

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: P829919

Luminaire Tested: **OHBL-18HE-N-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

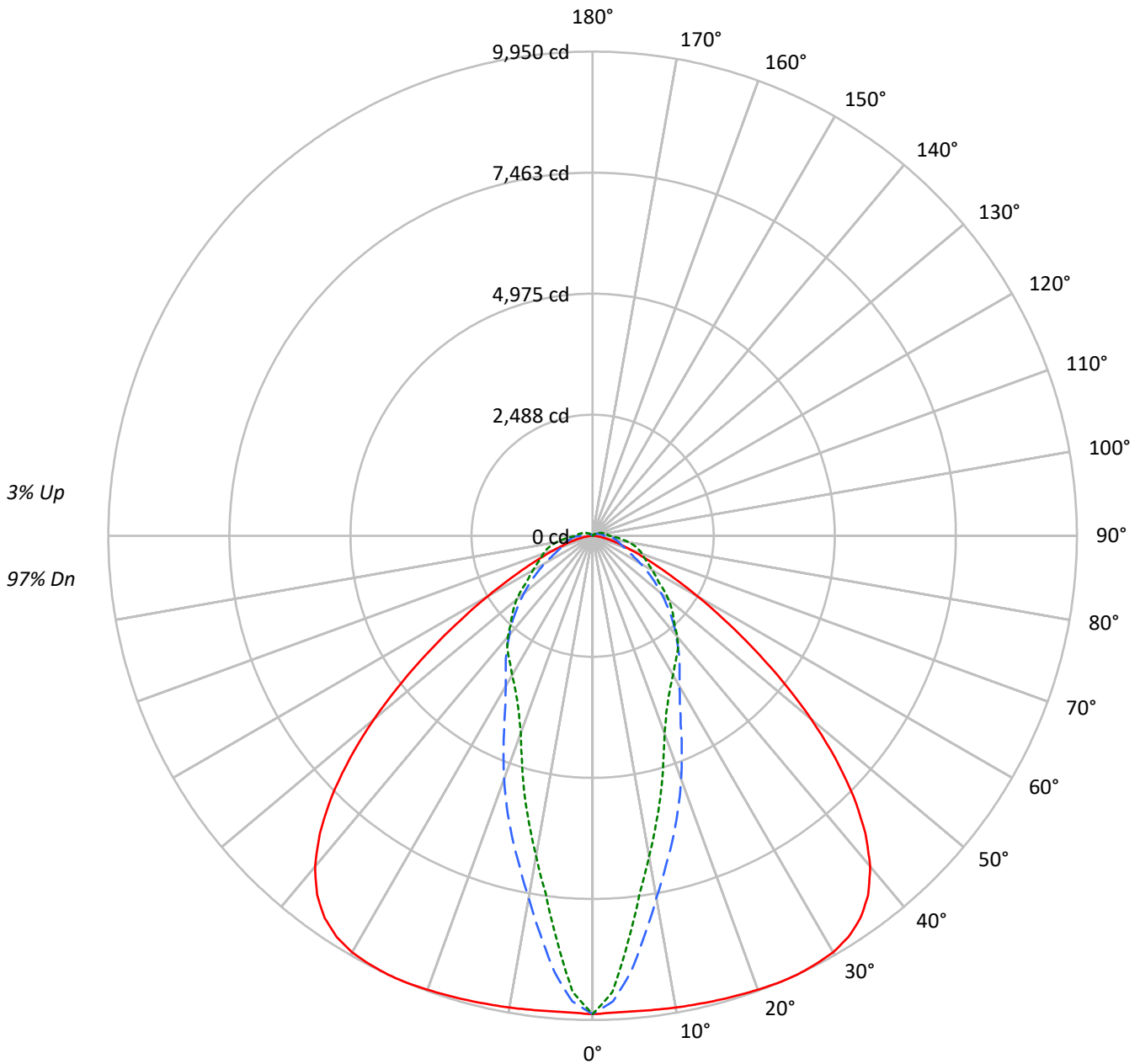
Test Method: LM-79-08  
Report Number: P829919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L930-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14507.0 lumens  
Efficiency: N/A  
Efficacy: 140.8 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 (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	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°	16788	16788	16788
5°	16754	15289	14215
10°	16943	12878	11398
15°	17274	11014	9355
20°	17759	9313	7567
25°	18373	7708	6630
30°	19009	6641	6159
35°	19404	6052	5868
40°	19072	5467	5567
45°	17546	4940	5154
50°	14803	4364	4837
55°	11248	3823	4305
60°	7882	3278	4121
65°	5302	2823	4034
70°	3621	2650	4233
75°	2513	2733	4522
80°	1730	3026	4655
85°	1011	3786	4885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	5.7
10°-20°	1946.5	13.4
20°-30°	2439.9	16.8
30°-40°	2589.0	17.8
40°-50°	2340.8	16.1
50°-60°	1697.3	11.7
60°-70°	1065.1	7.3
70°-80°	704.9	4.9
80°-90°	406.1	2.8
90°-100°	196.7	1.4
100°-110°	135.8	0.9
110°-120°	83.8	0.6
120°-130°	40.6	0.3
130°-140°	18.7	0.1
140°-150°	10.2	0.1
150°-160°	4.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5213.7	35.9
0°-40°	7802.7	53.8
0°-60°	11840.8	81.6
0°-90°	14016.8	96.6
90°-120°	416.3	2.9
90°-150°	485.8	3.3
90°-180°	490.0	3.4
0°-180°	14507.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9829	9829	9829	9829	9829	
5°	9810	9558	8997	8579	8363	938
15°	9884	8056	6399	5691	5432	2803
25°	9950	6230	4285	3803	3682	4597
35°	9594	4141	3110	3012	3011	5964
45°	7584	2623	2254	2308	2347	5778
55°	4015	1626	1471	1595	1652	3628
65°	1436	943	851	1091	1212	1494
75°	443	508	572	888	941	494
85°	78	210	418	582	534	93
90°	0	88	242	342	344	5
95°	4	62	213	290	303	3
105°	8	41	155	206	211	8
115°	10	29	105	131	134	10
125°	11	15	53	67	66	10
135°	9	11	23	36	36	7
145°	11	12	14	22	21	7
155°	11	14	15	16	14	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9829.3	9829.3	9829.3	9829.3	9829.3
2.5°	9808.7	9752.6	9577.6	9471.0	9381.2
5°	9809.6	9558.0	8996.7	8579.4	8363.3
7.5°	9823.7	9264.2	8253.0	7643.9	7406.3
10°	9845.2	8900.3	7558.8	6909.6	6687.9
12.5°	9861.1	8490.6	6947.9	6280.9	6037.7
15°	9884.5	8056.5	6398.8	5690.6	5432.4
17.5°	9906.0	7647.7	5856.2	5116.2	4829.0
20°	9927.5	7207.1	5313.6	4551.2	4314.5
22.5°	9948.1	6742.1	4784.1	4112.4	3950.6
25°	9949.9	6229.5	4284.6	3802.8	3682.1
27.5°	9925.6	5698.1	3879.5	3543.7	3468.8
30°	9883.5	5182.7	3565.2	3356.6	3303.2
32.5°	9778.7	4656.9	3321.9	3176.0	3145.1
35°	9593.5	4141.4	3109.6	3012.3	3011.4
37.5°	9301.6	3684.0	2879.5	2862.6	2883.2
40°	8870.4	3283.6	2661.5	2706.4	2706.4
42.5°	8295.1	2935.6	2464.1	2509.9	2497.8
45°	7584.1	2623.1	2253.6	2307.9	2347.2
47.5°	6759.9	2348.1	2038.4	2143.2	2197.5
50°	5863.7	2086.2	1842.0	1975.8	2037.5
52.5°	4924.5	1843.9	1650.2	1803.6	1853.2
55°	4015.2	1625.9	1470.6	1595.0	1652.1
57.5°	3191.9	1418.2	1294.7	1412.6	1530.5
60°	2483.7	1239.5	1129.1	1297.5	1415.4
62.5°	1897.2	1080.5	973.9	1190.0	1307.8
65°	1436.0	943.0	851.3	1090.8	1212.4
67.5°	1082.4	824.2	755.9	1018.8	1137.6
70°	812.9	709.1	679.2	973.9	1080.5
72.5°	600.6	603.4	618.4	934.6	1015.9
75°	443.4	508.0	571.6	887.8	941.1
77.5°	317.1	421.0	529.5	831.7	850.4
80°	219.8	343.3	485.5	757.8	741.8
82.5°	137.5	275.0	446.2	676.4	632.4
85°	77.6	210.5	418.2	581.9	534.2
87.5°	34.6	157.2	365.8	453.7	423.8
90°	0.0	87.9	242.3	341.5	344.3
92.5°	1.9	73.0	223.6	312.5	321.8
95°	3.7	61.7	213.3	290.0	303.1
97.5°	4.7	54.3	200.2	269.4	280.6
100°	5.6	48.6	184.3	247.9	257.3
102.5°	6.5	44.9	169.3	225.5	232.9
105°	7.5	41.2	155.3	205.8	211.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.4	31.8	116.9	147.8	152.5
115°	10.3	29.0	104.8	131.0	133.8
117.5°	11.2	25.3	91.7	115.1	116.0
120°	11.2	22.5	78.6	98.2	98.2
122.5°	11.2	18.7	65.5	81.4	80.5
125°	11.2	15.0	53.3	67.4	66.4
127.5°	10.3	12.2	43.0	56.1	55.2
130°	10.3	12.2	34.6	47.7	47.7
132.5°	9.4	11.2	28.1	41.2	41.2
135°	9.4	11.2	23.4	36.5	36.5
137.5°	9.4	12.2	19.6	31.8	31.8
140°	9.4	11.2	16.8	28.1	28.1
142.5°	10.3	11.2	15.0	24.3	24.3
145°	11.2	12.2	14.0	21.5	20.6
147.5°	11.2	13.1	14.0	18.7	17.8
150°	11.2	14.0	14.0	16.8	15.9
152.5°	11.2	14.0	14.0	15.9	15.0
155°	11.2	14.0	15.0	15.9	14.0
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°	7.5	38.4	142.2	184.3	190.8
110°	8.4	34.6	130.0	164.6	171.2



(END OF REPORT)