

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: P830499

Luminaire Tested: **OHBL-48HE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830499  
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-L730-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

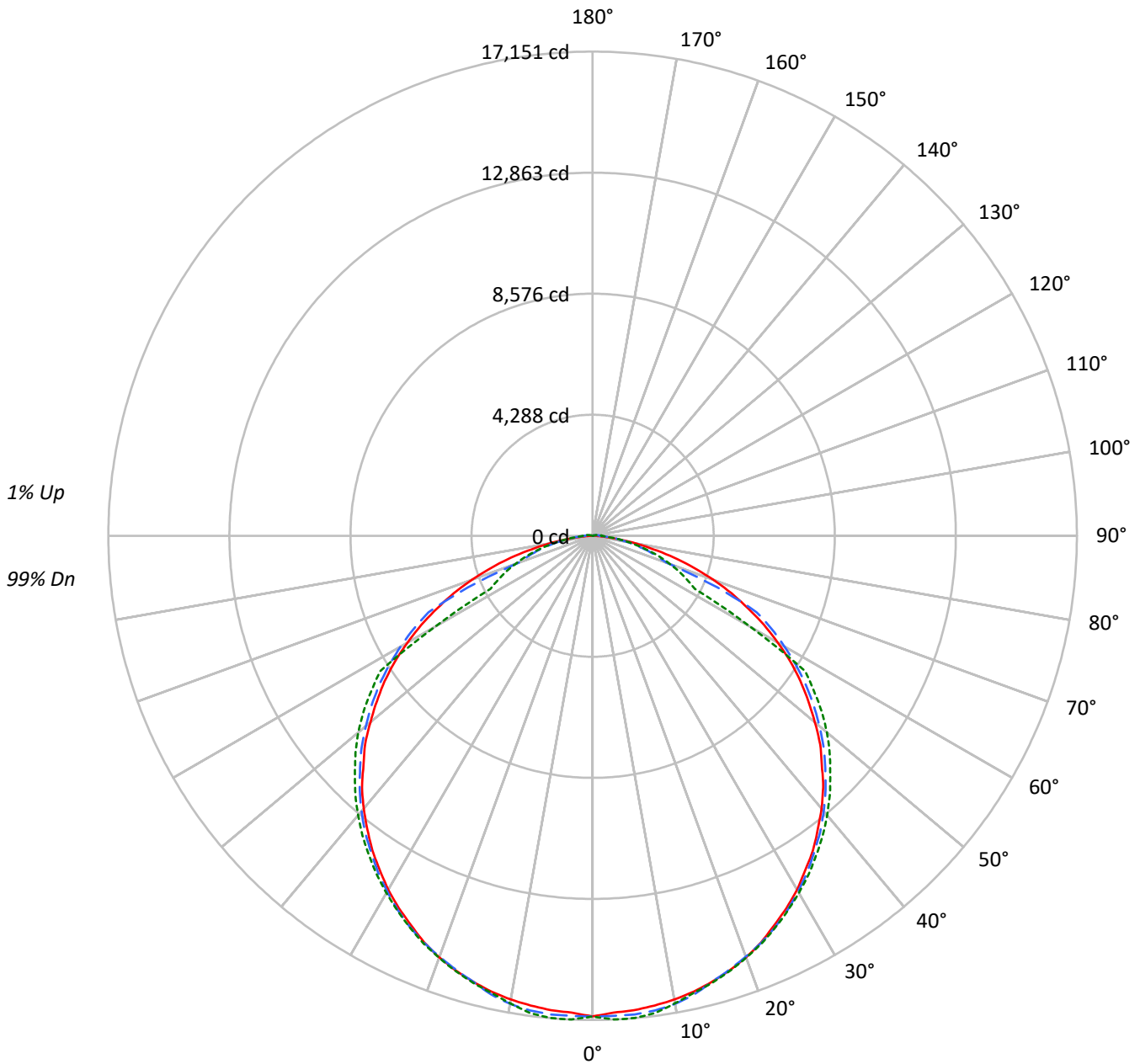
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47802.0 lumens  
Efficiency: N/A  
Efficacy: 179.7 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

TEST NUMBER: P830499

CATALOG NUMBER: OHBL-48HE-NL-UNV-L730-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830499

CATALOG NUMBER: OHBL-48HE-NL-UNV-L730-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	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°	26926	26926	26926
5°	26777	27019	27223
10°	26785	27039	27006
15°	26780	26775	26834
20°	26744	26703	26768
25°	26561	26696	26717
30°	26438	26574	26678
35°	26266	26411	26658
40°	26040	26286	26675
45°	25664	26052	26620
50°	25277	25792	26644
55°	24794	25436	26351
60°	23963	24814	20515
65°	22672	23991	13807
70°	20969	12736	13400
75°	18291	12102	12796
80°	14066	11102	11727
85°	7100	11221	11490



TEST NUMBER: P830499

CATALOG NUMBER: OHBL-48HE-NL-UNV-L730-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1617.5	3.4
10°-20°	4631.4	9.7
20°-30°	7047.1	14.7
30°-40°	8568.3	17.9
40°-50°	9009.1	18.8
50°-60°	8226.4	17.2
60°-70°	5273.5	11.0
70°-80°	2491.1	5.2
80°-90°	690.8	1.4
90°-100°	182.9	0.4
100°-110°	50.1	0.1
110°-120°	13.9	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°	13296.0	27.8
0°-40°	21864.2	45.7
0°-60°	39099.7	81.8
0°-90°	47555.1	99.5
90°-120°	246.9	0.5
90°-150°	246.9	0.5
90°-180°	247.0	0.5
0°-180°	47802.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17026	17026	17026	17026	17026	
5°	16867	16933	17020	17112	17148	###
15°	16357	16479	16354	16377	16390	4618
25°	15221	15245	15299	15323	15311	7024
35°	13605	13524	13680	13847	13808	8502
45°	11475	11454	11648	11923	11902	8869
55°	8992	8924	9225	9533	9557	8020
65°	6059	6059	6411	3678	3690	6007
75°	2993	3050	1981	2085	2094	3156
85°	391	496	618	669	633	578
90°	0	167	275	326	320	17
95°	9	87	197	266	266	5
105°	15	33	48	48	45	15
115°	15	21	30	21	3	11
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	



TEST NUMBER: P830499

CATALOG NUMBER: OHBL-48HE-NL-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17025.8	17025.8	17025.8	17025.8	17025.8
2.5°	16906.3	16963.2	17025.8	17106.5	17151.1
5°	16867.4	16933.2	17019.8	17112.5	17148.2
7.5°	16783.9	16876.2	16960.1	17025.8	17046.7
10°	16679.2	16789.9	16837.6	16831.6	16816.8
12.5°	16538.7	16655.5	16640.6	16571.6	16583.7
15°	16356.6	16479.0	16353.7	16377.4	16389.5
17.5°	16141.5	16261.0	16114.6	16162.4	16165.5
20°	15890.7	15980.2	15866.6	15905.5	15905.5
22.5°	15588.9	15651.5	15603.8	15630.7	15636.7
25°	15221.4	15245.1	15298.9	15322.9	15310.9
27.5°	14869.0	14839.0	14943.7	15000.3	14970.2
30°	14477.5	14429.7	14552.1	14644.8	14609.0
32.5°	14029.3	13999.5	14140.0	14250.4	14229.5
35°	13605.1	13524.5	13679.8	13847.1	13808.2
37.5°	13103.2	13055.4	13231.6	13408.1	13387.2
40°	12613.2	12532.6	12732.8	12941.8	12921.0
42.5°	12087.5	11991.7	12209.9	12461.1	12437.0
45°	11474.9	11454.0	11648.2	11923.1	11902.2
47.5°	10931.5	10826.8	11098.5	11364.5	11388.5
50°	10273.9	10235.3	10483.3	10805.9	10829.6
52.5°	9631.8	9604.9	9864.6	10190.4	10232.1
55°	8992.3	8923.6	9225.4	9533.1	9557.2
57.5°	8308.4	8236.6	8544.4	8879.0	8929.6
60°	7576.2	7507.6	7845.1	8156.0	6485.9
62.5°	6844.3	6796.5	7149.2	5063.9	4081.2
65°	6058.6	6058.6	6411.0	3677.6	3689.6
67.5°	5323.9	5276.1	4780.2	3304.0	3304.0
70°	4535.0	4553.1	2754.3	2895.0	2897.9
72.5°	3743.4	3809.1	2378.2	2491.5	2497.5
75°	2993.4	3050.3	1980.6	2085.3	2094.2
77.5°	2198.9	1690.9	1592.2	1673.2	1676.0
80°	1544.5	1066.5	1219.0	1296.5	1287.6
82.5°	902.1	746.8	893.2	950.2	947.0
85°	391.3	496.0	618.4	669.3	633.2
87.5°	125.3	307.8	385.2	415.3	412.1
90°	0.0	167.3	274.9	325.5	319.8
92.5°	0.0	131.3	239.1	298.9	301.7
95°	8.9	86.7	197.4	266.0	266.0
97.5°	6.0	62.6	140.4	209.1	215.1
100°	6.0	50.6	92.7	149.3	152.5
102.5°	14.9	41.8	56.6	95.5	98.7
105°	14.9	32.9	47.8	47.8	44.9



TEST NUMBER: P830499

CATALOG NUMBER: OHBL-48HE-NL-UNV-L730-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.0	24.0	32.9	24.0	2.8
115°	14.9	20.9	29.7	20.9	2.8
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°	14.9	29.7	41.8	26.9	8.9
110°	18.0	26.9	35.7	24.0	2.8



(END OF REPORT)