

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: P830761

Luminaire Tested: **OHBL-72SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830761  
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-72SE-MCL-UNV-L940-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

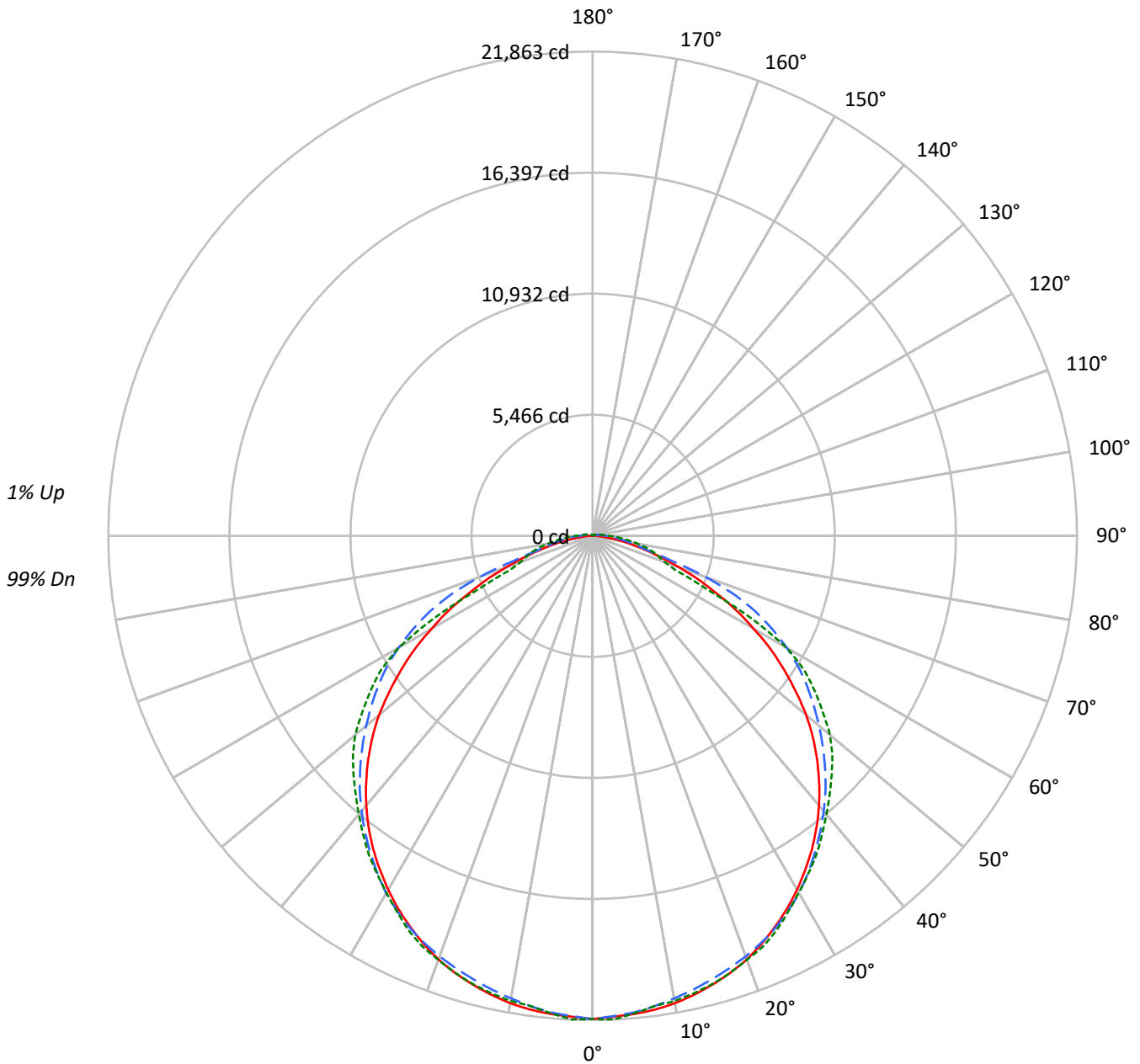
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61668.9 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 413.7  
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	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°	34505	34505	34505
5°	34280	34004	34076
10°	34154	33489	33697
15°	33938	33104	33472
20°	33721	32861	33175
25°	33314	32617	32882
30°	32871	32232	32260
35°	32342	31621	31916
40°	31654	30989	31449
45°	30701	30259	31243
50°	29409	29427	30995
55°	27357	28609	29838
60°	24669	27412	27586
65°	21162	25189	17483
70°	17045	19664	12675
75°	12779	11673	12864
80°	8895	9706	12282
85°	5063	8893	11513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2057.3	3.3
10°-20°	5899.3	9.6
20°-30°	9010.1	14.6
30°-40°	10932.4	17.7
40°-50°	11458.2	18.6
50°-60°	10382.8	16.8
60°-70°	6961.3	11.3
70°-80°	3125.9	5.1
80°-90°	1134.4	1.8
90°-100°	341.5	0.6
100°-110°	161.1	0.3
110°-120°	80.7	0.1
120°-130°	44.5	0.1
130°-140°	30.6	0.0
140°-150°	20.6	0.0
150°-160°	15.3	0.0
160°-170°	9.8	0.0
170°-180°	3.1	0.0
0°-30°	16966.7	27.5
0°-40°	27899.1	45.2
0°-60°	49740.1	80.7
0°-90°	60961.7	98.9
90°-120°	583.3	0.9
90°-150°	679.0	1.1
90°-180°	707.0	1.1
0°-180°	61668.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21818	21818	21818	21818	21818	
5°	21677	21752	21601	21667	21639	###
15°	20973	20891	20743	20926	20951	5922
25°	19484	19399	19534	19714	19658	8981
35°	17269	17310	17487	17673	17604	10794
45°	14332	14566	14837	15216	15263	11041
55°	10546	11054	11808	12282	12253	9414
65°	6190	7158	8127	6858	5600	6167
75°	2436	3533	2600	2660	2833	2662
85°	420	804	1032	1246	1306	512
90°	3	268	533	669	700	25
95°	3	167	366	445	457	4
105°	13	73	180	218	227	15
115°	25	38	92	117	123	23
125°	22	25	57	66	69	22
135°	28	32	35	50	54	23
145°	28	32	32	35	38	19
155°	32	35	35	35	32	15
165°	35	35	35	35	35	10
175°	35	35	32	28	28	3
180°	32	32	32	32	32	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21818.5	21818.5	21818.5	21818.5	<i>21818.5</i>
2.5°	<i>21730.2</i>	<i>21821.7</i>	<i>21708.1</i>	<i>21831.2</i>	<i>21862.7</i>
5°	21676.6	21752.3	21600.9	21667.1	<i>21638.7</i>
7.5°	21578.8	21604.0	21424.2	21477.8	<i>21421.0</i>
10°	21433.7	21421.0	21209.7	21313.8	<i>21326.4</i>
12.5°	21219.1	21181.3	20992.0	21149.7	<i>21152.9</i>
15°	20973.1	20891.0	20742.8	20925.7	<i>20951.0</i>
17.5°	20689.1	20581.9	20484.1	20720.7	<i>20682.8</i>
20°	20357.9	20231.7	20212.8	20471.4	<i>20376.8</i>
22.5°	19947.8	19850.0	19894.1	20140.2	<i>20080.3</i>
25°	19484.0	19398.8	19534.5	19714.3	<i>19657.5</i>
27.5°	18995.0	18944.5	19099.1	19237.9	<i>19127.5</i>
30°	18458.7	18430.3	18635.4	18748.9	<i>18610.1</i>
32.5°	17875.1	17884.5	18080.1	18234.7	<i>18105.4</i>
35°	17269.3	17310.3	17487.0	17673.1	<i>17603.7</i>
37.5°	16603.7	16695.2	16871.8	17083.2	<i>17010.6</i>
40°	15900.2	16032.7	16228.3	16483.8	<i>16417.5</i>
42.5°	15139.8	15307.1	15559.4	15843.4	<i>15837.1</i>
45°	14332.2	14565.7	14837.0	15215.6	<i>15262.9</i>
47.5°	13493.0	13754.9	14098.8	14603.5	<i>14676.1</i>
50°	12581.3	12909.4	13338.5	13944.2	<i>13988.3</i>
52.5°	11565.5	12013.4	12581.3	13161.8	<i>13108.2</i>
55°	10546.5	11054.4	11808.4	12281.6	<i>12253.2</i>
57.5°	9530.6	10101.6	11016.5	11354.1	<i>11350.9</i>
60°	8394.9	9117.4	10117.4	10373.0	<i>10120.6</i>
62.5°	7344.4	8120.4	9158.4	8972.2	<i>8107.8</i>
65°	6189.7	7158.2	8126.7	6858.5	<i>5599.8</i>
67.5°	5164.4	6173.9	6902.7	4697.5	<i>4022.4</i>
70°	4132.8	5246.4	5382.1	3486.0	<i>3438.7</i>
72.5°	3217.9	4404.1	3713.2	2984.4	<i>3135.9</i>
75°	2435.5	3533.4	2599.5	2659.5	<i>2833.0</i>
77.5°	1776.1	2713.1	2022.2	2331.4	<i>2473.4</i>
80°	1220.9	1921.3	1650.0	1959.1	<i>2056.9</i>
82.5°	766.6	1268.2	1321.9	1577.4	<i>1678.3</i>
85°	419.6	804.5	1031.6	1246.1	<i>1306.1</i>
87.5°	173.5	485.8	788.7	962.2	<i>1012.7</i>
90°	3.2	268.2	533.2	668.8	<i>700.4</i>
92.5°	3.2	205.1	435.4	539.5	<i>561.6</i>
95°	3.2	167.2	366.0	444.8	<i>457.4</i>
97.5°	6.3	132.5	306.0	369.1	<i>381.7</i>
100°	9.5	110.4	255.5	309.2	<i>318.6</i>
102.5°	12.6	88.3	214.5	258.7	<i>268.2</i>
105°	12.6	72.6	179.8	217.7	<i>227.1</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.1	44.2	107.3	135.7	142.0
115°	25.2	37.9	91.5	116.7	123.0
117.5°	25.2	31.5	78.9	97.8	104.1
120°	25.2	28.4	69.4	85.2	88.3
122.5°	25.2	25.2	59.9	75.7	78.9
125°	22.1	25.2	56.8	66.3	69.4
127.5°	25.2	25.2	50.5	59.9	63.1
130°	25.2	28.4	44.2	56.8	56.8
132.5°	28.4	31.5	41.0	53.6	53.6
135°	28.4	31.5	34.7	50.5	53.6
137.5°	31.5	31.5	31.5	47.3	50.5
140°	31.5	31.5	28.4	41.0	44.2
142.5°	28.4	31.5	28.4	37.9	41.0
145°	28.4	31.5	31.5	34.7	37.9
147.5°	31.5	31.5	31.5	31.5	34.7
150°	31.5	31.5	31.5	31.5	31.5
152.5°	31.5	31.5	31.5	31.5	31.5
155°	31.5	34.7	34.7	34.7	31.5
157.5°	31.5	34.7	34.7	34.7	34.7
160°	31.5	34.7	34.7	34.7	34.7
162.5°	34.7	34.7	34.7	34.7	34.7
165°	34.7	34.7	34.7	34.7	34.7
167.5°	34.7	37.9	34.7	34.7	34.7
170°	34.7	34.7	34.7	31.5	31.5
172.5°	34.7	34.7	34.7	31.5	31.5
175°	34.7	34.7	31.5	28.4	28.4
177.5°	37.9	34.7	31.5	28.4	25.2
180°	31.5	31.5	31.5	31.5	31.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	15.8	59.9	154.6	186.1	192.4
110°	18.9	50.5	129.3	157.7	164.0



(END OF REPORT)