

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: P829883

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-A-UNV-L930-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

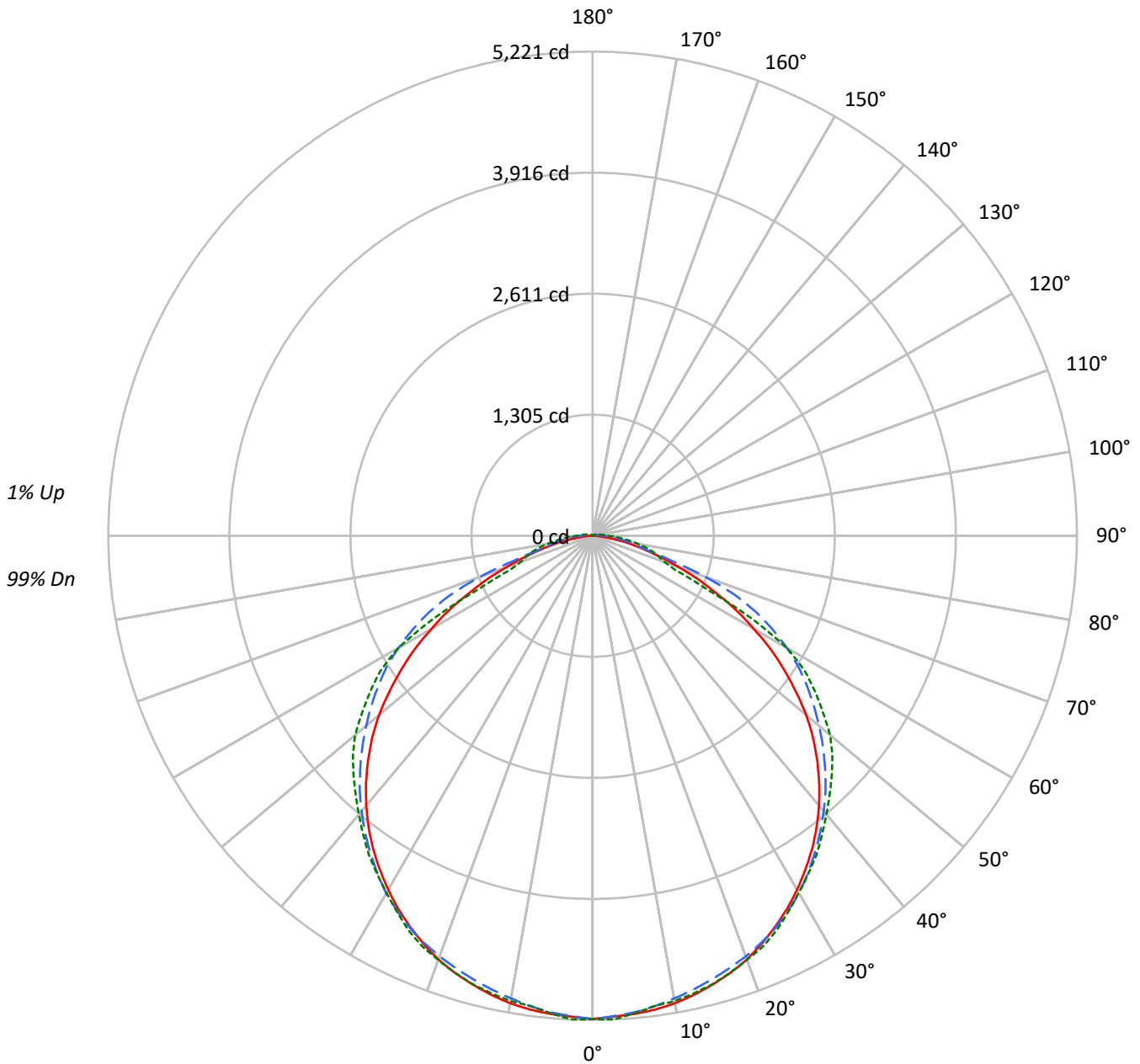
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14728.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	8900	8900	8900
5°	8842	8767	8783
10°	8809	8630	8680
15°	8754	8527	8617
20°	8697	8460	8535
25°	8593	8393	8453
30°	8479	8290	8287
35°	8342	8128	8192
40°	8165	7961	8065
45°	7919	7767	8004
50°	7585	7548	7931
55°	7056	7331	7625
60°	6363	7016	7037
65°	5458	6437	4450
70°	4396	5015	3217
75°	3296	2968	3251
80°	2294	2456	3083
85°	1306	2231	2852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.3	3.3
10°-20°	1408.9	9.6
20°-30°	2151.8	14.6
30°-40°	2610.9	17.7
40°-50°	2736.5	18.6
50°-60°	2479.6	16.8
60°-70°	1662.5	11.3
70°-80°	746.5	5.1
80°-90°	270.9	1.8
90°-100°	81.5	0.6
100°-110°	38.5	0.3
110°-120°	19.3	0.1
120°-130°	10.6	0.1
130°-140°	7.3	0.0
140°-150°	4.9	0.0
150°-160°	3.6	0.0
160°-170°	2.4	0.0
170°-180°	0.7	0.0
0°-30°	4052.1	27.5
0°-40°	6663.0	45.2
0°-60°	11879.1	80.7
0°-90°	14559.1	98.9
90°-120°	139.3	0.9
90°-150°	162.1	1.1
90°-180°	169.0	1.1
0°-180°	14728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5211	5211	5211	5211	5211	
5°	5177	5195	5159	5175	5168	492
15°	5009	4989	4954	4998	5004	1414
25°	4653	4633	4665	4708	4695	2145
35°	4124	4134	4176	4221	4204	2578
45°	3423	3479	3543	3634	3645	2637
55°	2519	2640	2820	2933	2926	2248
65°	1478	1710	1941	1638	1337	1473
75°	582	844	621	635	677	636
85°	100	192	246	298	312	122
90°	1	64	127	160	167	6
95°	1	40	87	106	109	1
105°	3	17	43	52	54	3
115°	6	9	22	28	29	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	4
155°	8	8	8	8	8	3
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



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CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5210.8	5210.8	5210.8	5210.8	5210.8
2.5°	5189.7	5211.5	5184.4	5213.8	5221.3
5°	5176.9	5195.0	5158.8	5174.6	5167.8
7.5°	5153.5	5159.5	5116.6	5129.4	5115.8
10°	5118.9	5115.8	5065.4	5090.2	5093.2
12.5°	5067.6	5058.6	5013.4	5051.0	5051.8
15°	5008.9	4989.3	4953.9	4997.6	5003.6
17.5°	4941.0	4915.4	4892.1	4948.6	4939.5
20°	4861.9	4831.8	4827.3	4889.1	4866.5
22.5°	4764.0	4740.6	4751.2	4809.9	4795.6
25°	4653.2	4632.9	4665.3	4708.2	4694.7
27.5°	4536.5	4524.4	4561.3	4594.5	4568.1
30°	4408.4	4401.6	4450.6	4477.7	4444.5
32.5°	4269.0	4271.2	4318.0	4354.9	4324.0
35°	4124.3	4134.1	4176.3	4220.8	4204.2
37.5°	3965.3	3987.2	4029.4	4079.9	4062.5
40°	3797.3	3829.0	3875.7	3936.7	3920.9
42.5°	3615.8	3655.7	3716.0	3783.8	3782.3
45°	3422.9	3478.6	3543.4	3633.8	3645.1
47.5°	3222.5	3285.0	3367.1	3487.7	3505.0
50°	3004.7	3083.1	3185.5	3330.2	3340.7
52.5°	2762.1	2869.1	3004.7	3143.3	3130.5
55°	2518.7	2640.0	2820.1	2933.1	2926.4
57.5°	2276.1	2412.5	2631.0	2711.6	2710.9
60°	2004.9	2177.4	2416.3	2477.3	2417.0
62.5°	1754.0	1939.4	2187.2	2142.8	1936.3
65°	1478.2	1709.6	1940.9	1638.0	1337.4
67.5°	1233.4	1474.5	1648.5	1121.9	960.6
70°	987.0	1253.0	1285.4	832.5	821.2
72.5°	768.5	1051.8	886.8	712.8	748.9
75°	581.7	843.9	620.8	635.1	676.6
77.5°	424.2	648.0	483.0	556.8	590.7
80°	291.6	458.8	394.0	467.9	491.2
82.5°	183.1	302.9	315.7	376.7	400.8
85°	100.2	192.1	246.4	297.6	311.9
87.5°	41.4	116.0	188.4	229.8	241.9
90°	0.8	64.0	127.3	159.7	167.3
92.5°	0.8	49.0	104.0	128.8	134.1
95°	0.8	39.9	87.4	106.2	109.2
97.5°	1.5	31.6	73.1	88.2	91.2
100°	2.3	26.4	61.0	73.8	76.1
102.5°	3.0	21.1	51.2	61.8	64.0
105°	3.0	17.3	42.9	52.0	54.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	10.5	25.6	32.4	33.9
115°	6.0	9.0	21.8	27.9	29.4
117.5°	6.0	7.5	18.8	23.4	24.9
120°	6.0	6.8	16.6	20.3	21.1
122.5°	6.0	6.0	14.3	18.1	18.8
125°	5.3	6.0	13.6	15.8	16.6
127.5°	6.0	6.0	12.1	14.3	15.1
130°	6.0	6.8	10.5	13.6	13.6
132.5°	6.8	7.5	9.8	12.8	12.8
135°	6.8	7.5	8.3	12.1	12.8
137.5°	7.5	7.5	7.5	11.3	12.1
140°	7.5	7.5	6.8	9.8	10.5
142.5°	6.8	7.5	6.8	9.0	9.8
145°	6.8	7.5	7.5	8.3	9.0
147.5°	7.5	7.5	7.5	7.5	8.3
150°	7.5	7.5	7.5	7.5	7.5
152.5°	7.5	7.5	7.5	7.5	7.5
155°	7.5	8.3	8.3	8.3	7.5
157.5°	7.5	8.3	8.3	8.3	8.3
160°	7.5	8.3	8.3	8.3	8.3
162.5°	8.3	8.3	8.3	8.3	8.3
165°	8.3	8.3	8.3	8.3	8.3
167.5°	8.3	9.0	8.3	8.3	8.3
170°	8.3	8.3	8.3	7.5	7.5
172.5°	8.3	8.3	8.3	7.5	7.5
175°	8.3	8.3	7.5	6.8	6.8
177.5°	9.0	8.3	7.5	6.8	6.0
180°	7.5	7.5	7.5	7.5	7.5



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	3.8	14.3	36.9	44.5	46.0
110°	4.5	12.1	30.9	37.7	39.2



(END OF REPORT)