

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: P830591

Luminaire Tested: **OHBL-48SE-W-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

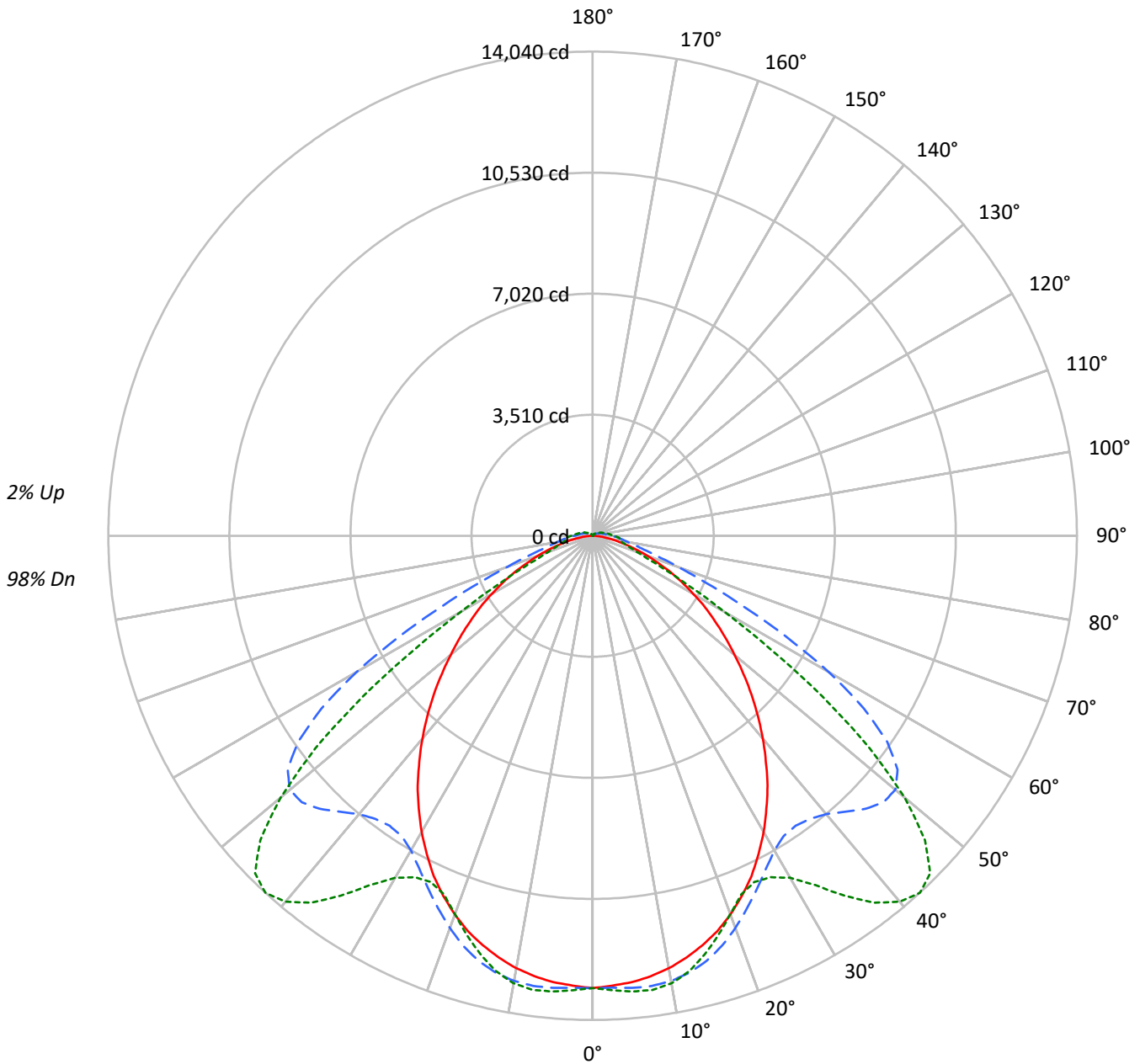
Test Method: LM-79-08  
Report Number: P830591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-W-UNV-L930-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39268.0 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

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

	0°	45°	90°
0°	22400	22400	22400
5°	22191	22369	22545
10°	21913	22334	22462
15°	21485	21965	21635
20°	20900	21210	20469
25°	20116	20296	19951
30°	19074	19616	21346
35°	17885	19979	24822
40°	16505	21637	28496
45°	15062	24544	30389
50°	13558	27139	28020
55°	12144	27104	21174
60°	10704	22930	12769
65°	9183	15832	7598
70°	7461	10234	5354
75°	5676	7332	4786
80°	4074	6438	5078
85°	2765	7069	7063



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1253.3	3.2
10°-20°	3548.9	9.0
20°-30°	5193.2	13.2
30°-40°	6744.4	17.2
40°-50°	8235.8	21.0
50°-60°	7252.9	18.5
60°-70°	3779.5	9.6
70°-80°	1620.8	4.1
80°-90°	778.4	2.0
90°-100°	365.7	0.9
100°-110°	227.3	0.6
110°-120°	134.4	0.3
120°-130°	73.1	0.2
130°-140°	36.7	0.1
140°-150°	17.6	0.0
150°-160°	6.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9995.3	25.5
0°-40°	16739.7	42.6
0°-60°	32228.4	82.1
0°-90°	38407.1	97.8
90°-120°	727.4	1.9
90°-150°	854.7	2.2
90°-180°	861.0	2.2
0°-180°	39268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13115	13115	13115	13115	13115	
5°	12993	13092	13163	13279	13265	###
15°	12294	12639	12761	12665	12563	3462
25°	10894	11476	11281	11069	11080	4999
35°	8842	9776	10266	11972	12738	5511
45°	6511	8191	11196	13556	13839	5020
55°	4335	7176	10427	9142	8126	3890
65°	2487	4972	4773	2654	2283	2461
75°	1002	2326	1534	1050	996	1092
85°	212	829	781	764	772	237
90°	3	300	515	588	603	15
95°	6	175	410	481	495	4
105°	11	99	266	320	325	12
115°	17	57	164	201	207	18
125°	20	28	96	124	127	17
135°	17	17	45	76	79	13
145°	23	17	20	37	42	13
155°	23	23	17	17	17	7
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°	13114.8	13114.8	13114.8	13114.8	<i>13114.8</i>
2.5°	13058.2	13114.8	13117.6	13196.9	<i>13188.4</i>
5°	12993.1	13092.2	13162.9	13278.9	<i>13264.8</i>
7.5°	12885.6	13041.2	13165.7	13293.1	<i>13281.7</i>
10°	12732.8	12945.0	13109.1	13213.8	<i>13179.9</i>
12.5°	12534.7	12814.9	12976.1	12998.8	<i>12933.7</i>
15°	12294.2	12639.4	12761.1	12664.9	<i>12563.0</i>
17.5°	12022.6	12427.2	12469.7	12260.3	<i>12133.0</i>
20°	11683.1	12144.3	12101.8	11813.2	<i>11671.7</i>
22.5°	11306.7	11833.0	11697.2	11394.5	<i>11258.6</i>
25°	10893.6	11476.5	11281.3	11069.1	<i>11080.4</i>
27.5°	10409.8	11071.9	10882.3	10978.5	<i>11159.6</i>
30°	9917.4	10647.5	10531.4	11091.7	<i>11448.2</i>
32.5°	9377.0	10211.7	10316.4	11422.7	<i>12005.6</i>
35°	8842.2	9776.0	10265.5	11971.7	<i>12738.5</i>
37.5°	8250.9	9334.6	10347.5	12605.5	<i>13409.1</i>
40°	7676.5	8904.5	10534.3	13174.2	<i>13853.3</i>
42.5°	<i>7090.8</i>	<i>8519.7</i>	<i>10848.4</i>	<i>13510.9</i>	<i>14040.0</i>
45°	6510.7	8191.4	11196.4	13556.2	<i>13839.2</i>
47.5°	5930.7	7914.1	11436.9	13196.9	<i>13066.7</i>
50°	5370.4	7668.0	11453.9	12333.8	<i>11801.9</i>
52.5°	4847.0	7441.6	11142.6	10958.7	<i>10132.5</i>
55°	4334.8	7175.6	10426.8	9142.2	<i>8126.4</i>
57.5°	3867.9	6807.8	9323.2	7189.8	<i>6080.6</i>
60°	3372.8	6309.8	7897.2	5260.1	<i>4385.7</i>
62.5°	2917.2	5690.2	6298.5	3661.4	<i>3152.1</i>
65°	2487.1	4971.5	4773.4	2654.1	<i>2283.4</i>
67.5°	2031.6	4227.3	3522.7	1935.4	<i>1697.7</i>
70°	1675.1	3536.9	2623.0	1505.3	<i>1366.7</i>
72.5°	1310.1	2880.4	1960.9	1222.3	<i>1146.0</i>
75°	1001.6	2325.9	1533.6	1049.7	<i>996.0</i>
77.5°	738.5	1839.2	1233.7	928.1	<i>877.1</i>
80°	517.8	1448.7	1032.8	829.0	<i>809.2</i>
82.5°	348.0	1120.5	880.0	789.4	<i>792.3</i>
85°	212.2	829.0	780.9	764.0	<i>772.5</i>
87.5°	101.9	588.5	670.6	696.1	<i>704.5</i>
90°	2.8	299.9	515.0	588.5	<i>602.7</i>
92.5°	0.0	229.2	452.7	526.3	<i>540.4</i>
95°	5.7	175.4	410.3	481.0	<i>495.2</i>
97.5°	5.7	144.3	367.8	441.4	<i>449.9</i>
100°	8.5	124.5	328.2	399.0	<i>407.4</i>
102.5°	8.5	110.4	294.3	356.5	<i>362.2</i>
105°	11.3	99.0	266.0	319.7	<i>325.4</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.0	67.9	186.7	226.4	232.0
115°	17.0	56.6	164.1	200.9	206.6
117.5°	19.8	50.9	144.3	178.3	181.1
120°	19.8	42.4	124.5	158.5	161.3
122.5°	19.8	34.0	110.4	141.5	144.3
125°	19.8	28.3	96.2	124.5	127.3
127.5°	17.0	19.8	82.1	110.4	113.2
130°	17.0	17.0	67.9	96.2	101.9
132.5°	17.0	17.0	56.6	84.9	90.5
135°	17.0	17.0	45.3	76.4	79.2
137.5°	17.0	17.0	36.8	65.1	70.7
140°	17.0	17.0	28.3	56.6	59.4
142.5°	19.8	17.0	25.5	48.1	50.9
145°	22.6	17.0	19.8	36.8	42.4
147.5°	22.6	19.8	19.8	31.1	34.0
150°	22.6	22.6	17.0	22.6	28.3
152.5°	22.6	22.6	17.0	17.0	22.6
155°	22.6	22.6	17.0	17.0	17.0
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°	14.1	87.7	237.7	285.8	291.4
110°	14.1	76.4	209.4	254.7	260.3



(END OF REPORT)