

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: P830122

Luminaire Tested: **OHBL-24SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830122  
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-L850-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

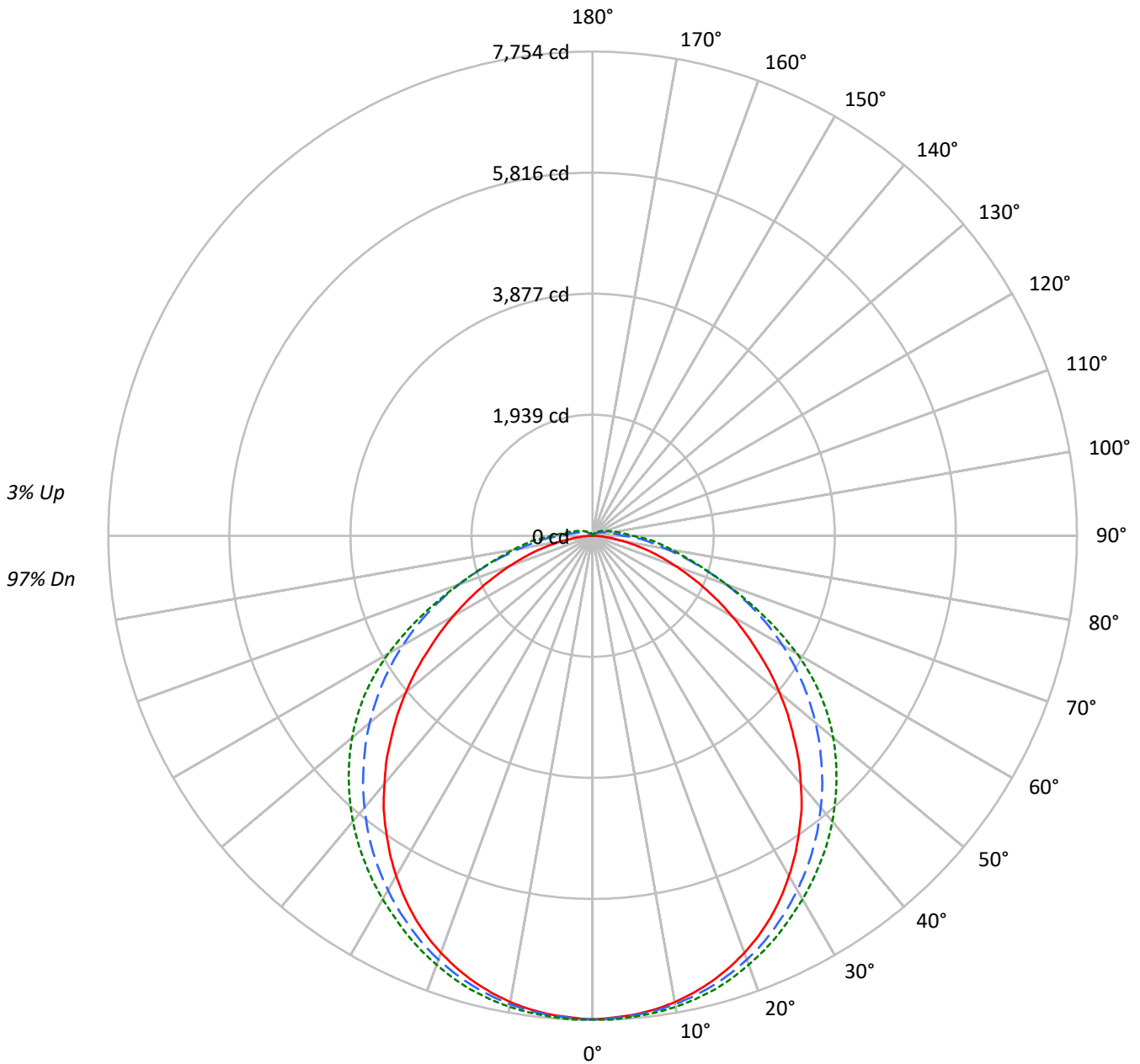
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23183.1 lumens  
Efficiency: N/A  
Efficacy: 168.0 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°	13230	13230	13230
5°	13146	13099	13137
10°	13053	12978	13060
15°	12908	12834	12961
20°	12714	12659	12820
25°	12456	12442	12678
30°	12098	12207	12534
35°	11665	11958	12408
40°	11144	11670	12284
45°	10530	11358	12126
50°	9859	11041	11936
55°	9034	10655	11623
60°	8189	10200	11012
65°	7266	9620	10018
70°	6266	8883	8941
75°	5253	8031	8199
80°	3983	7398	8078
85°	2520	7620	8910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.0	3.2
10°-20°	2105.7	9.1
20°-30°	3184.5	13.7
30°-40°	3823.1	16.5
40°-50°	3948.6	17.0
50°-60°	3552.5	15.3
60°-70°	2676.0	11.5
70°-80°	1615.9	7.0
80°-90°	790.3	3.4
90°-100°	332.7	1.4
100°-110°	189.9	0.8
110°-120°	111.5	0.5
120°-130°	63.1	0.3
130°-140°	33.2	0.1
140°-150°	16.2	0.1
150°-160°	6.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6024.2	26.0
0°-40°	9847.3	42.5
0°-60°	17348.4	74.8
0°-90°	22430.6	96.8
90°-120°	634.0	2.7
90°-150°	746.4	3.2
90°-180°	752.0	3.2
0°-180°	23183.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7746	7746	7746	7746	7746	
5°	7697	7718	7708	7739	7729	731
15°	7386	7422	7456	7519	7526	2082
25°	6745	6819	6916	7024	7041	3103
35°	5767	5902	6144	6330	6368	3605
45°	4552	4781	5181	5464	5522	3514
55°	3225	3558	4099	4408	4461	2891
65°	1968	2370	2901	3045	3010	1955
75°	927	1331	1680	1723	1706	989
85°	193	510	842	957	974	223
90°	0	199	482	607	631	12
95°	10	135	360	459	476	8
105°	13	78	208	273	284	13
115°	15	44	129	172	180	16
125°	15	21	78	112	118	14
135°	13	17	40	68	76	10
145°	19	17	19	34	40	11
155°	19	21	19	17	19	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830122

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7746.2	7746.2	7746.2	7746.2	7746.2
2.5°	7723.4	7742.4	7731.0	7755.7	7753.8
5°	7696.9	7717.7	7708.3	7738.6	7729.1
7.5°	7651.4	7674.1	7672.2	7706.4	7702.6
10°	7585.0	7609.7	7617.3	7662.8	7662.8
12.5°	7494.0	7526.3	7545.2	7600.2	7602.1
15°	7386.0	7422.0	7456.1	7518.7	7526.3
17.5°	7255.2	7300.7	7348.1	7420.1	7429.6
20°	7107.3	7158.5	7222.9	7298.8	7310.1
22.5°	6936.7	6997.3	7080.8	7169.9	7183.1
25°	6745.2	6819.1	6915.8	7023.9	7040.9
27.5°	6527.2	6612.5	6743.3	6864.6	6879.8
30°	6290.2	6390.7	6553.7	6697.8	6722.5
32.5°	6040.0	6155.6	6356.6	6517.7	6551.8
35°	5767.0	5901.6	6144.2	6330.0	6367.9
37.5°	5497.8	5645.6	5920.5	6132.9	6178.4
40°	5183.1	5367.0	5681.7	5916.7	5971.7
42.5°	4887.3	5086.4	5442.8	5698.7	5751.8
45°	4551.8	4781.2	5181.2	5463.7	5522.4
47.5°	4237.1	4485.4	4929.0	5221.0	5281.7
50°	3905.3	4178.3	4659.8	4965.1	5027.6
52.5°	3573.6	3867.4	4381.2	4697.8	4756.5
55°	3224.7	3558.4	4098.7	4407.7	4460.8
57.5°	2900.6	3253.2	3808.6	4102.5	4134.7
60°	2580.2	2946.1	3512.9	3770.7	3782.1
62.5°	2267.4	2652.2	3209.6	3414.3	3399.1
65°	1967.8	2369.7	2900.6	3044.6	3010.5
67.5°	1679.7	2094.8	2584.0	2676.8	2631.3
70°	1406.7	1827.5	2276.8	2324.2	2282.5
72.5°	1165.9	1573.5	1965.9	2005.7	1975.4
75°	927.0	1330.8	1679.7	1723.3	1706.2
77.5°	703.3	1095.8	1416.2	1473.0	1476.8
80°	506.2	881.5	1186.8	1275.9	1287.2
82.5°	333.7	684.4	995.3	1109.0	1126.1
85°	193.4	510.0	841.7	957.4	974.4
87.5°	83.4	367.8	676.8	781.1	801.9
90°	0.0	199.1	481.5	606.7	631.3
92.5°	5.7	164.9	413.3	527.0	547.9
95°	9.5	134.6	360.2	458.8	475.8
97.5°	11.4	113.7	312.8	400.0	417.1
100°	11.4	98.6	271.1	350.7	365.9
102.5°	11.4	87.2	237.0	307.1	320.4
105°	13.3	77.7	208.5	273.0	284.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	51.2	144.1	193.4	201.0
115°	15.2	43.6	128.9	172.5	180.1
117.5°	17.1	37.9	113.7	155.5	161.1
120°	17.1	32.2	100.5	138.4	146.0
122.5°	17.1	26.5	89.1	125.1	130.8
125°	15.2	20.9	77.7	111.9	117.5
127.5°	13.3	17.1	66.4	100.5	106.2
130°	13.3	15.2	56.9	89.1	94.8
132.5°	13.3	17.1	47.4	77.7	85.3
135°	13.3	17.1	39.8	68.2	75.8
137.5°	13.3	17.1	32.2	58.8	66.4
140°	15.2	17.1	26.5	49.3	56.9
142.5°	17.1	17.1	20.9	41.7	47.4
145°	19.0	17.1	19.0	34.1	39.8
147.5°	19.0	19.0	19.0	26.5	32.2
150°	19.0	20.9	19.0	20.9	26.5
152.5°	19.0	20.9	19.0	17.1	20.9
155°	19.0	20.9	19.0	17.1	19.0
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°	13.3	68.2	183.9	242.7	252.1
110°	13.3	60.7	163.0	216.1	225.6



(END OF REPORT)