

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: P830046

Luminaire Tested: **OHBL-24HE-MFL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830046  
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-24HE-MFL-UNV-L750-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

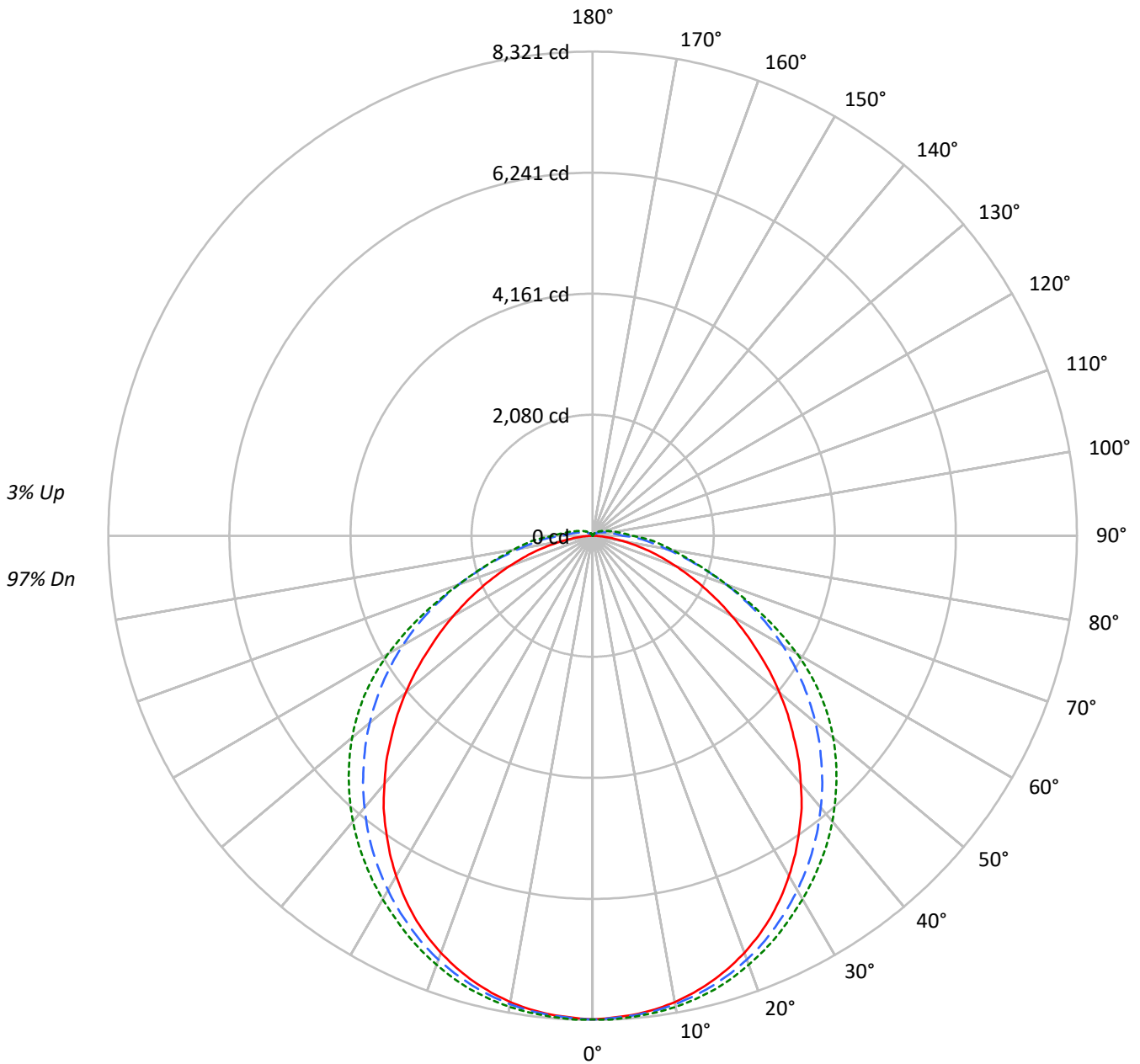
Lumens per Lamp: N/A  
Luminaire Lumens: 24878.0 lumens  
Efficiency: N/A  
Efficacy: 187.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 133  
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°	13146	13146	13146
5°	13062	13021	13061
10°	12970	12907	12993
15°	12825	12770	12903
20°	12633	12601	12772
25°	12376	12392	12639
30°	12021	12164	12505
35°	11590	11923	12390
40°	11073	11643	12276
45°	10463	11339	12131
50°	9796	11032	11955
55°	8976	10656	11657
60°	8136	10213	11063
65°	7220	9648	10086
70°	6226	8927	9029
75°	5220	8094	8314
80°	3958	7492	8249
85°	2504	7787	9217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.7	3.2
10°-20°	2259.7	9.1
20°-30°	3417.4	13.7
30°-40°	4102.6	16.5
40°-50°	4237.3	17.0
50°-60°	3812.2	15.3
60°-70°	2871.7	11.5
70°-80°	1734.0	7.0
80°-90°	848.1	3.4
90°-100°	357.0	1.4
100°-110°	203.8	0.8
110°-120°	119.6	0.5
120°-130°	67.6	0.3
130°-140°	35.6	0.1
140°-150°	17.3	0.1
150°-160°	6.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6464.7	26.0
0°-40°	10567.3	42.5
0°-60°	18616.8	74.8
0°-90°	24070.6	96.8
90°-120°	680.4	2.7
90°-150°	800.9	3.2
90°-180°	807.0	3.2
0°-180°	24878.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8312	8312	8312	8312	8312	
5°	8260	8282	8272	8304	8294	785
15°	7926	7965	8001	8068	8076	2235
25°	7238	7318	7422	7537	7556	3329
35°	6189	6333	6594	6793	6834	3869
45°	4885	5131	5560	5863	5926	3771
55°	3460	3819	4398	4730	4787	3103
65°	2112	2543	3113	3267	3231	2098
75°	995	1428	1802	1849	1831	1061
85°	208	547	903	1027	1046	240
90°	0	214	517	651	678	13
95°	10	144	386	492	511	9
105°	14	83	224	293	305	14
115°	16	47	138	185	193	17
125°	16	22	83	120	126	15
135°	14	18	43	73	81	11
145°	20	18	20	37	43	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8312.5	8312.5	8312.5	8312.5	8312.5
2.5°	8288.1	8308.5	8296.3	8322.7	8320.7
5°	8259.6	8282.0	8271.8	8304.4	8294.2
7.5°	8210.8	8235.2	8233.2	8269.8	8265.7
10°	8139.6	8166.1	8174.2	8223.0	8223.0
12.5°	8042.0	8076.5	8096.9	8155.9	8157.9
15°	7926.0	7964.7	8001.3	8068.4	8076.5
17.5°	7785.6	7834.4	7885.3	7962.6	7972.8
20°	7626.9	7681.9	7751.0	7832.4	7844.6
22.5°	7443.8	7508.9	7598.5	7694.1	7708.3
25°	7238.4	7317.7	7421.5	7537.4	7555.7
27.5°	7004.4	7096.0	7236.3	7366.5	7382.8
30°	6750.1	6857.9	7032.9	7187.5	7214.0
32.5°	6481.6	6605.7	6821.3	6994.2	7030.9
35°	6188.6	6333.1	6593.5	6792.8	6833.5
37.5°	5899.7	6058.4	6353.4	6581.3	6630.1
40°	5562.0	5759.4	6097.1	6349.3	6408.3
42.5°	5244.7	5458.3	5840.7	6115.4	6172.3
45°	4884.6	5130.7	5560.0	5863.1	5926.2
47.5°	4546.9	4813.4	5289.4	5602.7	5667.8
50°	4190.9	4483.8	5000.5	5328.1	5395.2
52.5°	3834.8	4150.2	4701.5	5041.2	5104.3
55°	3460.5	3818.6	4398.4	4730.0	4786.9
57.5°	3112.6	3491.0	4087.1	4402.4	4437.0
60°	2768.8	3161.4	3769.7	4046.4	4058.6
62.5°	2433.1	2846.1	3444.2	3663.9	3647.7
65°	2111.7	2543.0	3112.6	3267.2	3230.6
67.5°	1802.5	2248.0	2772.9	2872.6	2823.7
70°	1509.5	1961.2	2443.3	2494.2	2449.4
72.5°	1251.2	1688.5	2109.7	2152.4	2119.8
75°	994.8	1428.1	1802.5	1849.3	1831.0
77.5°	754.8	1175.9	1519.7	1580.7	1584.8
80°	543.2	946.0	1273.5	1369.1	1381.4
82.5°	358.1	734.4	1068.1	1190.1	1208.4
85°	207.5	547.3	903.3	1027.4	1045.7
87.5°	89.5	394.7	726.3	838.2	860.5
90°	0.0	213.6	516.7	651.0	677.5
92.5°	6.1	177.0	443.5	565.6	587.9
95°	10.2	144.4	386.5	492.3	510.6
97.5°	12.2	122.1	335.7	429.3	447.6
100°	12.2	105.8	290.9	376.4	392.6
102.5°	12.2	93.6	254.3	329.6	343.8
105°	14.2	83.4	223.8	293.0	305.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.3	54.9	154.6	207.5	215.6
115°	16.3	46.8	138.3	185.1	193.3
117.5°	18.3	40.7	122.1	166.8	172.9
120°	18.3	34.6	107.8	148.5	156.6
122.5°	18.3	28.5	95.6	134.3	140.4
125°	16.3	22.4	83.4	120.0	126.1
127.5°	14.2	18.3	71.2	107.8	113.9
130°	14.2	16.3	61.0	95.6	101.7
132.5°	14.2	18.3	50.9	83.4	91.5
135°	14.2	18.3	42.7	73.2	81.4
137.5°	14.2	18.3	34.6	63.1	71.2
140°	16.3	18.3	28.5	52.9	61.0
142.5°	18.3	18.3	22.4	44.8	50.9
145°	20.3	18.3	20.3	36.6	42.7
147.5°	20.3	20.3	20.3	28.5	34.6
150°	20.3	22.4	20.3	22.4	28.5
152.5°	20.3	22.4	20.3	18.3	22.4
155°	20.3	22.4	20.3	18.3	20.3
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°	14.2	73.2	197.3	260.4	270.6
110°	14.2	65.1	175.0	231.9	242.1



(END OF REPORT)