

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: P830576

Luminaire Tested: **OHBL-48SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-NL-UNV-L835-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

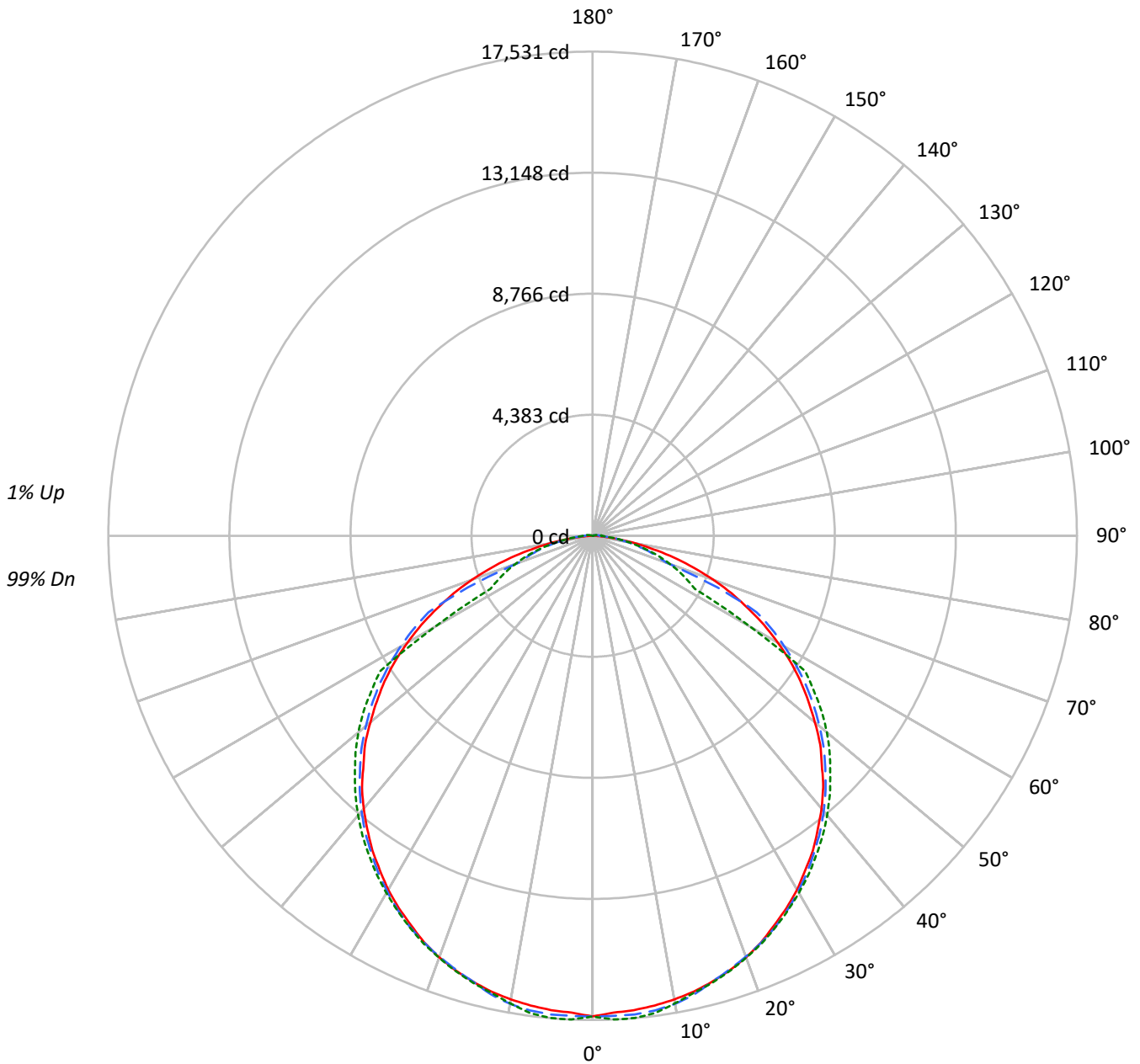
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48860.0 lumens  
Efficiency: N/A  
Efficacy: 169.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	29724	29724	29724
5°	29559	29827	30052
10°	29568	29848	29812
15°	29563	29557	29622
20°	29522	29478	29550
25°	29321	29470	29493
30°	29185	29335	29450
35°	28995	29154	29428
40°	28745	29018	29446
45°	28330	28758	29386
50°	27904	28472	29413
55°	27370	28079	29089
60°	26453	27392	22646
65°	25027	26483	15241
70°	23148	14059	14792
75°	20191	13360	14126
80°	15528	12256	12945
85°	7837	12385	12683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1653.3	3.4
10°-20°	4733.9	9.7
20°-30°	7203.0	14.7
30°-40°	8757.9	17.9
40°-50°	9208.5	18.8
50°-60°	8408.4	17.2
60°-70°	5390.2	11.0
70°-80°	2546.3	5.2
80°-90°	706.1	1.4
90°-100°	187.0	0.4
100°-110°	51.2	0.1
110°-120°	14.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13590.3	27.8
0°-40°	22348.1	45.7
0°-60°	39965.1	81.8
0°-90°	48607.6	99.5
90°-120°	252.4	0.5
90°-150°	252.4	0.5
90°-180°	252.0	0.5
0°-180°	48860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17403	17403	17403	17403	17403	
5°	17241	17308	17396	17491	17528	###
15°	16719	16844	16716	16740	16752	4720
25°	15558	15582	15638	15662	15650	7179
35°	13906	13824	13982	14154	14114	8691
45°	11729	11708	11906	12187	12166	9066
55°	9191	9121	9430	9744	9769	8197
65°	6193	6193	6553	3759	3771	6140
75°	3060	3118	2024	2132	2140	3225
85°	400	507	632	684	647	591
90°	0	171	281	333	327	18
95°	9	89	202	272	272	5
105°	15	34	49	49	46	15
115°	15	21	30	21	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17402.7	17402.7	17402.7	17402.7	17402.7
2.5°	17280.5	17338.7	17402.7	17485.1	17530.7
5°	17240.7	17307.9	17396.5	17491.3	17527.8
7.5°	17155.4	17249.8	17335.4	17402.7	17424.0
10°	17048.3	17161.5	17210.3	17204.2	17189.0
12.5°	16904.8	17024.1	17008.9	16938.4	16950.7
15°	16718.6	16843.7	16715.7	16739.9	16752.2
17.5°	16498.7	16620.9	16471.3	16520.1	16523.3
20°	16242.4	16333.9	16217.8	16257.6	16257.6
22.5°	15933.9	15998.0	15949.1	15976.6	15982.8
25°	15558.3	15582.5	15637.5	15662.1	15649.8
27.5°	15198.1	15167.4	15274.4	15332.3	15301.6
30°	14797.9	14749.1	14874.2	14968.9	14932.4
32.5°	14339.8	14309.4	14452.9	14565.8	14544.4
35°	13906.2	13823.8	13982.5	14153.6	14113.8
37.5°	13393.2	13344.3	13524.4	13704.8	13683.5
40°	12892.4	12809.9	13014.6	13228.3	13206.9
42.5°	12355.1	12257.1	12480.2	12736.9	12712.3
45°	11728.8	11707.5	11906.0	12186.9	12165.6
47.5°	11173.4	11066.4	11344.1	11616.0	11640.6
50°	10501.3	10461.8	10715.3	11045.1	11069.3
52.5°	9845.0	9817.5	10082.9	10415.9	10458.6
55°	9191.3	9121.1	9429.6	9744.1	9768.7
57.5°	8492.3	8418.9	8733.5	9075.6	9127.3
60°	7743.9	7673.7	8018.7	8336.5	6629.5
62.5°	6995.8	6947.0	7307.4	5176.0	4171.5
65°	6192.7	6192.7	6552.9	3759.0	3771.2
67.5°	5441.7	5392.9	4886.0	3377.1	3377.1
70°	4635.4	4653.8	2815.3	2959.1	2962.0
72.5°	3826.2	3893.4	2430.9	2546.6	2552.7
75°	3059.7	3117.9	2024.5	2131.5	2140.5
77.5°	2247.6	1728.3	1627.5	1710.2	1713.1
80°	1578.7	1090.2	1246.0	1325.2	1316.1
82.5°	922.0	763.3	913.0	971.2	967.9
85°	399.9	506.9	632.0	684.1	647.2
87.5°	128.0	314.6	393.8	424.5	421.3
90°	0.0	171.0	280.9	332.7	326.9
92.5°	0.0	134.2	244.4	305.5	308.4
95°	9.1	88.6	201.7	271.9	271.9
97.5°	6.1	64.0	143.5	213.7	219.8
100°	6.1	51.7	94.7	152.6	155.8
102.5°	15.2	42.7	57.9	97.6	100.9
105°	15.2	33.6	48.8	48.8	45.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.4	24.6	33.6	24.6	2.9
115°	15.2	21.3	30.4	21.3	2.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	15.2	30.4	42.7	27.5	9.1
110°	18.4	27.5	36.5	24.6	2.9



(END OF REPORT)