

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: P829743

Luminaire Tested: **OHBL-12SE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-MCL-UNV-L730-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

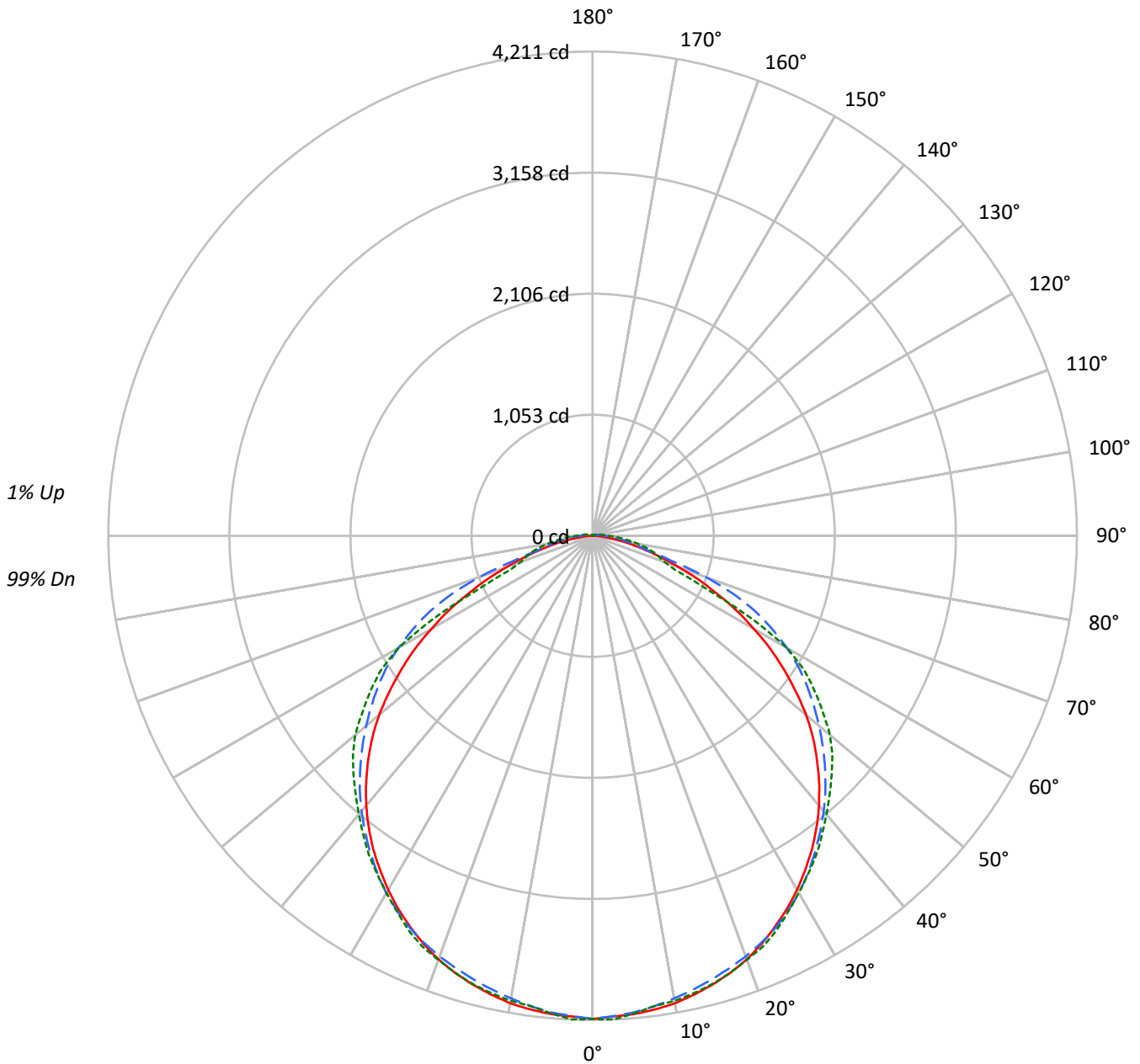
Lumens per Lamp: N/A  
Luminaire Lumens: 11877.0 lumens  
Efficiency: N/A  
Efficacy: 169.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): 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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	13671	13671	13671
5°	13581	13392	13387
10°	13532	13111	13128
15°	13446	12883	12930
20°	13360	12710	12706
25°	13199	12535	12481
30°	13023	12304	12130
35°	12814	11984	11880
40°	12541	11651	11578
45°	12164	11276	11360
50°	11652	10856	11113
55°	10839	10429	10522
60°	9774	9848	9536
65°	8384	8887	5894
70°	6753	6773	4135
75°	5063	3887	4008
80°	3524	3068	3567
85°	2005	2561	2954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.2	3.3
10°-20°	1136.2	9.6
20°-30°	1735.3	14.6
30°-40°	2105.5	17.7
40°-50°	2206.8	18.6
50°-60°	1999.7	16.8
60°-70°	1340.7	11.3
70°-80°	602.0	5.1
80°-90°	218.5	1.8
90°-100°	65.8	0.6
100°-110°	31.0	0.3
110°-120°	15.6	0.1
120°-130°	8.6	0.1
130°-140°	5.9	0.0
140°-150°	4.0	0.0
150°-160°	3.0	0.0
160°-170°	1.9	0.0
170°-180°	0.6	0.0
0°-30°	3267.7	27.5
0°-40°	5373.2	45.2
0°-60°	9579.6	80.7
0°-90°	11740.8	98.9
90°-120°	112.3	0.9
90°-150°	130.8	1.1
90°-180°	136.0	1.1
0°-180°	11877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4202	4202	4202	4202	4202	
5°	4175	4189	4160	4173	4168	397
15°	4039	4024	3995	4030	4035	1140
25°	3752	3736	3762	3797	3786	1730
35°	3326	3334	3368	3404	3390	2079
45°	2760	2805	2858	2930	2940	2126
55°	2031	2129	2274	2365	2360	1813
65°	1192	1379	1565	1321	1078	1188
75°	469	680	501	512	546	513
85°	81	155	199	240	252	99
90°	1	52	103	129	135	5
95°	1	32	70	86	88	1
105°	2	14	35	42	44	3
115°	5	7	18	22	24	5
125°	4	5	11	13	13	4
135°	6	6	7	10	10	4
145°	6	6	6	7	7	4
155°	6	7	7	7	6	3
165°	7	7	7	7	7	2
175°	7	7	6	6	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4202.1	4202.1	4202.1	4202.1	4202.1
2.5°	4185.1	4202.7	4180.8	4204.5	4210.6
5°	4174.8	4189.3	4160.2	4172.9	4167.5
7.5°	4155.9	4160.8	4126.1	4136.5	4125.5
10°	4128.0	4125.5	4084.8	4104.9	4107.3
12.5°	4086.7	4079.4	4042.9	4073.3	4073.9
15°	4039.3	4023.5	3994.9	4030.1	4035.0
17.5°	3984.6	3963.9	3945.1	3990.7	3983.4
20°	3920.8	3896.5	3892.8	3942.7	3924.4
22.5°	3841.8	3823.0	3831.5	3878.9	3867.3
25°	3752.5	3736.1	3762.2	3796.8	3785.9
27.5°	3658.3	3648.6	3678.4	3705.1	3683.8
30°	3555.0	3549.5	3589.0	3610.9	3584.2
32.5°	3442.6	3444.4	3482.1	3511.9	3487.0
35°	3325.9	3333.8	3367.9	3403.7	3390.4
37.5°	3197.7	3215.4	3249.4	3290.1	3276.1
40°	3062.3	3087.8	3125.4	3174.7	3161.9
42.5°	2915.8	2948.0	2996.6	3051.3	3050.1
45°	2760.3	2805.2	2857.5	2930.4	2939.5
47.5°	2598.7	2649.1	2715.3	2812.5	2826.5
50°	2423.1	2486.3	2568.9	2685.5	2694.1
52.5°	2227.4	2313.7	2423.1	2534.9	2524.5
55°	2031.2	2129.0	2274.2	2365.3	2359.9
57.5°	1835.5	1945.5	2121.7	2186.7	2186.1
60°	1616.8	1755.9	1948.5	1997.8	1949.1
62.5°	1414.5	1563.9	1763.8	1728.0	1561.5
65°	1192.1	1378.6	1565.2	1320.9	1078.5
67.5°	994.6	1189.1	1329.4	904.7	774.7
70°	795.9	1010.4	1036.5	671.4	662.3
72.5°	619.7	848.2	715.1	574.8	603.9
75°	469.1	680.5	500.7	512.2	545.6
77.5°	342.1	522.5	389.5	449.0	476.4
80°	235.1	370.0	317.8	377.3	396.1
82.5°	147.6	244.3	254.6	303.8	323.2
85°	80.8	154.9	198.7	240.0	251.5
87.5°	33.4	93.6	151.9	185.3	195.0
90°	0.6	51.6	102.7	128.8	134.9
92.5°	0.6	39.5	83.8	103.9	108.2
95°	0.6	32.2	70.5	85.7	88.1
97.5°	1.2	25.5	58.9	71.1	73.5
100°	1.8	21.3	49.2	59.5	61.4
102.5°	2.4	17.0	41.3	49.8	51.6
105°	2.4	14.0	34.6	41.9	43.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	8.5	20.7	26.1	27.3
115°	4.9	7.3	17.6	22.5	23.7
117.5°	4.9	6.1	15.2	18.8	20.1
120°	4.9	5.5	13.4	16.4	17.0
122.5°	4.9	4.9	11.5	14.6	15.2
125°	4.3	4.9	10.9	12.8	13.4
127.5°	4.9	4.9	9.7	11.5	12.2
130°	4.9	5.5	8.5	10.9	10.9
132.5°	5.5	6.1	7.9	10.3	10.3
135°	5.5	6.1	6.7	9.7	10.3
137.5°	6.1	6.1	6.1	9.1	9.7
140°	6.1	6.1	5.5	7.9	8.5
142.5°	5.5	6.1	5.5	7.3	7.9
145°	5.5	6.1	6.1	6.7	7.3
147.5°	6.1	6.1	6.1	6.1	6.7
150°	6.1	6.1	6.1	6.1	6.1
152.5°	6.1	6.1	6.1	6.1	6.1
155°	6.1	6.7	6.7	6.7	6.1
157.5°	6.1	6.7	6.7	6.7	6.7
160°	6.1	6.7	6.7	6.7	6.7
162.5°	6.7	6.7	6.7	6.7	6.7
165°	6.7	6.7	6.7	6.7	6.7
167.5°	6.7	7.3	6.7	6.7	6.7
170°	6.7	6.7	6.7	6.1	6.1
172.5°	6.7	6.7	6.7	6.1	6.1
175°	6.7	6.7	6.1	5.5	5.5
177.5°	7.3	6.7	6.1	5.5	4.9
180°	6.1	6.1	6.1	6.1	6.1



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	3.0	11.5	29.8	35.8	37.1
110°	3.6	9.7	24.9	30.4	31.6



(END OF REPORT)