

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: P830119

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830119  
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-24SE-MFL-UNV-L830-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

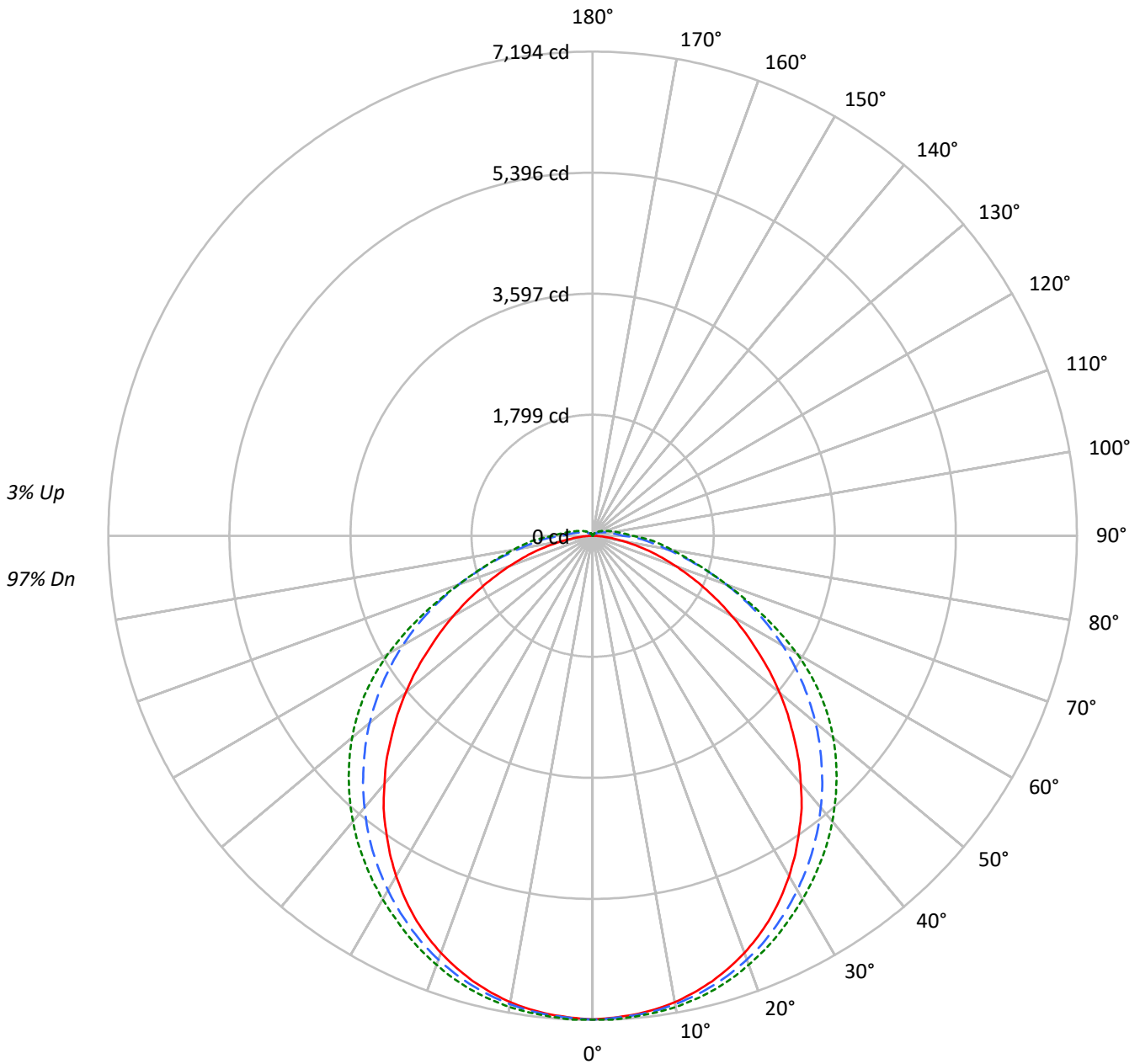
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21511.0 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	12276	12276	12276
5°	12198	12154	12189
10°	12112	12042	12118
15°	11977	11908	12026
20°	11797	11746	11896
25°	11557	11545	11763
30°	11225	11327	11630
35°	10823	11096	11514
40°	10340	10828	11398
45°	9771	10538	11252
50°	9148	10245	11075
55°	8382	9886	10785
60°	7598	9464	10218
65°	6742	8927	9296
70°	5814	8242	8297
75°	4875	7451	7608
80°	3696	6864	7496
85°	2338	7070	8268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.1	3.2
10°-20°	1953.8	9.1
20°-30°	2954.9	13.7
30°-40°	3547.3	16.5
40°-50°	3663.8	17.0
50°-60°	3296.3	15.3
60°-70°	2483.0	11.5
70°-80°	1499.3	7.0
80°-90°	733.3	3.4
90°-100°	308.7	1.4
100°-110°	176.2	0.8
110°-120°	103.4	0.5
120°-130°	58.5	0.3
130°-140°	30.8	0.1
140°-150°	15.0	0.1
150°-160°	5.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5589.8	26.0
0°-40°	9137.1	42.5
0°-60°	16097.2	74.8
0°-90°	20812.9	96.8
90°-120°	588.3	2.7
90°-150°	692.5	3.2
90°-180°	698.0	3.2
0°-180°	21511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7188	7188	7188	7188	7188	
5°	7142	7161	7152	7180	7172	678
15°	6853	6887	6918	6976	6984	1932
25°	6259	6327	6417	6517	6533	2879
35°	5351	5476	5701	5874	5909	3345
45°	4224	4436	4808	5070	5124	3261
55°	2992	3302	3803	4090	4139	2683
65°	1826	2199	2691	2825	2793	1814
75°	860	1235	1558	1599	1583	918
85°	179	473	781	888	904	207
90°	0	185	447	563	586	11
95°	9	125	334	426	442	7
105°	12	72	194	253	264	12
115°	14	40	120	160	167	14
125°	14	19	72	104	109	13
135°	12	16	37	63	70	10
145°	18	16	18	32	37	10
155°	18	19	18	16	18	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7187.5	7187.5	7187.5	7187.5	7187.5
2.5°	7166.4	7184.0	7173.4	7196.3	7194.5
5°	7141.8	7161.1	7152.3	7180.5	7171.7
7.5°	7099.6	7120.7	7118.9	7150.6	7147.1
10°	7038.0	7060.9	7067.9	7110.1	7110.1
12.5°	6953.6	6983.5	7001.0	7052.1	7053.8
15°	6853.3	6886.7	6918.4	6976.4	6983.5
17.5°	6731.9	6774.1	6818.1	6885.0	6893.7
20°	6594.7	6642.2	6702.0	6772.4	6782.9
22.5°	6436.4	6492.7	6570.1	6652.8	6665.1
25°	6258.7	6327.3	6417.0	6517.3	6533.1
27.5°	6056.4	6135.6	6257.0	6369.5	6383.6
30°	5836.6	5929.8	6081.1	6214.8	6237.6
32.5°	5604.4	5711.7	5898.1	6047.6	6079.3
35°	5351.1	5475.9	5701.1	5873.5	5908.7
37.5°	5101.3	5238.5	5493.5	5690.6	5732.8
40°	4809.3	4979.9	5271.9	5490.0	5541.0
42.5°	4534.9	4719.6	5050.3	5287.7	5337.0
45°	4223.5	4436.3	4807.5	5069.6	5124.1
47.5°	3931.5	4161.9	4573.5	4844.4	4900.7
50°	3623.7	3877.0	4323.8	4607.0	4665.0
52.5°	3315.8	3588.5	4065.2	4358.9	4413.5
55°	2992.2	3301.8	3803.1	4089.8	4139.1
57.5°	2691.4	3018.5	3533.9	3806.6	3836.5
60°	2394.1	2733.6	3259.5	3498.8	3509.3
62.5°	2103.8	2460.9	2978.1	3168.1	3154.0
65°	1825.9	2198.8	2691.4	2825.0	2793.4
67.5°	1558.5	1943.8	2397.6	2483.8	2441.6
70°	1305.2	1695.7	2112.6	2156.6	2117.9
72.5°	1081.8	1460.0	1824.1	1861.1	1832.9
75°	860.2	1234.9	1558.5	1599.0	1583.2
77.5°	652.6	1016.7	1314.0	1366.8	1370.3
80°	469.7	818.0	1101.2	1183.8	1194.4
82.5°	309.6	635.0	923.5	1029.0	1044.9
85°	179.4	473.2	781.0	888.3	904.2
87.5°	77.4	341.3	628.0	724.7	744.1
90°	0.0	184.7	446.8	562.9	585.8
92.5°	5.3	153.0	383.5	489.0	508.4
95°	8.8	124.9	334.2	425.7	441.5
97.5°	10.6	105.5	290.2	371.2	387.0
100°	10.6	91.5	251.5	325.4	339.5
102.5°	10.6	80.9	219.9	285.0	297.3
105°	12.3	72.1	193.5	253.3	263.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.1	47.5	133.7	179.4	186.5
115°	14.1	40.5	119.6	160.1	167.1
117.5°	15.8	35.2	105.5	144.2	149.5
120°	15.8	29.9	93.2	128.4	135.4
122.5°	15.8	24.6	82.7	116.1	121.4
125°	14.1	19.3	72.1	103.8	109.1
127.5°	12.3	15.8	61.6	93.2	98.5
130°	12.3	14.1	52.8	82.7	88.0
132.5°	12.3	15.8	44.0	72.1	79.2
135°	12.3	15.8	36.9	63.3	70.4
137.5°	12.3	15.8	29.9	54.5	61.6
140°	14.1	15.8	24.6	45.7	52.8
142.5°	15.8	15.8	19.3	38.7	44.0
145°	17.6	15.8	17.6	31.7	36.9
147.5°	17.6	17.6	17.6	24.6	29.9
150°	17.6	19.3	17.6	19.3	24.6
152.5°	17.6	19.3	17.6	15.8	19.3
155°	17.6	19.3	17.6	15.8	17.6
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°	12.3	63.3	170.6	225.2	234.0
110°	12.3	56.3	151.3	200.5	209.3



(END OF REPORT)