

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: P829753

Luminaire Tested: **OHBL-12SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829753  
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-L940-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

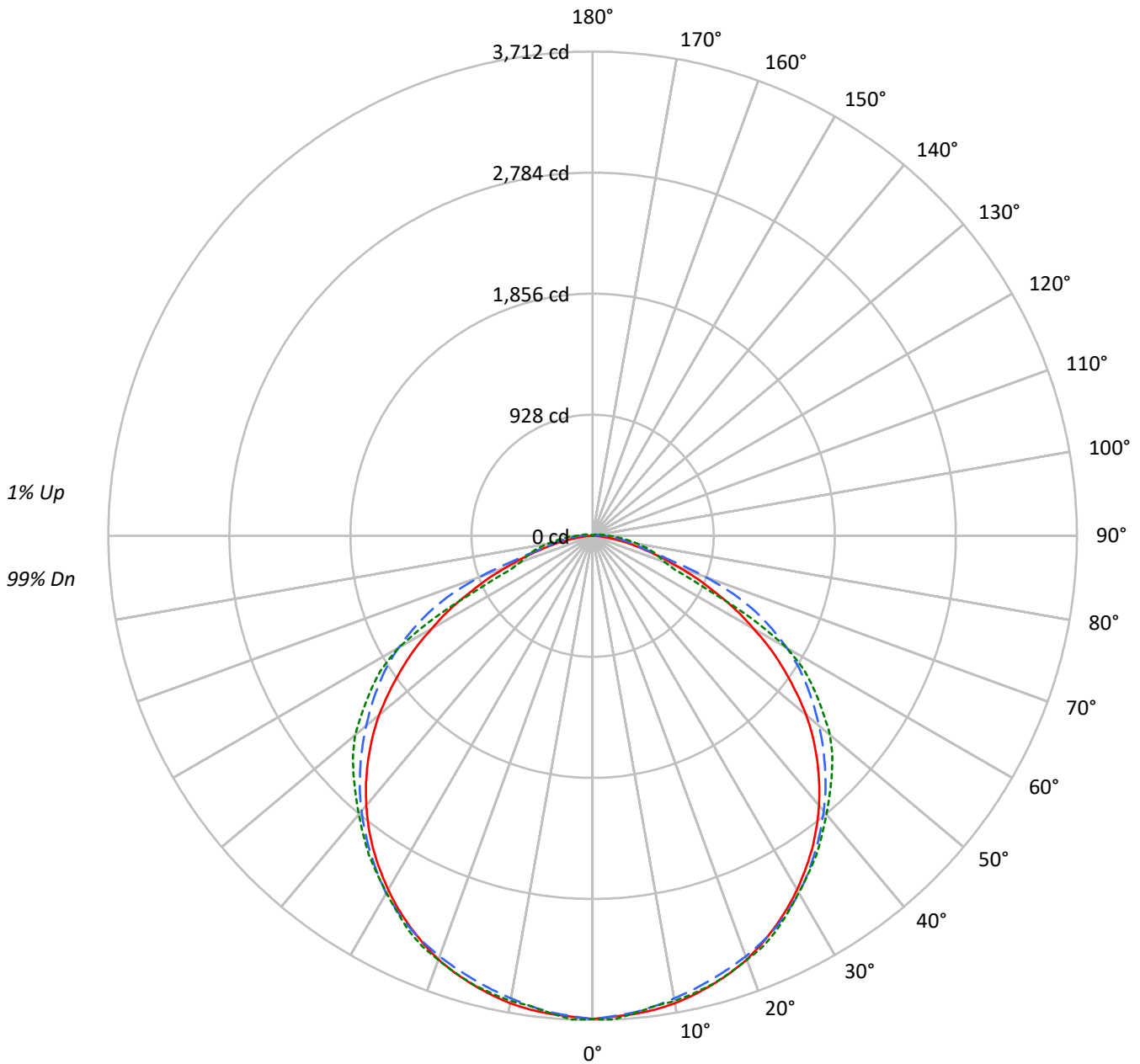
Lumens per Lamp: N/A  
Luminaire Lumens: 10471.0 lumens  
Efficiency: N/A  
Efficacy: 149.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	12052	12052	12052
5°	11973	11806	11802
10°	11930	11559	11574
15°	11854	11358	11399
20°	11778	11205	11202
25°	11636	11051	11004
30°	11482	10848	10694
35°	11297	10565	10474
40°	11056	10272	10207
45°	10724	9941	10015
50°	10272	9571	9797
55°	9555	9194	9277
60°	8617	8683	8407
65°	7392	7835	5196
70°	5954	5971	3646
75°	4463	3427	3534
80°	3107	2705	3146
85°	1767	2258	2606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.3	3.3
10°-20°	1001.7	9.6
20°-30°	1529.9	14.6
30°-40°	1856.2	17.7
40°-50°	1945.5	18.6
50°-60°	1762.9	16.8
60°-70°	1182.0	11.3
70°-80°	530.8	5.1
80°-90°	192.6	1.8
90°-100°	58.0	0.6
100°-110°	27.3	0.3
110°-120°	13.7	0.1
120°-130°	7.6	0.1
130°-140°	5.2	0.0
140°-150°	3.5	0.0
150°-160°	2.6	0.0
160°-170°	1.7	0.0
170°-180°	0.5	0.0
0°-30°	2880.8	27.5
0°-40°	4737.1	45.2
0°-60°	8445.5	80.7
0°-90°	10350.9	98.9
90°-120°	99.0	0.9
90°-150°	115.3	1.1
90°-180°	120.0	1.1
0°-180°	10471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3705	3705	3705	3705	3705	
5°	3680	3693	3668	3679	3674	350
15°	3561	3547	3522	3553	3557	1005
25°	3308	3294	3317	3347	3338	1525
35°	2932	2939	2969	3001	2989	1833
45°	2434	2473	2519	2584	2592	1875
55°	1791	1877	2005	2085	2080	1598
65°	1051	1215	1380	1164	951	1047
75°	414	600	441	452	481	452
85°	71	137	175	212	222	87
90°	0	46	90	114	119	4
95°	0	28	62	76	78	1
105°	2	12	30	37	39	2
115°	4	6	16	20	21	4
125°	4	4	10	11	12	4
135°	5	5	6	9	9	4
145°	5	5	5	6	6	3
155°	5	6	6	6	5	2
165°	6	6	6	6	6	2
175°	6	6	5	5	5	1
180°	5	5	5	5	5	



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CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3704.6	3704.6	3704.6	3704.6	3704.6
2.5°	3689.7	3705.2	3685.9	3706.8	3712.1
5°	3680.5	3693.4	3667.7	3678.9	3674.1
7.5°	3663.9	3668.2	3637.7	3646.8	3637.2
10°	3639.3	3637.2	3601.3	3618.9	3621.1
12.5°	3602.9	3596.4	3564.3	3591.1	3591.6
15°	3561.1	3547.2	3522.0	3553.1	3557.3
17.5°	3512.9	3494.7	3478.1	3518.2	3511.8
20°	3456.6	3435.2	3432.0	3475.9	3459.9
22.5°	3387.0	3370.4	3377.9	3419.7	3409.5
25°	3308.3	3293.8	3316.8	3347.4	3337.7
27.5°	3225.2	3216.7	3242.9	3266.5	3247.7
30°	3134.2	3129.3	3164.2	3183.4	3159.9
32.5°	3035.1	3036.7	3069.9	3096.1	3074.2
35°	2932.2	2939.2	2969.2	3000.8	2989.0
37.5°	2819.2	2834.7	2864.7	2900.6	2888.3
40°	2699.7	2722.2	2755.5	2798.8	2787.6
42.5°	2570.6	2599.0	2641.9	2690.1	2689.0
45°	2433.5	2473.2	2519.2	2583.5	2591.5
47.5°	2291.0	2335.5	2393.9	2479.6	2491.9
50°	2136.2	2191.9	2264.8	2367.6	2375.1
52.5°	1963.7	2039.8	2136.2	2234.8	2225.7
55°	1790.7	1877.0	2005.0	2085.3	2080.5
57.5°	1618.2	1715.2	1870.5	1927.9	1927.3
60°	1425.4	1548.1	1717.9	1761.3	1718.4
62.5°	1247.0	1378.8	1555.0	1523.4	1376.7
65°	1051.0	1215.4	1379.9	1164.5	950.8
67.5°	876.9	1048.3	1172.0	797.6	683.0
70°	701.7	890.8	913.8	591.9	583.9
72.5°	546.4	747.8	630.5	506.7	532.4
75°	413.5	599.9	441.4	451.6	481.0
77.5°	301.6	460.7	343.4	395.9	420.0
80°	207.3	326.2	280.2	332.6	349.3
82.5°	130.2	215.3	224.4	267.8	285.0
85°	71.2	136.6	175.2	211.6	221.8
87.5°	29.5	82.5	133.9	163.4	171.9
90°	0.5	45.5	90.5	113.6	118.9
92.5°	0.5	34.8	73.9	91.6	95.3
95°	0.5	28.4	62.1	75.5	77.7
97.5°	1.1	22.5	52.0	62.7	64.8
100°	1.6	18.7	43.4	52.5	54.1
102.5°	2.1	15.0	36.4	43.9	45.5
105°	2.1	12.3	30.5	37.0	38.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	7.5	18.2	23.0	24.1
115°	4.3	6.4	15.5	19.8	20.9
117.5°	4.3	5.4	13.4	16.6	17.7
120°	4.3	4.8	11.8	14.5	15.0
122.5°	4.3	4.3	10.2	12.9	13.4
125°	3.7	4.3	9.6	11.2	11.8
127.5°	4.3	4.3	8.6	10.2	10.7
130°	4.3	4.8	7.5	9.6	9.6
132.5°	4.8	5.4	7.0	9.1	9.1
135°	4.8	5.4	5.9	8.6	9.1
137.5°	5.4	5.4	5.4	8.0	8.6
140°	5.4	5.4	4.8	7.0	7.5
142.5°	4.8	5.4	4.8	6.4	7.0
145°	4.8	5.4	5.4	5.9	6.4
147.5°	5.4	5.4	5.4	5.4	5.9
150°	5.4	5.4	5.4	5.4	5.4
152.5°	5.4	5.4	5.4	5.4	5.4
155°	5.4	5.9	5.9	5.9	5.4
157.5°	5.4	5.9	5.9	5.9	5.9
160°	5.4	5.9	5.9	5.9	5.9
162.5°	5.9	5.9	5.9	5.9	5.9
165°	5.9	5.9	5.9	5.9	5.9
167.5°	5.9	6.4	5.9	5.9	5.9
170°	5.9	5.9	5.9	5.4	5.4
172.5°	5.9	5.9	5.9	5.4	5.4
175°	5.9	5.9	5.4	4.8	4.8
177.5°	6.4	5.9	5.4	4.8	4.3
180°	5.4	5.4	5.4	5.4	5.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	2.7	10.2	26.2	31.6	32.7
110°	3.2	8.6	22.0	26.8	27.9



(END OF REPORT)