

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: P829911

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L730-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

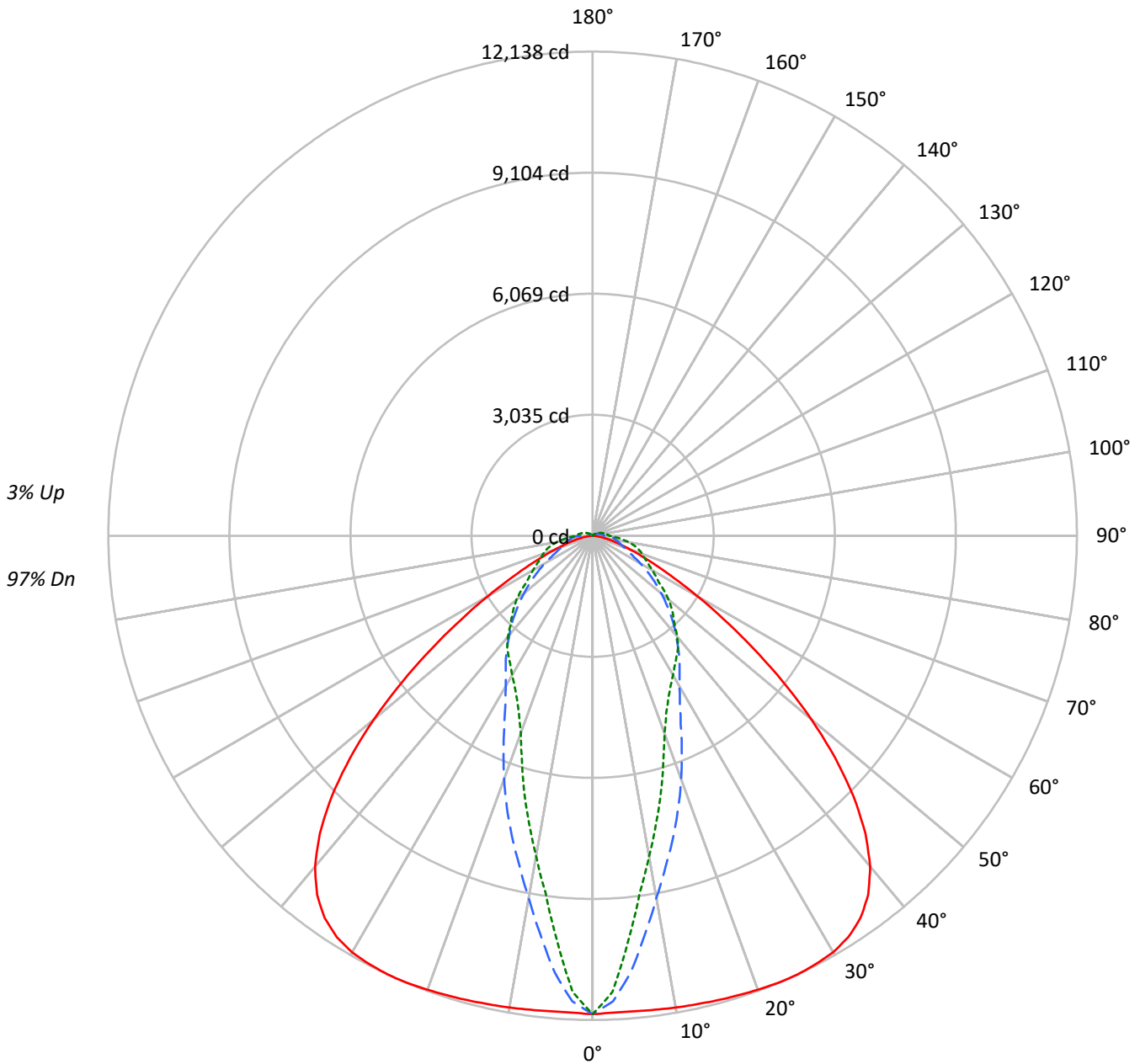
Lumens per Lamp: N/A  
Luminaire Lumens: 17697.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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									
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	20480	20480	20480
5°	20438	18651	17340
10°	20669	15710	13904
15°	21073	13436	11412
20°	21664	11361	9230
25°	22414	9403	8088
30°	23189	8101	7513
35°	23671	7383	7158
40°	23266	6669	6791
45°	21404	6026	6287
50°	18058	5324	5901
55°	13722	4663	5251
60°	9616	3999	5027
65°	6468	3444	4922
70°	4417	3232	5163
75°	3065	3334	5517
80°	2110	3692	5680
85°	1234	4618	5958



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1009.4	5.7
10°-20°	2374.5	13.4
20°-30°	2976.4	16.8
30°-40°	3158.3	17.8
40°-50°	2855.6	16.1
50°-60°	2070.5	11.7
60°-70°	1299.3	7.3
70°-80°	859.9	4.9
80°-90°	495.4	2.8
90°-100°	240.0	1.4
100°-110°	165.6	0.9
110°-120°	102.2	0.6
120°-130°	49.5	0.3
130°-140°	22.8	0.1
140°-150°	12.4	0.1
150°-160°	5.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6360.2	35.9
0°-40°	9518.5	53.8
0°-60°	14444.5	81.6
0°-90°	17099.0	96.6
90°-120°	507.9	2.9
90°-150°	592.6	3.3
90°-180°	598.0	3.4
0°-180°	17697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11991	11991	11991	11991	11991	
5°	11967	11660	10975	10466	10202	###
15°	12058	9828	7806	6942	6627	3420
25°	12138	7599	5227	4639	4492	5608
35°	11703	5052	3793	3675	3674	7275
45°	9252	3200	2749	2815	2863	7048
55°	4898	1983	1794	1946	2015	4426
65°	1752	1150	1038	1331	1479	1823
75°	541	620	697	1083	1148	603
85°	95	257	510	710	652	114
90°	0	107	296	416	420	6
95°	5	75	260	354	370	4
105°	9	50	189	251	258	9
115°	13	35	128	160	163	12
125°	14	18	65	82	81	12
135°	11	14	28	44	44	9
145°	14	15	17	26	25	8
155°	14	17	18	19	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11990.7	11990.7	11990.7	11990.7	11990.7
2.5°	11965.6	11897.1	11683.7	11553.6	11444.0
5°	11966.7	11659.7	10975.0	10466.0	10202.4
7.5°	11983.8	11301.4	10067.7	9324.8	9034.9
10°	12010.1	10857.4	9221.0	8429.0	8158.5
12.5°	12029.5	10357.6	8475.7	7662.1	7365.3
15°	12058.0	9828.1	7805.9	6942.0	6627.0
17.5°	12084.2	9329.4	7144.0	6241.3	5890.9
20°	12110.5	8791.9	6482.1	5552.0	5263.2
22.5°	12135.6	8224.7	5836.1	5016.7	4819.3
25°	12137.9	7599.3	5226.7	4639.0	4491.8
27.5°	12108.2	6951.1	4732.6	4322.9	4231.6
30°	12056.9	6322.3	4349.1	4094.7	4029.6
32.5°	11929.0	5680.9	4052.4	3874.4	3836.7
35°	11703.1	5052.1	3793.4	3674.7	3673.5
37.5°	11347.0	4494.1	3512.6	3492.1	3517.2
40°	10820.9	4005.6	3246.7	3301.5	3301.5
42.5°	10119.1	3581.1	3005.9	3061.9	3047.0
45°	9251.8	3199.9	2749.2	2815.4	2863.3
47.5°	8246.4	2864.4	2486.7	2614.5	2680.7
50°	7153.1	2544.9	2247.0	2410.2	2485.5
52.5°	6007.3	2249.3	2013.1	2200.2	2260.7
55°	4898.1	1983.4	1794.0	1945.8	2015.4
57.5°	3893.8	1730.1	1579.4	1723.2	1867.0
60°	3029.9	1512.1	1377.4	1582.9	1726.6
62.5°	2314.4	1318.1	1188.0	1451.6	1595.4
65°	1751.8	1150.3	1038.5	1330.6	1479.0
67.5°	1320.4	1005.4	922.1	1242.8	1387.7
70°	991.7	865.0	828.5	1188.0	1318.1
72.5°	732.7	736.1	754.3	1140.1	1239.4
75°	540.9	619.7	697.3	1083.0	1148.1
77.5°	386.9	513.5	645.9	1014.5	1037.4
80°	268.2	418.8	592.3	924.4	905.0
82.5°	167.8	335.5	544.4	825.1	771.5
85°	94.7	256.8	510.1	709.8	651.6
87.5°	42.2	191.7	446.2	553.5	517.0
90°	0.0	107.3	295.6	416.5	420.0
92.5°	2.3	89.0	272.7	381.2	392.6
95°	4.6	75.3	260.2	353.8	369.8
97.5°	5.7	66.2	244.2	328.7	342.4
100°	6.8	59.3	224.8	302.4	313.8
102.5°	8.0	54.8	206.6	275.0	284.2
105°	9.1	50.2	189.4	251.1	257.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.4	38.8	142.7	180.3	186.0
115°	12.6	35.4	127.8	159.8	163.2
117.5°	13.7	30.8	111.8	140.4	141.5
120°	13.7	27.4	95.9	119.8	119.8
122.5°	13.7	22.8	79.9	99.3	98.1
125°	13.7	18.3	65.0	82.2	81.0
127.5°	12.6	14.8	52.5	68.5	67.3
130°	12.6	14.8	42.2	58.2	58.2
132.5°	11.4	13.7	34.2	50.2	50.2
135°	11.4	13.7	28.5	44.5	44.5
137.5°	11.4	14.8	24.0	38.8	38.8
140°	11.4	13.7	20.5	34.2	34.2
142.5°	12.6	13.7	18.3	29.7	29.7
145°	13.7	14.8	17.1	26.2	25.1
147.5°	13.7	16.0	17.1	22.8	21.7
150°	13.7	17.1	17.1	20.5	19.4
152.5°	13.7	17.1	17.1	19.4	18.3
155°	13.7	17.1	18.3	19.4	17.1
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°	9.1	46.8	173.5	224.8	232.8
110°	10.3	42.2	158.6	200.9	208.8



(END OF REPORT)