

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: P830575

Luminaire Tested: **OHBL-48SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830575  
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-L830-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

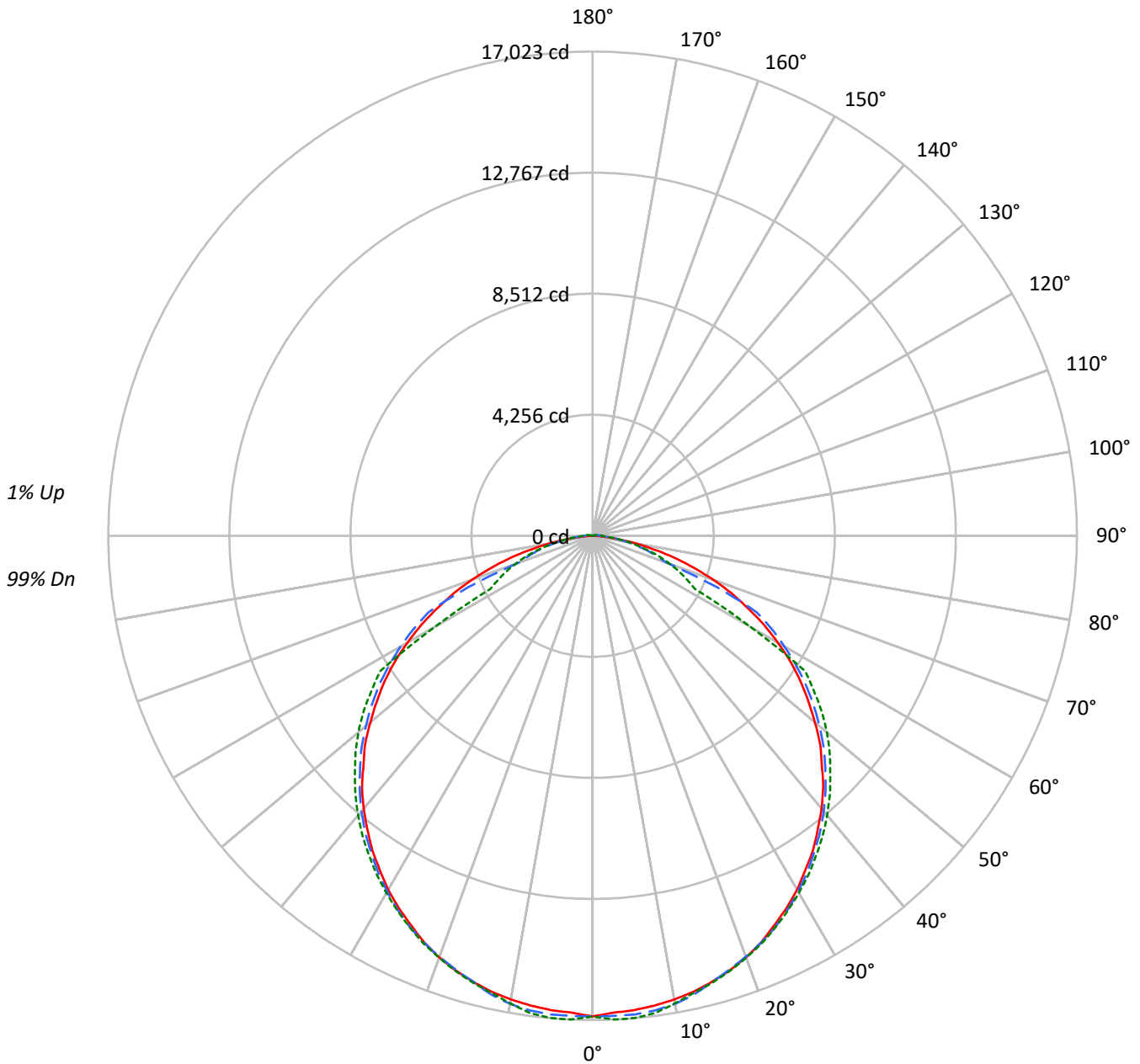
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47444.0 lumens  
Efficiency: N/A  
Efficacy: 164.3 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 (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	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°	28862	28862	28862
5°	28703	28962	29181
10°	28711	28983	28947
15°	28706	28701	28763
20°	28667	28623	28693
25°	28471	28616	28638
30°	28339	28485	28596
35°	28155	28310	28575
40°	27912	28177	28593
45°	27509	27925	28534
50°	27095	27647	28560
55°	26576	27266	28246
60°	25686	26598	21990
65°	24302	25716	14799
70°	22478	13652	14363
75°	19606	12973	13716
80°	15077	11900	12570
85°	7610	12027	12317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1605.4	3.4
10°-20°	4596.7	9.7
20°-30°	6994.3	14.7
30°-40°	8504.1	17.9
40°-50°	8941.6	18.8
50°-60°	8164.8	17.2
60°-70°	5234.0	11.0
70°-80°	2472.5	5.2
80°-90°	685.6	1.4
90°-100°	181.6	0.4
100°-110°	49.7	0.1
110°-120°	13.8	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°	13196.4	27.8
0°-40°	21700.5	45.7
0°-60°	38806.9	81.8
0°-90°	47199.0	99.5
90°-120°	245.1	0.5
90°-150°	245.1	0.5
90°-180°	245.0	0.5
0°-180°	47444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16898	16898	16898	16898	16898	
5°	16741	16806	16892	16984	17020	###
15°	16234	16356	16231	16255	16267	4583
25°	15107	15131	15184	15208	15196	6971
35°	13503	13423	13577	13743	13705	8439
45°	11389	11368	11561	11834	11813	8803
55°	8925	8857	9156	9462	9486	7960
65°	6013	6013	6363	3650	3662	5962
75°	2971	3028	1966	2070	2078	3132
85°	388	492	614	664	628	574
90°	0	166	273	323	317	17
95°	9	86	196	264	264	5
105°	15	33	47	47	45	15
115°	15	21	30	21	3	10
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16898.3	16898.3	16898.3	16898.3	16898.3
2.5°	16779.7	16836.2	16898.3	16978.4	17022.6
5°	16741.1	16806.4	16892.4	16984.3	17019.8
7.5°	16658.2	16749.8	16833.0	16898.3	16919.1
10°	16554.3	16664.1	16711.5	16705.6	16690.8
12.5°	16414.9	16530.7	16516.0	16447.5	16459.5
15°	16234.1	16355.6	16231.2	16254.8	16266.7
17.5°	16020.6	16139.3	15993.9	16041.3	16044.5
20°	15771.7	15860.5	15747.8	15786.4	15786.4
22.5°	15472.2	15534.3	15486.9	15513.6	15519.6
25°	15107.4	15130.9	15184.3	15208.2	15196.2
27.5°	14757.7	14727.8	14831.8	14887.9	14858.1
30°	14369.0	14321.6	14443.1	14535.1	14499.6
32.5°	13924.2	13894.7	14034.1	14143.6	14122.9
35°	13503.2	13423.2	13577.3	13743.4	13704.8
37.5°	13005.0	12957.6	13132.5	13307.6	13286.9
40°	12518.7	12438.7	12637.4	12844.9	12824.2
42.5°	11997.0	11901.9	12118.5	12367.7	12343.9
45°	11388.9	11368.2	11561.0	11833.8	11813.0
47.5°	10849.6	10745.7	11015.4	11279.4	11303.2
50°	10196.9	10158.7	10404.8	10725.0	10748.5
52.5°	9559.7	9533.0	9790.7	10114.1	10155.5
55°	8924.9	8856.8	9156.3	9461.7	9485.6
57.5°	8246.2	8175.0	8480.4	8812.5	8862.8
60°	7519.5	7451.4	7786.3	8094.9	6437.4
62.5°	6793.0	6745.6	7095.7	5026.0	4050.6
65°	6013.3	6013.3	6363.0	3650.0	3661.9
67.5°	5284.0	5236.6	4744.4	3279.3	3279.3
70°	4501.1	4519.0	2733.7	2873.4	2876.2
72.5°	3715.3	3780.6	2360.4	2472.8	2478.8
75°	2971.0	3027.5	1965.8	2069.7	2078.5
77.5°	2182.4	1678.2	1580.3	1660.7	1663.5
80°	1532.9	1058.6	1209.9	1286.8	1278.0
82.5°	895.3	741.2	886.5	943.0	939.9
85°	388.3	492.2	613.7	664.3	628.5
87.5°	124.3	305.5	382.4	412.2	409.0
90°	0.0	166.1	272.8	323.0	317.4
92.5°	0.0	130.3	237.3	296.7	299.5
95°	8.8	86.0	195.9	264.0	264.0
97.5°	6.0	62.2	139.4	207.5	213.5
100°	6.0	50.2	92.0	148.2	151.3
102.5°	14.8	41.4	56.2	94.8	97.9
105°	14.8	32.6	47.4	47.4	44.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.9	23.9	32.6	23.9	2.8
115°	14.8	20.7	29.5	20.7	2.8
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°	14.8	29.5	41.4	26.7	8.8
110°	17.9	26.7	35.5	23.9	2.8



(END OF REPORT)