

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: P829763

Luminaire Tested: **OHBL-12SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-MFL-UNV-L930-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

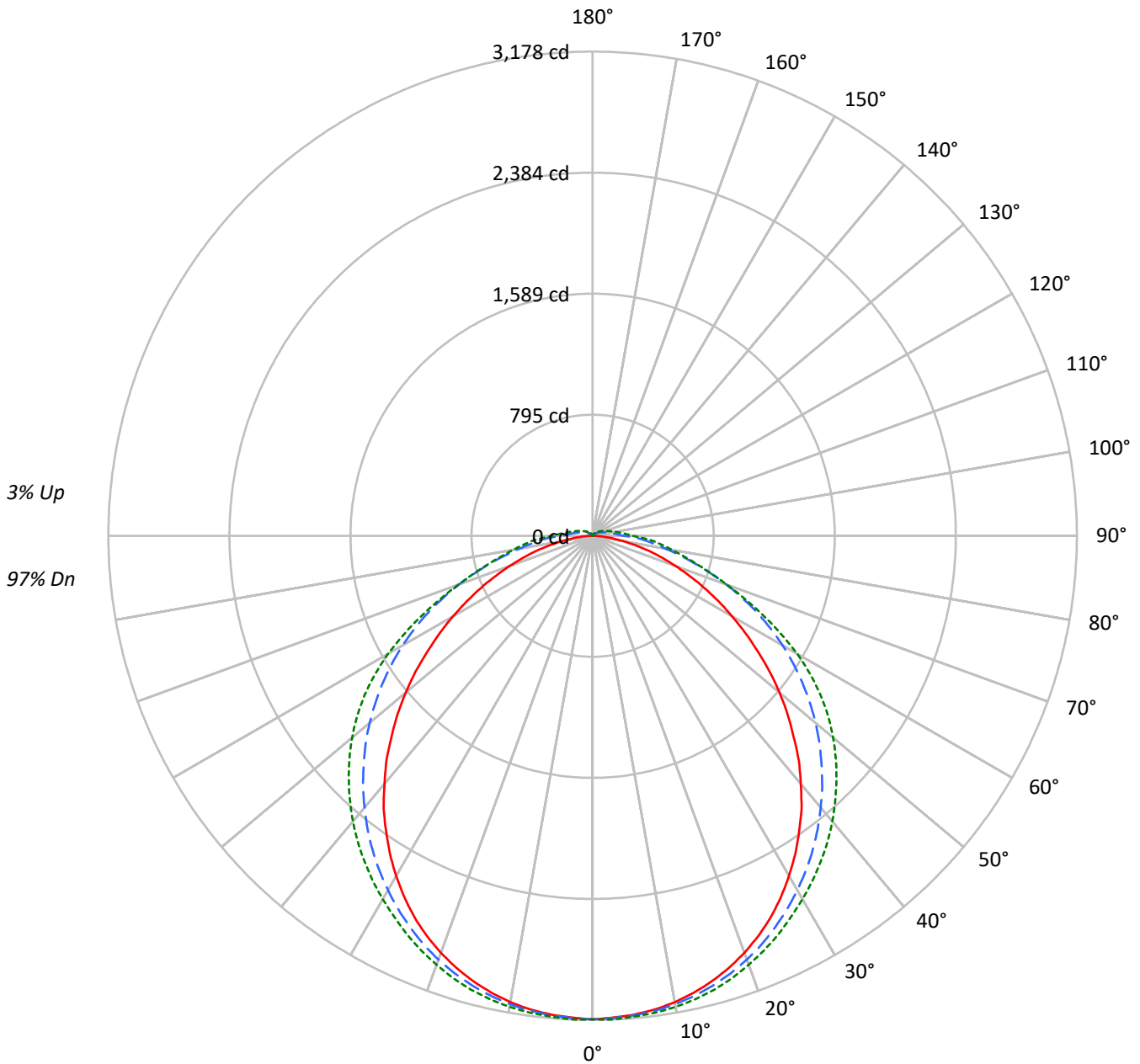
Lumens per Lamp: N/A  
Luminaire Lumens: 9501.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	10328	10328	10328
5°	10262	10169	10175
10°	10190	10020	10037
15°	10076	9854	9884
20°	9925	9665	9700
25°	9723	9444	9513
30°	9444	9208	9324
35°	9106	8960	9145
40°	8699	8681	8961
45°	8220	8379	8746
50°	7696	8070	8499
55°	7052	7702	8151
60°	6392	7277	7583
65°	5672	6750	6743
70°	4891	6097	5840
75°	4101	5344	5137
80°	3108	4695	4750
85°	1966	4447	4691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.8	3.2
10°-20°	863.0	9.1
20°-30°	1305.1	13.7
30°-40°	1566.8	16.5
40°-50°	1618.2	17.0
50°-60°	1455.9	15.3
60°-70°	1096.7	11.5
70°-80°	662.2	7.0
80°-90°	323.9	3.4
90°-100°	136.3	1.4
100°-110°	77.8	0.8
110°-120°	45.7	0.5
120°-130°	25.8	0.3
130°-140°	13.6	0.1
140°-150°	6.6	0.1
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2468.9	26.0
0°-40°	4035.7	42.5
0°-60°	7109.8	74.8
0°-90°	9192.6	96.8
90°-120°	259.8	2.7
90°-150°	305.9	3.2
90°-180°	308.0	3.2
0°-180°	9501.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3175	3175	3175	3175	3175	
5°	3154	3163	3159	3172	3168	300
15°	3027	3042	3056	3081	3084	853
25°	2764	2795	2834	2879	2886	1272
35°	2364	2419	2518	2594	2610	1478
45°	1865	1959	2123	2239	2263	1440
55°	1322	1458	1680	1806	1828	1185
65°	806	971	1189	1248	1234	801
75°	380	545	688	706	699	405
85°	79	209	345	392	399	92
90°	0	82	197	249	259	5
95°	4	55	148	188	195	3
105°	5	32	86	112	116	5
115°	6	18	53	71	74	6
125°	6	8	32	46	48	6
135°	5	7	16	28	31	4
145°	8	7	8	14	16	5
155°	8	8	8	7	8	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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CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3174.6	3174.6	3174.6	3174.6	3174.6
2.5°	3165.3	3173.0	3168.4	3178.5	3177.7
5°	3154.4	3162.9	3159.0	3171.5	3167.6
7.5°	3135.7	3145.1	3144.3	3158.3	3156.7
10°	3108.5	3118.6	3121.8	3140.4	3140.4
12.5°	3071.3	3084.5	3092.2	3114.8	3115.5
15°	3027.0	3041.7	3055.7	3081.4	3084.5
17.5°	2973.4	2992.0	3011.4	3041.0	3044.8
20°	2912.8	2933.7	2960.2	2991.2	2995.9
22.5°	2842.8	2867.7	2901.9	2938.4	2943.8
25°	2764.4	2794.7	2834.3	2878.6	2885.6
27.5°	2675.0	2710.0	2763.6	2813.3	2819.5
30°	2577.9	2619.1	2685.9	2744.9	2755.0
32.5°	2475.3	2522.7	2605.1	2671.1	2685.1
35°	2363.5	2418.6	2518.1	2594.2	2609.7
37.5°	2253.1	2313.7	2426.4	2513.4	2532.1
40°	2124.2	2199.5	2328.5	2424.8	2447.4
42.5°	2003.0	2084.5	2230.6	2335.5	2357.2
45°	1865.4	1959.4	2123.4	2239.1	2263.2
47.5°	1736.5	1838.2	2020.1	2139.7	2164.6
50°	1600.5	1712.4	1909.7	2034.8	2060.5
52.5°	1464.5	1585.0	1795.5	1925.3	1949.3
55°	1321.6	1458.3	1679.7	1806.4	1828.1
57.5°	1188.7	1333.2	1560.9	1681.3	1694.5
60°	1057.4	1207.4	1439.7	1545.3	1550.0
62.5°	929.2	1086.9	1315.4	1399.3	1393.1
65°	806.5	971.2	1188.7	1247.8	1233.8
67.5°	688.4	858.5	1059.0	1097.0	1078.4
70°	576.5	749.0	933.1	952.5	935.4
72.5°	477.8	644.9	805.7	822.0	809.6
75°	379.9	545.4	688.4	706.2	699.2
77.5°	288.2	449.1	580.4	603.7	605.2
80°	207.4	361.3	486.4	522.9	527.5
82.5°	136.7	280.5	407.9	454.5	461.5
85°	79.2	209.0	345.0	392.4	399.3
87.5°	34.2	150.7	277.4	320.1	328.6
90°	0.0	81.6	197.3	248.6	258.7
92.5°	2.3	67.6	169.4	216.0	224.5
95°	3.9	55.2	147.6	188.0	195.0
97.5°	4.7	46.6	128.2	163.9	170.9
100°	4.7	40.4	111.1	143.7	149.9
102.5°	4.7	35.7	97.1	125.9	131.3
105°	5.4	31.9	85.5	111.9	116.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	21.0	59.0	79.2	82.4
115°	6.2	17.9	52.8	70.7	73.8
117.5°	7.0	15.5	46.6	63.7	66.0
120°	7.0	13.2	41.2	56.7	59.8
122.5°	7.0	10.9	36.5	51.3	53.6
125°	6.2	8.5	31.9	45.8	48.2
127.5°	5.4	7.0	27.2	41.2	43.5
130°	5.4	6.2	23.3	36.5	38.8
132.5°	5.4	7.0	19.4	31.9	35.0
135°	5.4	7.0	16.3	28.0	31.1
137.5°	5.4	7.0	13.2	24.1	27.2
140°	6.2	7.0	10.9	20.2	23.3
142.5°	7.0	7.0	8.5	17.1	19.4
145°	7.8	7.0	7.8	14.0	16.3
147.5°	7.8	7.8	7.8	10.9	13.2
150°	7.8	8.5	7.8	8.5	10.9
152.5°	7.8	8.5	7.8	7.0	8.5
155°	7.8	8.5	7.8	7.0	7.8
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	28.0	75.4	99.4	103.3
110°	5.4	24.9	66.8	88.6	92.5



(END OF REPORT)