

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: P830856

Luminaire Tested: **OHBL-90SE-N-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-N-UNV-L935-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

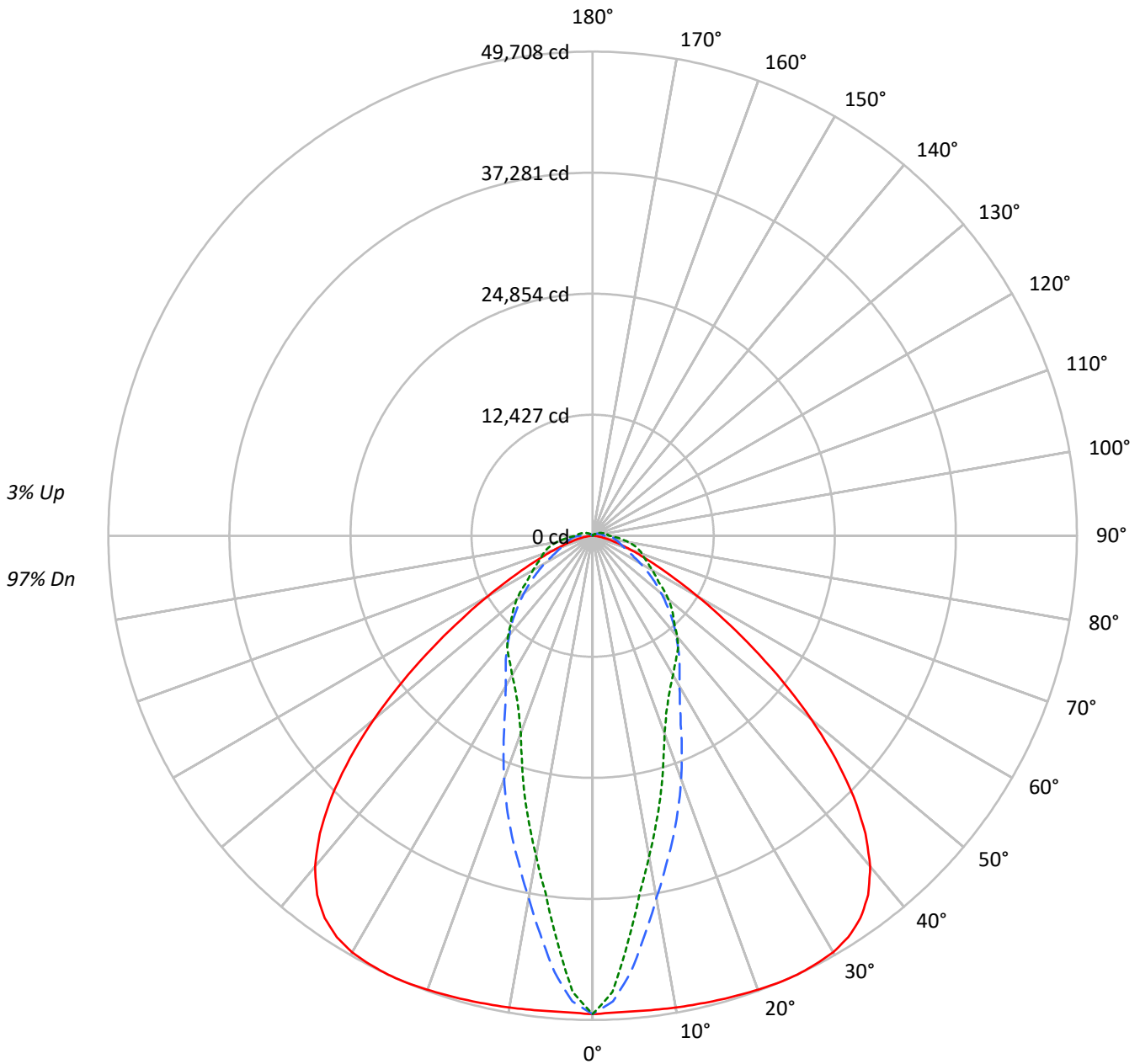
Lumens per Lamp: N/A  
Luminaire Lumens: 72474.0 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	77658	77658	77658
5°	77500	70753	65796
10°	78375	59625	52792
15°	79905	51017	43358
20°	82150	43157	35093
25°	84991	35740	30770
30°	87929	30806	28606
35°	89759	28091	27276
40°	88223	25390	25900
45°	81161	22961	24003
50°	68475	20302	22554
55°	52031	17800	20098
60°	36463	15283	19274
65°	24527	13182	18910
70°	16750	12397	19897
75°	11624	12823	21349
80°	8002	14269	22130
85°	4680	18010	23523



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4133.6	5.7
10°-20°	9724.1	13.4
20°-30°	12189.0	16.8
30°-40°	12933.9	17.8
40°-50°	11694.3	16.1
50°-60°	8479.2	11.7
60°-70°	5321.1	7.3
70°-80°	3521.3	4.9
80°-90°	2028.6	2.8
90°-100°	982.8	1.4
100°-110°	678.4	0.9
110°-120°	418.6	0.6
120°-130°	202.7	0.3
130°-140°	93.2	0.1
140°-150°	50.9	0.1
150°-160°	22.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	26046.7	35.9
0°-40°	38980.6	53.8
0°-60°	59154.1	81.6
0°-90°	70025.2	96.6
90°-120°	2079.8	2.9
90°-150°	2426.7	3.3
90°-180°	2449.0	3.4
0°-180°	72474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	49105	49105	49105	49105	49105	
5°	49007	47750	44946	42861	41782	###
15°	49381	40249	31967	28429	27139	14004
25°	49708	31121	21405	18998	18395	22964
35°	47927	20690	15535	15049	15044	29794
45°	37888	13105	11259	11530	11726	28863
55°	20059	8123	7347	7968	8254	18124
65°	7174	4711	4253	5449	6057	7465
75°	2215	2538	2856	4435	4702	2469
85°	388	1052	2089	2907	2669	465
90°	0	439	1210	1706	1720	25
95°	19	308	1066	1449	1514	17
105°	37	206	776	1028	1056	38
115°	51	145	523	654	668	50
125°	56	75	266	336	332	49
135°	47	56	117	182	182	37
145°	56	61	70	108	103	34
155°	56	70	75	80	70	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°	49105.0	49105.0	49105.0	49105.0	49105.0
2.5°	49002.2	48721.8	47847.8	47315.0	46866.4
5°	49006.9	47749.7	44945.5	42861.1	41781.5
7.5°	49077.0	46282.2	41230.1	38187.6	37000.5
10°	49184.5	44464.2	37762.3	34518.8	33411.2
12.5°	49263.9	42417.1	34710.5	31378.2	30163.1
15°	49380.7	40248.6	31967.1	28429.2	27139.3
17.5°	49488.2	38206.3	29256.4	25559.7	24124.9
20°	49595.7	36005.0	26545.8	22736.8	21554.4
22.5°	49698.5	33682.3	23900.5	20544.9	19736.4
25°	49707.9	31121.2	21404.9	18998.0	18395.1
27.5°	49586.4	28466.6	19381.2	17703.4	17329.5
30°	49376.1	25891.5	17810.9	16768.7	16502.3
32.5°	48852.6	23264.9	16595.8	15866.7	15712.5
35°	47927.3	20689.8	15534.9	15048.8	15044.2
37.5°	46469.1	18404.4	14385.2	14301.1	14403.9
40°	44314.6	16404.2	13296.3	13520.6	13520.6
42.5°	41440.4	14665.6	12310.1	12539.1	12478.4
45°	37888.5	13104.6	11258.6	11529.7	11725.9
47.5°	33771.1	11730.6	10183.7	10707.1	10978.2
50°	29293.8	10422.0	9202.2	9870.5	10179.0
52.5°	24601.6	9211.6	8244.1	9010.6	9258.3
55°	20058.9	8122.6	7346.8	7968.4	8253.5
57.5°	15946.2	7085.1	6468.2	7057.1	7645.9
60°	12408.3	6192.5	5641.0	6482.2	7071.1
62.5°	9478.0	5398.0	4865.2	5944.8	6533.6
65°	7173.9	4710.9	4252.9	5449.4	6056.9
67.5°	5407.3	4117.4	3776.2	5089.5	5683.0
70°	4061.3	3542.6	3393.0	4865.2	5398.0
72.5°	3000.4	3014.4	3089.2	4668.9	5075.5
75°	2215.3	2537.7	2855.5	4435.2	4701.6
77.5°	1584.3	2103.1	2645.2	4154.8	4248.3
80°	1098.3	1715.2	2425.6	3785.6	3706.1
82.5°	687.0	1374.0	2229.3	3379.0	3159.3
85°	387.9	1051.5	2089.1	2906.9	2668.6
87.5°	172.9	785.2	1827.4	2266.7	2117.1
90°	0.0	439.3	1210.4	1705.8	1719.9
92.5°	9.3	364.5	1117.0	1561.0	1607.7
95°	18.7	308.5	1065.6	1448.8	1514.2
97.5°	23.4	271.1	1000.1	1346.0	1402.1
100°	28.0	243.0	920.7	1238.5	1285.2
102.5°	32.7	224.3	845.9	1126.3	1163.7
105°	37.4	205.6	775.8	1028.2	1056.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.7	158.9	584.2	738.4	761.8
115°	51.4	144.9	523.4	654.3	668.3
117.5°	56.1	126.2	458.0	574.8	579.5
120°	56.1	112.2	392.6	490.7	490.7
122.5°	56.1	93.5	327.1	406.6	401.9
125°	56.1	74.8	266.4	336.5	331.8
127.5°	51.4	60.8	215.0	280.4	275.7
130°	51.4	60.8	172.9	238.4	238.4
132.5°	46.7	56.1	140.2	205.6	205.6
135°	46.7	56.1	116.8	182.3	182.3
137.5°	46.7	60.8	98.1	158.9	158.9
140°	46.7	56.1	84.1	140.2	140.2
142.5°	51.4	56.1	74.8	121.5	121.5
145°	56.1	60.8	70.1	107.5	102.8
147.5°	56.1	65.4	70.1	93.5	88.8
150°	56.1	70.1	70.1	84.1	79.5
152.5°	56.1	70.1	70.1	79.5	74.8
155°	56.1	70.1	74.8	79.5	70.1
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°	37.4	191.6	710.4	920.7	953.4
110°	42.1	172.9	649.6	822.5	855.3



(END OF REPORT)