

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: P830812

Luminaire Tested: **OHBL-90SE-A-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830812  
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-90SE-A-UNV-L735-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

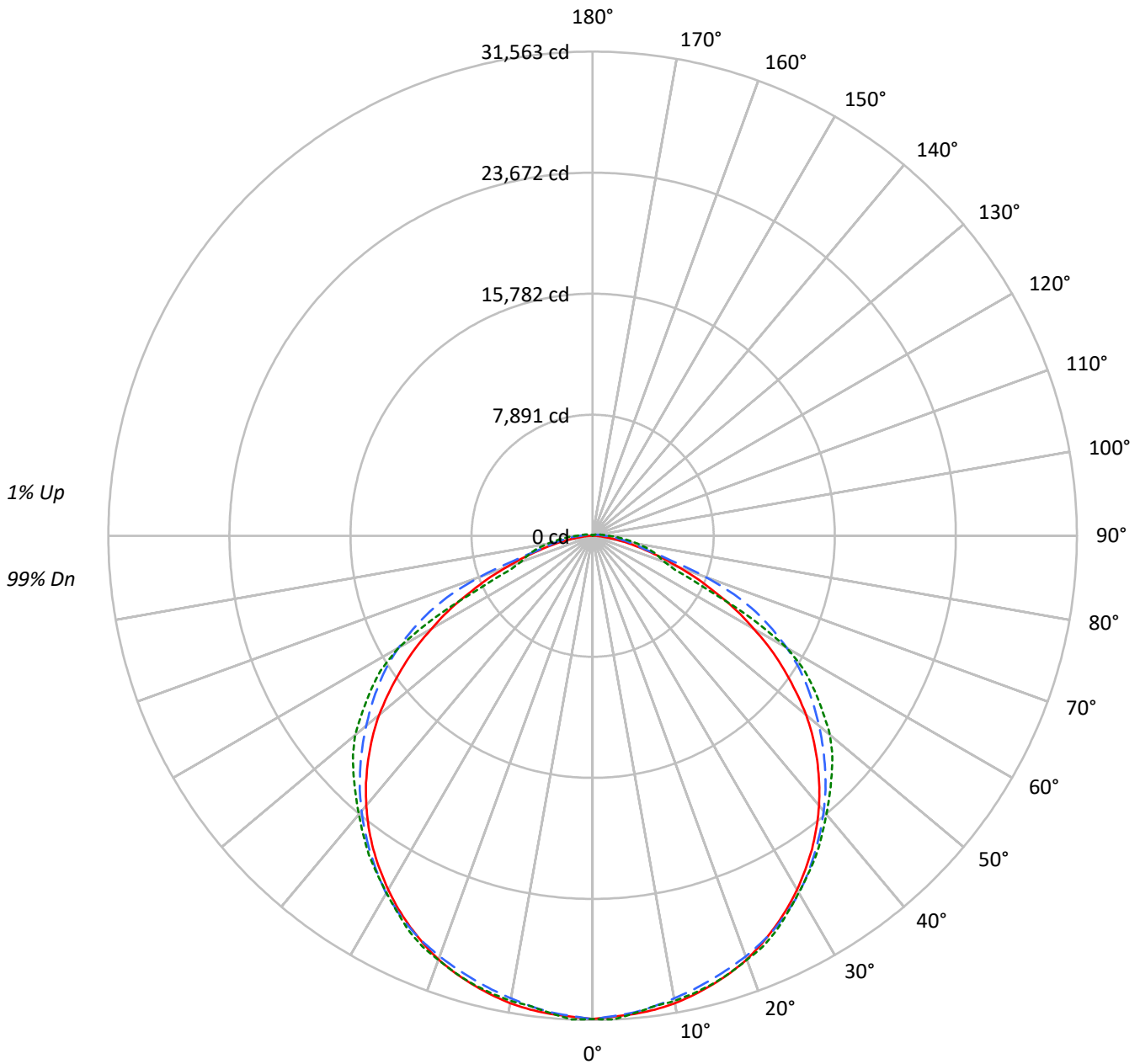
Lumens per Lamp: N/A  
Luminaire Lumens: 89030.9 lumens  
Efficiency: N/A  
Efficacy: 168.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 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									
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°	49815	49815	49815
5°	49489	49092	49195
10°	49308	48348	48648
15°	48995	47792	48323
20°	48682	47442	47895
25°	48095	47089	47471
30°	47456	46533	46573
35°	46692	45651	46078
40°	45699	44739	45404
45°	44323	43684	45105
50°	42458	42484	44748
55°	39494	41303	43077
60°	35614	39574	39826
65°	30551	36366	25239
70°	24608	28389	18299
75°	18449	16852	18572
80°	12842	14012	17732
85°	7309	12839	16621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2970.1	3.3
10°-20°	8516.8	9.6
20°-30°	13007.9	14.6
30°-40°	15783.0	17.7
40°-50°	16542.1	18.6
50°-60°	14989.6	16.8
60°-70°	10049.9	11.3
70°-80°	4512.9	5.1
80°-90°	1637.7	1.8
90°-100°	492.9	0.6
100°-110°	232.6	0.3
110°-120°	116.6	0.1
120°-130°	64.3	0.1
130°-140°	44.2	0.0
140°-150°	29.7	0.0
150°-160°	22.1	0.0
160°-170°	14.2	0.0
170°-180°	4.5	0.0
0°-30°	24494.7	27.5
0°-40°	40277.7	45.2
0°-60°	71809.4	80.7
0°-90°	88009.8	98.9
90°-120°	842.1	0.9
90°-150°	980.3	1.1
90°-180°	1021.0	1.1
0°-180°	89030.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31499	31499	31499	31499	31499	
5°	31294	31404	31185	31281	31240	###
15°	30279	30160	29946	30210	30247	8549
25°	28129	28006	28202	28461	28379	12966
35°	24932	24991	25246	25515	25414	15583
45°	20691	21028	21420	21967	22035	15939
55°	15226	15959	17048	17731	17690	13591
65°	8936	10334	11732	9902	8084	8904
75°	3516	5101	3753	3840	4090	3843
85°	606	1161	1489	1799	1886	739
90°	5	387	770	966	1011	36
95°	5	241	528	642	660	6
105°	18	105	260	314	328	21
115°	36	55	132	168	178	34
125°	32	36	82	96	100	32
135°	41	46	50	73	77	33
145°	41	46	46	50	55	27
155°	46	50	50	50	46	21
165°	50	50	50	50	50	14
175°	50	50	46	41	41	5
180°	46	46	46	46	46	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31499.2	31499.2	31499.2	31499.2	<i>31499.2</i>
2.5°	<i>31371.7</i>	<i>31503.8</i>	<i>31339.8</i>	<i>31517.5</i>	<i>31563.0</i>
5°	31294.3	31403.6	31185.0	31280.6	<i>31239.6</i>
7.5°	31153.1	31189.5	30929.9	31007.4	<i>30925.4</i>
10°	30943.6	30925.4	30620.2	30770.5	<i>30788.7</i>
12.5°	30633.9	30579.2	30306.0	30533.7	<i>30538.2</i>
15°	30278.6	30160.2	29946.1	30210.3	<i>30246.7</i>
17.5°	29868.7	29713.9	29572.7	29914.3	<i>29859.6</i>
20°	29390.5	29208.3	29181.0	29554.5	<i>29417.8</i>
22.5°	28798.4	28657.2	28721.0	29076.2	<i>28989.7</i>
25°	28128.9	28005.9	28201.8	28461.4	<i>28379.4</i>
27.5°	27422.9	27350.1	27573.2	27773.6	<i>27614.2</i>
30°	26648.7	26607.7	26903.7	27067.7	<i>26867.3</i>
32.5°	25806.1	25819.7	26102.1	26325.3	<i>26138.5</i>
35°	24931.6	24990.8	25245.9	25514.6	<i>25414.4</i>
37.5°	23970.6	24102.7	24357.7	24662.9	<i>24558.1</i>
40°	22954.9	23146.2	23428.6	23797.5	<i>23701.9</i>
42.5°	21857.3	22098.7	22463.0	22872.9	<i>22863.8</i>
45°	20691.3	21028.3	21420.0	21966.6	<i>22034.9</i>
47.5°	19479.8	19857.8	20354.3	21083.0	<i>21187.7</i>
50°	18163.5	18637.2	19256.6	20131.1	<i>20194.9</i>
52.5°	16697.0	17343.7	18163.5	19001.6	<i>18924.1</i>
55°	15225.8	15959.1	17047.7	17730.8	<i>17689.9</i>
57.5°	13759.3	14583.7	15904.5	16391.8	<i>16387.3</i>
60°	12119.6	13162.6	14606.4	14975.3	<i>14611.0</i>
62.5°	10603.0	11723.4	13221.8	12953.1	<i>11705.2</i>
65°	8936.0	10334.3	11732.5	9901.6	<i>8084.3</i>
67.5°	7455.8	8913.2	9965.3	6781.7	<i>5807.0</i>
70°	5966.5	7574.2	7770.1	5032.8	<i>4964.5</i>
72.5°	4645.6	6358.1	5360.7	4308.6	<i>4527.2</i>
75°	3516.1	5101.1	3752.9	3839.5	<i>4090.0</i>
77.5°	2564.2	3916.9	2919.5	3365.8	<i>3570.8</i>
80°	1762.6	2773.7	2382.0	2828.4	<i>2969.6</i>
82.5°	1106.8	1830.9	1908.4	2277.3	<i>2423.0</i>
85°	605.8	1161.4	1489.3	1799.0	<i>1885.6</i>
87.5°	250.5	701.4	1138.6	1389.1	<i>1462.0</i>
90°	4.6	387.1	769.7	965.6	<i>1011.1</i>
92.5°	4.6	296.0	628.5	778.8	<i>810.7</i>
95°	4.6	241.4	528.3	642.2	<i>660.4</i>
97.5°	9.1	191.3	441.8	532.9	<i>551.1</i>
100°	13.7	159.4	368.9	446.3	<i>460.0</i>
102.5°	18.2	127.5	309.7	373.5	<i>387.1</i>
105°	18.2	104.8	259.6	314.3	<i>327.9</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.9	63.8	154.9	195.8	205.0
115°	36.4	54.7	132.1	168.5	177.6
117.5°	36.4	45.5	113.9	141.2	150.3
120°	36.4	41.0	100.2	123.0	127.5
122.5°	36.4	36.4	86.5	109.3	113.9
125°	31.9	36.4	82.0	95.6	100.2
127.5°	36.4	36.4	72.9	86.5	91.1
130°	36.4	41.0	63.8	82.0	82.0
132.5°	41.0	45.5	59.2	77.4	77.4
135°	41.0	45.5	50.1	72.9	77.4
137.5°	45.5	45.5	45.5	68.3	72.9
140°	45.5	45.5	41.0	59.2	63.8
142.5°	41.0	45.5	41.0	54.7	59.2
145°	41.0	45.5	45.5	50.1	54.7
147.5°	45.5	45.5	45.5	45.5	50.1
150°	45.5	45.5	45.5	45.5	45.5
152.5°	45.5	45.5	45.5	45.5	45.5
155°	45.5	50.1	50.1	50.1	45.5
157.5°	45.5	50.1	50.1	50.1	50.1
160°	45.5	50.1	50.1	50.1	50.1
162.5°	50.1	50.1	50.1	50.1	50.1
165°	50.1	50.1	50.1	50.1	50.1
167.5°	50.1	54.7	50.1	50.1	50.1
170°	50.1	50.1	50.1	45.5	45.5
172.5°	50.1	50.1	50.1	45.5	45.5
175°	50.1	50.1	45.5	41.0	41.0
177.5°	54.7	50.1	45.5	41.0	36.4
180°	45.5	45.5	45.5	45.5	45.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	22.8	86.5	223.2	268.7	277.8
110°	27.3	72.9	186.7	227.7	236.8



(END OF REPORT)