

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: P830062

Luminaire Tested: **OHBL-24HE-N-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830062  
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-L850-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

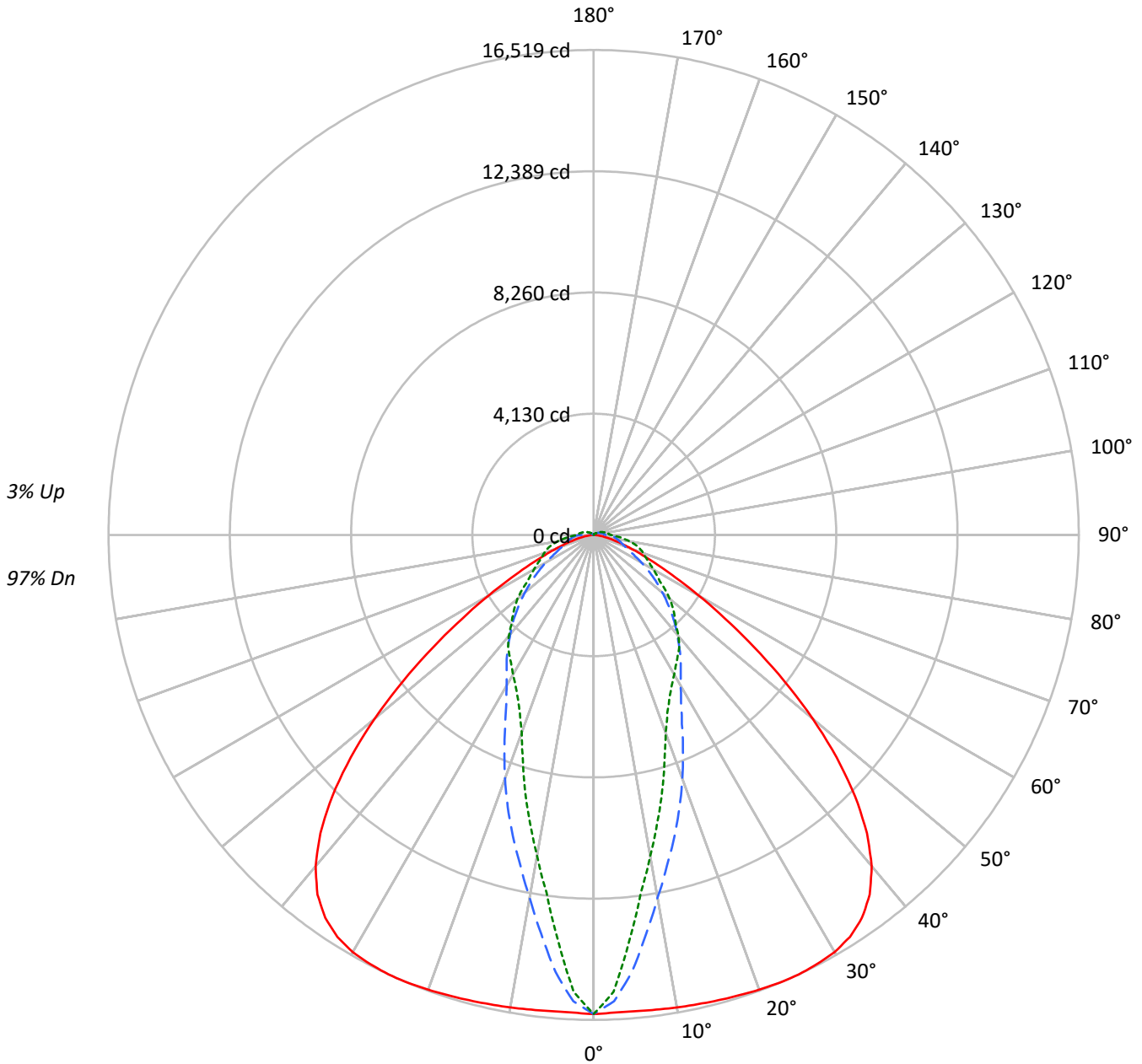
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24085.0 lumens  
Efficiency: N/A  
Efficacy: 181.1 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

TEST NUMBER: P830062  
CATALOG NUMBER: OHBL-24HE-N-UNV-L850-CD

### 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°	25808	25808	25808
5°	25755	23513	21866
10°	26046	19815	17544
15°	26555	16954	14409
20°	27301	14342	11662
25°	28245	11877	10226
30°	29221	10238	9506
35°	29829	9335	9065
40°	29319	8438	8607
45°	26972	7630	7977
50°	22756	6747	7495
55°	17291	5915	6679
60°	12117	5079	6405
65°	8151	4381	6284
70°	5567	4120	6612
75°	3863	4261	7095
80°	2659	4742	7354
85°	1555	5985	7817



TEST NUMBER: P830062

CATALOG NUMBER: OHBL-24HE-N-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1373.7	5.7
10°-20°	3231.6	13.4
20°-30°	4050.7	16.8
30°-40°	4298.3	17.8
40°-50°	3886.3	16.1
50°-60°	2817.8	11.7
60°-70°	1768.3	7.3
70°-80°	1170.2	4.9
80°-90°	674.2	2.8
90°-100°	326.6	1.4
100°-110°	225.4	0.9
110°-120°	139.1	0.6
120°-130°	67.4	0.3
130°-140°	31.0	0.1
140°-150°	16.9	0.1
150°-160°	7.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8656.0	35.9
0°-40°	12954.3	53.8
0°-60°	19658.4	81.6
0°-90°	23271.2	96.6
90°-120°	691.2	2.9
90°-150°	806.4	3.3
90°-180°	814.0	3.4
0°-180°	24085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16319	16319	16319	16319	16319	
5°	16286	15868	14937	14244	13885	###
15°	16410	13376	10624	9448	9019	4654
25°	16519	10342	7113	6314	6113	7632
35°	15928	6876	5163	5001	5000	9901
45°	12591	4355	3742	3832	3897	9592
55°	6666	2699	2442	2648	2743	6023
65°	2384	1566	1413	1811	2013	2481
75°	736	843	949	1474	1562	821
85°	129	350	694	966	887	155
90°	0	146	402	567	572	8
95°	6	102	354	482	503	5
105°	12	68	258	342	351	13
115°	17	48	174	217	222	17
125°	19	25	88	112	110	16
135°	16	19	39	61	61	12
145°	19	20	23	36	34	11
155°	19	23	25	26	23	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-24HE-N-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16318.9	16318.9	16318.9	16318.9	16318.9
2.5°	16284.7	16191.5	15901.1	15724.0	15574.9
5°	16286.3	15868.5	14936.6	14243.9	13885.1
7.5°	16309.6	15380.8	13701.8	12690.7	12296.2
10°	16345.3	14776.6	12549.4	11471.5	11103.4
12.5°	16371.7	14096.3	11535.2	10427.8	10024.0
15°	16410.5	13375.7	10623.5	9447.8	9019.1
17.5°	16446.2	12696.9	9722.7	8494.1	8017.3
20°	16482.0	11965.4	8821.9	7556.0	7163.1
22.5°	16516.1	11193.5	7942.8	6827.6	6558.9
25°	16519.2	10342.4	7113.4	6313.5	6113.2
27.5°	16478.8	9460.2	6440.9	5883.3	5759.1
30°	16409.0	8604.4	5919.0	5572.7	5484.1
32.5°	16235.0	7731.5	5515.2	5272.9	5221.7
35°	15927.5	6875.8	5162.6	5001.1	4999.6
37.5°	15442.9	6116.3	4780.6	4752.6	4786.8
40°	14726.9	5451.5	4418.7	4493.2	4493.2
42.5°	13771.7	4873.8	4091.0	4167.1	4146.9
45°	12591.3	4355.0	3741.5	3831.6	3896.8
47.5°	11223.0	3898.4	3384.3	3558.3	3648.3
50°	9735.1	3463.5	3058.1	3280.2	3382.7
52.5°	8175.7	3061.2	2739.7	2994.5	3076.8
55°	6666.1	2699.4	2441.5	2648.1	2742.9
57.5°	5299.3	2354.6	2149.5	2345.2	2540.9
60°	4123.6	2057.9	1874.6	2154.2	2349.9
62.5°	3149.8	1793.9	1616.8	1975.6	2171.3
65°	2384.1	1565.6	1413.4	1811.0	2012.9
67.5°	1797.0	1368.3	1254.9	1691.4	1888.6
70°	1349.7	1177.3	1127.6	1616.8	1793.9
72.5°	997.1	1001.8	1026.6	1551.6	1686.7
75°	736.2	843.4	949.0	1473.9	1562.5
77.5°	526.5	698.9	879.1	1380.7	1411.8
80°	365.0	570.0	806.1	1258.0	1231.6
82.5°	228.3	456.6	740.8	1122.9	1049.9
85°	128.9	349.5	694.3	966.1	886.8
87.5°	57.5	260.9	607.3	753.3	703.6
90°	0.0	146.0	402.3	566.9	571.6
92.5°	3.1	121.1	371.2	518.7	534.3
95°	6.2	102.5	354.1	481.5	503.2
97.5°	7.8	90.1	332.4	447.3	465.9
100°	9.3	80.8	306.0	411.6	427.1
102.5°	10.9	74.6	281.1	374.3	386.7
105°	12.4	68.3	257.8	341.7	351.0



TEST NUMBER: P830062

CATALOG NUMBER: OHBL-24HE-N-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.5	52.8	194.1	245.4	253.2
115°	17.1	48.1	174.0	217.4	222.1
117.5°	18.6	41.9	152.2	191.0	192.6
120°	18.6	37.3	130.5	163.1	163.1
122.5°	18.6	31.1	108.7	135.1	133.6
125°	18.6	24.9	88.5	111.8	110.3
127.5°	17.1	20.2	71.4	93.2	91.6
130°	17.1	20.2	57.5	79.2	79.2
132.5°	15.5	18.6	46.6	68.3	68.3
135°	15.5	18.6	38.8	60.6	60.6
137.5°	15.5	20.2	32.6	52.8	52.8
140°	15.5	18.6	28.0	46.6	46.6
142.5°	17.1	18.6	24.9	40.4	40.4
145°	18.6	20.2	23.3	35.7	34.2
147.5°	18.6	21.7	23.3	31.1	29.5
150°	18.6	23.3	23.3	28.0	26.4
152.5°	18.6	23.3	23.3	26.4	24.9
155°	18.6	23.3	24.9	26.4	23.3
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°	12.4	63.7	236.1	306.0	316.8
110°	14.0	57.5	215.9	273.4	284.2



(END OF REPORT)