

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: P829925

Luminaire Tested: **OHBL-18HE-NL-UNV-L740-CD**

Issue Date: 5/3/2024

**Test Information**

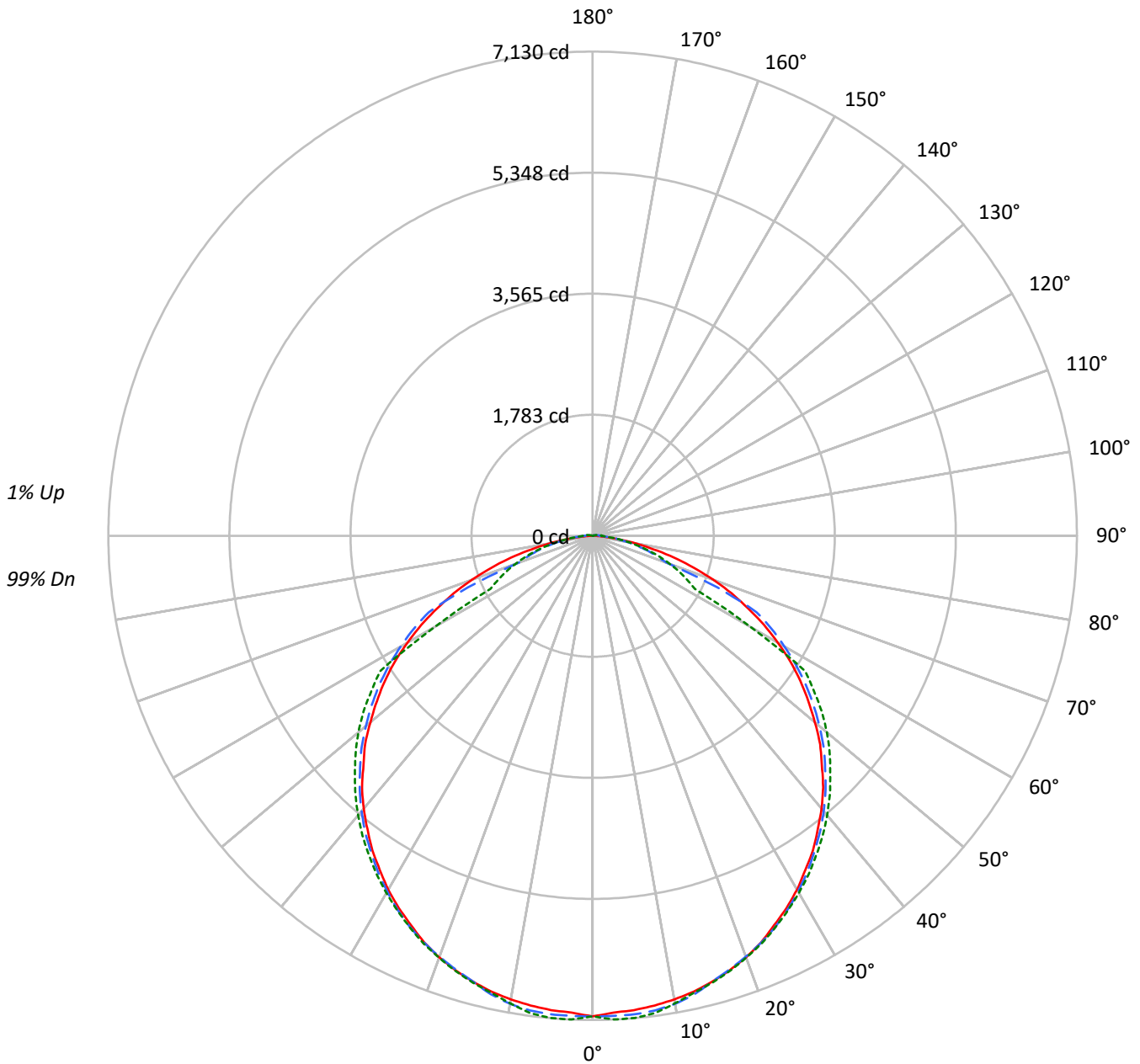
Test Method: LM-79-08  
Report Number: P829925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-NL-UNV-L740-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19871.0 lumens  
Efficiency: N/A  
Efficacy: 192.9 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 (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

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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	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°	12088	12088	12088
5°	12022	12130	12222
10°	12025	12139	12124
15°	12023	12021	12047
20°	12007	11988	12018
25°	11924	11985	11994
30°	11869	11930	11977
35°	11792	11857	11968
40°	11690	11801	11976
45°	11522	11696	11951
50°	11348	11579	11962
55°	11131	11420	11830
60°	10758	11140	9210
65°	10178	10770	6198
70°	9414	5717	6016
75°	8211	5433	5745
80°	6315	4984	5265
85°	3186	5036	5158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	672.4	3.4
10°-20°	1925.2	9.7
20°-30°	2929.4	14.7
30°-40°	3561.8	17.9
40°-50°	3745.0	18.8
50°-60°	3419.7	17.2
60°-70°	2192.2	11.0
70°-80°	1035.5	5.2
80°-90°	287.1	1.4
90°-100°	76.1	0.4
100°-110°	20.8	0.1
110°-120°	5.8	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°	5527.0	27.8
0°-40°	9088.8	45.7
0°-60°	16253.5	81.8
0°-90°	19768.3	99.5
90°-120°	102.7	0.5
90°-150°	102.7	0.5
90°-180°	103.0	0.5
0°-180°	19871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7078	7078	7078	7078	7078	
5°	7012	7039	7075	7114	7128	667
15°	6799	6850	6798	6808	6813	1920
25°	6327	6337	6360	6370	6365	2920
35°	5656	5622	5687	5756	5740	3534
45°	4770	4761	4842	4956	4948	3687
55°	3738	3710	3835	3963	3973	3334
65°	2518	2518	2665	1529	1534	2497
75°	1244	1268	823	867	870	1312
85°	163	206	257	278	263	240
90°	0	70	114	135	133	7
95°	4	36	82	111	111	2
105°	6	14	20	20	19	6
115°	6	9	12	9	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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CATALOG NUMBER: OHBL-18HE-NL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7077.5	7077.5	7077.5	7077.5	7077.5
2.5°	7027.8	7051.5	7077.5	7111.1	7129.6
5°	7011.7	7039.0	7075.0	7113.6	7128.4
7.5°	6977.0	7015.3	7050.2	7077.5	7086.2
10°	6933.4	6979.5	6999.3	6996.8	6990.6
12.5°	6875.1	6923.6	6917.4	6888.7	6893.7
15°	6799.3	6850.2	6798.1	6808.0	6813.0
17.5°	6709.9	6759.6	6698.7	6718.6	6719.9
20°	6605.7	6642.9	6595.7	6611.8	6611.8
22.5°	6480.2	6506.2	6486.4	6497.6	6500.1
25°	6327.4	6337.3	6359.6	6369.6	6364.6
27.5°	6181.0	6168.5	6212.0	6235.5	6223.0
30°	6018.2	5998.3	6049.2	6087.7	6072.9
32.5°	5831.9	5819.5	5877.9	5923.8	5915.1
35°	5655.6	5622.0	5686.6	5756.1	5740.0
37.5°	5446.9	5427.0	5500.3	5573.6	5565.0
40°	5243.2	5209.7	5292.9	5379.8	5371.2
42.5°	5024.7	4984.9	5075.6	5180.0	5170.0
45°	4770.0	4761.4	4842.1	4956.3	4947.7
47.5°	4544.1	4500.6	4613.6	4724.1	4734.1
50°	4270.8	4254.8	4357.8	4491.9	4501.8
52.5°	4003.9	3992.7	4100.7	4236.1	4253.4
55°	3738.0	3709.5	3834.9	3962.9	3972.9
57.5°	3453.8	3423.9	3551.9	3691.0	3712.0
60°	3149.4	3120.9	3261.1	3390.4	2696.2
62.5°	2845.1	2825.3	2971.9	2105.0	1696.5
65°	2518.5	2518.5	2665.0	1528.7	1533.7
67.5°	2213.1	2193.2	1987.1	1373.5	1373.5
70°	1885.2	1892.7	1144.9	1203.5	1204.6
72.5°	1556.1	1583.4	988.6	1035.7	1038.2
75°	1244.3	1268.0	823.3	866.9	870.5
77.5°	914.1	702.9	661.9	695.5	696.7
80°	642.0	443.4	506.7	538.9	535.3
82.5°	375.0	310.4	371.3	395.0	393.7
85°	162.6	206.2	257.0	278.2	263.2
87.5°	52.1	127.9	160.1	172.6	171.3
90°	0.0	69.6	114.3	135.3	132.9
92.5°	0.0	54.6	99.4	124.3	125.4
95°	3.7	36.0	82.0	110.6	110.6
97.5°	2.5	26.0	58.4	86.9	89.4
100°	2.5	21.0	38.5	62.1	63.4
102.5°	6.2	17.4	23.5	39.7	41.0
105°	6.2	13.7	19.9	19.9	18.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	10.0	13.7	10.0	1.2
115°	6.2	8.7	12.4	8.7	1.2
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°	6.2	12.4	17.4	11.2	3.7
110°	7.5	11.2	14.9	10.0	1.2



(END OF REPORT)