

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: P829778

Luminaire Tested: **OHBL-12SE-N-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-N-UNV-L950-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

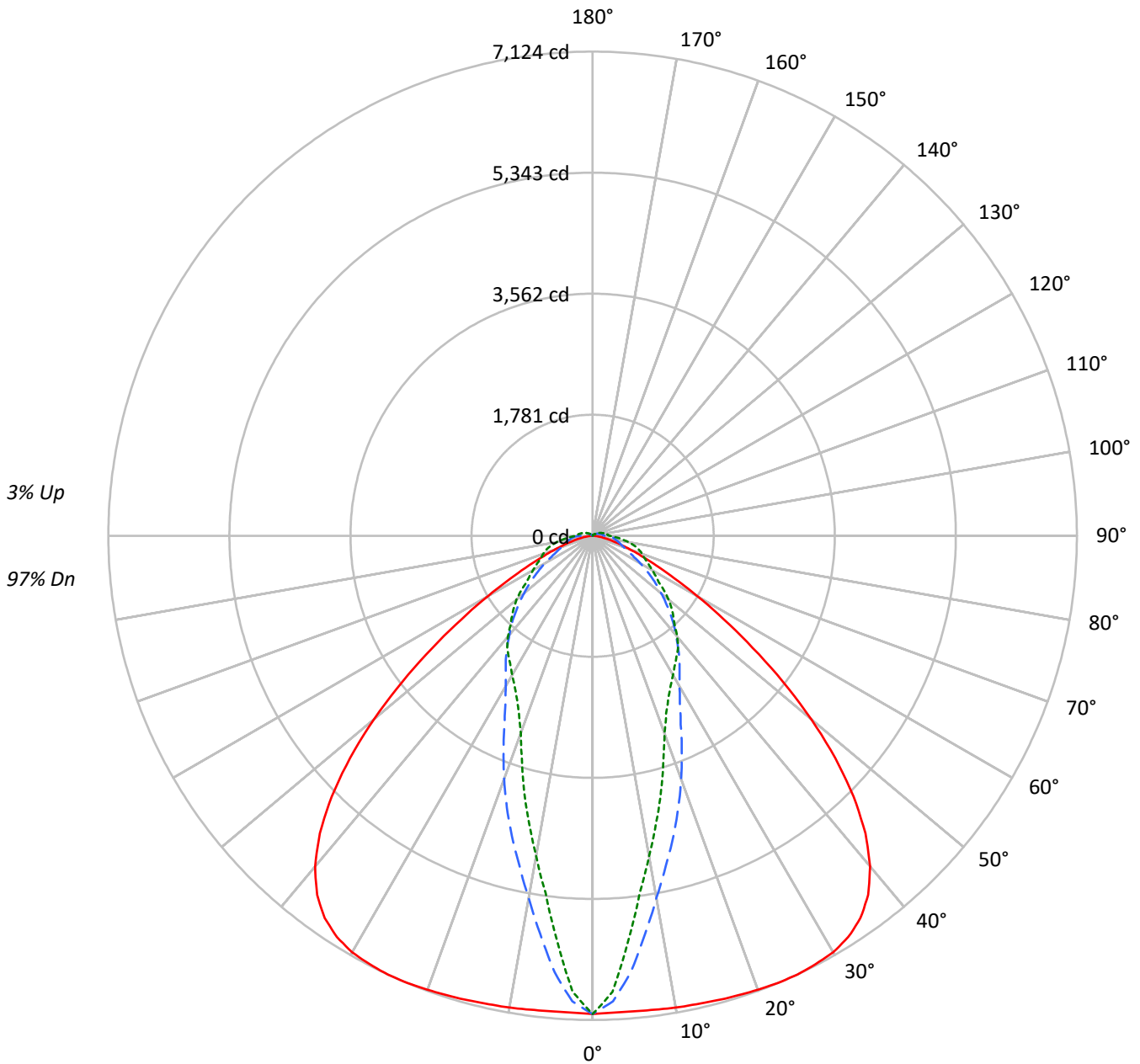
Lumens per Lamp: N/A  
Luminaire Lumens: 10386.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70  
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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	22894	22894	22894
5°	22847	20734	19233
10°	23105	17369	15303
15°	23556	14773	12463
20°	24218	12421	10001
25°	25056	10221	8691
30°	25922	8750	8004
35°	26461	7922	7555
40°	26008	7103	7095
45°	23927	6367	6494
50°	20187	5573	6017
55°	15339	4828	5274
60°	10749	4086	4957
65°	7231	3461	4744
70°	4938	3177	4830
75°	3427	3177	4950
80°	2359	3355	4783
85°	1380	3859	4492



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.4	5.7
10°-20°	1393.5	13.4
20°-30°	1746.8	16.8
30°-40°	1853.5	17.8
40°-50°	1675.9	16.1
50°-60°	1215.1	11.7
60°-70°	762.6	7.3
70°-80°	504.6	4.9
80°-90°	290.7	2.8
90°-100°	140.8	1.4
100°-110°	97.2	0.9
110°-120°	60.0	0.6
120°-130°	29.1	0.3
130°-140°	13.4	0.1
140°-150°	7.3	0.1
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3732.7	35.9
0°-40°	5586.2	53.8
0°-60°	8477.2	81.6
0°-90°	10035.1	96.6
90°-120°	298.0	2.9
90°-150°	347.8	3.3
90°-180°	351.0	3.4
0°-180°	10386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7037	7037	7037	7037	7037	
5°	7023	6843	6441	6142	5988	671
15°	7077	5768	4581	4074	3889	2007
25°	7124	4460	3068	2722	2636	3291
35°	6868	2965	2226	2157	2156	4270
45°	5430	1878	1613	1652	1680	4136
55°	2875	1164	1053	1142	1183	2597
65°	1028	675	610	781	868	1070
75°	318	364	409	636	674	354
85°	56	151	299	417	382	67
90°	0	63	174	244	246	4
95°	3	44	153	208	217	2
105°	5	30	111	147	151	5
115°	7	21	75	94	96	7
125°	8	11	38	48	48	7
135°	7	8	17	26	26	5
145°	8	9	10	15	15	5
155°	8	10	11	11	10	2
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°	7037.1	7037.1	7037.1	7037.1	7037.1
2.5°	7022.3	6982.1	6856.9	6780.6	6716.3
5°	7023.0	6842.8	6441.0	6142.3	5987.6
7.5°	7033.1	6632.5	5908.5	5472.5	5302.4
10°	7048.5	6372.0	5411.6	4946.8	4788.0
12.5°	7059.8	6078.7	4974.2	4496.7	4322.6
15°	7076.6	5767.9	4581.1	4074.1	3889.2
17.5°	7092.0	5475.2	4192.6	3662.9	3457.3
20°	7107.4	5159.8	3804.2	3258.3	3088.9
22.5°	7122.1	4826.9	3425.1	2944.2	2828.4
25°	7123.5	4459.9	3067.5	2722.5	2636.1
27.5°	7106.1	4079.5	2777.5	2537.0	2483.4
30°	7075.9	3710.4	2552.4	2403.1	2364.9
32.5°	7000.9	3334.0	2378.3	2273.8	2251.7
35°	6868.3	2965.0	2226.3	2156.6	2155.9
37.5°	6659.3	2637.5	2061.5	2049.4	2064.2
40°	6350.6	2350.8	1905.4	1937.6	1937.6
42.5°	5938.7	2101.7	1764.1	1796.9	1788.2
45°	5429.7	1878.0	1613.4	1652.3	1680.4
47.5°	4839.6	1681.1	1459.4	1534.4	1573.2
50°	4198.0	1493.5	1318.7	1414.5	1458.7
52.5°	3525.6	1320.1	1181.4	1291.3	1326.8
55°	2874.6	1164.0	1052.8	1141.9	1182.8
57.5°	2285.2	1015.3	926.9	1011.3	1095.7
60°	1778.2	887.4	808.4	928.9	1013.3
62.5°	1358.3	773.6	697.2	851.9	936.3
65°	1028.1	675.1	609.5	780.9	868.0
67.5°	774.9	590.1	541.2	729.4	814.4
70°	582.0	507.7	486.2	697.2	773.6
72.5°	430.0	432.0	442.7	669.1	727.3
75°	317.5	363.7	409.2	635.6	673.8
77.5°	227.0	301.4	379.1	595.4	608.8
80°	157.4	245.8	347.6	542.5	531.1
82.5°	98.5	196.9	319.5	484.2	452.8
85°	55.6	150.7	299.4	416.6	382.4
87.5°	24.8	112.5	261.9	324.8	303.4
90°	0.0	63.0	173.5	244.5	246.5
92.5°	1.3	52.2	160.1	223.7	230.4
95°	2.7	44.2	152.7	207.6	217.0
97.5°	3.3	38.8	143.3	192.9	200.9
100°	4.0	34.8	131.9	177.5	184.2
102.5°	4.7	32.1	121.2	161.4	166.8
105°	5.4	29.5	111.2	147.3	151.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.7	22.8	83.7	105.8	109.2
115°	7.4	20.8	75.0	93.8	95.8
117.5°	8.0	18.1	65.6	82.4	83.0
120°	8.0	16.1	56.3	70.3	70.3
122.5°	8.0	13.4	46.9	58.3	57.6
125°	8.0	10.7	38.2	48.2	47.6
127.5°	7.4	8.7	30.8	40.2	39.5
130°	7.4	8.7	24.8	34.2	34.2
132.5°	6.7	8.0	20.1	29.5	29.5
135°	6.7	8.0	16.7	26.1	26.1
137.5°	6.7	8.7	14.1	22.8	22.8
140°	6.7	8.0	12.1	20.1	20.1
142.5°	7.4	8.0	10.7	17.4	17.4
145°	8.0	8.7	10.0	15.4	14.7
147.5°	8.0	9.4	10.0	13.4	12.7
150°	8.0	10.0	10.0	12.1	11.4
152.5°	8.0	10.0	10.0	11.4	10.7
155°	8.0	10.0	10.7	11.4	10.0
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°	5.4	27.5	101.8	131.9	136.6
110°	6.0	24.8	93.1	117.9	122.6



(END OF REPORT)