

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: P829885

Luminaire Tested: **OHBL-18HE-A-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829885  
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-L940-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

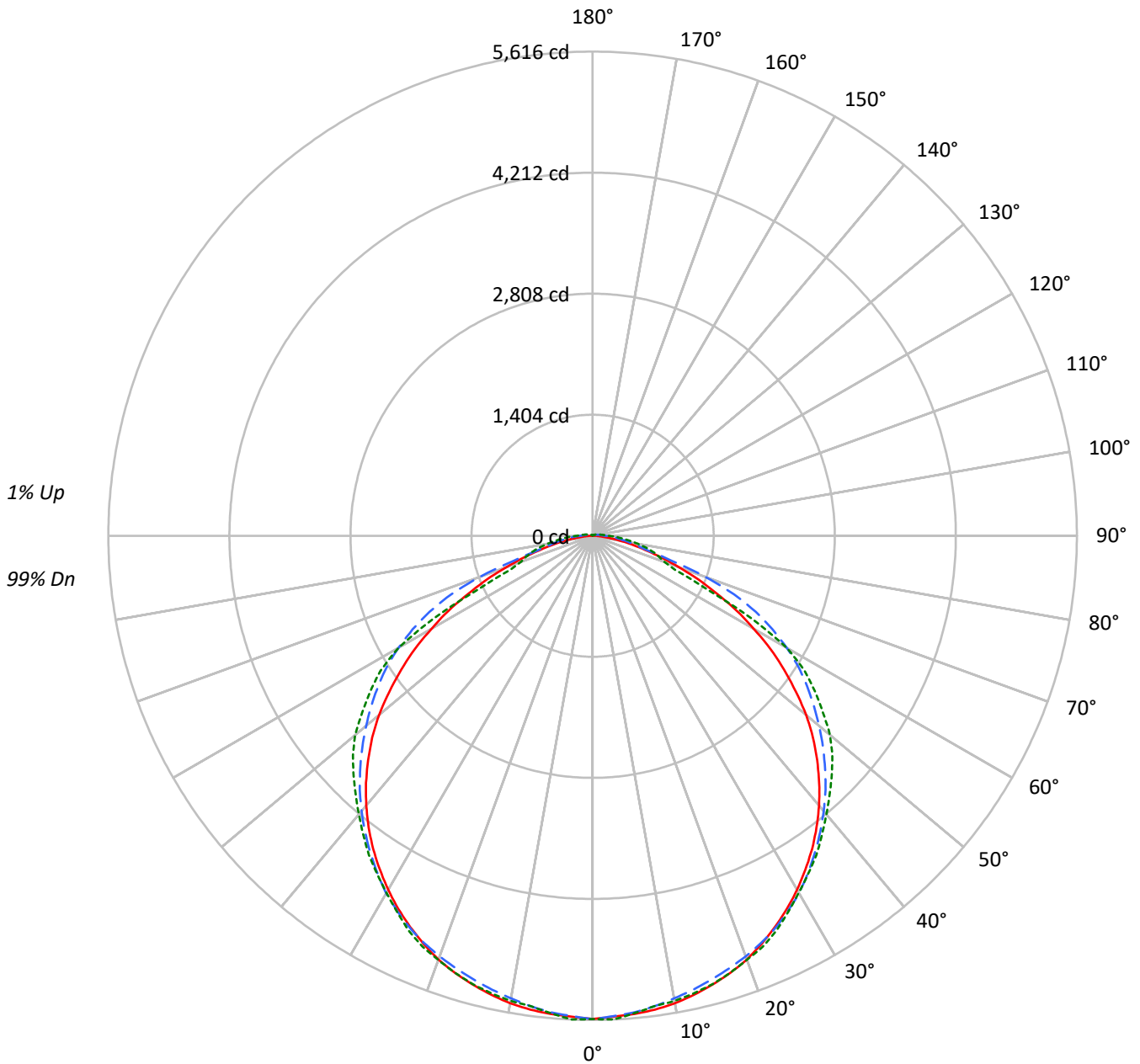
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15842.0 lumens  
Efficiency: N/A  
Efficacy: 153.8 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°	9573	9573	9573
5°	9510	9430	9448
10°	9476	9283	9337
15°	9416	9172	9268
20°	9355	9100	9180
25°	9243	9028	9093
30°	9120	8917	8914
35°	8973	8743	8812
40°	8782	8563	8675
45°	8518	8355	8609
50°	8159	8119	8531
55°	7590	7885	8202
60°	6844	7546	7570
65°	5871	6924	4787
70°	4729	5394	3461
75°	3545	3193	3497
80°	2468	2642	3316
85°	1405	2399	3068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.5	3.3
10°-20°	1515.5	9.6
20°-30°	2314.6	14.6
30°-40°	2808.4	17.7
40°-50°	2943.5	18.6
50°-60°	2667.2	16.8
60°-70°	1788.3	11.3
70°-80°	803.0	5.1
80°-90°	291.4	1.8
90°-100°	87.7	0.6
100°-110°	41.4	0.3
110°-120°	20.7	0.1
120°-130°	11.5	0.1
130°-140°	7.9	0.0
140°-150°	5.3	0.0
150°-160°	3.9	0.0
160°-170°	2.5	0.0
170°-180°	0.8	0.0
0°-30°	4358.6	27.5
0°-40°	7166.9	45.2
0°-60°	12777.6	80.7
0°-90°	15660.3	98.9
90°-120°	149.8	0.9
90°-150°	174.4	1.1
90°-180°	182.0	1.1
0°-180°	15842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5605	5605	5605	5605	5605	
5°	5568	5588	5549	5566	5559	530
15°	5388	5367	5329	5376	5382	1521
25°	5005	4983	5018	5064	5050	2307
35°	4436	4447	4492	4540	4522	2773
45°	3682	3742	3811	3909	3921	2836
55°	2709	2840	3033	3155	3148	2418
65°	1590	1839	2088	1762	1438	1584
75°	626	908	668	683	728	684
85°	108	207	265	320	336	132
90°	1	69	137	172	180	6
95°	1	43	94	114	118	1
105°	3	19	46	56	58	4
115°	6	10	24	30	32	6
125°	6	6	15	17	18	6
135°	7	8	9	13	14	6
145°	7	8	8	9	10	5
155°	8	9	9	9	8	4
165°	9	9	9	9	9	2
175°	9	9	8	7	7	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5604.9	5604.9	5604.9	5604.9	5604.9
2.5°	5582.2	5605.7	5576.5	5608.2	5616.3
5°	5568.4	5587.9	5549.0	5566.0	5558.7
7.5°	5543.3	5549.8	5503.6	5517.4	5502.8
10°	5506.0	5502.8	5448.5	5475.2	5478.5
12.5°	5450.9	5441.2	5392.6	5433.1	5433.9
15°	5387.7	5366.6	5328.6	5375.6	5382.0
17.5°	5314.8	5287.2	5262.1	5322.9	5313.2
20°	5229.7	5197.3	5192.4	5258.9	5234.5
22.5°	5124.3	5099.2	5110.6	5173.8	5158.4
25°	5005.2	4983.3	5018.2	5064.4	5049.8
27.5°	4879.6	4866.6	4906.3	4942.0	4913.6
30°	4741.8	4734.5	4787.2	4816.4	4780.7
32.5°	4591.9	4594.3	4644.6	4684.3	4651.0
35°	4436.3	4446.8	4492.2	4540.0	4522.2
37.5°	4265.3	4288.8	4334.2	4388.5	4369.8
40°	4084.6	4118.6	4168.8	4234.5	4217.5
42.5°	3889.2	3932.2	3997.0	4070.0	4068.3
45°	3681.8	3741.7	3811.4	3908.7	3920.8
47.5°	3466.2	3533.5	3621.8	3751.5	3770.1
50°	3232.0	3316.3	3426.5	3582.1	3593.4
52.5°	2971.0	3086.1	3232.0	3381.1	3367.3
55°	2709.3	2839.7	3033.4	3155.0	3147.7
57.5°	2448.3	2595.0	2830.0	2916.7	2915.9
60°	2156.5	2342.1	2599.0	2664.7	2599.8
62.5°	1886.7	2086.0	2352.7	2304.9	2082.8
65°	1590.1	1838.9	2087.7	1761.9	1438.5
67.5°	1326.7	1586.0	1773.2	1206.7	1033.3
70°	1061.7	1347.7	1382.6	895.5	883.4
72.5°	826.6	1131.4	953.9	766.7	805.6
75°	625.6	907.7	667.8	683.2	727.8
77.5°	456.3	697.0	519.5	598.9	635.4
80°	313.6	493.6	423.9	503.3	528.4
82.5°	196.9	325.8	339.6	405.2	431.1
85°	107.8	206.7	265.0	320.1	335.5
87.5°	44.6	124.8	202.6	247.2	260.1
90°	0.8	68.9	137.0	171.8	179.9
92.5°	0.8	52.7	111.8	138.6	144.3
95°	0.8	43.0	94.0	114.3	117.5
97.5°	1.6	34.0	78.6	94.8	98.1
100°	2.4	28.4	65.6	79.4	81.9
102.5°	3.2	22.7	55.1	66.5	68.9
105°	3.2	18.6	46.2	55.9	58.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	11.3	27.6	34.8	36.5
115°	6.5	9.7	23.5	30.0	31.6
117.5°	6.5	8.1	20.3	25.1	26.7
120°	6.5	7.3	17.8	21.9	22.7
122.5°	6.5	6.5	15.4	19.5	20.3
125°	5.7	6.5	14.6	17.0	17.8
127.5°	6.5	6.5	13.0	15.4	16.2
130°	6.5	7.3	11.3	14.6	14.6
132.5°	7.3	8.1	10.5	13.8	13.8
135°	7.3	8.1	8.9	13.0	13.8
137.5°	8.1	8.1	8.1	12.2	13.0
140°	8.1	8.1	7.3	10.5	11.3
142.5°	7.3	8.1	7.3	9.7	10.5
145°	7.3	8.1	8.1	8.9	9.7
147.5°	8.1	8.1	8.1	8.1	8.9
150°	8.1	8.1	8.1	8.1	8.1
152.5°	8.1	8.1	8.1	8.1	8.1
155°	8.1	8.9	8.9	8.9	8.1
157.5°	8.1	8.9	8.9	8.9	8.9
160°	8.1	8.9	8.9	8.9	8.9
162.5°	8.9	8.9	8.9	8.9	8.9
165°	8.9	8.9	8.9	8.9	8.9
167.5°	8.9	9.7	8.9	8.9	8.9
170°	8.9	8.9	8.9	8.1	8.1
172.5°	8.9	8.9	8.9	8.1	8.1
175°	8.9	8.9	8.1	7.3	7.3
177.5°	9.7	8.9	8.1	7.3	6.5
180°	8.1	8.1	8.1	8.1	8.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.1	15.4	39.7	47.8	49.4
110°	4.9	13.0	33.2	40.5	42.1



(END OF REPORT)