

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: P829776

Luminaire Tested: **OHBL-12SE-N-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829776  
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-L935-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

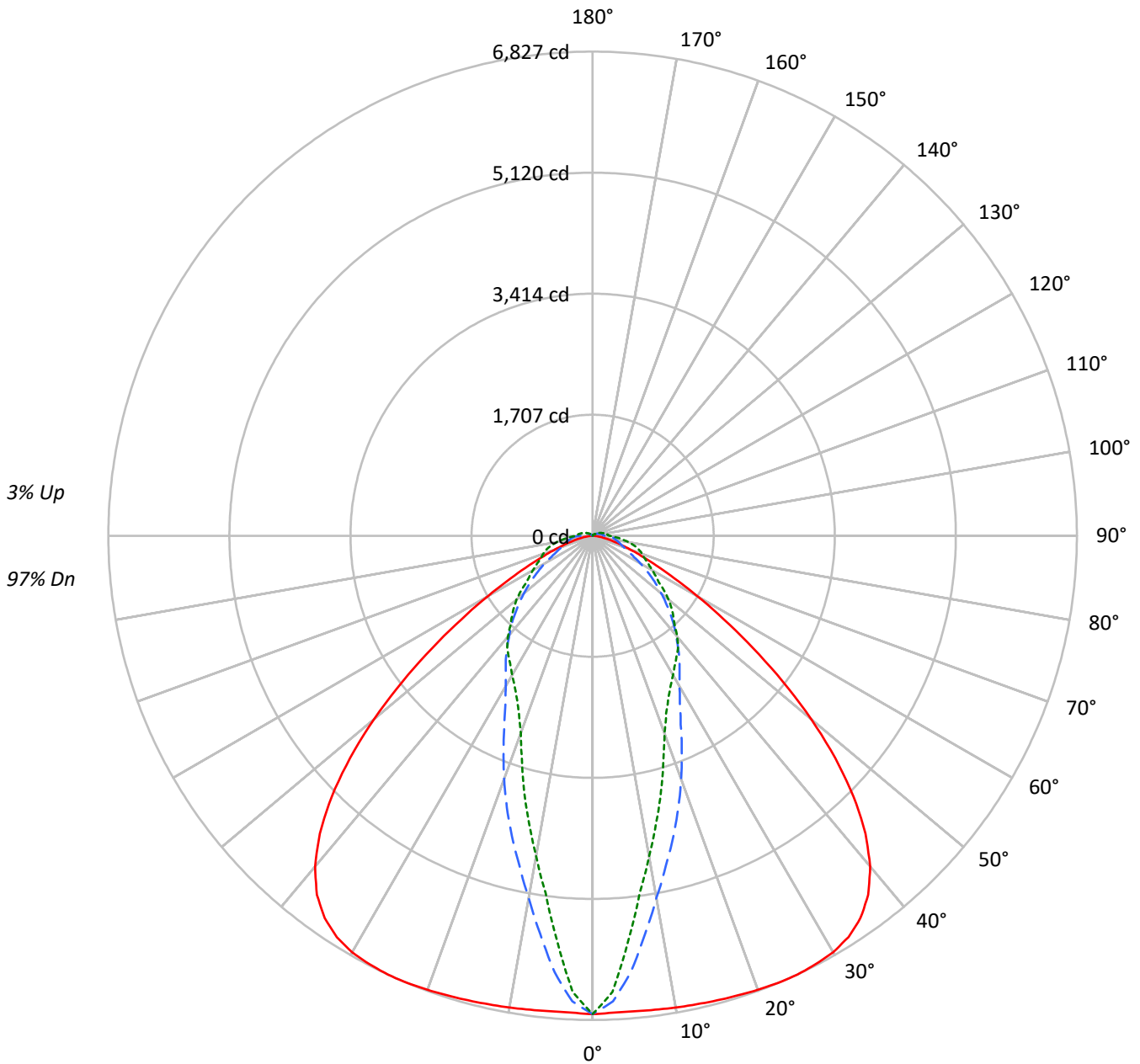
Lumens per Lamp: N/A  
Luminaire Lumens: 9954.0 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	21942	21942	21942
5°	21897	19871	18433
10°	22144	16647	14667
15°	22576	14158	11945
20°	23211	11904	9585
25°	24014	9795	8329
30°	24843	8387	7671
35°	25360	7592	7241
40°	24926	6808	6800
45°	22931	6102	6224
50°	19347	5341	5766
55°	14701	4627	5055
60°	10302	3916	4751
65°	6930	3317	4546
70°	4733	3045	4629
75°	3285	3045	4744
80°	2260	3216	4584
85°	1323	3698	4305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.7	5.7
10°-20°	1335.6	13.4
20°-30°	1674.1	16.8
30°-40°	1776.4	17.8
40°-50°	1606.2	16.1
50°-60°	1164.6	11.7
60°-70°	730.8	7.3
70°-80°	483.6	4.9
80°-90°	278.6	2.8
90°-100°	135.0	1.4
100°-110°	93.2	0.9
110°-120°	57.5	0.6
120°-130°	27.8	0.3
130°-140°	12.8	0.1
140°-150°	7.0	0.1
150°-160°	3.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3577.4	35.9
0°-40°	5353.8	53.8
0°-60°	8124.6	81.6
0°-90°	9617.7	96.6
90°-120°	285.7	2.9
90°-150°	333.3	3.3
90°-180°	336.0	3.4
0°-180°	9954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6744	6744	6744	6744	6744	
5°	6731	6558	6173	5887	5738	643
15°	6782	5528	4390	3905	3728	1923
25°	6827	4274	2940	2609	2526	3154
35°	6583	2842	2134	2067	2066	4092
45°	5204	1800	1546	1584	1610	3964
55°	2755	1116	1009	1094	1134	2489
65°	985	647	584	748	832	1025
75°	304	348	392	609	646	339
85°	53	144	287	399	366	64
90°	0	60	166	234	236	3
95°	3	42	146	199	208	2
105°	5	28	107	141	145	5
115°	7	20	72	90	92	7
125°	8	10	37	46	46	7
135°	6	8	16	25	25	5
145°	8	8	10	15	14	5
155°	8	10	10	11	10	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829776

CATALOG NUMBER: OHBL-12SE-N-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6744.4	6744.4	6744.4	6744.4	6744.4
2.5°	6730.2	6691.7	6571.7	6498.5	6436.9
5°	6730.9	6558.2	6173.1	5886.8	5738.5
7.5°	6740.5	6356.7	5662.8	5244.9	5081.9
10°	6755.3	6107.0	5186.5	4741.0	4588.9
12.5°	6766.2	5825.8	4767.3	4309.7	4142.8
15°	6782.2	5528.0	4390.5	3904.6	3727.5
17.5°	6797.0	5247.5	4018.2	3510.5	3313.4
20°	6811.8	4945.1	3646.0	3122.8	2960.4
22.5°	6825.9	4626.1	3282.6	2821.8	2710.7
25°	6827.2	4274.4	2939.9	2609.3	2526.5
27.5°	6810.5	3909.8	2661.9	2431.5	2380.1
30°	6781.6	3556.1	2446.3	2303.1	2266.5
32.5°	6709.7	3195.3	2279.4	2179.2	2158.0
35°	6582.6	2841.7	2133.7	2066.9	2066.3
37.5°	6382.3	2527.8	1975.7	1964.2	1978.3
40°	6086.4	2253.0	1826.2	1857.0	1857.0
42.5°	5691.7	2014.3	1690.7	1722.2	1713.9
45°	5203.8	1799.9	1546.3	1583.5	1610.5
47.5°	4638.3	1611.2	1398.7	1470.6	1507.8
50°	4023.4	1431.4	1263.9	1355.7	1398.0
52.5°	3378.9	1265.2	1132.3	1237.6	1271.6
55°	2755.0	1115.6	1009.1	1094.4	1133.6
57.5°	2190.1	973.1	888.4	969.3	1050.1
60°	1704.2	850.5	774.8	890.3	971.2
62.5°	1301.8	741.4	668.2	816.5	897.4
65°	985.3	647.0	584.1	748.4	831.9
67.5°	742.7	565.5	518.6	699.0	780.5
70°	557.8	486.6	466.0	668.2	741.4
72.5°	412.1	414.0	424.3	641.3	697.1
75°	304.3	348.5	392.2	609.2	645.7
77.5°	217.6	288.9	363.3	570.6	583.5
80°	150.8	235.6	333.1	519.9	509.0
82.5°	94.4	188.7	306.2	464.1	433.9
85°	53.3	144.4	286.9	399.3	366.5
87.5°	23.8	107.8	251.0	311.3	290.8
90°	0.0	60.3	166.3	234.3	236.2
92.5°	1.3	50.1	153.4	214.4	220.8
95°	2.6	42.4	146.4	199.0	208.0
97.5°	3.2	37.2	137.4	184.9	192.6
100°	3.9	33.4	126.5	170.1	176.5
102.5°	4.5	30.8	116.2	154.7	159.8
105°	5.1	28.2	106.6	141.2	145.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	21.8	80.2	101.4	104.6
115°	7.1	19.9	71.9	89.9	91.8
117.5°	7.7	17.3	62.9	79.0	79.6
120°	7.7	15.4	53.9	67.4	67.4
122.5°	7.7	12.8	44.9	55.8	55.2
125°	7.7	10.3	36.6	46.2	45.6
127.5°	7.1	8.3	29.5	38.5	37.9
130°	7.1	8.3	23.8	32.7	32.7
132.5°	6.4	7.7	19.3	28.2	28.2
135°	6.4	7.7	16.0	25.0	25.0
137.5°	6.4	8.3	13.5	21.8	21.8
140°	6.4	7.7	11.6	19.3	19.3
142.5°	7.1	7.7	10.3	16.7	16.7
145°	7.7	8.3	9.6	14.8	14.1
147.5°	7.7	9.0	9.6	12.8	12.2
150°	7.7	9.6	9.6	11.6	10.9
152.5°	7.7	9.6	9.6	10.9	10.3
155°	7.7	9.6	10.3	10.9	9.6
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°	5.1	26.3	97.6	126.5	130.9
110°	5.8	23.8	89.2	113.0	117.5



(END OF REPORT)