

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: P830554

Luminaire Tested: **OHBL-48SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830554  
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-L850-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

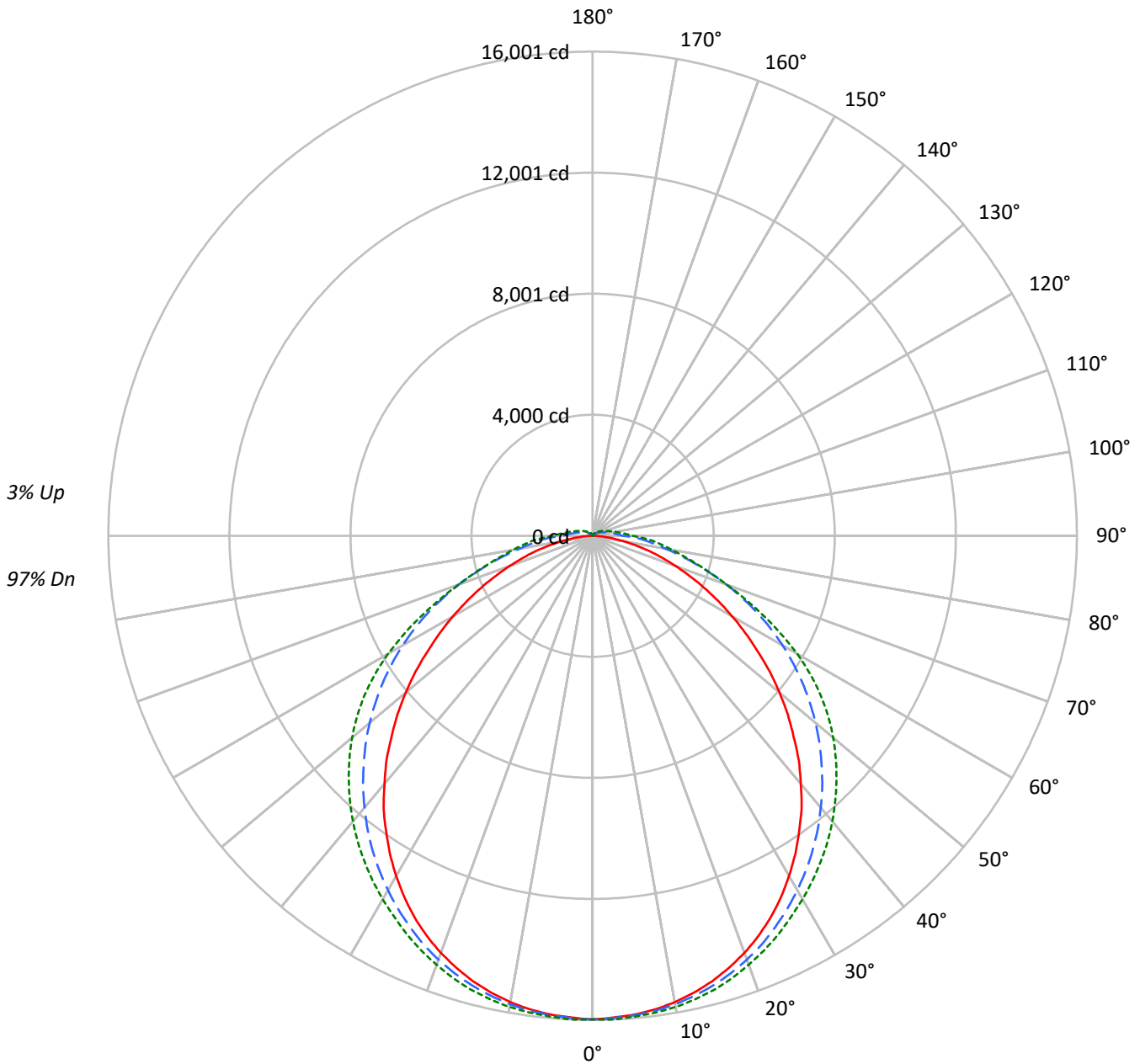
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47841.0 lumens  
Efficiency: N/A  
Efficacy: 165.7 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°	27303	27303	27303
5°	27128	27032	27109
10°	26938	26781	26950
15°	26637	26484	26746
20°	26237	26123	26456
25°	25704	25676	26162
30°	24965	25191	25866
35°	24071	24677	25607
40°	22997	24083	25349
45°	21731	23438	25024
50°	20345	22785	24632
55°	18642	21987	23986
60°	16898	21049	22724
65°	14994	19852	20674
70°	12930	18331	18452
75°	10841	16572	16920
80°	8220	15266	16671
85°	5199	15725	18387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1514.7	3.2
10°-20°	4345.4	9.1
20°-30°	6571.7	13.7
30°-40°	7889.3	16.5
40°-50°	8148.4	17.0
50°-60°	7331.0	15.3
60°-70°	5522.3	11.5
70°-80°	3334.6	7.0
80°-90°	1630.9	3.4
90°-100°	686.5	1.4
100°-110°	391.9	0.8
110°-120°	230.0	0.5
120°-130°	130.1	0.3
130°-140°	68.5	0.1
140°-150°	33.3	0.1
150°-160°	12.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12431.8	26.0
0°-40°	20321.1	42.5
0°-60°	35800.6	74.8
0°-90°	46288.4	96.8
90°-120°	1308.4	2.7
90°-150°	1540.3	3.2
90°-180°	1553.0	3.2
0°-180°	47841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15985	15985	15985	15985	15985	
5°	15884	15926	15907	15970	15950	###
15°	15242	15316	15387	15516	15531	4297
25°	13920	14072	14272	14495	14530	6403
35°	11901	12179	12679	13063	13141	7440
45°	9393	9866	10692	11275	11396	7252
55°	6655	7343	8458	9096	9205	5966
65°	4061	4890	5986	6283	6213	4034
75°	1913	2746	3466	3556	3521	2041
85°	399	1052	1737	1976	2011	461
90°	0	411	994	1252	1303	25
95°	20	278	743	947	982	17
105°	27	160	430	563	587	27
115°	31	90	266	356	372	32
125°	31	43	160	231	243	28
135°	27	35	82	141	156	22
145°	39	35	39	70	82	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15985.2	15985.2	15985.2	15985.2	15985.2
2.5°	15938.3	15977.4	15953.9	16004.8	16000.8
5°	15883.5	15926.5	15907.0	15969.6	15950.0
7.5°	15789.6	15836.5	15832.6	15903.0	15895.2
10°	15652.7	15703.5	15719.2	15813.1	15813.1
12.5°	15464.9	15531.4	15570.5	15684.0	15687.9
15°	15241.9	15316.2	15386.6	15515.7	15531.4
17.5°	14971.9	15065.8	15163.6	15312.3	15331.9
20°	14666.8	14772.4	14905.4	15061.9	15085.4
22.5°	14314.7	14439.9	14612.0	14795.9	14823.3
25°	13919.6	14072.1	14271.7	14494.7	14529.9
27.5°	13469.7	13645.7	13915.7	14166.0	14197.3
30°	12980.6	13188.0	13524.4	13821.8	13872.6
32.5°	12464.2	12702.9	13117.6	13450.1	13520.5
35°	11900.9	12178.6	12679.4	13062.8	13141.0
37.5°	11345.3	11650.5	12217.8	12655.9	12749.8
40°	10695.9	11075.4	11724.8	12209.9	12323.4
42.5°	10085.6	10496.4	11231.9	11760.0	11869.6
45°	9393.2	9866.5	10692.0	11274.9	11396.2
47.5°	8743.7	9256.2	10171.7	10774.2	10899.4
50°	8059.1	8622.5	9616.2	10246.0	10375.1
52.5°	7374.5	7980.9	9041.1	9694.4	9815.7
55°	6654.6	7343.2	8458.2	9095.8	9205.4
57.5°	5985.6	6713.3	7859.6	8466.0	8532.5
60°	5324.5	6079.5	7249.3	7781.3	7804.8
62.5°	4679.0	5473.2	6623.3	7045.9	7014.6
65°	4060.9	4890.2	5985.6	6283.0	6212.6
67.5°	3466.2	4323.0	5332.3	5524.0	5430.1
70°	2902.8	3771.3	4698.5	4796.3	4710.3
72.5°	2406.0	3247.1	4056.9	4139.1	4076.5
75°	1913.1	2746.4	3466.2	3556.2	3521.0
77.5°	1451.4	2261.2	2922.4	3039.8	3047.6
80°	1044.6	1819.2	2449.0	2632.9	2656.4
82.5°	688.5	1412.3	2053.9	2288.6	2323.8
85°	399.0	1052.4	1737.0	1975.7	2010.9
87.5°	172.1	759.0	1396.7	1611.8	1654.9
90°	0.0	410.8	993.7	1251.9	1302.8
92.5°	11.7	340.4	852.9	1087.6	1130.6
95°	19.6	277.8	743.3	946.7	982.0
97.5°	23.5	234.7	645.5	825.5	860.7
100°	23.5	203.4	559.4	723.8	755.1
102.5°	23.5	180.0	489.0	633.8	661.2
105°	27.4	160.4	430.3	563.4	586.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.3	105.6	297.3	399.0	414.7
115°	31.3	90.0	266.0	356.0	371.7
117.5°	35.2	78.2	234.7	320.8	332.5
120°	35.2	66.5	207.3	285.6	301.2
122.5°	35.2	54.8	183.9	258.2	269.9
125°	31.3	43.0	160.4	230.8	242.6
127.5°	27.4	35.2	136.9	207.3	219.1
130°	27.4	31.3	117.4	183.9	195.6
132.5°	27.4	35.2	97.8	160.4	176.0
135°	27.4	35.2	82.2	140.8	156.5
137.5°	27.4	35.2	66.5	121.3	136.9
140°	31.3	35.2	54.8	101.7	117.4
142.5°	35.2	35.2	43.0	86.1	97.8
145°	39.1	35.2	39.1	70.4	82.2
147.5°	39.1	39.1	39.1	54.8	66.5
150°	39.1	43.0	39.1	43.0	54.8
152.5°	39.1	43.0	39.1	35.2	43.0
155°	39.1	43.0	39.1	35.2	39.1
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°	27.4	140.8	379.5	500.8	520.3
110°	27.4	125.2	336.4	446.0	465.6



(END OF REPORT)