

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: P829937

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

Issue Date: 5/3/2024



**Test Information**

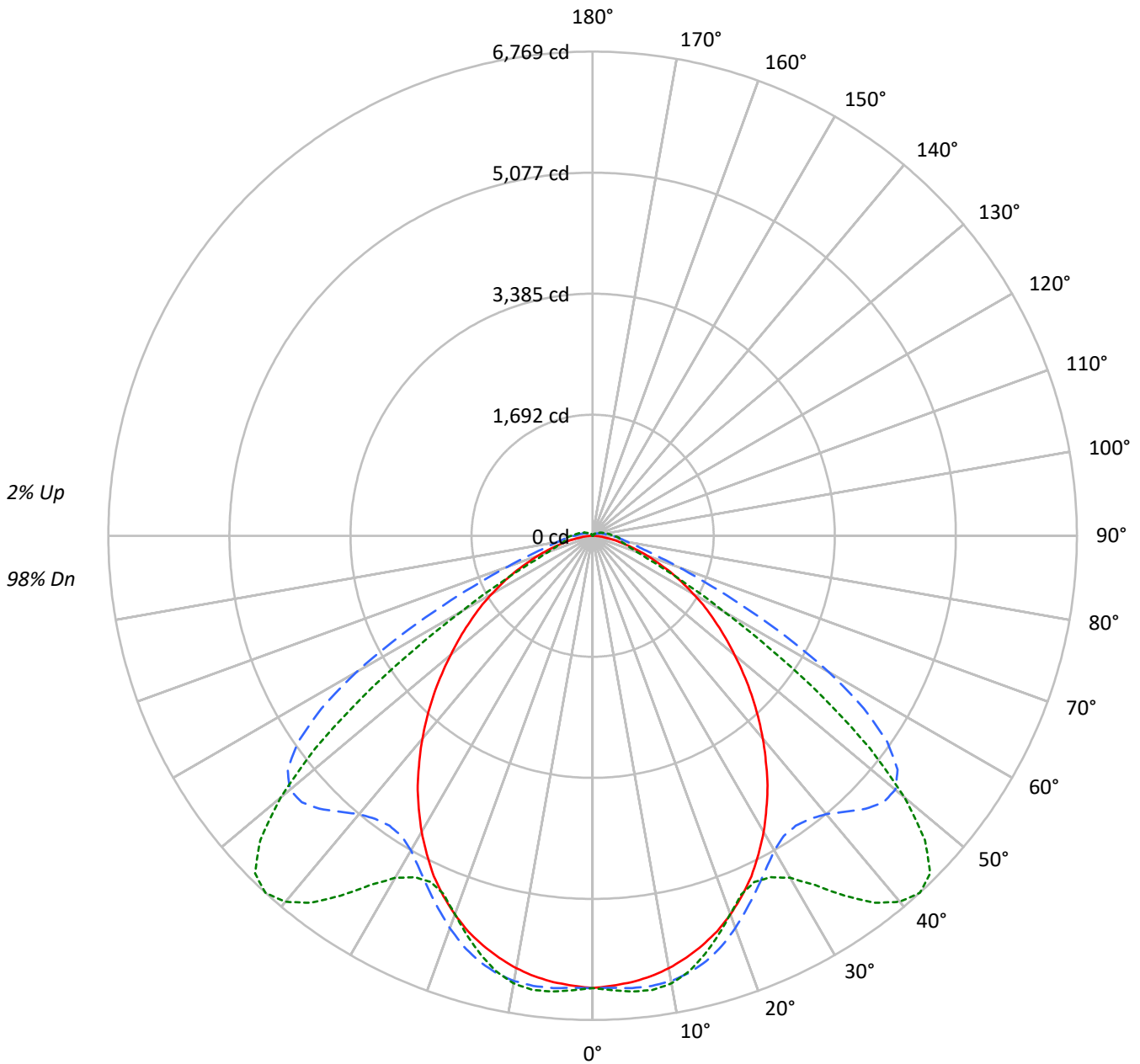
Test Method: LM-79-08  
Report Number: P829937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-W-UNV-L740-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18933.0 lumens  
Efficiency: N/A  
Efficacy: 183.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

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

	0°	45°	90°
0°	10800	10800	10800
5°	10699	10785	10870
10°	10565	10768	10830
15°	10359	10590	10431
20°	10077	10226	9869
25°	9699	9786	9619
30°	9196	9458	10292
35°	8623	9633	11968
40°	7958	10432	13739
45°	7262	11834	14652
50°	6537	13085	13510
55°	5855	13068	10209
60°	5161	11055	6157
65°	4428	7633	3663
70°	3597	4934	2581
75°	2736	3535	2308
80°	1965	3104	2449
85°	1333	3408	3405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.3	3.2
10°-20°	1711.1	9.0
20°-30°	2503.9	13.2
30°-40°	3251.8	17.2
40°-50°	3970.9	21.0
50°-60°	3497.0	18.5
60°-70°	1822.3	9.6
70°-80°	781.5	4.1
80°-90°	375.3	2.0
90°-100°	176.3	0.9
100°-110°	109.6	0.6
110°-120°	64.8	0.3
120°-130°	35.2	0.2
130°-140°	17.7	0.1
140°-150°	8.5	0.0
150°-160°	3.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4819.2	25.5
0°-40°	8071.0	42.6
0°-60°	15538.9	82.1
0°-90°	18517.9	97.8
90°-120°	350.7	1.9
90°-150°	412.1	2.2
90°-180°	415.0	2.2
0°-180°	18933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6323	6323	6323	6323	6323	
5°	6265	6312	6346	6402	6396	594
15°	5928	6094	6153	6106	6057	1669
25°	5252	5533	5439	5337	5342	2410
35°	4263	4714	4950	5772	6142	2657
45°	3139	3950	5398	6536	6672	2420
55°	2090	3460	5027	4408	3918	1876
65°	1199	2397	2302	1280	1101	1186
75°	483	1121	739	506	480	527
85°	102	400	376	368	372	114
90°	1	145	248	284	291	7
95°	3	85	198	232	239	2
105°	6	48	128	154	157	6
115°	8	27	79	97	100	8
125°	10	14	46	60	61	8
135°	8	8	22	37	38	6
145°	11	8	10	18	20	6
155°	11	11	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18HE-W-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6323.3	6323.3	6323.3	6323.3	6323.3
2.5°	6296.0	6323.3	6324.6	6362.8	6358.7
5°	6264.6	6312.4	6346.5	6402.4	6395.6
7.5°	6212.8	6287.8	6347.8	6409.2	6403.8
10°	6139.1	6241.4	6320.5	6371.0	6354.7
12.5°	6043.6	6178.7	6256.4	6267.3	6236.0
15°	5927.6	6094.1	6152.7	6106.4	6057.2
17.5°	5796.7	5991.8	6012.2	5911.3	5849.9
20°	5633.0	5855.3	5834.9	5695.7	5627.5
22.5°	5451.5	5705.3	5639.8	5493.8	5428.3
25°	5252.3	5533.4	5439.2	5336.9	5342.4
27.5°	5019.1	5338.3	5246.9	5293.3	5380.6
30°	4781.7	5133.7	5077.7	5347.8	5519.7
32.5°	4521.1	4923.6	4974.0	5507.5	5788.5
35°	4263.3	4713.5	4949.5	5772.1	6141.8
37.5°	3978.1	4500.6	4989.0	6077.7	6465.2
40°	3701.2	4293.3	5079.1	6351.9	6679.3
42.5°	3418.8	4107.7	5230.5	6514.3	6769.4
45°	3139.1	3949.5	5398.3	6536.1	6672.5
47.5°	2859.5	3815.8	5514.3	6362.8	6300.1
50°	2589.3	3697.1	5522.5	5946.7	5690.3
52.5°	2337.0	3588.0	5372.4	5283.7	4885.4
55°	2090.0	3459.7	5027.2	4407.9	3918.1
57.5°	1864.9	3282.4	4495.2	3466.5	2931.8
60°	1626.2	3042.3	3807.6	2536.1	2114.6
62.5°	1406.5	2743.5	3036.8	1765.3	1519.8
65°	1199.2	2397.0	2301.5	1279.7	1100.9
67.5°	979.5	2038.2	1698.5	933.1	818.5
70°	807.6	1705.3	1264.7	725.8	658.9
72.5°	631.6	1388.8	945.4	589.4	552.5
75°	482.9	1121.4	739.4	506.1	480.2
77.5°	356.1	886.8	594.8	447.5	422.9
80°	249.7	698.5	497.9	399.7	390.2
82.5°	167.8	540.2	424.3	380.6	382.0
85°	102.3	399.7	376.5	368.3	372.4
87.5°	49.1	283.8	323.3	335.6	339.7
90°	1.4	144.6	248.3	283.8	290.6
92.5°	0.0	110.5	218.3	253.7	260.6
95°	2.7	84.6	197.8	231.9	238.7
97.5°	2.7	69.6	177.4	212.8	216.9
100°	4.1	60.0	158.3	192.4	196.5
102.5°	4.1	53.2	141.9	171.9	174.6
105°	5.5	47.7	128.2	154.2	156.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.2	32.7	90.0	109.1	111.9
115°	8.2	27.3	79.1	96.9	99.6
117.5°	9.5	24.6	69.6	85.9	87.3
120°	9.5	20.5	60.0	76.4	77.8
122.5°	9.5	16.4	53.2	68.2	69.6
125°	9.5	13.6	46.4	60.0	61.4
127.5°	8.2	9.5	39.6	53.2	54.6
130°	8.2	8.2	32.7	46.4	49.1
132.5°	8.2	8.2	27.3	40.9	43.7
135°	8.2	8.2	21.8	36.8	38.2
137.5°	8.2	8.2	17.7	31.4	34.1
140°	8.2	8.2	13.6	27.3	28.6
142.5°	9.5	8.2	12.3	23.2	24.6
145°	10.9	8.2	9.5	17.7	20.5
147.5°	10.9	9.5	9.5	15.0	16.4
150°	10.9	10.9	8.2	10.9	13.6
152.5°	10.9	10.9	8.2	8.2	10.9
155°	10.9	10.9	8.2	8.2	8.2
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°	6.8	42.3	114.6	137.8	140.5
110°	6.8	36.8	101.0	122.8	125.5



(END OF REPORT)