

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: P830099

Luminaire Tested: **OHBL-24SE-A-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830099  
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-24SE-A-UNV-L930-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

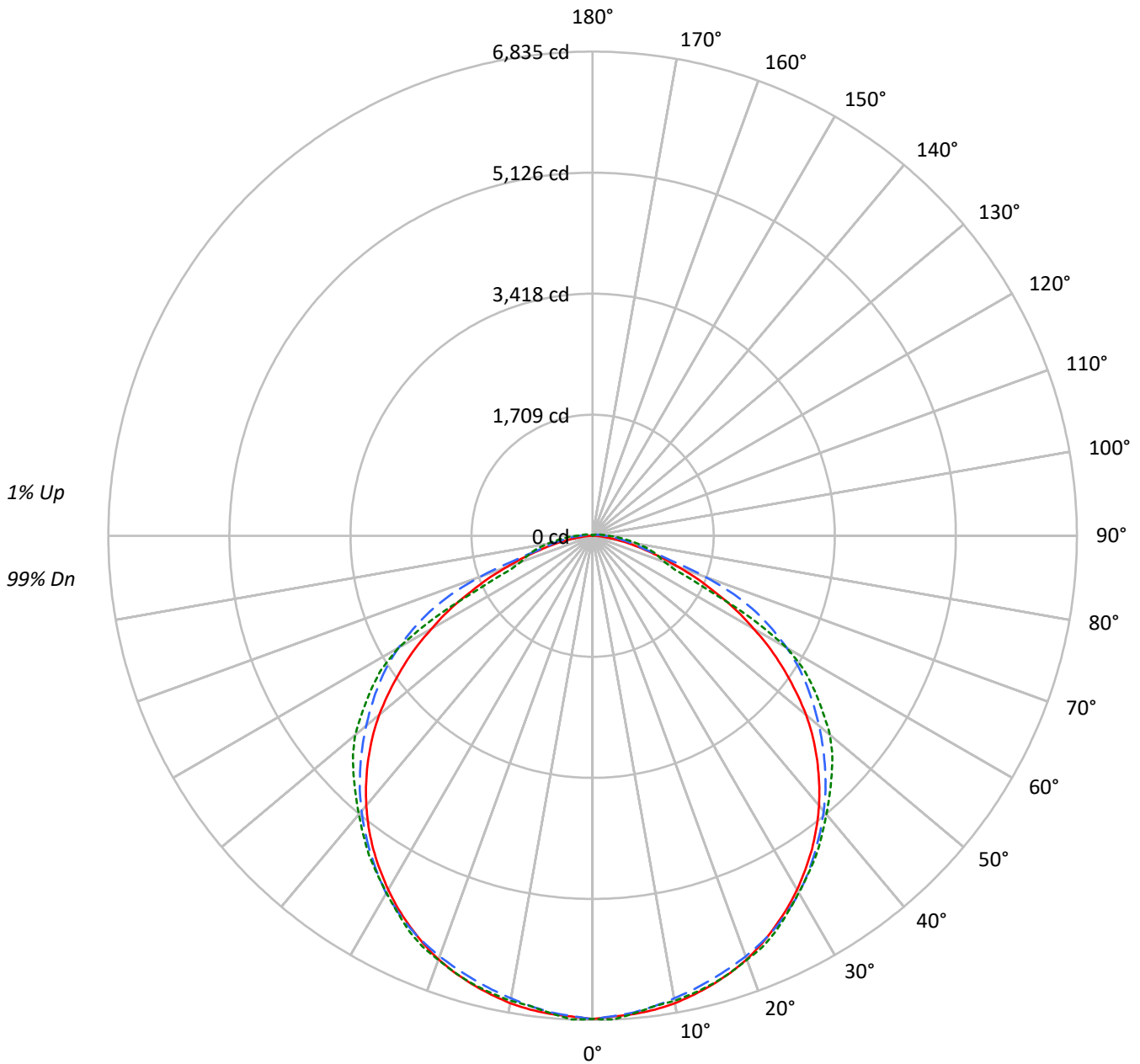
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19279.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 138  
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: P830099

CATALOG NUMBER: OHBL-24SE-A-UNV-L930-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	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°	11650	11650	11650
5°	11574	11476	11498
10°	11531	11297	11363
15°	11458	11162	11279
20°	11385	11075	11172
25°	11248	10987	11065
30°	11098	10851	10848
35°	10920	10640	10724
40°	10687	10421	10557
45°	10366	10168	10477
50°	9929	9880	10382
55°	9236	9596	9981
60°	8329	9184	9212
65°	7145	8426	5825
70°	5755	6564	4211
75°	4315	3886	4256
80°	3003	3215	4035
85°	1710	2920	3733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.2	3.3
10°-20°	1844.2	9.6
20°-30°	2816.8	14.6
30°-40°	3417.7	17.7
40°-50°	3582.1	18.6
50°-60°	3245.9	16.8
60°-70°	2176.2	11.3
70°-80°	977.2	5.1
80°-90°	354.6	1.8
90°-100°	106.7	0.6
100°-110°	50.4	0.3
110°-120°	25.2	0.1
120°-130°	13.9	0.1
130°-140°	9.6	0.0
140°-150°	6.4	0.0
150°-160°	4.8	0.0
160°-170°	3.1	0.0
170°-180°	1.0	0.0
0°-30°	5304.2	27.5
0°-40°	8721.8	45.2
0°-60°	15549.8	80.7
0°-90°	19057.9	98.9
90°-120°	182.4	0.9
90°-150°	212.3	1.1
90°-180°	221.0	1.1
0°-180°	19279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6821	6821	6821	6821	6821	
5°	6776	6800	6753	6774	6765	645
15°	6557	6531	6485	6542	6550	1851
25°	6091	6064	6107	6163	6145	2808
35°	5399	5412	5467	5525	5503	3374
45°	4480	4554	4638	4757	4772	3452
55°	3297	3456	3692	3840	3831	2943
65°	1935	2238	2541	2144	1751	1928
75°	761	1105	813	831	886	832
85°	131	252	322	390	408	160
90°	1	84	167	209	219	8
95°	1	52	114	139	143	1
105°	4	23	56	68	71	5
115°	8	12	29	36	38	7
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CATALOG NUMBER: OHBL-24SE-A-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6820.9	6820.9	6820.9	6820.9	6820.9
2.5°	6793.3	6821.9	6786.4	6824.9	6834.7
5°	6776.5	6800.2	6752.9	6773.6	6764.7
7.5°	6746.0	6753.9	6697.6	6714.4	6696.7
10°	6700.6	6696.7	6630.6	6663.1	6667.1
12.5°	6633.5	6621.7	6562.5	6611.8	6612.8
15°	6556.6	6531.0	6484.6	6541.8	6549.7
17.5°	6467.8	6434.3	6403.7	6477.7	6465.9
20°	6364.3	6324.8	6318.9	6399.8	6370.2
22.5°	6236.1	6205.5	6219.3	6296.2	6277.5
25°	6091.1	6064.5	6106.9	6163.1	6145.3
27.5°	5938.2	5922.4	5970.8	6014.2	5979.7
30°	5770.6	5761.7	5825.8	5861.3	5817.9
32.5°	5588.1	5591.1	5652.2	5700.5	5660.1
35°	5398.7	5411.6	5466.8	5525.0	5503.3
37.5°	5190.7	5219.3	5274.5	5340.6	5317.9
40°	4970.7	5012.1	5073.3	5153.2	5132.5
42.5°	4733.0	4785.3	4864.2	4953.0	4951.0
45°	4480.5	4553.5	4638.3	4756.7	4771.5
47.5°	4218.2	4300.1	4407.6	4565.4	4588.0
50°	3933.2	4035.7	4169.9	4359.2	4373.0
52.5°	3615.6	3755.7	3933.2	4114.6	4097.9
55°	3297.0	3455.8	3691.5	3839.5	3830.6
57.5°	2979.5	3158.0	3444.0	3549.5	3548.5
60°	2624.4	2850.3	3162.9	3242.8	3163.9
62.5°	2296.0	2538.6	2863.1	2804.9	2534.7
65°	1935.0	2237.8	2540.6	2144.1	1750.6
67.5°	1614.5	1930.1	2157.9	1468.5	1257.5
70°	1292.0	1640.1	1682.5	1089.8	1075.0
72.5°	1006.0	1376.8	1160.8	933.0	980.3
75°	761.4	1104.6	812.7	831.4	885.7
77.5°	555.3	848.2	632.2	728.8	773.2
80°	381.7	600.6	515.8	612.5	643.0
82.5°	239.7	396.5	413.2	493.1	524.7
85°	131.2	251.5	322.5	389.6	408.3
87.5°	54.2	151.9	246.6	300.8	316.6
90°	1.0	83.8	166.7	209.1	218.9
92.5°	1.0	64.1	136.1	168.6	175.6
95°	1.0	52.3	114.4	139.1	143.0
97.5°	2.0	41.4	95.7	115.4	119.3
100°	3.0	34.5	79.9	96.7	99.6
102.5°	3.9	27.6	67.1	80.9	83.8
105°	3.9	22.7	56.2	68.1	71.0



TEST NUMBER: P830099

CATALOG NUMBER: OHBL-24SE-A-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.9	13.8	33.5	42.4	44.4
115°	7.9	11.8	28.6	36.5	38.5
117.5°	7.9	9.9	24.7	30.6	32.5
120°	7.9	8.9	21.7	26.6	27.6
122.5°	7.9	7.9	18.7	23.7	24.7
125°	6.9	7.9	17.8	20.7	21.7
127.5°	7.9	7.9	15.8	18.7	19.7
130°	7.9	8.9	13.8	17.8	17.8
132.5°	8.9	9.9	12.8	16.8	16.8
135°	8.9	9.9	10.8	15.8	16.8
137.5°	9.9	9.9	9.9	14.8	15.8
140°	9.9	9.9	8.9	12.8	13.8
142.5°	8.9	9.9	8.9	11.8	12.8
145°	8.9	9.9	9.9	10.8	11.8
147.5°	9.9	9.9	9.9	9.9	10.8
150°	9.9	9.9	9.9	9.9	9.9
152.5°	9.9	9.9	9.9	9.9	9.9
155°	9.9	10.8	10.8	10.8	9.9
157.5°	9.9	10.8	10.8	10.8	10.8
160°	9.9	10.8	10.8	10.8	10.8
162.5°	10.8	10.8	10.8	10.8	10.8
165°	10.8	10.8	10.8	10.8	10.8
167.5°	10.8	11.8	10.8	10.8	10.8
170°	10.8	10.8	10.8	9.9	9.9
172.5°	10.8	10.8	10.8	9.9	9.9
175°	10.8	10.8	9.9	8.9	8.9
177.5°	11.8	10.8	9.9	8.9	7.9
180°	9.9	9.9	9.9	9.9	9.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.9	18.7	48.3	58.2	60.2
110°	5.9	15.8	40.4	49.3	51.3



(END OF REPORT)