

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: P830578

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830578  
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-L850-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

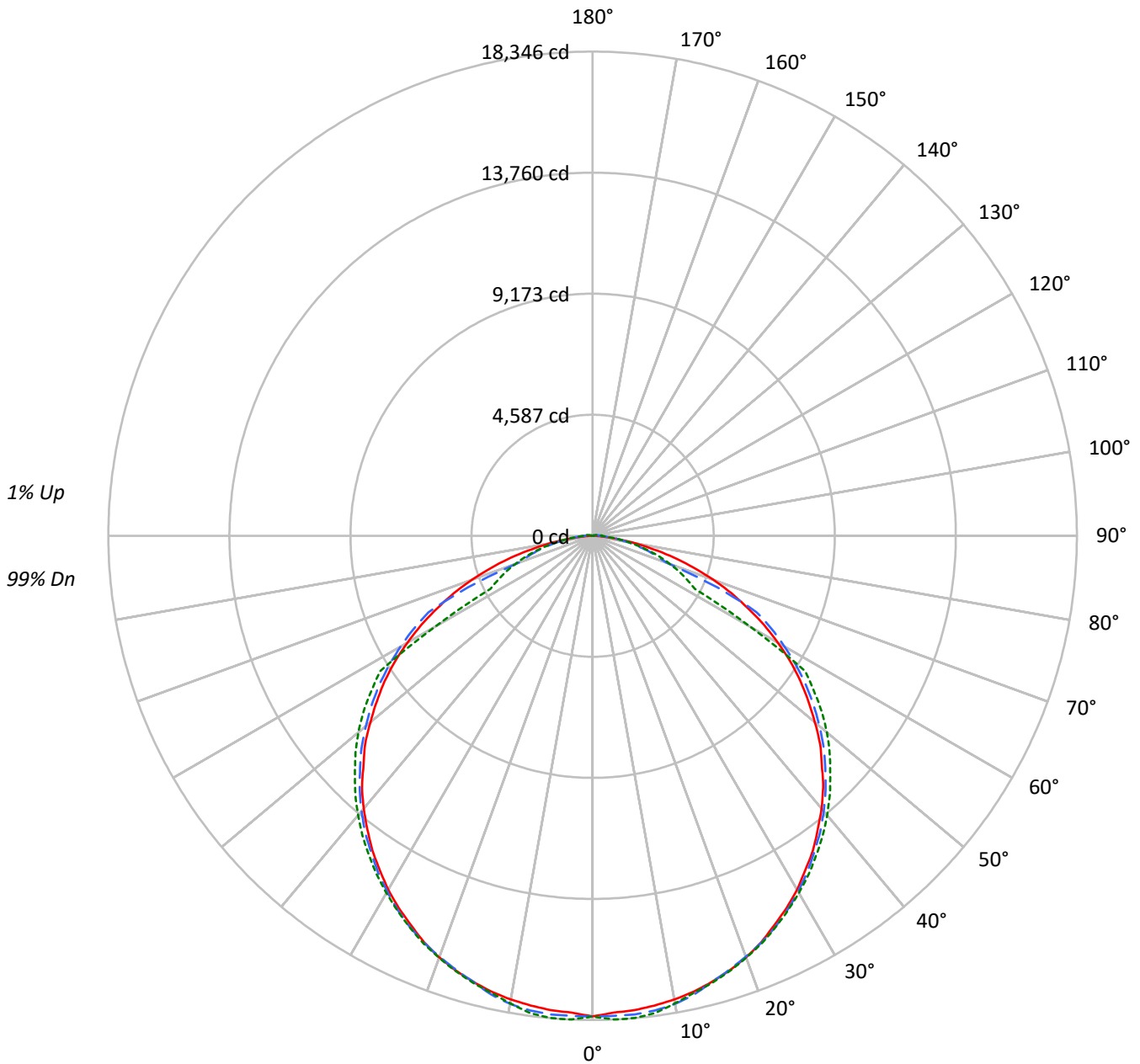
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51132.0 lumens  
Efficiency: N/A  
Efficacy: 177.0 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°	31106	31106	31106
5°	30934	31214	31449
10°	30943	31236	31198
15°	30937	30932	30999
20°	30895	30848	30924
25°	30684	30840	30864
30°	30542	30699	30819
35°	30344	30510	30797
40°	30082	30367	30816
45°	29648	30096	30752
50°	29201	29796	30781
55°	28642	29385	30442
60°	27683	28666	23699
65°	26191	27715	15950
70°	24225	14713	15480
75°	21130	13981	14783
80°	16250	12825	13547
85°	8201	12961	13273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1730.2	3.4
10°-20°	4954.0	9.7
20°-30°	7538.0	14.7
30°-40°	9165.1	17.9
40°-50°	9636.7	18.8
50°-60°	8799.4	17.2
60°-70°	5640.9	11.0
70°-80°	2664.7	5.2
80°-90°	738.9	1.4
90°-100°	195.7	0.4
100°-110°	53.6	0.1
110°-120°	14.8	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°	14222.2	27.8
0°-40°	23387.3	45.7
0°-60°	41823.4	81.8
0°-90°	50867.9	99.5
90°-120°	264.1	0.5
90°-150°	264.1	0.5
90°-180°	264.0	0.5
0°-180°	51132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18212	18212	18212	18212	18212	
5°	18042	18113	18206	18305	18343	###
15°	17496	17627	17493	17518	17531	4939
25°	16282	16307	16365	16390	16378	7513
35°	14553	14467	14633	14812	14770	9095
45°	12274	12252	12460	12754	12731	9487
55°	9619	9545	9868	10197	10223	8578
65°	6481	6481	6858	3934	3947	6425
75°	3202	3263	2119	2231	2240	3375
85°	418	530	661	716	677	619
90°	0	179	294	348	342	18
95°	10	93	211	284	284	5
105°	16	35	51	51	48	16
115°	16	22	32	22	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	



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CATALOG NUMBER: OHBL-48SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18211.9	18211.9	18211.9	18211.9	18211.9
2.5°	18084.0	18144.9	18211.9	18298.2	18345.9
5°	18042.4	18112.8	18205.5	18304.6	18342.8
7.5°	17953.1	18051.9	18141.5	18211.9	18234.2
10°	17841.1	17959.5	18010.6	18004.2	17988.3
12.5°	17690.9	17815.7	17799.8	17726.1	17738.9
15°	17496.0	17626.9	17493.0	17518.3	17531.2
17.5°	17265.9	17393.8	17237.2	17288.3	17291.6
20°	16997.6	17093.4	16971.9	17013.5	17013.5
22.5°	16674.9	16741.9	16690.8	16719.5	16726.0
25°	16281.7	16307.1	16364.6	16390.3	16377.5
27.5°	15904.8	15872.7	15984.7	16045.2	16013.1
30°	15486.0	15434.9	15565.8	15665.0	15626.7
32.5°	15006.6	14974.8	15125.0	15243.1	15220.7
35°	14552.9	14466.6	14632.7	14811.7	14770.1
37.5°	14015.9	13964.9	14153.3	14342.1	14319.8
40°	13491.9	13405.6	13619.8	13843.4	13821.1
42.5°	12929.6	12827.1	13060.5	13329.1	13303.4
45°	12274.2	12251.9	12459.6	12753.6	12731.3
47.5°	11693.0	11581.0	11871.6	12156.2	12181.9
50°	10989.6	10948.3	11213.6	11558.7	11584.0
52.5°	10302.8	10274.0	10551.8	10900.3	10944.9
55°	9618.7	9545.3	9868.0	10197.2	10222.9
57.5°	8887.2	8810.4	9139.6	9497.6	9551.7
60°	8104.0	8030.6	8391.6	8724.1	6937.8
62.5°	7321.1	7270.0	7647.2	5416.6	4365.5
65°	6480.7	6480.7	6857.6	3933.7	3946.6
67.5°	5694.8	5643.7	5113.2	3534.2	3534.2
70°	4851.0	4870.2	2946.2	3096.7	3099.8
72.5°	4004.1	4074.5	2543.9	2665.0	2671.4
75°	3201.9	3262.8	2118.6	2230.6	2240.1
77.5°	2352.1	1808.7	1703.1	1789.8	1792.8
80°	1652.1	1140.8	1303.9	1386.8	1377.3
82.5°	964.9	798.8	955.4	1016.3	1013.0
85°	418.5	530.5	661.4	715.9	677.3
87.5°	134.0	329.2	412.1	444.2	440.8
90°	0.0	179.0	294.0	348.1	342.1
92.5°	0.0	140.4	255.8	319.7	322.8
95°	9.5	92.7	211.1	284.5	284.5
97.5°	6.4	67.0	150.2	223.6	230.1
100°	6.4	54.1	99.1	159.7	163.1
102.5°	15.9	44.7	60.6	102.2	105.6
105°	15.9	35.2	51.1	51.1	48.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.3	25.7	35.2	25.7	3.0
115°	15.9	22.3	31.8	22.3	3.0
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°	15.9	31.8	44.7	28.8	9.5
110°	19.3	28.8	38.2	25.7	3.0



(END OF REPORT)