

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: P829739

Luminaire Tested: **OHBL-12SE-A-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-A-UNV-L930-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

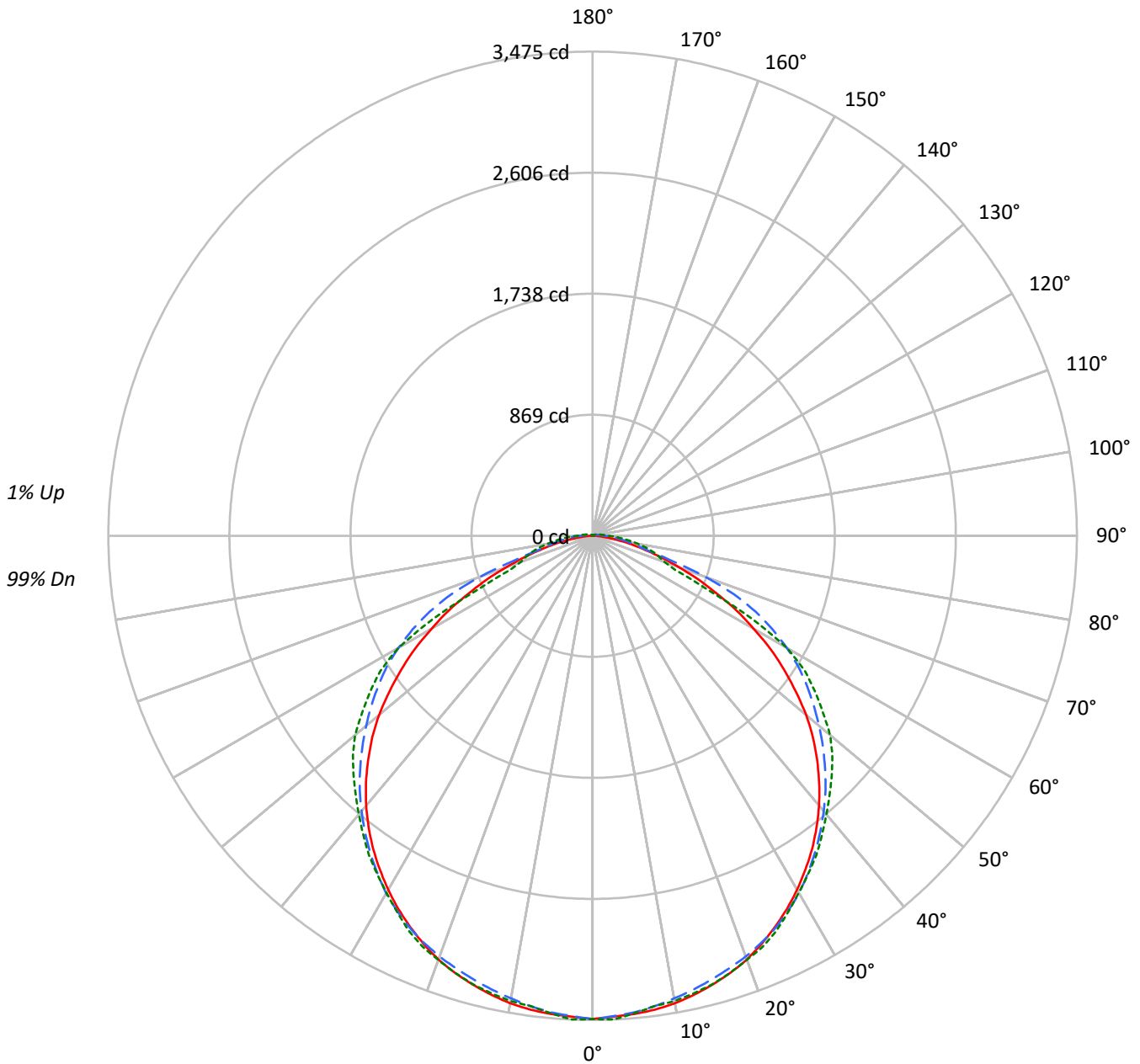
Lumens per Lamp: N/A  
Luminaire Lumens: 9803.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70  
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	11283	11283	11283
5°	11210	11053	11049
10°	11169	10821	10835
15°	11098	10633	10672
20°	11027	10491	10487
25°	10894	10346	10302
30°	10749	10156	10012
35°	10576	9891	9806
40°	10351	9617	9556
45°	10040	9307	9376
50°	9617	8960	9172
55°	8946	8608	8685
60°	8067	8129	7871
65°	6920	7335	4865
70°	5574	5590	3413
75°	4179	3208	3308
80°	2909	2532	2945
85°	1656	2114	2439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.0	3.3
10°-20°	937.8	9.6
20°-30°	1432.3	14.6
30°-40°	1737.8	17.7
40°-50°	1821.4	18.6
50°-60°	1650.5	16.8
60°-70°	1106.6	11.3
70°-80°	496.9	5.1
80°-90°	180.3	1.8
90°-100°	54.3	0.6
100°-110°	25.6	0.3
110°-120°	12.8	0.1
120°-130°	7.1	0.1
130°-140°	4.9	0.0
140°-150°	3.3	0.0
150°-160°	2.4	0.0
160°-170°	1.6	0.0
170°-180°	0.5	0.0
0°-30°	2697.1	27.5
0°-40°	4434.9	45.2
0°-60°	7906.8	80.7
0°-90°	9690.6	98.9
90°-120°	92.7	0.9
90°-150°	107.9	1.1
90°-180°	112.0	1.1
0°-180°	9803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3468	3468	3468	3468	3468	
5°	3446	3458	3434	3444	3440	328
15°	3334	3321	3297	3326	3330	941
25°	3097	3084	3105	3134	3125	1428
35°	2745	2752	2780	2809	2798	1716
45°	2278	2315	2358	2419	2426	1755
55°	1676	1757	1877	1952	1948	1496
65°	984	1138	1292	1090	890	980
75°	387	562	413	423	450	423
85°	67	128	164	198	208	81
90°	0	43	85	106	111	4
95°	0	27	58	71	73	1
105°	2	12	29	35	36	2
115°	4	6	14	19	20	4
125°	4	4	9	10	11	3
135°	4	5	6	8	8	4
145°	4	5	5	6	6	3
155°	5	6	6	6	5	2
165°	6	6	6	6	6	2
175°	6	6	5	4	4	1
180°	5	5	5	5	5	



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CATALOG NUMBER: OHBL-12SE-A-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3468.3	3468.3	3468.3	3468.3	3468.3
2.5°	3454.3	3468.8	3450.8	3470.3	3475.3
5°	3445.7	3457.8	3433.7	3444.2	3439.7
7.5°	3430.2	3434.2	3405.6	3414.1	3405.1
10°	3407.1	3405.1	3371.5	3388.1	3390.1
12.5°	3373.0	3367.0	3336.9	3362.0	3362.5
15°	3333.9	3320.9	3297.3	3326.4	3330.4
17.5°	3288.8	3271.7	3256.2	3293.8	3287.8
20°	3236.1	3216.1	3213.1	3254.2	3239.1
22.5°	3170.9	3155.4	3162.4	3201.5	3192.0
25°	3097.2	3083.7	3105.2	3133.8	3124.8
27.5°	3019.5	3011.5	3036.0	3058.1	3040.5
30°	2934.2	2929.7	2962.3	2980.4	2958.3
32.5°	2841.4	2843.0	2874.0	2898.6	2878.1
35°	2745.2	2751.7	2779.8	2809.4	2798.3
37.5°	2639.3	2653.9	2682.0	2715.6	2704.0
40°	2527.5	2548.6	2579.7	2620.3	2609.8
42.5°	2406.7	2433.2	2473.4	2518.5	2517.5
45°	2278.3	2315.4	2358.5	2418.7	2426.2
47.5°	2144.9	2186.5	2241.2	2321.4	2332.9
50°	1999.9	2052.1	2120.3	2216.6	2223.6
52.5°	1838.5	1909.7	1999.9	2092.2	2083.7
55°	1676.5	1757.2	1877.1	1952.3	1947.8
57.5°	1515.0	1605.8	1751.2	1804.9	1804.4
60°	1334.5	1449.3	1608.3	1648.9	1608.8
62.5°	1167.5	1290.8	1455.8	1426.2	1288.8
65°	983.9	1137.9	1291.8	1090.2	890.1
67.5°	820.9	981.4	1097.3	746.7	639.4
70°	657.0	834.0	855.5	554.1	546.6
72.5°	511.5	700.1	590.3	474.4	498.5
75°	387.2	561.7	413.2	422.8	450.3
77.5°	282.3	431.3	321.5	370.6	393.2
80°	194.1	305.4	262.3	311.4	327.0
82.5°	121.9	201.6	210.1	250.7	266.8
85°	66.7	127.9	164.0	198.1	207.6
87.5°	27.6	77.2	125.4	153.0	161.0
90°	0.5	42.6	84.8	106.3	111.3
92.5°	0.5	32.6	69.2	85.8	89.3
95°	0.5	26.6	58.2	70.7	72.7
97.5°	1.0	21.1	48.6	58.7	60.7
100°	1.5	17.6	40.6	49.1	50.7
102.5°	2.0	14.0	34.1	41.1	42.6
105°	2.0	11.5	28.6	34.6	36.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	7.0	17.1	21.6	22.6
115°	4.0	6.0	14.5	18.6	19.6
117.5°	4.0	5.0	12.5	15.5	16.5
120°	4.0	4.5	11.0	13.5	14.0
122.5°	4.0	4.0	9.5	12.0	12.5
125°	3.5	4.0	9.0	10.5	11.0
127.5°	4.0	4.0	8.0	9.5	10.0
130°	4.0	4.5	7.0	9.0	9.0
132.5°	4.5	5.0	6.5	8.5	8.5
135°	4.5	5.0	5.5	8.0	8.5
137.5°	5.0	5.0	5.0	7.5	8.0
140°	5.0	5.0	4.5	6.5	7.0
142.5°	4.5	5.0	4.5	6.0	6.5
145°	4.5	5.0	5.0	5.5	6.0
147.5°	5.0	5.0	5.0	5.0	5.5
150°	5.0	5.0	5.0	5.0	5.0
152.5°	5.0	5.0	5.0	5.0	5.0
155°	5.0	5.5	5.5	5.5	5.0
157.5°	5.0	5.5	5.5	5.5	5.5
160°	5.0	5.5	5.5	5.5	5.5
162.5°	5.5	5.5	5.5	5.5	5.5
165°	5.5	5.5	5.5	5.5	5.5
167.5°	5.5	6.0	5.5	5.5	5.5
170°	5.5	5.5	5.5	5.0	5.0
172.5°	5.5	5.5	5.5	5.0	5.0
175°	5.5	5.5	5.0	4.5	4.5
177.5°	6.0	5.5	5.0	4.5	4.0
180°	5.0	5.0	5.0	5.0	5.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	2.5	9.5	24.6	29.6	30.6
110°	3.0	8.0	20.6	25.1	26.1



(END OF REPORT)