

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: P830059

Luminaire Tested: **OHBL-24HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830059  
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-24HE-N-UNV-L830-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

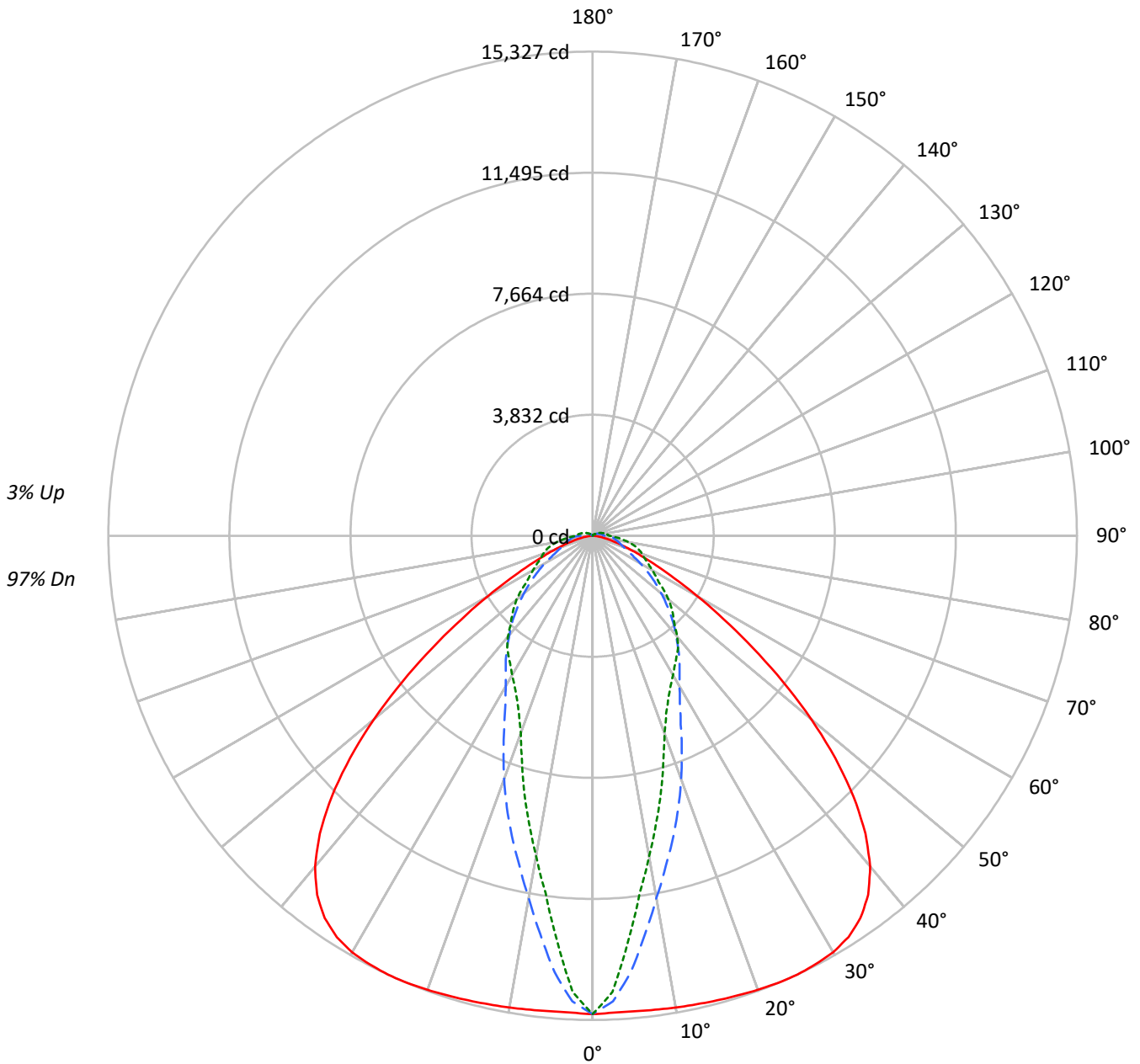
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22347.0 lumens  
Efficiency: N/A  
Efficacy: 168.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 133  
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°	23946	23946	23946
5°	23897	21816	20288
10°	24166	18385	16278
15°	24638	15731	13369
20°	25331	13307	10821
25°	26207	11020	9488
30°	27113	9499	8820
35°	27677	8662	8410
40°	27203	7829	7986
45°	25026	7080	7401
50°	21114	6260	6954
55°	16044	5489	6197
60°	11243	4713	5943
65°	7563	4065	5831
70°	5165	3822	6135
75°	3584	3954	6583
80°	2468	4400	6824
85°	1443	5554	7253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1274.6	5.7
10°-20°	2998.4	13.4
20°-30°	3758.4	16.8
30°-40°	3988.1	17.8
40°-50°	3605.9	16.1
50°-60°	2614.5	11.7
60°-70°	1640.7	7.3
70°-80°	1085.8	4.9
80°-90°	625.5	2.8
90°-100°	303.0	1.4
100°-110°	209.2	0.9
110°-120°	129.1	0.6
120°-130°	62.5	0.3
130°-140°	28.7	0.1
140°-150°	15.7	0.1
150°-160°	6.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8031.4	35.9
0°-40°	12019.5	53.8
0°-60°	18239.9	81.6
0°-90°	21591.9	96.6
90°-120°	641.3	2.9
90°-150°	748.2	3.3
90°-180°	755.0	3.4
0°-180°	22347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15141	15141	15141	15141	15141	
5°	15111	14723	13859	13216	12883	###
15°	15226	12410	9857	8766	8368	4318
25°	15327	9596	6600	5858	5672	7081
35°	14778	6380	4790	4640	4639	9187
45°	11683	4041	3472	3555	3616	8900
55°	6185	2505	2265	2457	2545	5588
65°	2212	1453	1311	1680	1868	2302
75°	683	782	880	1368	1450	761
85°	120	324	644	896	823	143
90°	0	136	373	526	530	8
95°	6	95	329	447	467	5
105°	12	63	239	317	326	12
115°	16	45	161	202	206	16
125°	17	23	82	104	102	15
135°	14	17	36	56	56	11
145°	17	19	22	33	32	10
155°	17	22	23	24	22	5
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°	15141.3	15141.3	15141.3	15141.3	15141.3
2.5°	15109.6	15023.1	14753.6	14589.4	14451.0
5°	15111.0	14723.4	13858.7	13216.0	12883.1
7.5°	15132.6	14270.9	12713.1	11775.0	11408.9
10°	15165.8	13710.3	11643.8	10643.7	10302.2
12.5°	15190.3	13079.1	10702.8	9675.3	9300.6
15°	15226.3	12410.5	9856.9	8766.0	8368.3
17.5°	15259.5	11780.7	9021.1	7881.2	7438.8
20°	15292.6	11102.0	8185.3	7010.8	6646.2
22.5°	15324.3	10385.8	7369.6	6334.9	6085.6
25°	15327.2	9596.1	6600.1	5857.9	5672.0
27.5°	15289.7	8777.5	5976.1	5458.8	5343.5
30°	15224.9	7983.5	5491.9	5170.5	5088.4
32.5°	15063.5	7173.6	5117.2	4892.4	4844.9
35°	14778.1	6379.6	4790.1	4640.2	4638.8
37.5°	14328.5	5674.9	4435.6	4409.7	4441.4
40°	13664.2	5058.1	4099.8	4169.0	4169.0
42.5°	12777.9	4522.1	3795.8	3866.4	3847.6
45°	11682.7	4040.8	3471.5	3555.1	3615.6
47.5°	10413.1	3617.1	3140.1	3301.5	3385.1
50°	9032.6	3213.6	2837.5	3043.5	3138.6
52.5°	7585.8	2840.3	2542.0	2778.4	2854.8
55°	6185.1	2504.6	2265.4	2457.0	2544.9
57.5°	4916.9	2184.7	1994.4	2176.0	2357.6
60°	3826.0	1909.4	1739.4	1998.8	2180.3
62.5°	2922.5	1664.4	1500.2	1833.0	2014.6
65°	2212.0	1452.6	1311.4	1680.3	1867.6
67.5°	1667.3	1269.6	1164.4	1569.3	1752.3
70°	1252.3	1092.3	1046.2	1500.2	1664.4
72.5°	925.2	929.5	952.5	1439.6	1565.0
75°	683.1	782.5	880.5	1367.6	1449.7
77.5°	488.5	648.5	815.6	1281.1	1309.9
80°	338.7	528.9	747.9	1167.3	1142.8
82.5°	211.8	423.7	687.4	1041.9	974.2
85°	119.6	324.2	644.2	896.3	822.8
87.5°	53.3	242.1	563.5	698.9	652.8
90°	0.0	135.5	373.2	526.0	530.3
92.5°	2.9	112.4	344.4	481.3	495.7
95°	5.8	95.1	328.6	446.7	466.9
97.5°	7.2	83.6	308.4	415.0	432.3
100°	8.6	74.9	283.9	381.9	396.3
102.5°	10.1	69.2	260.8	347.3	358.8
105°	11.5	63.4	239.2	317.0	325.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.4	49.0	180.1	227.7	234.9
115°	15.9	44.7	161.4	201.7	206.1
117.5°	17.3	38.9	141.2	177.3	178.7
120°	17.3	34.6	121.0	151.3	151.3
122.5°	17.3	28.8	100.9	125.4	123.9
125°	17.3	23.1	82.1	103.8	102.3
127.5°	15.9	18.7	66.3	86.5	85.0
130°	15.9	18.7	53.3	73.5	73.5
132.5°	14.4	17.3	43.2	63.4	63.4
135°	14.4	17.3	36.0	56.2	56.2
137.5°	14.4	18.7	30.3	49.0	49.0
140°	14.4	17.3	25.9	43.2	43.2
142.5°	15.9	17.3	23.1	37.5	37.5
145°	17.3	18.7	21.6	33.1	31.7
147.5°	17.3	20.2	21.6	28.8	27.4
150°	17.3	21.6	21.6	25.9	24.5
152.5°	17.3	21.6	21.6	24.5	23.1
155°	17.3	21.6	23.1	24.5	21.6
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°	11.5	59.1	219.0	283.9	294.0
110°	13.0	53.3	200.3	253.6	263.7



(END OF REPORT)