

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: P830107

Luminaire Tested: **OHBL-24SE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830107  
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-MCL-UNV-L830-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

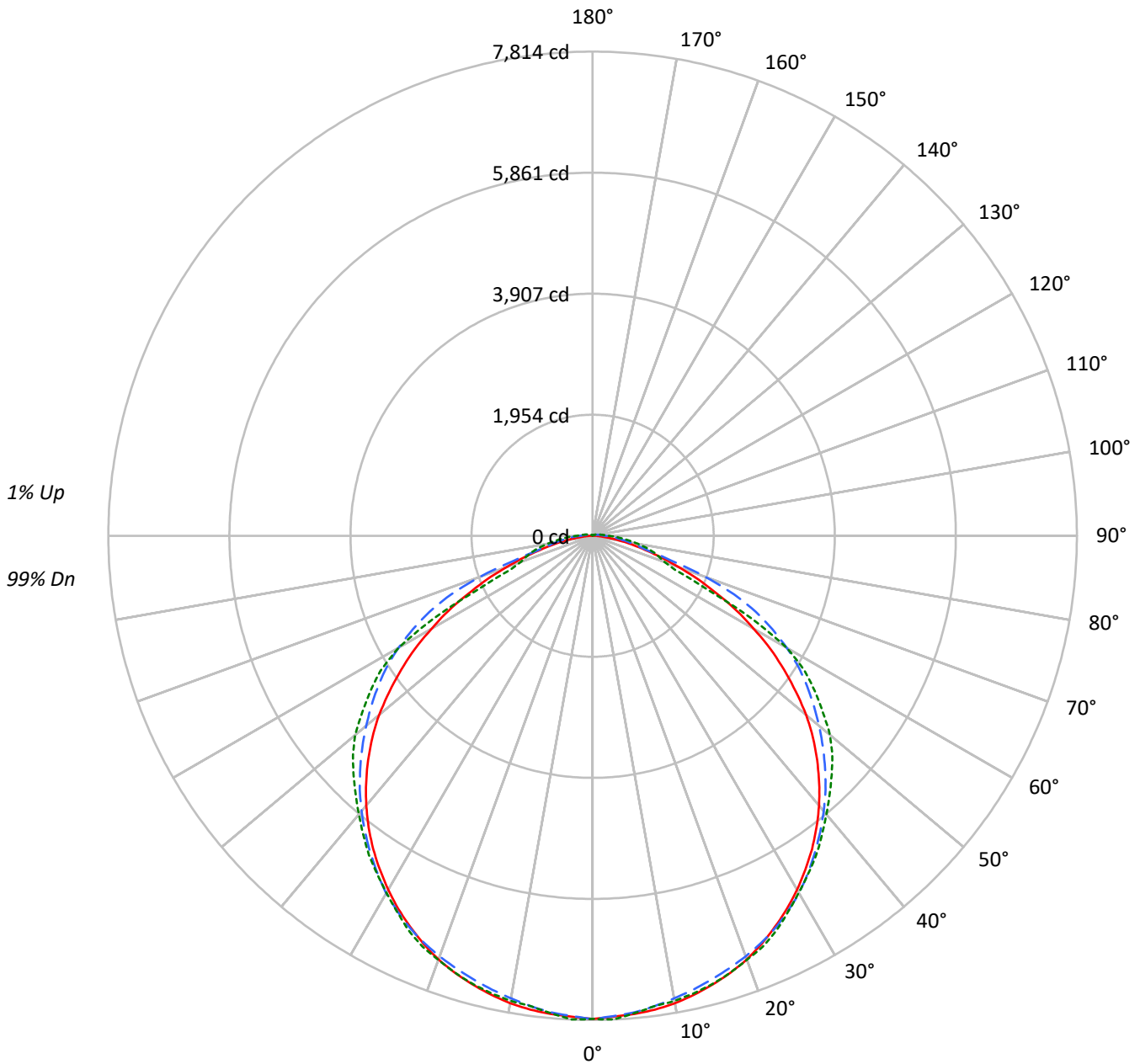
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22041.0 lumens  
Efficiency: N/A  
Efficacy: 159.7 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

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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°	13319	13319	13319
5°	13232	13120	13145
10°	13184	12915	12990
15°	13100	12761	12895
20°	13016	12661	12772
25°	12859	12561	12651
30°	12688	12406	12402
35°	12484	12164	12260
40°	12219	11913	12070
45°	11851	11624	11979
50°	11352	11296	11870
55°	10560	10971	11411
60°	9522	10499	10532
65°	8168	9634	6660
70°	6579	7505	4814
75°	4933	4442	4865
80°	3434	3676	4614
85°	1955	3338	4268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.3	3.3
10°-20°	2108.5	9.6
20°-30°	3220.3	14.6
30°-40°	3907.3	17.7
40°-50°	4095.2	18.6
50°-60°	3710.9	16.8
60°-70°	2488.0	11.3
70°-80°	1117.2	5.1
80°-90°	405.4	1.8
90°-100°	122.0	0.6
100°-110°	57.6	0.3
110°-120°	28.9	0.1
120°-130°	15.9	0.1
130°-140°	10.9	0.0
140°-150°	7.4	0.0
150°-160°	5.5	0.0
160°-170°	3.5	0.0
170°-180°	1.1	0.0
0°-30°	6064.0	27.5
0°-40°	9971.4	45.2
0°-60°	17777.5	80.7
0°-90°	21788.2	98.9
90°-120°	208.5	0.9
90°-150°	242.7	1.1
90°-180°	253.0	1.1
0°-180°	22041.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7798	7798	7798	7798	7798	
5°	7747	7774	7720	7744	7734	737
15°	7496	7467	7414	7479	7488	2116
25°	6964	6933	6982	7046	7026	3210
35°	6172	6187	6250	6316	6292	3858
45°	5122	5206	5303	5438	5455	3946
55°	3769	3951	4220	4390	4379	3365
65°	2212	2558	2905	2451	2001	2204
75°	870	1263	929	950	1012	951
85°	150	288	369	445	467	183
90°	1	96	191	239	250	9
95°	1	60	131	159	164	2
105°	4	26	64	78	81	5
115°	9	14	33	42	44	8
125°	8	9	20	24	25	8
135°	10	11	12	18	19	8
145°	10	11	11	12	14	7
155°	11	12	12	12	11	5
165°	12	12	12	12	12	3
175°	12	12	11	10	10	1
180°	11	11	11	11	11	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7798.1	7798.1	7798.1	7798.1	7798.1
2.5°	7766.6	7799.3	7758.7	7802.6	7813.9
5°	7747.4	7774.4	7720.3	7744.0	7733.9
7.5°	7712.4	7721.5	7657.2	7676.3	7656.1
10°	7660.6	7656.1	7580.5	7617.7	7622.2
12.5°	7583.9	7570.4	7502.7	7559.1	7560.2
15°	7495.9	7466.6	7413.6	7479.0	7488.0
17.5°	7394.5	7356.1	7321.2	7405.7	7392.2
20°	7276.1	7231.0	7224.2	7316.7	7282.8
22.5°	7129.5	7094.5	7110.3	7198.3	7176.8
25°	6963.7	6933.3	6981.8	7046.0	7025.8
27.5°	6789.0	6770.9	6826.2	6875.8	6836.3
30°	6597.3	6587.1	6660.4	6701.0	6651.4
32.5°	6388.7	6392.1	6462.0	6517.2	6471.0
35°	6172.2	6186.9	6250.0	6316.5	6291.7
37.5°	5934.3	5967.0	6030.1	6105.7	6079.7
40°	5682.8	5730.2	5800.1	5891.4	5867.8
42.5°	5411.1	5470.9	5561.1	5662.5	5660.3
45°	5122.5	5205.9	5302.9	5438.2	5455.1
47.5°	4822.5	4916.1	5039.0	5219.4	5245.4
50°	4496.7	4613.9	4767.3	4983.8	4999.5
52.5°	4133.6	4293.7	4496.7	4704.1	4685.0
55°	3769.4	3950.9	4220.4	4389.5	4379.4
57.5°	3406.3	3610.4	3937.4	4058.0	4056.9
60°	3000.4	3258.6	3616.0	3707.4	3617.2
62.5°	2624.9	2902.3	3273.3	3206.7	2897.8
65°	2212.2	2558.4	2904.6	2451.3	2001.4
67.5°	1845.8	2206.6	2467.1	1678.9	1437.6
70°	1477.1	1875.1	1923.6	1245.9	1229.0
72.5°	1150.1	1574.1	1327.1	1066.7	1120.8
75°	870.5	1262.9	929.1	950.5	1012.5
77.5°	634.8	969.7	722.8	833.3	884.0
80°	436.4	686.7	589.7	700.2	735.2
82.5°	274.0	453.3	472.4	563.8	599.9
85°	150.0	287.5	368.7	445.4	466.8
87.5°	62.0	173.6	281.9	343.9	361.9
90°	1.1	95.8	190.6	239.0	250.3
92.5°	1.1	73.3	155.6	192.8	200.7
95°	1.1	59.8	130.8	159.0	163.5
97.5°	2.3	47.4	109.4	131.9	136.4
100°	3.4	39.5	91.3	110.5	113.9
102.5°	4.5	31.6	76.7	92.5	95.8
105°	4.5	25.9	64.3	77.8	81.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.9	15.8	38.3	48.5	50.7
115°	9.0	13.5	32.7	41.7	44.0
117.5°	9.0	11.3	28.2	35.0	37.2
120°	9.0	10.1	24.8	30.4	31.6
122.5°	9.0	9.0	21.4	27.1	28.2
125°	7.9	9.0	20.3	23.7	24.8
127.5°	9.0	9.0	18.0	21.4	22.6
130°	9.0	10.1	15.8	20.3	20.3
132.5°	10.1	11.3	14.7	19.2	19.2
135°	10.1	11.3	12.4	18.0	19.2
137.5°	11.3	11.3	11.3	16.9	18.0
140°	11.3	11.3	10.1	14.7	15.8
142.5°	10.1	11.3	10.1	13.5	14.7
145°	10.1	11.3	11.3	12.4	13.5
147.5°	11.3	11.3	11.3	11.3	12.4
150°	11.3	11.3	11.3	11.3	11.3
152.5°	11.3	11.3	11.3	11.3	11.3
155°	11.3	12.4	12.4	12.4	11.3
157.5°	11.3	12.4	12.4	12.4	12.4
160°	11.3	12.4	12.4	12.4	12.4
162.5°	12.4	12.4	12.4	12.4	12.4
165°	12.4	12.4	12.4	12.4	12.4
167.5°	12.4	13.5	12.4	12.4	12.4
170°	12.4	12.4	12.4	11.3	11.3
172.5°	12.4	12.4	12.4	11.3	11.3
175°	12.4	12.4	11.3	10.1	10.1
177.5°	13.5	12.4	11.3	10.1	9.0
180°	11.3	11.3	11.3	11.3	11.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	5.6	21.4	55.2	66.5	68.8
110°	6.8	18.0	46.2	56.4	58.6



(END OF REPORT)