

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: P830843

Luminaire Tested: **OHBL-90SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830843  
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-90SE-MFL-UNV-L930-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

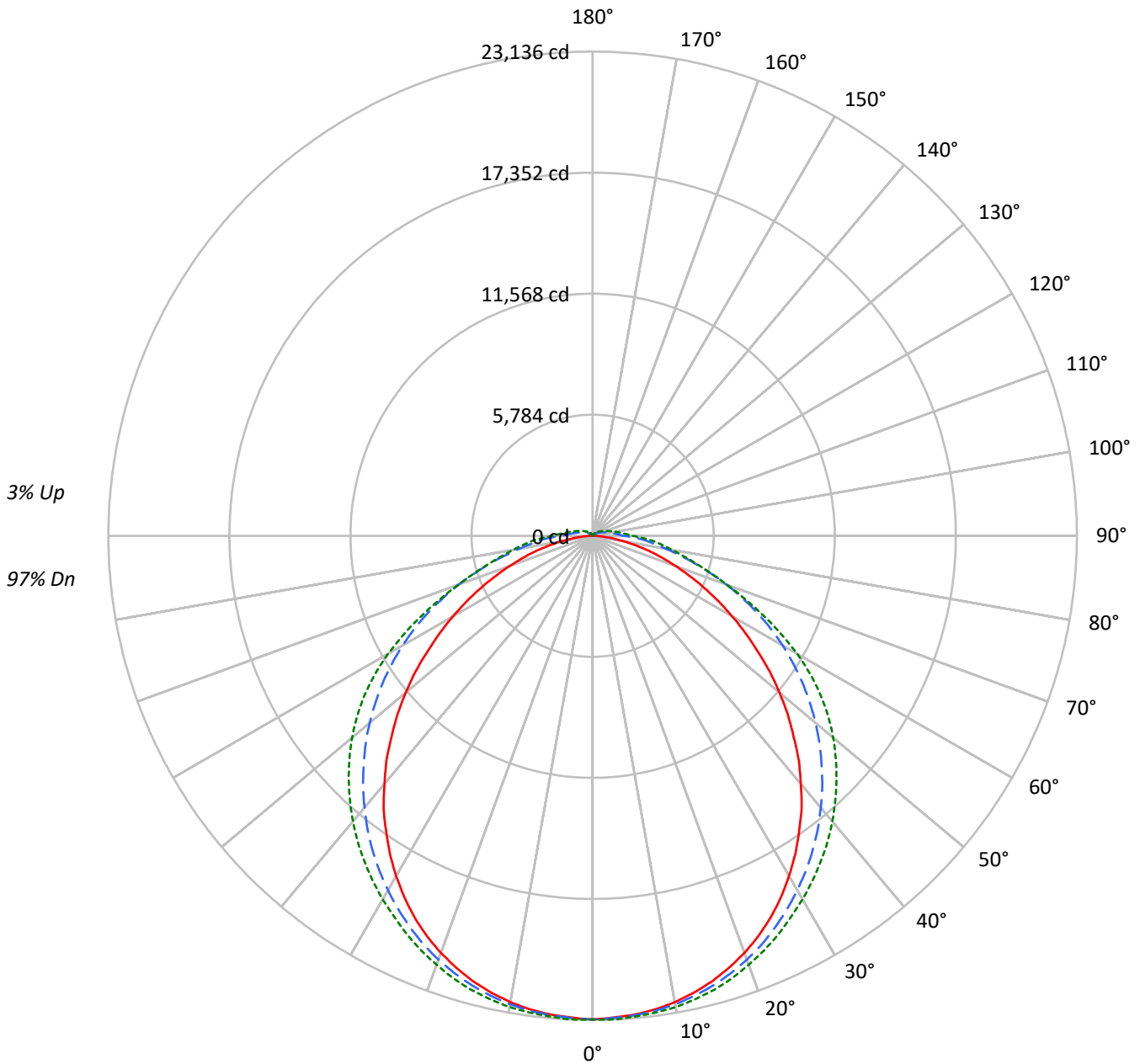
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69175.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 529  
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				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	36554	36554	36554
5°	36320	36207	36318
10°	36065	35888	36128
15°	35662	35506	35878
20°	35127	35039	35513
25°	34413	34456	35143
30°	33424	33823	34771
35°	32227	33152	34450
40°	30789	32374	34134
45°	29094	31529	33730
50°	27239	30676	33241
55°	24959	29630	32413
60°	22624	28399	30761
65°	20075	26827	28045
70°	17311	24822	25105
75°	14514	22506	23118
80°	11004	20831	22935
85°	6962	21652	25629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2190.1	3.2
10°-20°	6283.2	9.1
20°-30°	9502.2	13.7
30°-40°	11407.5	16.5
40°-50°	11782.1	17.0
50°-60°	10600.2	15.3
60°-70°	7985.0	11.5
70°-80°	4821.6	7.0
80°-90°	2358.1	3.4
90°-100°	992.6	1.4
100°-110°	566.6	0.8
110°-120°	332.6	0.5
120°-130°	188.1	0.3
130°-140°	99.0	0.1
140°-150°	48.2	0.1
150°-160°	17.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17975.5	26.0
0°-40°	29383.0	42.5
0°-60°	51765.3	74.8
0°-90°	66930.0	96.8
90°-120°	1891.8	2.7
90°-150°	2227.1	3.2
90°-180°	2245.0	3.2
0°-180°	69175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23114	23114	23114	23114	23114	
5°	22966	23029	23000	23091	23063	###
15°	22039	22146	22248	22435	22457	6213
25°	20127	20347	20636	20958	21009	9258
35°	17208	17610	18334	18888	19001	10757
45°	13582	14266	15460	16303	16478	10486
55°	9622	10618	12230	13152	13310	8627
65°	5872	7071	8655	9085	8983	5834
75°	2766	3971	5012	5142	5091	2951
85°	577	1522	2512	2857	2908	667
90°	0	594	1437	1810	1884	36
95°	28	402	1075	1369	1420	24
105°	40	232	622	815	848	40
115°	45	130	385	515	537	46
125°	45	62	232	334	351	41
135°	40	51	119	204	226	31
145°	57	51	57	102	119	34
155°	57	62	57	51	57	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23113.6	23113.6	23113.6	<i>23113.6</i>	23113.6
2.5°	<i>23045.7</i>	<i>23102.3</i>	<i>23068.3</i>	<i>23141.9</i>	<i>23136.2</i>
5°	22966.5	23028.7	23000.4	<i>23090.9</i>	23062.7
7.5°	22830.7	22898.6	22893.0	<i>22994.8</i>	22983.5
10°	22632.7	22706.3	22728.9	<i>22864.7</i>	22864.7
12.5°	22361.2	22457.4	22514.0	<i>22678.0</i>	22683.7
15°	22038.8	22146.3	22248.1	<i>22434.8</i>	22457.4
17.5°	21648.5	21784.2	21925.6	<i>22140.6</i>	22168.9
20°	21207.2	21360.0	21552.3	<i>21778.6</i>	21812.5
22.5°	20698.1	20879.1	21128.0	<i>21393.9</i>	21433.5
25°	20126.8	20347.4	20635.9	<i>20958.3</i>	21009.2
27.5°	19476.3	19730.8	20121.1	<i>20483.2</i>	20528.4
30°	18769.2	19069.0	19555.5	<i>19985.4</i>	20058.9
32.5°	18022.5	18367.5	18967.2	<i>19448.0</i>	19549.8
35°	17207.9	17609.5	18333.6	<i>18888.0</i>	19001.1
37.5°	16404.6	16845.9	17666.1	<i>18299.7</i>	18435.4
40°	15465.6	16014.3	16953.3	<i>17654.8</i>	17818.8
42.5°	14583.2	15177.1	16240.6	<i>17004.3</i>	17162.6
45°	13581.9	14266.4	15460.0	<i>16302.8</i>	16478.2
47.5°	12642.9	13383.9	14707.6	<i>15578.7</i>	15759.8
50°	11652.9	12467.5	13904.3	<i>14815.1</i>	15001.8
52.5°	10663.0	11539.8	13072.8	<i>14017.5</i>	14192.8
55°	9622.2	10617.8	12229.9	<i>13152.0</i>	13310.4
57.5°	8654.9	9707.0	11364.5	<i>12241.3</i>	12337.4
60°	7698.9	8790.6	10482.0	<i>11251.3</i>	11285.3
62.5°	6765.5	7913.8	9576.9	<i>10187.8</i>	10142.6
65°	5871.7	7071.0	8654.9	<i>9084.8</i>	8983.0
67.5°	5011.9	6250.7	7710.2	<i>7987.4</i>	7851.6
70°	4197.3	5453.1	6793.8	<i>6935.2</i>	6810.8
72.5°	3478.9	4695.1	5866.1	<i>5984.9</i>	5894.4
75°	2766.2	3971.1	5011.9	<i>5142.0</i>	5091.1
77.5°	2098.7	3269.6	4225.6	<i>4395.3</i>	4406.6
80°	1510.4	2630.4	3541.1	<i>3807.0</i>	3840.9
82.5°	995.6	2042.1	2969.8	<i>3309.2</i>	3360.1
85°	577.0	1521.7	2511.6	<i>2856.7</i>	2907.6
87.5°	248.9	1097.4	2019.5	<i>2330.6</i>	2392.8
90°	0.0	594.0	1436.8	<i>1810.2</i>	1883.7
92.5°	17.0	492.1	1233.2	<i>1572.6</i>	1634.8
95°	28.3	401.6	1074.8	<i>1368.9</i>	1419.8
97.5°	33.9	339.4	933.4	<i>1193.6</i>	1244.5
100°	33.9	294.2	808.9	<i>1046.5</i>	1091.8
102.5°	33.9	260.2	707.1	<i>916.4</i>	956.0
105°	39.6	231.9	622.2	<i>814.6</i>	848.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.3	152.7	429.9	577.0	599.6
115°	45.3	130.1	384.7	514.8	537.4
117.5°	50.9	113.1	339.4	463.9	480.8
120°	50.9	96.2	299.8	412.9	435.6
122.5°	50.9	79.2	265.9	373.3	390.3
125°	45.3	62.2	231.9	333.7	350.7
127.5°	39.6	50.9	198.0	299.8	316.8
130°	39.6	45.3	169.7	265.9	282.8
132.5°	39.6	50.9	141.4	231.9	254.6
135°	39.6	50.9	118.8	203.6	226.3
137.5°	39.6	50.9	96.2	175.4	198.0
140°	45.3	50.9	79.2	147.1	169.7
142.5°	50.9	50.9	62.2	124.4	141.4
145°	56.6	50.9	56.6	101.8	118.8
147.5°	56.6	56.6	56.6	79.2	96.2
150°	56.6	62.2	56.6	62.2	79.2
152.5°	56.6	62.2	56.6	50.9	62.2
155°	56.6	62.2	56.6	50.9	56.6
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°	39.6	203.6	548.7	724.1	752.4
110°	39.6	181.0	486.5	644.9	673.2



(END OF REPORT)