

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: P830117

Luminaire Tested: **OHBL-24SE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830117  
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-L740-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

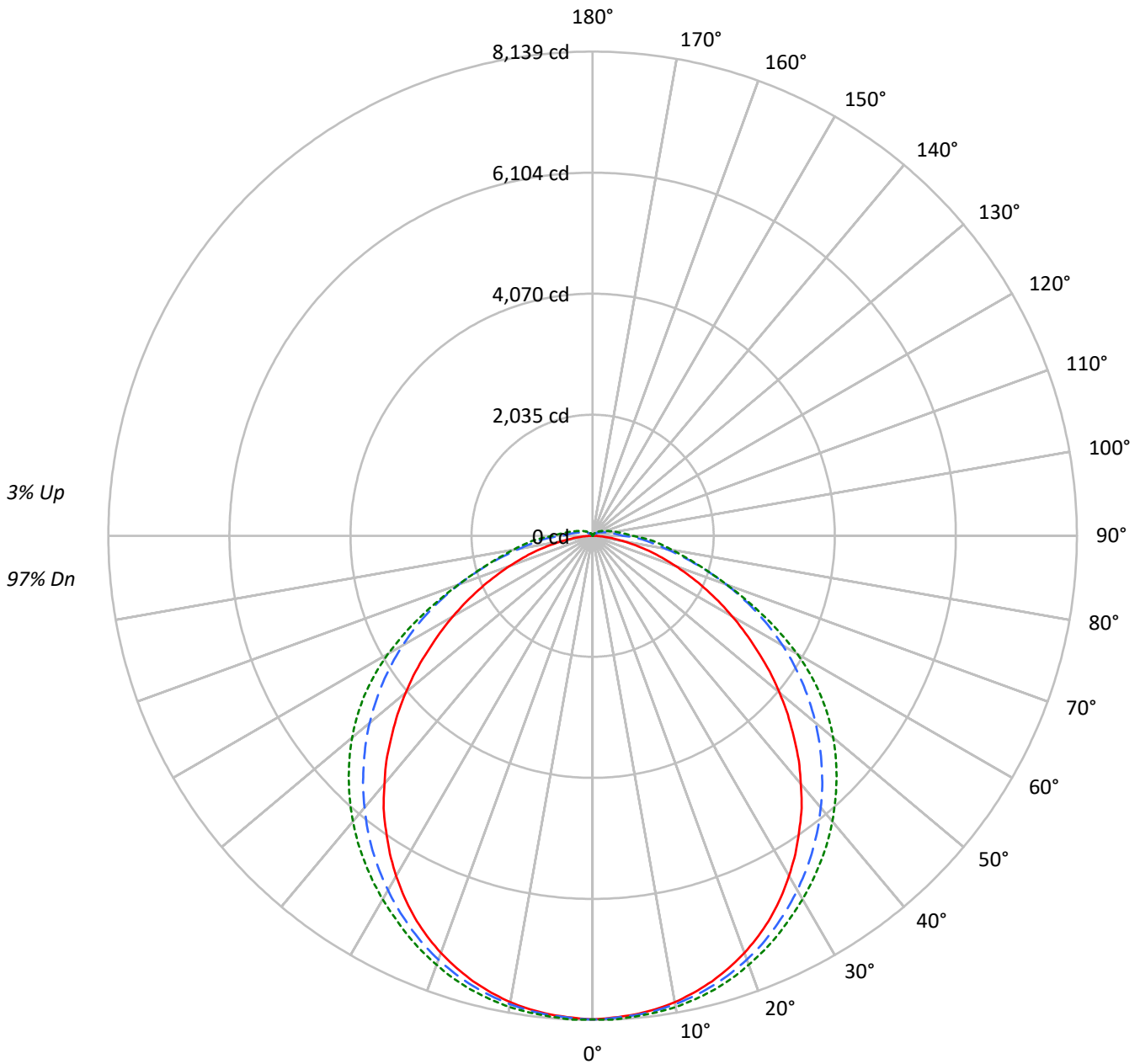
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24336.0 lumens  
Efficiency: N/A  
Efficacy: 176.3 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	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

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

	0°	45°	90°
0°	13888	13888	13888
5°	13800	13751	13790
10°	13703	13623	13709
15°	13550	13472	13606
20°	13347	13289	13458
25°	13075	13061	13308
30°	12700	12814	13158
35°	12245	12553	13026
40°	11698	12250	12895
45°	11054	11923	12729
50°	10349	11590	12530
55°	9483	11184	12201
60°	8596	10707	11560
65°	7627	10099	10516
70°	6577	9325	9386
75°	5514	8430	8607
80°	4181	7766	8481
85°	2645	7999	9353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.5	3.2
10°-20°	2210.4	9.1
20°-30°	3342.9	13.7
30°-40°	4013.2	16.5
40°-50°	4145.0	17.0
50°-60°	3729.2	15.3
60°-70°	2809.1	11.5
70°-80°	1696.3	7.0
80°-90°	829.6	3.4
90°-100°	349.2	1.4
100°-110°	199.3	0.8
110°-120°	117.0	0.5
120°-130°	66.2	0.3
130°-140°	34.8	0.1
140°-150°	16.9	0.1
150°-160°	6.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6323.9	26.0
0°-40°	10337.0	42.5
0°-60°	18211.2	74.8
0°-90°	23546.2	96.8
90°-120°	665.5	2.7
90°-150°	783.5	3.2
90°-180°	790.0	3.2
0°-180°	24336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8131	8131	8131	8131	8131	
5°	8080	8102	8092	8124	8114	768
15°	7753	7791	7827	7893	7901	2186
25°	7081	7158	7260	7373	7391	3257
35°	6054	6195	6450	6645	6685	3785
45°	4778	5019	5439	5735	5797	3689
55°	3385	3735	4302	4627	4683	3035
65°	2066	2488	3045	3196	3160	2052
75°	973	1397	1763	1809	1791	1038
85°	203	535	884	1005	1023	235
90°	0	209	506	637	663	13
95°	10	141	378	482	500	8
105°	14	82	219	287	298	14
115°	16	46	135	181	189	16
125°	16	22	82	117	123	14
135°	14	18	42	72	80	11
145°	20	18	20	36	42	12
155°	20	22	20	18	20	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-24SE-MFL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8131.4	8131.4	8131.4	8131.4	8131.4
2.5°	8107.6	8127.5	8115.5	8141.4	8139.4
5°	8079.7	8101.6	8091.6	8123.5	8113.5
7.5°	8031.9	8055.8	8053.8	8089.6	8085.7
10°	7962.3	7988.1	7996.1	8043.9	8043.9
12.5°	7866.8	7900.6	7920.5	7978.2	7980.2
15°	7753.3	7791.1	7827.0	7892.6	7900.6
17.5°	7616.0	7663.8	7713.5	7789.1	7799.1
20°	7460.8	7514.5	7582.2	7661.8	7673.7
22.5°	7281.7	7345.4	7432.9	7526.5	7540.4
25°	7080.7	7158.3	7259.8	7373.2	7391.1
27.5°	6851.8	6941.4	7078.7	7206.0	7222.0
30°	6603.1	6708.5	6879.7	7030.9	7056.8
32.5°	6340.4	6461.8	6672.7	6841.9	6877.7
35°	6053.8	6195.1	6449.8	6644.8	6684.7
37.5°	5771.2	5926.4	6215.0	6437.9	6485.6
40°	5440.9	5633.9	5964.2	6211.0	6268.7
42.5°	5130.4	5339.4	5713.5	5982.2	6037.9
45°	4778.2	5019.0	5438.9	5735.4	5797.1
47.5°	4447.8	4708.5	5174.2	5480.7	5544.3
50°	4099.5	4386.1	4891.6	5212.0	5277.7
52.5°	3751.3	4059.7	4599.1	4931.4	4993.1
55°	3385.1	3735.4	4302.5	4626.9	4682.6
57.5°	3044.8	3415.0	3998.1	4306.5	4340.3
60°	2708.5	3092.6	3687.6	3958.3	3970.2
62.5°	2380.1	2784.1	3369.2	3584.1	3568.2
65°	2065.7	2487.6	3044.8	3196.1	3160.2
67.5°	1763.2	2199.0	2712.5	2810.0	2762.2
70°	1476.6	1918.4	2390.1	2439.8	2396.0
72.5°	1223.9	1651.8	2063.7	2105.5	2073.7
75°	973.1	1397.0	1763.2	1809.0	1791.1
77.5°	738.3	1150.3	1486.6	1546.3	1550.3
80°	531.3	925.4	1245.8	1339.3	1351.3
82.5°	350.3	718.4	1044.8	1164.2	1182.1
85°	203.0	535.3	883.6	1005.0	1022.9
87.5°	87.6	386.1	710.5	819.9	841.8
90°	0.0	209.0	505.5	636.8	662.7
92.5°	6.0	173.1	433.8	553.2	575.1
95°	10.0	141.3	378.1	481.6	499.5
97.5°	11.9	119.4	328.4	419.9	437.8
100°	11.9	103.5	284.6	368.2	384.1
102.5°	11.9	91.5	248.8	322.4	336.3
105°	13.9	81.6	218.9	286.6	298.5



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CATALOG NUMBER: OHBL-24SE-MFL-UNV-L740-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.9	53.7	151.2	203.0	210.9
115°	15.9	45.8	135.3	181.1	189.1
117.5°	17.9	39.8	119.4	163.2	169.2
120°	17.9	33.8	105.5	145.3	153.2
122.5°	17.9	27.9	93.5	131.3	137.3
125°	15.9	21.9	81.6	117.4	123.4
127.5°	13.9	17.9	69.7	105.5	111.4
130°	13.9	15.9	59.7	93.5	99.5
132.5°	13.9	17.9	49.8	81.6	89.6
135°	13.9	17.9	41.8	71.6	79.6
137.5°	13.9	17.9	33.8	61.7	69.7
140°	15.9	17.9	27.9	51.7	59.7
142.5°	17.9	17.9	21.9	43.8	49.8
145°	19.9	17.9	19.9	35.8	41.8
147.5°	19.9	19.9	19.9	27.9	33.8
150°	19.9	21.9	19.9	21.9	27.9
152.5°	19.9	21.9	19.9	17.9	21.9
155°	19.9	21.9	19.9	17.9	19.9
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°	13.9	71.6	193.0	254.7	264.7
110°	13.9	63.7	171.1	226.9	236.8



(END OF REPORT)