

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: P829923

Luminaire Tested: **OHBL-18HE-NL-UNV-L730-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829923  
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-18HE-NL-UNV-L730-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

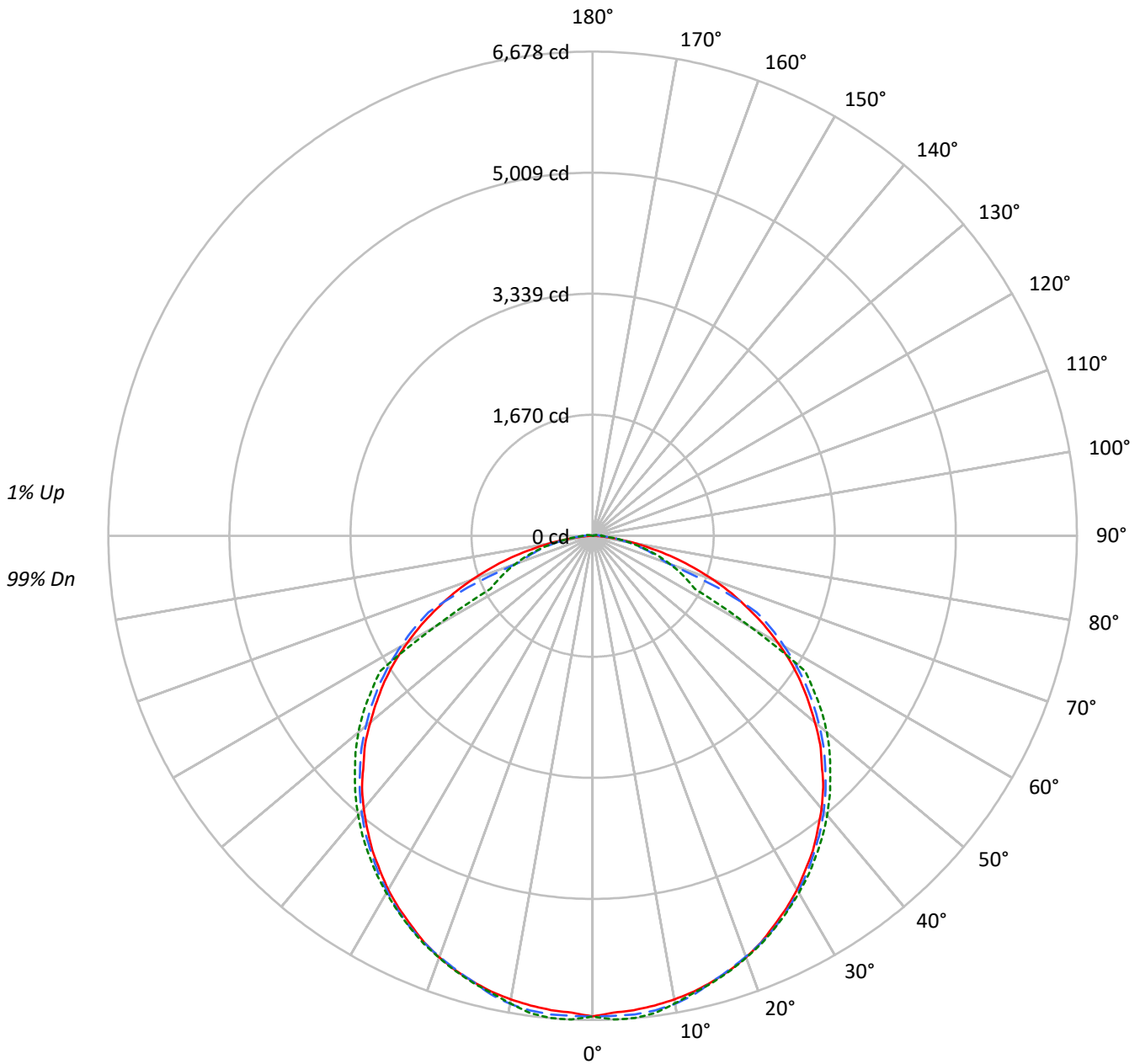
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18612.0 lumens  
Efficiency: N/A  
Efficacy: 180.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 103  
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				20				20	
RC	80				70				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				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

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

	0°	45°	90°
0°	11322	11322	11322
5°	11260	11362	11447
10°	11263	11370	11356
15°	11261	11259	11284
20°	11246	11229	11256
25°	11169	11226	11235
30°	11117	11174	11218
35°	11045	11106	11210
40°	10950	11054	11217
45°	10792	10955	11194
50°	10629	10846	11204
55°	10426	10696	11081
60°	10076	10434	8626
65°	9534	10088	5806
70°	8818	5355	5635
75°	7691	5089	5381
80°	5914	4668	4931
85°	2985	4719	4831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.8	3.4
10°-20°	1803.3	9.7
20°-30°	2743.8	14.7
30°-40°	3336.1	17.9
40°-50°	3507.7	18.8
50°-60°	3203.0	17.2
60°-70°	2053.3	11.0
70°-80°	969.9	5.2
80°-90°	269.0	1.4
90°-100°	71.2	0.4
100°-110°	19.5	0.1
110°-120°	5.4	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°	5176.9	27.8
0°-40°	8513.0	45.7
0°-60°	15223.7	81.8
0°-90°	18515.9	99.5
90°-120°	96.1	0.5
90°-150°	96.1	0.5
90°-180°	96.0	0.5
0°-180°	18612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6629	6629	6629	6629	6629	
5°	6567	6593	6627	6663	6677	625
15°	6368	6416	6367	6377	6381	1798
25°	5926	5936	5957	5966	5961	2735
35°	5297	5266	5326	5391	5376	3310
45°	4468	4460	4535	4642	4634	3453
55°	3501	3474	3592	3712	3721	3122
65°	2359	2359	2496	1432	1437	2339
75°	1166	1188	771	812	815	1229
85°	152	193	241	261	246	225
90°	0	65	107	127	124	7
95°	3	34	77	104	104	2
105°	6	13	19	19	18	6
115°	6	8	12	8	1	4
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°	6629.1	6629.1	6629.1	6629.1	6629.1
2.5°	6582.6	6604.7	6629.1	6660.5	6677.9
5°	6567.4	6593.0	6626.8	6662.9	6676.8
7.5°	6534.9	6570.9	6603.5	6629.1	6637.2
10°	6494.1	6537.2	6555.8	6553.5	6547.7
12.5°	6439.5	6484.9	6479.1	6452.3	6456.9
15°	6368.5	6416.2	6367.4	6376.7	6381.3
17.5°	6284.8	6331.3	6274.3	6292.9	6294.1
20°	6187.1	6222.0	6177.8	6192.9	6192.9
22.5°	6069.6	6094.0	6075.4	6085.9	6088.2
25°	5926.5	5935.8	5956.7	5966.1	5961.4
27.5°	5789.3	5777.6	5818.4	5840.5	5828.8
30°	5636.9	5618.3	5665.9	5702.0	5688.1
32.5°	5462.4	5450.8	5505.5	5548.5	5540.3
35°	5297.2	5265.8	5326.3	5391.4	5376.3
37.5°	5101.8	5083.2	5151.8	5220.5	5212.4
40°	4911.0	4879.6	4957.6	5039.0	5030.9
42.5°	4706.4	4669.0	4754.0	4851.8	4842.4
45°	4467.8	4459.7	4535.3	4642.3	4634.2
47.5°	4256.2	4215.5	4321.3	4424.8	4434.2
50°	4000.2	3985.2	4081.7	4207.3	4216.6
52.5°	3750.2	3739.7	3840.8	3967.7	3983.9
55°	3501.2	3474.5	3592.0	3711.8	3721.1
57.5°	3234.9	3207.0	3326.8	3457.1	3476.8
60°	2949.8	2923.1	3054.5	3175.6	2525.3
62.5°	2664.9	2646.3	2783.6	1971.7	1589.0
65°	2359.0	2359.0	2496.2	1431.9	1436.6
67.5°	2072.9	2054.3	1861.2	1286.4	1286.4
70°	1765.7	1772.8	1072.4	1127.2	1128.3
72.5°	1457.5	1483.1	926.0	970.1	972.4
75°	1165.5	1187.7	771.2	811.9	815.4
77.5°	856.1	658.4	619.9	651.5	652.6
80°	601.3	415.3	474.6	504.8	501.3
82.5°	351.2	290.8	347.8	369.9	368.7
85°	152.3	193.1	240.8	260.6	246.5
87.5°	48.8	119.8	150.0	161.7	160.5
90°	0.0	65.1	107.0	126.7	124.5
92.5°	0.0	51.1	93.1	116.4	117.5
95°	3.4	33.7	76.8	103.6	103.6
97.5°	2.3	24.4	54.7	81.4	83.7
100°	2.3	19.7	36.1	58.1	59.4
102.5°	5.8	16.3	22.0	37.2	38.4
105°	5.8	12.8	18.6	18.6	17.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	9.4	12.8	9.4	1.1
115°	5.8	8.1	11.6	8.1	1.1
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°	5.8	11.6	16.3	10.5	3.4
110°	7.0	10.5	13.9	9.4	1.1



(END OF REPORT)