

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: P830548

Luminaire Tested: **OHBL-48SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830548  
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-48SE-MFL-UNV-L735-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

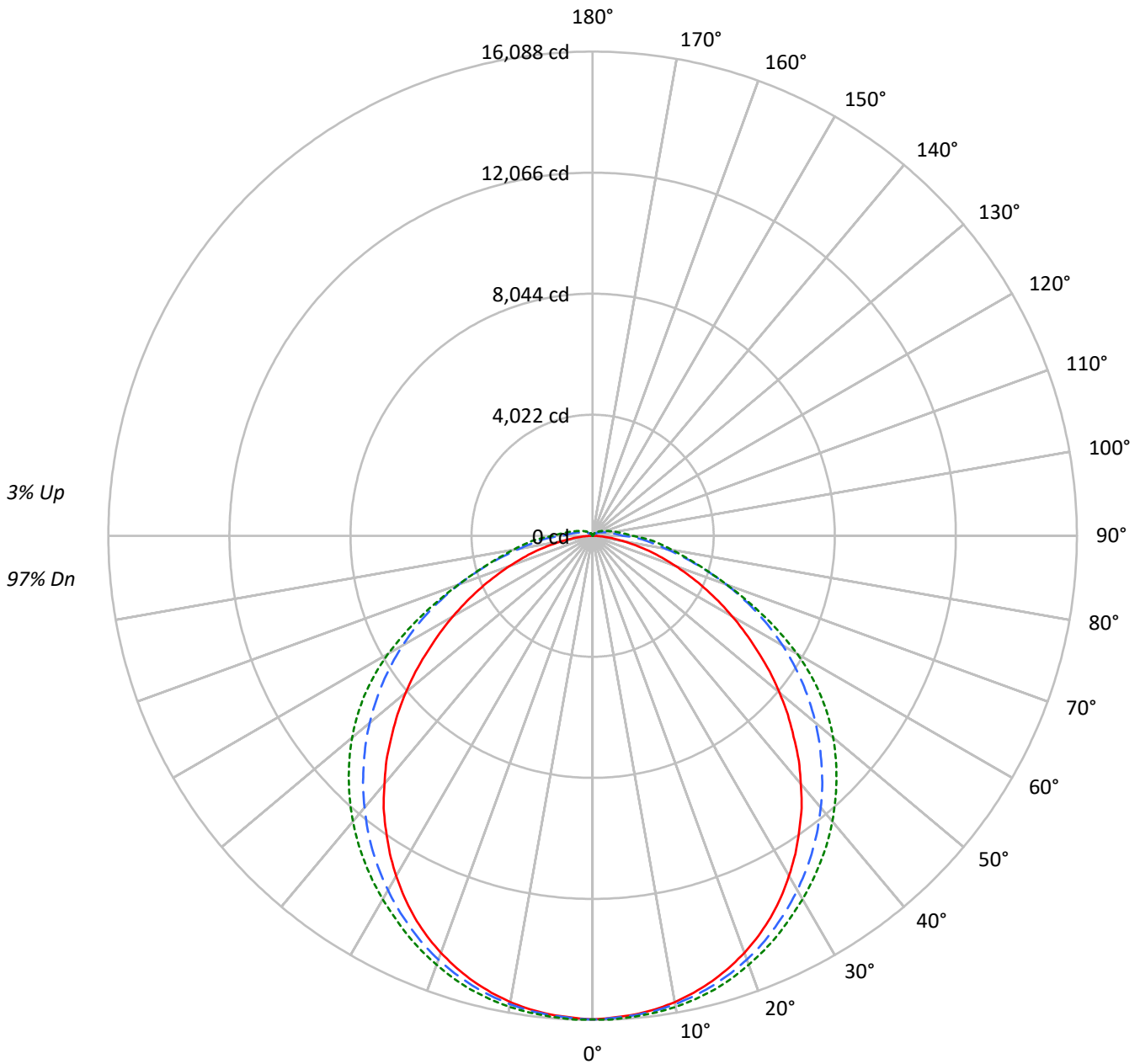
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48100.0 lumens  
Efficiency: N/A  
Efficacy: 166.6 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): 288.8  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	27450	27450	27450
5°	27275	27178	27256
10°	27083	26926	27096
15°	26781	26627	26891
20°	26379	26265	26599
25°	25843	25815	26304
30°	25100	25328	26006
35°	24201	24810	25745
40°	23122	24213	25486
45°	21848	23565	25160
50°	20455	22908	24766
55°	18743	22106	24115
60°	16989	21162	22847
65°	15075	19960	20785
70°	13000	18431	18552
75°	10900	16662	17011
80°	8264	15349	16762
85°	5228	15810	18487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1522.9	3.2
10°-20°	4368.9	9.1
20°-30°	6607.2	13.7
30°-40°	7932.1	16.5
40°-50°	8192.5	17.0
50°-60°	7370.7	15.3
60°-70°	5552.3	11.5
70°-80°	3352.6	7.0
80°-90°	1639.7	3.4
90°-100°	690.2	1.4
100°-110°	394.0	0.8
110°-120°	231.3	0.5
120°-130°	130.8	0.3
130°-140°	68.9	0.1
140°-150°	33.5	0.1
150°-160°	12.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12499.1	26.0
0°-40°	20431.1	42.5
0°-60°	35994.4	74.8
0°-90°	46539.0	96.8
90°-120°	1315.4	2.7
90°-150°	1548.6	3.2
90°-180°	1561.0	3.2
0°-180°	48100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16072	16072	16072	16072	16072	
5°	15970	16013	15993	16056	16036	###
15°	15324	15399	15470	15600	15616	4320
25°	13995	14148	14349	14573	14608	6437
35°	11965	12245	12748	13134	13212	7480
45°	9444	9920	10750	11336	11458	7291
55°	6691	7383	8504	9145	9255	5999
65°	4083	4917	6018	6317	6246	4056
75°	1923	2761	3485	3575	3540	2052
85°	401	1058	1746	1986	2022	464
90°	0	413	999	1259	1310	25
95°	20	279	747	952	987	17
105°	28	161	433	566	590	28
115°	32	90	268	358	374	32
125°	32	43	161	232	244	28
135°	28	35	83	142	157	22
145°	39	35	39	71	83	23
155°	39	43	39	35	39	12
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-48SE-MFL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16071.7	16071.7	16071.7	16071.7	16071.7
2.5°	16024.5	16063.9	16040.3	16091.4	16087.5
5°	15969.5	16012.7	15993.1	16056.0	16036.3
7.5°	15875.1	15922.3	15918.3	15989.1	15981.3
10°	15737.4	15788.5	15804.3	15898.7	15898.7
12.5°	15548.6	15615.5	15654.8	15768.9	15772.8
15°	15324.4	15399.1	15469.9	15599.7	15615.5
17.5°	15053.0	15147.4	15245.7	15395.2	15414.9
20°	14746.2	14852.4	14986.1	15143.5	15167.1
22.5°	14392.2	14518.1	14691.1	14876.0	14903.5
25°	13994.9	14148.3	14348.9	14573.1	14608.5
27.5°	13542.6	13719.6	13991.0	14242.7	14274.2
30°	13050.9	13259.4	13597.7	13896.6	13947.7
32.5°	12531.7	12771.6	13188.6	13522.9	13593.7
35°	11965.3	12244.6	12748.0	13133.5	13212.2
37.5°	11406.8	11713.6	12283.9	12724.4	12818.8
40°	10753.8	11135.4	11788.3	12276.0	12390.1
42.5°	10140.2	10553.2	11292.7	11823.7	11933.8
45°	9444.0	9920.0	10749.9	11336.0	11457.9
47.5°	8791.1	9306.3	10226.8	10832.5	10958.4
50°	8102.7	8669.1	9668.2	10301.5	10431.3
52.5°	7414.4	8024.1	9090.0	9746.9	9868.8
55°	6690.7	7382.9	8503.9	9145.1	9255.2
57.5°	6018.1	6749.7	7902.1	8511.8	8578.7
60°	5353.3	6112.5	7288.5	7823.5	7847.1
62.5°	4704.3	5502.8	6659.2	7084.0	7052.5
65°	4082.8	4916.7	6018.1	6317.0	6246.2
67.5°	3485.0	4346.4	5361.2	5553.9	5459.5
70°	2918.6	3791.8	4724.0	4822.3	4735.8
72.5°	2419.0	3264.7	4078.9	4161.5	4098.6
75°	1923.4	2761.2	3485.0	3575.4	3540.0
77.5°	1459.3	2273.5	2938.2	3056.2	3064.1
80°	1050.2	1829.0	2462.3	2647.2	2670.8
82.5°	692.3	1419.9	2065.0	2301.0	2336.4
85°	401.2	1058.1	1746.4	1986.4	2021.8
87.5°	173.1	763.1	1404.2	1620.5	1663.8
90°	0.0	413.0	999.1	1258.7	1309.8
92.5°	11.8	342.2	857.5	1093.5	1136.7
95°	19.7	279.3	747.3	951.9	987.3
97.5°	23.6	236.0	649.0	829.9	865.3
100°	23.6	204.5	562.5	727.7	759.1
102.5°	23.6	180.9	491.7	637.2	664.7
105°	27.5	161.3	432.7	566.4	590.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.5	106.2	298.9	401.2	416.9
115°	31.5	90.5	267.5	357.9	373.7
117.5°	35.4	78.7	236.0	322.5	334.3
120°	35.4	66.9	208.5	287.1	302.9
122.5°	35.4	55.1	184.9	259.6	271.4
125°	31.5	43.3	161.3	232.1	243.9
127.5°	27.5	35.4	137.7	208.5	220.3
130°	27.5	31.5	118.0	184.9	196.7
132.5°	27.5	35.4	98.3	161.3	177.0
135°	27.5	35.4	82.6	141.6	157.3
137.5°	27.5	35.4	66.9	121.9	137.7
140°	31.5	35.4	55.1	102.3	118.0
142.5°	35.4	35.4	43.3	86.5	98.3
145°	39.3	35.4	39.3	70.8	82.6
147.5°	39.3	39.3	39.3	55.1	66.9
150°	39.3	43.3	39.3	43.3	55.1
152.5°	39.3	43.3	39.3	35.4	43.3
155°	39.3	43.3	39.3	35.4	39.3
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°	27.5	141.6	381.5	503.5	523.1
110°	27.5	125.9	338.3	448.4	468.1



(END OF REPORT)