

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: P829896

Luminaire Tested: **OHBL-18HE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829896  
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-MCL-UNV-L935-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

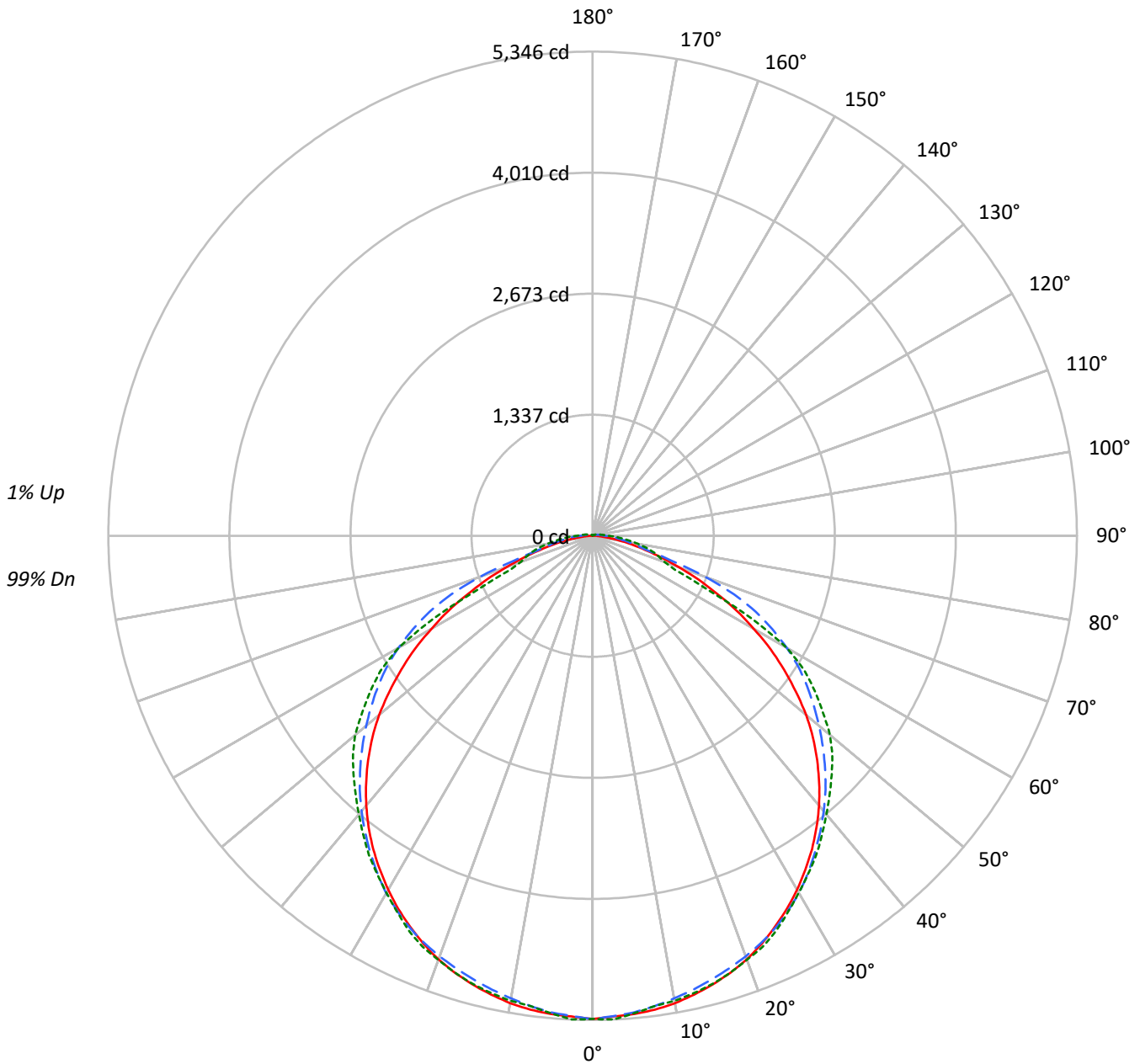
Lumens per Lamp: N/A  
Luminaire Lumens: 15079.0 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	9112	9112	9112
5°	9053	8976	8993
10°	9019	8836	8887
15°	8962	8730	8822
20°	8905	8662	8738
25°	8797	8593	8655
30°	8680	8487	8485
35°	8541	8322	8388
40°	8359	8150	8257
45°	8107	7953	8195
50°	7766	7728	8121
55°	7224	7506	7807
60°	6515	7183	7205
65°	5588	6591	4556
70°	4501	5134	3294
75°	3375	3039	3329
80°	2349	2515	3156
85°	1337	2283	2920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.0	3.3
10°-20°	1442.5	9.6
20°-30°	2203.1	14.6
30°-40°	2673.1	17.7
40°-50°	2801.7	18.6
50°-60°	2538.8	16.8
60°-70°	1702.1	11.3
70°-80°	764.3	5.1
80°-90°	277.4	1.8
90°-100°	83.5	0.6
100°-110°	39.4	0.3
110°-120°	19.7	0.1
120°-130°	10.9	0.1
130°-140°	7.5	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4148.6	27.5
0°-40°	6821.8	45.2
0°-60°	12162.2	80.7
0°-90°	14906.0	98.9
90°-120°	142.6	0.9
90°-150°	166.0	1.1
90°-180°	173.0	1.1
0°-180°	15079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5335	5335	5335	5335	5335	
5°	5300	5319	5282	5298	5291	504
15°	5128	5108	5072	5117	5123	1448
25°	4764	4743	4776	4820	4807	2196
35°	4223	4233	4276	4321	4304	2639
45°	3504	3562	3628	3720	3732	2700
55°	2579	2703	2887	3003	2996	2302
65°	1514	1750	1987	1677	1369	1508
75°	596	864	636	650	693	651
85°	103	197	252	305	319	125
90°	1	66	130	164	171	6
95°	1	41	90	109	112	1
105°	3	18	44	53	56	4
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	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°	5335.0	5335.0	5335.0	5335.0	5335.0
2.5°	5313.4	5335.7	5308.0	5338.0	5345.8
5°	5300.3	5318.8	5281.7	5297.9	5291.0
7.5°	5276.3	5282.5	5238.5	5251.7	5237.8
10°	5240.9	5237.8	5186.1	5211.5	5214.6
12.5°	5188.4	5179.1	5132.9	5171.4	5172.2
15°	5128.2	5108.2	5071.9	5116.7	5122.8
17.5°	5058.8	5032.6	5008.7	5066.5	5057.3
20°	4977.8	4947.0	4942.3	5005.6	4982.4
22.5°	4877.5	4853.6	4864.4	4924.6	4909.9
25°	4764.1	4743.3	4776.5	4820.4	4806.6
27.5°	4644.6	4632.2	4670.0	4704.0	4677.0
30°	4513.4	4506.5	4556.6	4584.4	4550.5
32.5°	4370.7	4373.0	4420.9	4458.7	4427.0
35°	4222.6	4232.6	4275.8	4321.4	4304.4
37.5°	4059.8	4082.2	4125.4	4177.1	4159.4
40°	3887.8	3920.2	3968.1	4030.5	4014.3
42.5°	3701.9	3742.8	3804.5	3873.9	3872.4
45°	3504.4	3561.5	3627.9	3720.4	3732.0
47.5°	3299.3	3363.3	3447.4	3570.8	3588.5
50°	3076.3	3156.5	3261.5	3409.6	3420.4
52.5°	2827.9	2937.5	3076.3	3218.3	3205.1
55°	2578.8	2703.0	2887.3	3003.0	2996.1
57.5°	2330.4	2470.0	2693.7	2776.2	2775.5
60°	2052.7	2229.3	2473.9	2536.3	2474.6
62.5°	1795.8	1985.6	2239.4	2193.8	1982.5
65°	1513.5	1750.3	1987.1	1677.0	1369.2
67.5°	1262.8	1509.6	1687.8	1148.6	983.5
70°	1010.5	1282.8	1316.0	852.4	840.8
72.5°	786.8	1076.9	907.9	729.7	766.8
75°	595.5	864.0	635.6	650.3	692.7
77.5°	434.3	663.4	494.5	570.1	604.8
80°	298.5	469.8	403.4	479.0	502.9
82.5°	187.4	310.1	323.2	385.7	410.4
85°	102.6	196.7	252.2	304.7	319.4
87.5°	42.4	118.8	192.8	235.3	247.6
90°	0.8	65.6	130.4	163.5	171.2
92.5°	0.8	50.1	106.5	131.9	137.3
95°	0.8	40.9	89.5	108.8	111.9
97.5°	1.5	32.4	74.8	90.3	93.3
100°	2.3	27.0	62.5	75.6	77.9
102.5°	3.1	21.6	52.5	63.3	65.6
105°	3.1	17.7	44.0	53.2	55.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	10.8	26.2	33.2	34.7
115°	6.2	9.3	22.4	28.5	30.1
117.5°	6.2	7.7	19.3	23.9	25.5
120°	6.2	6.9	17.0	20.8	21.6
122.5°	6.2	6.2	14.7	18.5	19.3
125°	5.4	6.2	13.9	16.2	17.0
127.5°	6.2	6.2	12.3	14.7	15.4
130°	6.2	6.9	10.8	13.9	13.9
132.5°	6.9	7.7	10.0	13.1	13.1
135°	6.9	7.7	8.5	12.3	13.1
137.5°	7.7	7.7	7.7	11.6	12.3
140°	7.7	7.7	6.9	10.0	10.8
142.5°	6.9	7.7	6.9	9.3	10.0
145°	6.9	7.7	7.7	8.5	9.3
147.5°	7.7	7.7	7.7	7.7	8.5
150°	7.7	7.7	7.7	7.7	7.7
152.5°	7.7	7.7	7.7	7.7	7.7
155°	7.7	8.5	8.5	8.5	7.7
157.5°	7.7	8.5	8.5	8.5	8.5
160°	7.7	8.5	8.5	8.5	8.5
162.5°	8.5	8.5	8.5	8.5	8.5
165°	8.5	8.5	8.5	8.5	8.5
167.5°	8.5	9.3	8.5	8.5	8.5
170°	8.5	8.5	8.5	7.7	7.7
172.5°	8.5	8.5	8.5	7.7	7.7
175°	8.5	8.5	7.7	6.9	6.9
177.5°	9.3	8.5	7.7	6.9	6.2
180°	7.7	7.7	7.7	7.7	7.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	3.9	14.7	37.8	45.5	47.1
110°	4.6	12.3	31.6	38.6	40.1



(END OF REPORT)