

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: P830051

Luminaire Tested: **OHBL-24HE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830051  
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-24HE-MFL-UNV-L930-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

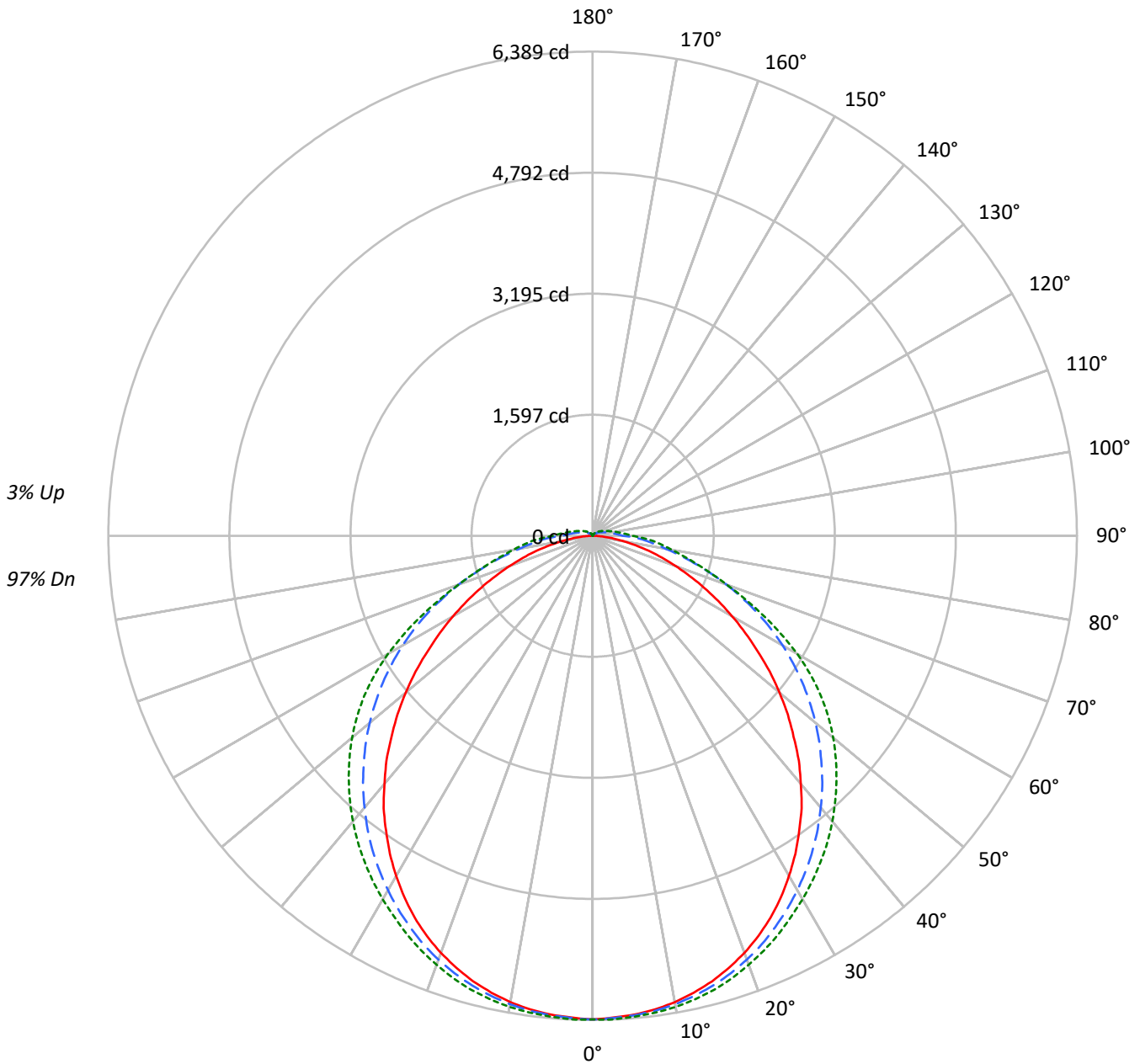
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19102.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	10094	10094	10094
5°	10029	9998	10029
10°	9959	9910	9976
15°	9848	9805	9907
20°	9700	9676	9806
25°	9503	9515	9704
30°	9230	9340	9602
35°	8899	9154	9513
40°	8502	8940	9426
45°	8034	8706	9314
50°	7522	8471	9179
55°	6892	8182	8950
60°	6247	7842	8494
65°	5543	7408	7745
70°	4781	6854	6932
75°	4008	6215	6384
80°	3039	5753	6333
85°	1922	5979	7077



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.8	3.2
10°-20°	1735.0	9.1
20°-30°	2623.9	13.7
30°-40°	3150.1	16.5
40°-50°	3253.5	17.0
50°-60°	2927.1	15.3
60°-70°	2205.0	11.5
70°-80°	1331.4	7.0
80°-90°	651.2	3.4
90°-100°	274.1	1.4
100°-110°	156.5	0.8
110°-120°	91.8	0.5
120°-130°	52.0	0.3
130°-140°	27.4	0.1
140°-150°	13.3	0.1
150°-160°	4.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4963.8	26.0
0°-40°	8113.8	42.5
0°-60°	14294.5	74.8
0°-90°	18482.1	96.8
90°-120°	522.4	2.7
90°-150°	615.0	3.2
90°-180°	620.0	3.2
0°-180°	19102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6383	6383	6383	6383	6383	
5°	6342	6359	6351	6376	6368	602
15°	6086	6116	6144	6195	6201	1716
25°	5558	5619	5698	5787	5802	2556
35°	4752	4863	5063	5216	5247	2971
45°	3750	3940	4269	4502	4550	2895
55°	2657	2932	3377	3632	3676	2382
65°	1621	1953	2390	2509	2481	1611
75°	764	1097	1384	1420	1406	815
85°	159	420	694	789	803	184
90°	0	164	397	500	520	10
95°	8	111	297	378	392	7
105°	11	64	172	225	234	11
115°	12	36	106	142	148	13
125°	12	17	64	92	97	11
135°	11	14	33	56	62	9
145°	16	14	16	28	33	9
155°	16	17	16	14	16	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830051

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6382.6	6382.6	6382.6	6382.6	6382.6
2.5°	6363.8	6379.5	6370.1	6390.4	6388.8
5°	6342.0	6359.2	6351.3	6376.3	6368.5
7.5°	6304.5	6323.2	6321.7	6349.8	6346.7
10°	6249.8	6270.1	6276.4	6313.9	6313.9
12.5°	6174.8	6201.4	6217.0	6262.3	6263.9
15°	6085.8	6115.5	6143.6	6195.1	6201.4
17.5°	5978.0	6015.5	6054.6	6113.9	6121.7
20°	5856.2	5898.3	5951.5	6013.9	6023.3
22.5°	5715.6	5765.6	5834.3	5907.7	5918.7
25°	5557.8	5618.7	5698.4	5787.4	5801.5
27.5°	5378.2	5448.5	5556.3	5656.2	5668.7
30°	5182.9	5265.7	5400.0	5518.8	5539.1
32.5°	4976.7	5072.0	5237.6	5370.4	5398.5
35°	4751.8	4862.7	5062.6	5215.7	5247.0
37.5°	4530.0	4651.8	4878.3	5053.3	5090.8
40°	4270.7	4422.2	4681.5	4875.2	4920.5
42.5°	4027.0	4191.0	4484.7	4695.6	4739.3
45°	3750.5	3939.5	4269.1	4501.9	4550.3
47.5°	3491.2	3695.8	4061.4	4301.9	4351.9
50°	3217.8	3442.8	3839.5	4091.0	4142.6
52.5°	2944.5	3186.6	3609.9	3870.8	3919.2
55°	2657.1	2932.0	3377.2	3631.8	3675.5
57.5°	2390.0	2680.5	3138.2	3380.3	3406.9
60°	2126.0	2427.4	2894.5	3106.9	3116.3
62.5°	1868.2	2185.3	2644.6	2813.3	2800.8
65°	1621.4	1952.6	2390.0	2508.7	2480.6
67.5°	1384.0	1726.1	2129.1	2205.6	2168.1
70°	1159.1	1505.8	1876.0	1915.1	1880.7
72.5°	960.7	1296.5	1619.9	1652.7	1627.7
75°	763.8	1096.6	1384.0	1419.9	1405.9
77.5°	579.5	902.9	1166.9	1213.7	1216.8
80°	417.1	726.4	977.9	1051.3	1060.6
82.5°	274.9	563.9	820.1	913.8	927.9
85°	159.3	420.2	693.6	788.8	802.9
87.5°	68.7	303.0	557.7	643.6	660.8
90°	0.0	164.0	396.8	499.9	520.2
92.5°	4.7	135.9	340.5	434.3	451.4
95°	7.8	110.9	296.8	378.0	392.1
97.5°	9.4	93.7	257.7	329.6	343.7
100°	9.4	81.2	223.4	289.0	301.5
102.5°	9.4	71.9	195.3	253.1	264.0
105°	10.9	64.0	171.8	224.9	234.3



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CATALOG NUMBER: OHBL-24HE-MFL-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.5	42.2	118.7	159.3	165.6
115°	12.5	35.9	106.2	142.1	148.4
117.5°	14.1	31.2	93.7	128.1	132.8
120°	14.1	26.6	82.8	114.0	120.3
122.5°	14.1	21.9	73.4	103.1	107.8
125°	12.5	17.2	64.0	92.2	96.8
127.5°	10.9	14.1	54.7	82.8	87.5
130°	10.9	12.5	46.9	73.4	78.1
132.5°	10.9	14.1	39.1	64.0	70.3
135°	10.9	14.1	32.8	56.2	62.5
137.5°	10.9	14.1	26.6	48.4	54.7
140°	12.5	14.1	21.9	40.6	46.9
142.5°	14.1	14.1	17.2	34.4	39.1
145°	15.6	14.1	15.6	28.1	32.8
147.5°	15.6	15.6	15.6	21.9	26.6
150°	15.6	17.2	15.6	17.2	21.9
152.5°	15.6	17.2	15.6	14.1	17.2
155°	15.6	17.2	15.6	14.1	15.6
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°	10.9	56.2	151.5	199.9	207.8
110°	10.9	50.0	134.3	178.1	185.9



(END OF REPORT)