

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: P829921

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829921  
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-L940-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

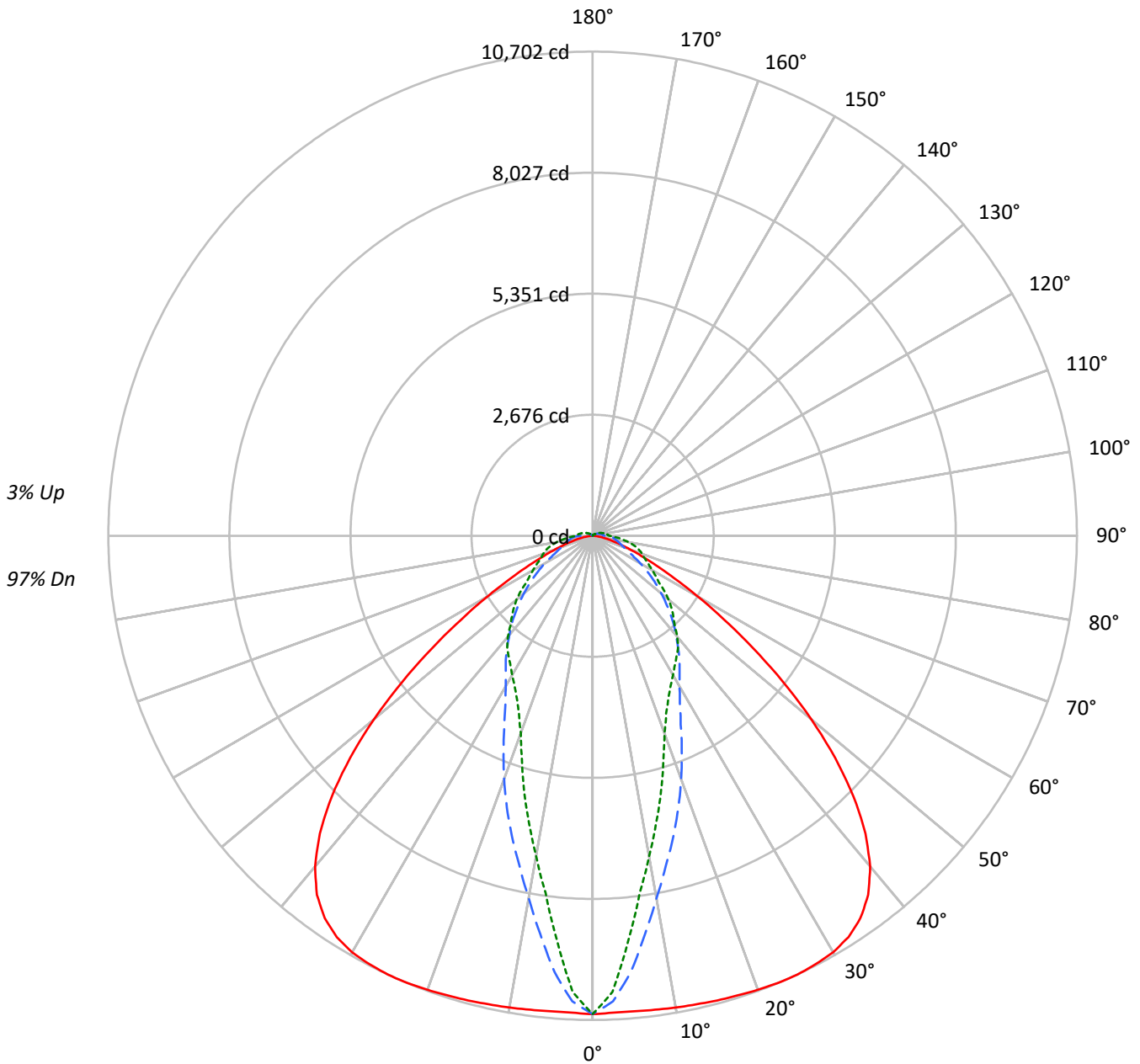
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15604.0 lumens  
Efficiency: N/A  
Efficacy: 151.5 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 (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	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°	18058	18058	18058
5°	18021	16445	15290
10°	18224	13852	12260
15°	18580	11847	10063
20°	19102	10017	8139
25°	19763	8291	7131
30°	20446	7143	6625
35°	20872	6509	6312
40°	20514	5880	5988
45°	18872	5314	5544
50°	15922	4695	5203
55°	12099	4112	4630
60°	8479	3526	4433
65°	5703	3037	4340
70°	3895	2850	4553
75°	2703	2939	4865
80°	1861	3255	5008
85°	1088	4072	5254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.0	5.7
10°-20°	2093.6	13.4
20°-30°	2624.4	16.8
30°-40°	2784.7	17.8
40°-50°	2517.8	16.1
50°-60°	1825.6	11.7
60°-70°	1145.7	7.3
70°-80°	758.1	4.9
80°-90°	436.8	2.8
90°-100°	211.6	1.4
100°-110°	146.0	0.9
110°-120°	90.1	0.6
120°-130°	43.6	0.3
130°-140°	20.1	0.1
140°-150°	11.0	0.1
150°-160°	4.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5608.0	35.9
0°-40°	8392.7	53.8
0°-60°	12736.2	81.6
0°-90°	15076.7	96.6
90°-120°	447.8	2.9
90°-150°	522.5	3.3
90°-180°	527.0	3.4
0°-180°	15604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10572	10572	10572	10572	10572	
5°	10551	10281	9677	9228	8996	###
15°	10632	8666	6883	6121	5843	3015
25°	10702	6700	4609	4090	3961	4944
35°	10319	4455	3345	3240	3239	6415
45°	8158	2822	2424	2482	2525	6214
55°	4319	1749	1582	1716	1777	3902
65°	1545	1014	916	1173	1304	1607
75°	477	546	615	955	1012	532
85°	84	226	450	626	575	100
90°	0	95	261	367	370	5
95°	4	66	229	312	326	4
105°	8	44	167	221	227	8
115°	11	31	113	141	144	11
125°	12	16	57	72	71	11
135°	10	12	25	39	39	8
145°	12	13	15	23	22	7
155°	12	15	16	17	15	4
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°	10572.5	10572.5	10572.5	10572.5	10572.5
2.5°	10550.4	10490.0	10301.9	10187.2	10090.6
5°	10551.4	10280.7	9677.0	9228.2	8995.8
7.5°	10566.5	9964.8	8877.0	8222.0	7966.4
10°	10589.6	9573.3	8130.4	7432.1	7193.6
12.5°	10606.8	9132.6	7473.3	6755.9	6494.3
15°	10631.9	8665.7	6882.7	6120.9	5843.2
17.5°	10655.1	8226.0	6299.0	5503.1	5194.2
20°	10678.2	7752.1	5715.4	4895.3	4640.8
22.5°	10700.3	7252.0	5145.9	4423.4	4249.3
25°	10702.3	6700.5	4608.6	4090.4	3960.6
27.5°	10676.2	6129.0	4172.9	3811.6	3731.1
30°	10630.9	5574.6	3834.8	3610.4	3553.0
32.5°	10518.2	5009.1	3573.2	3416.2	3383.0
35°	10319.0	4454.6	3344.7	3240.1	3239.1
37.5°	10005.0	3962.6	3097.2	3079.1	3101.2
40°	9541.1	3531.9	2862.7	2911.0	2911.0
42.5°	8922.3	3157.6	2650.4	2699.7	2686.7
45°	8157.6	2821.5	2424.0	2482.4	2524.7
47.5°	7271.1	2525.7	2192.6	2305.3	2363.7
50°	6307.1	2243.9	1981.3	2125.2	2191.6
52.5°	5296.8	1983.3	1775.0	1940.0	1993.4
55°	4318.8	1748.8	1581.8	1715.6	1777.0
57.5°	3433.3	1525.5	1392.6	1519.4	1646.2
60°	2671.6	1333.3	1214.5	1395.7	1522.4
62.5°	2040.7	1162.2	1047.5	1279.9	1406.7
65°	1544.6	1014.3	915.7	1173.3	1304.1
67.5°	1164.2	886.5	813.0	1095.8	1223.6
70°	874.4	762.7	730.5	1047.5	1162.2
72.5°	646.0	649.0	665.1	1005.2	1092.8
75°	477.0	546.4	614.8	954.9	1012.3
77.5°	341.1	452.8	569.5	894.5	914.7
80°	236.5	369.3	522.2	815.1	797.9
82.5°	147.9	295.8	480.0	727.5	680.2
85°	83.5	226.4	449.8	625.9	574.6
87.5°	37.2	169.0	393.4	488.0	455.8
90°	0.0	94.6	260.6	367.3	370.3
92.5°	2.0	78.5	240.5	336.1	346.1
95°	4.0	66.4	229.4	311.9	326.0
97.5°	5.0	58.4	215.3	289.8	301.9
100°	6.0	52.3	198.2	266.7	276.7
102.5°	7.0	48.3	182.1	242.5	250.6
105°	8.0	44.3	167.0	221.4	227.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.1	34.2	125.8	159.0	164.0
115°	11.1	31.2	112.7	140.9	143.9
117.5°	12.1	27.2	98.6	123.8	124.8
120°	12.1	24.1	84.5	105.7	105.7
122.5°	12.1	20.1	70.4	87.5	86.5
125°	12.1	16.1	57.4	72.4	71.4
127.5°	11.1	13.1	46.3	60.4	59.4
130°	11.1	13.1	37.2	51.3	51.3
132.5°	10.1	12.1	30.2	44.3	44.3
135°	10.1	12.1	25.2	39.2	39.2
137.5°	10.1	13.1	21.1	34.2	34.2
140°	10.1	12.1	18.1	30.2	30.2
142.5°	11.1	12.1	16.1	26.2	26.2
145°	12.1	13.1	15.1	23.1	22.1
147.5°	12.1	14.1	15.1	20.1	19.1
150°	12.1	15.1	15.1	18.1	17.1
152.5°	12.1	15.1	15.1	17.1	16.1
155°	12.1	15.1	16.1	17.1	15.1
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°	8.0	41.3	152.9	198.2	205.3
110°	9.1	37.2	139.9	177.1	184.1



(END OF REPORT)