703.5	1989.0	2034.9	2167.6
77.5°	1359.0	2075.9	1547.3	1783.8	1892.4
80°	934.2	1470.0	1262.4	1499.0	1573.8
82.5°	586.6	970.4	1011.4	1206.9	1284.2
85°	321.0	615.5	789.3	953.5	999.3
87.5°	132.8	371.7	603.5	736.2	774.8
90°	2.4	205.2	407.9	511.7	535.9
92.5°	2.4	156.9	333.1	412.8	429.7
95°	2.4	127.9	280.0	340.4	350.0
97.5°	4.8	101.4	234.1	282.4	292.1
100°	7.2	84.5	195.5	236.6	243.8
102.5°	9.7	67.6	164.1	197.9	205.2
105°	9.7	55.5	137.6	166.6	173.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.9	33.8	82.1	103.8	108.6
115°	19.3	29.0	70.0	89.3	94.1
117.5°	19.3	24.1	60.3	74.8	79.7
120°	19.3	21.7	53.1	65.2	67.6
122.5°	19.3	19.3	45.9	57.9	60.3
125°	16.9	19.3	43.4	50.7	53.1
127.5°	19.3	19.3	38.6	45.9	48.3
130°	19.3	21.7	33.8	43.4	43.4
132.5°	21.7	24.1	31.4	41.0	41.0
135°	21.7	24.1	26.6	38.6	41.0
137.5°	24.1	24.1	24.1	36.2	38.6
140°	24.1	24.1	21.7	31.4	33.8
142.5°	21.7	24.1	21.7	29.0	31.4
145°	21.7	24.1	24.1	26.6	29.0
147.5°	24.1	24.1	24.1	24.1	26.6
150°	24.1	24.1	24.1	24.1	24.1
152.5°	24.1	24.1	24.1	24.1	24.1
155°	24.1	26.6	26.6	26.6	24.1
157.5°	24.1	26.6	26.6	26.6	26.6
160°	24.1	26.6	26.6	26.6	26.6
162.5°	26.6	26.6	26.6	26.6	26.6
165°	26.6	26.6	26.6	26.6	26.6
167.5°	26.6	29.0	26.6	26.6	26.6
170°	26.6	26.6	26.6	24.1	24.1
172.5°	26.6	26.6	26.6	24.1	24.1
175°	26.6	26.6	24.1	21.7	21.7
177.5°	29.0	26.6	24.1	21.7	19.3
180°	24.1	24.1	24.1	24.1	24.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.1	45.9	118.3	142.4	147.2
110°	14.5	38.6	99.0	120.7	125.5



(END OF REPORT)