

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: P829901

Luminaire Tested: **OHBL-18HE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-MFL-UNV-L740-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

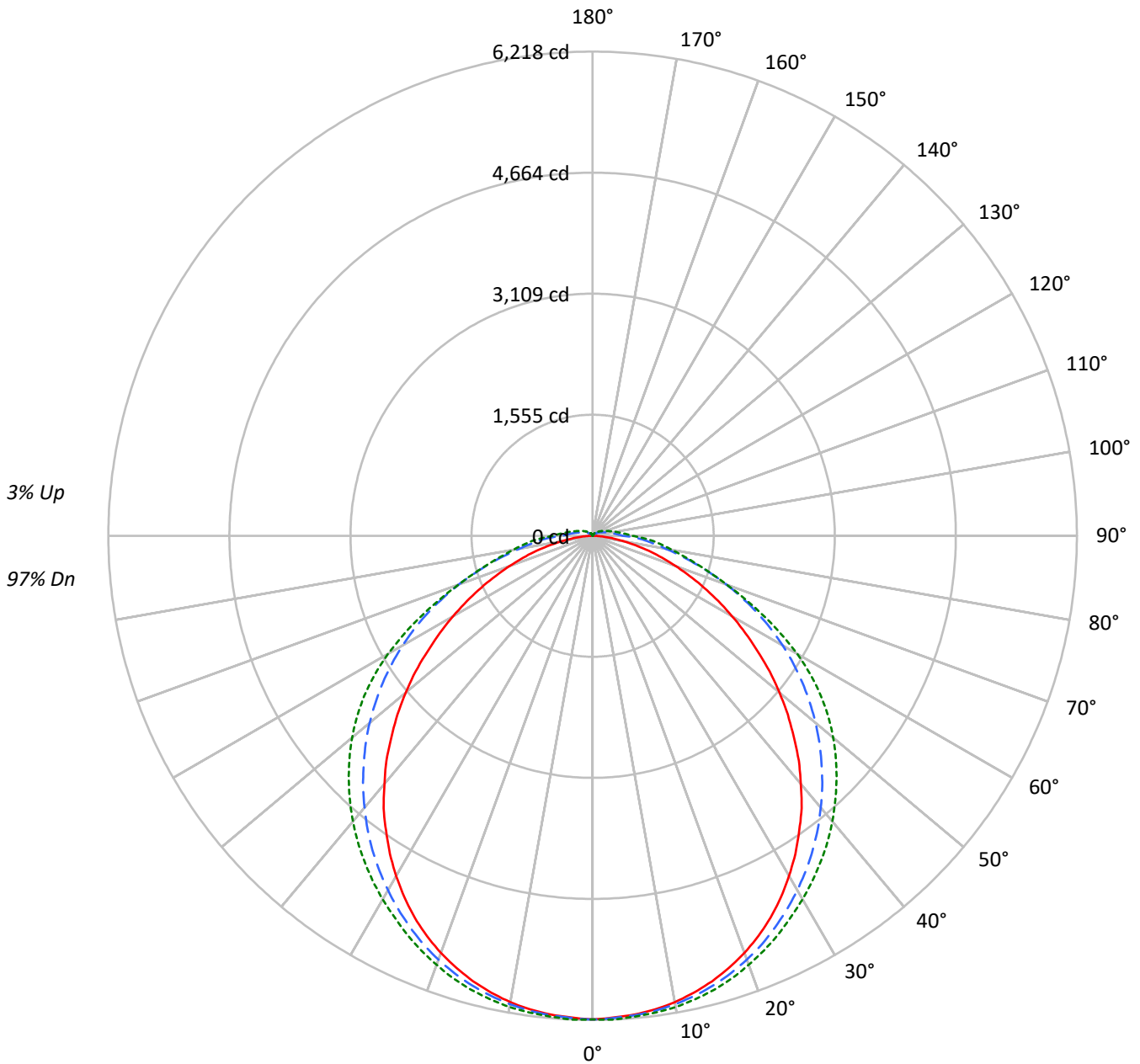
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18592.0 lumens  
Efficiency: N/A  
Efficacy: 180.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	99	97																
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80																
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66																
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56																
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47																
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41																
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36																
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32																
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28																
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25																
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23																

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

	0°	45°	90°
0°	10610	10610	10610
5°	10542	10505	10535
10°	10468	10408	10473
15°	10352	10292	10394
20°	10196	10152	10281
25°	9989	9978	10167
30°	9702	9790	10052
35°	9354	9590	9951
40°	8937	9359	9851
45°	8445	9108	9725
50°	7907	8855	9573
55°	7245	8545	9321
60°	6567	8180	8831
65°	5827	7715	8034
70°	5025	7124	7171
75°	4213	6440	6575
80°	3194	5932	6479
85°	2021	6111	7146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.6	3.2
10°-20°	1688.7	9.1
20°-30°	2553.9	13.7
30°-40°	3066.0	16.5
40°-50°	3166.6	17.0
50°-60°	2849.0	15.3
60°-70°	2146.1	11.5
70°-80°	1295.9	7.0
80°-90°	633.8	3.4
90°-100°	266.8	1.4
100°-110°	152.3	0.8
110°-120°	89.4	0.5
120°-130°	50.6	0.3
130°-140°	26.6	0.1
140°-150°	12.9	0.1
150°-160°	4.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4831.2	26.0
0°-40°	7897.2	42.5
0°-60°	13912.8	74.8
0°-90°	17988.6	96.8
90°-120°	508.5	2.7
90°-150°	598.6	3.2
90°-180°	603.0	3.2
0°-180°	18592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6212	6212	6212	6212	6212	
5°	6173	6189	6182	6206	6198	586
15°	5923	5952	5980	6030	6036	1670
25°	5409	5469	5546	5633	5647	2488
35°	4625	4733	4928	5076	5107	2891
45°	3650	3834	4155	4382	4429	2818
55°	2586	2854	3287	3535	3577	2319
65°	1578	1900	2326	2442	2414	1568
75°	744	1067	1347	1382	1368	793
85°	155	409	675	768	782	179
90°	0	160	386	486	506	10
95°	8	108	289	368	382	6
105°	11	62	167	219	228	11
115°	12	35	103	138	144	12
125°	12	17	62	90	94	11
135°	11	14	32	55	61	8
145°	15	14	15	27	32	9
155°	15	17	15	14	15	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829901

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6212.2	6212.2	6212.2	6212.2	6212.2
2.5°	6193.9	6209.1	6200.0	6219.8	6218.3
5°	6172.6	6189.4	6181.8	6206.1	6198.5
7.5°	6136.2	6154.4	6152.9	6180.3	6177.2
10°	6082.9	6102.7	6108.8	6145.3	6145.3
12.5°	6010.0	6035.8	6051.0	6095.1	6096.6
15°	5923.3	5952.2	5979.6	6029.7	6035.8
17.5°	5818.4	5854.9	5892.9	5950.7	5958.3
20°	5699.8	5740.9	5792.6	5853.4	5862.5
22.5°	5563.0	5611.6	5678.5	5750.0	5760.6
25°	5409.4	5468.7	5546.3	5632.9	5646.6
27.5°	5234.6	5303.0	5407.9	5505.2	5517.4
30°	5044.5	5125.1	5255.9	5371.4	5391.2
32.5°	4843.9	4936.6	5097.8	5227.0	5254.4
35°	4624.9	4732.9	4927.5	5076.5	5106.9
37.5°	4409.0	4527.6	4748.1	4918.4	4954.8
40°	4156.7	4304.1	4556.5	4745.0	4789.1
42.5°	3919.5	4079.1	4364.9	4570.2	4612.8
45°	3650.4	3834.3	4155.1	4381.7	4428.8
47.5°	3398.0	3597.2	3952.9	4187.1	4235.7
50°	3131.9	3350.9	3737.0	3981.8	4032.0
52.5°	2865.9	3101.5	3513.5	3767.4	3814.6
55°	2586.1	2853.7	3287.0	3534.8	3577.4
57.5°	2326.1	2608.9	3054.4	3290.1	3315.9
60°	2069.2	2362.6	2817.2	3024.0	3033.1
62.5°	1818.3	2127.0	2574.0	2738.2	2726.0
65°	1578.1	1900.4	2326.1	2441.7	2414.3
67.5°	1347.0	1680.0	2072.2	2146.7	2110.3
70°	1128.1	1465.6	1825.9	1864.0	1830.5
72.5°	935.0	1261.9	1576.6	1608.5	1584.2
75°	743.5	1067.3	1347.0	1382.0	1368.3
77.5°	564.1	878.8	1135.7	1181.3	1184.4
80°	405.9	707.0	951.7	1023.2	1032.3
82.5°	267.6	548.8	798.2	889.4	903.1
85°	155.1	409.0	675.0	767.8	781.5
87.5°	66.9	294.9	542.8	626.4	643.1
90°	0.0	159.6	386.2	486.5	506.3
92.5°	4.6	132.3	331.4	422.7	439.4
95°	7.6	107.9	288.9	367.9	381.6
97.5°	9.1	91.2	250.9	320.8	334.5
100°	9.1	79.1	217.4	281.3	293.4
102.5°	9.1	69.9	190.0	246.3	256.9
105°	10.6	62.3	167.2	218.9	228.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	41.0	115.5	155.1	161.2
115°	12.2	35.0	103.4	138.4	144.4
117.5°	13.7	30.4	91.2	124.7	129.2
120°	13.7	25.8	80.6	111.0	117.1
122.5°	13.7	21.3	71.5	100.3	104.9
125°	12.2	16.7	62.3	89.7	94.3
127.5°	10.6	13.7	53.2	80.6	85.1
130°	10.6	12.2	45.6	71.5	76.0
132.5°	10.6	13.7	38.0	62.3	68.4
135°	10.6	13.7	31.9	54.7	60.8
137.5°	10.6	13.7	25.8	47.1	53.2
140°	12.2	13.7	21.3	39.5	45.6
142.5°	13.7	13.7	16.7	33.4	38.0
145°	15.2	13.7	15.2	27.4	31.9
147.5°	15.2	15.2	15.2	21.3	25.8
150°	15.2	16.7	15.2	16.7	21.3
152.5°	15.2	16.7	15.2	13.7	16.7
155°	15.2	16.7	15.2	13.7	15.2
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°	10.6	54.7	147.5	194.6	202.2
110°	10.6	48.7	130.8	173.3	180.9



(END OF REPORT)