

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: P830880

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-W-UNV-L935-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

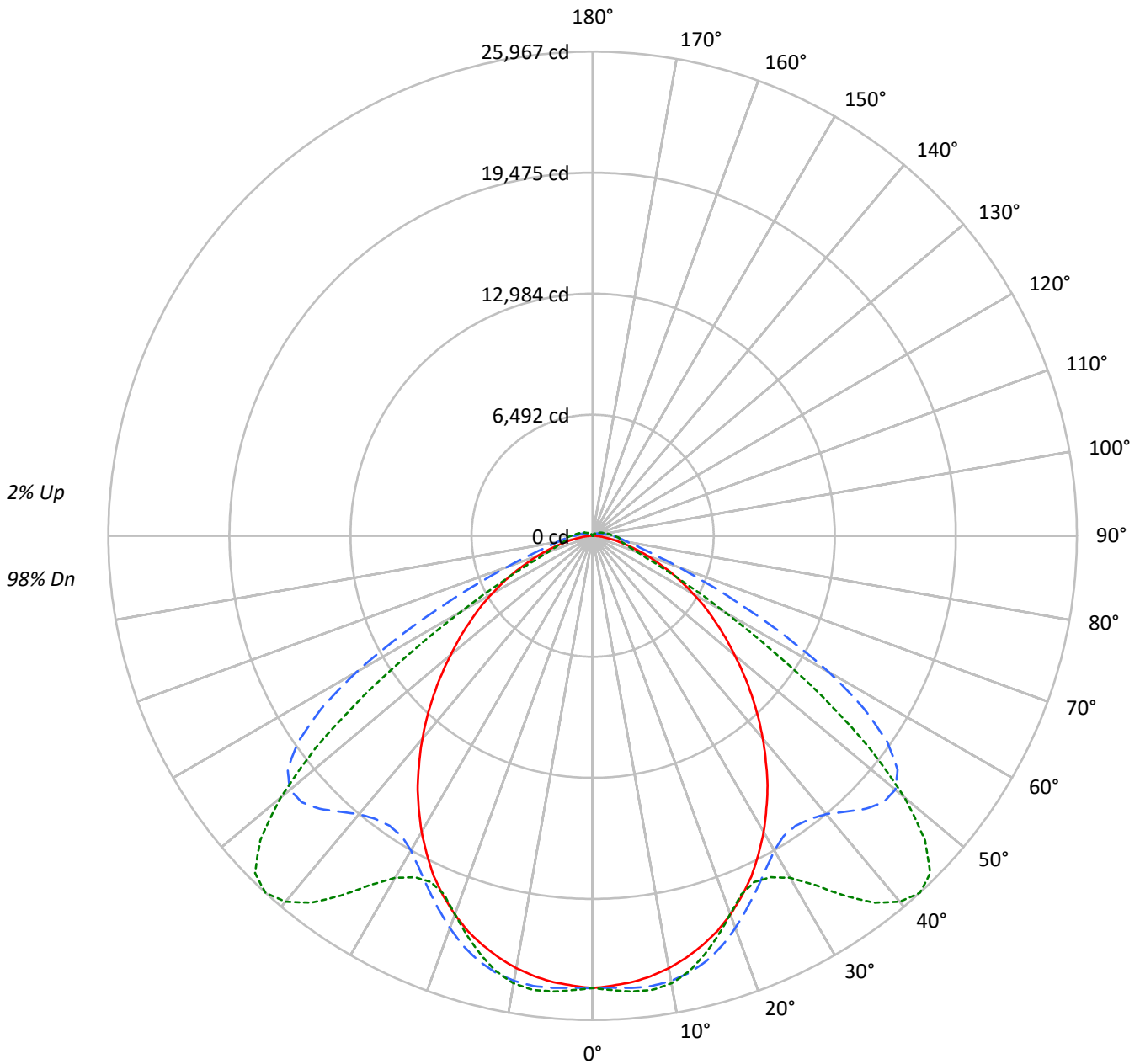
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 72625.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

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

	0°	45°	90°
0°	38359	38359	38359
5°	38002	38323	38633
10°	37525	38282	38515
15°	36793	37666	37121
20°	35790	36388	35145
25°	34448	34837	34279
30°	32663	33689	36702
35°	30627	34331	42714
40°	28265	37204	49080
45°	25794	42231	52392
50°	23217	46735	48365
55°	20796	46721	36599
60°	18330	39572	22109
65°	15726	27364	13185
70°	12777	17724	9317
75°	9720	12736	8365
80°	6978	11236	8937
85°	4736	12451	12593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2317.9	3.2
10°-20°	6563.5	9.0
20°-30°	9604.6	13.2
30°-40°	12473.6	17.2
40°-50°	15231.8	21.0
50°-60°	13414.0	18.5
60°-70°	6990.1	9.6
70°-80°	2997.6	4.1
80°-90°	1439.6	2.0
90°-100°	676.4	0.9
100°-110°	420.4	0.6
110°-120°	248.6	0.3
120°-130°	135.1	0.2
130°-140°	67.8	0.1
140°-150°	32.6	0.0
150°-160°	11.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18486.0	25.5
0°-40°	30959.7	42.6
0°-60°	59605.5	82.1
0°-90°	71032.8	97.8
90°-120°	1345.3	1.9
90°-150°	1580.8	2.2
90°-180°	1592.0	2.2
0°-180°	72625.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24255	24255	24255	24255	24255	
5°	24030	24214	24344	24559	24533	###
15°	22738	23376	23601	23423	23235	6402
25°	20147	21226	20864	20472	20493	9246
35°	16353	18080	18986	22141	23559	10193
45°	12041	15150	20707	25072	25595	9285
55°	8017	13271	19284	16908	15030	7195
65°	4600	9195	8828	4909	4223	4551
75°	1852	4302	2836	1942	1842	2020
85°	392	1533	1444	1413	1429	438
90°	5	555	952	1088	1115	27
95°	10	324	759	890	916	8
105°	21	183	492	591	602	22
115°	31	105	304	372	382	32
125°	37	52	178	230	236	31
135°	31	31	84	141	146	24
145°	42	31	37	68	78	25
155°	42	42	31	31	31	13
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°	24255.4	24255.4	24255.4	24255.4	24255.4
2.5°	24150.8	24255.4	24260.7	24407.2	24391.5
5°	24030.4	24213.6	24344.4	24558.9	24532.8
7.5°	23831.5	24119.4	24349.6	24585.1	24564.2
10°	23549.0	23941.4	24245.0	24438.6	24375.8
12.5°	23182.6	23700.7	23999.0	24040.9	23920.5
15°	22737.8	23376.3	23601.3	23423.4	23235.0
17.5°	22235.4	22983.8	23062.3	22675.0	22439.5
20°	21607.5	22460.5	22382.0	21848.2	21586.5
22.5°	20911.5	21884.8	21633.6	21073.7	20822.5
25°	20147.4	21225.5	20864.4	20471.9	20492.8
27.5°	19252.6	20477.1	20126.5	20304.4	20639.4
30°	18342.0	19692.2	19477.6	20513.8	21173.1
32.5°	17342.5	18886.3	19079.9	21126.0	22204.0
35°	16353.4	18080.4	18985.7	22141.3	23559.4
37.5°	15259.7	17264.0	19137.5	23313.5	24799.7
40°	14197.4	16468.6	19482.8	24365.3	25621.3
42.5°	13114.2	15756.9	20063.7	24988.1	25966.6
45°	12041.4	15149.8	20707.4	25071.8	25595.1
47.5°	10968.6	14637.0	21152.2	24407.2	24166.5
50°	9932.4	14181.7	21183.6	22811.1	21827.3
52.5°	8964.3	13763.1	20608.0	20267.8	18739.7
55°	8017.1	13271.1	19284.0	16908.1	15029.5
57.5°	7153.6	12590.8	17243.1	13297.3	11245.9
60°	6237.9	11669.8	14605.6	9728.3	8111.3
62.5°	5395.3	10523.8	11648.9	6771.6	5829.7
65°	4599.9	9194.6	8828.2	4908.6	4223.1
67.5°	3757.4	7818.3	6515.2	3579.4	3139.9
70°	3098.0	6541.4	4851.1	2784.0	2527.6
72.5°	2422.9	5327.3	3626.5	2260.7	2119.4
75°	1852.5	4301.6	2836.3	1941.5	1842.1
77.5°	1365.8	3401.5	2281.6	1716.5	1622.3
80°	957.7	2679.3	1910.1	1533.3	1496.7
82.5°	643.7	2072.3	1627.5	1460.0	1465.3
85°	392.5	1533.3	1444.3	1412.9	1428.6
87.5°	188.4	1088.5	1240.2	1287.3	1303.0
90°	5.2	554.7	952.4	1088.5	1114.7
92.5°	0.0	423.9	837.3	973.4	999.5
95°	10.5	324.5	758.8	889.6	915.8
97.5°	10.5	266.9	680.3	816.4	832.1
100°	15.7	230.3	607.0	737.9	753.6
102.5°	15.7	204.1	544.2	659.4	669.8
105°	20.9	183.2	491.9	591.3	601.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.4	125.6	345.4	418.6	429.1
115°	31.4	104.7	303.5	371.6	382.0
117.5°	36.6	94.2	266.9	329.7	334.9
120°	36.6	78.5	230.3	293.1	298.3
122.5°	36.6	62.8	204.1	261.7	266.9
125°	36.6	52.3	177.9	230.3	235.5
127.5°	31.4	36.6	151.8	204.1	209.3
130°	31.4	31.4	125.6	177.9	188.4
132.5°	31.4	31.4	104.7	157.0	167.5
135°	31.4	31.4	83.7	141.3	146.5
137.5°	31.4	31.4	68.0	120.4	130.8
140°	31.4	31.4	52.3	104.7	109.9
142.5°	36.6	31.4	47.1	89.0	94.2
145°	41.9	31.4	36.6	68.0	78.5
147.5°	41.9	36.6	36.6	57.6	62.8
150°	41.9	41.9	31.4	41.9	52.3
152.5°	41.9	41.9	31.4	31.4	41.9
155°	41.9	41.9	31.4	31.4	31.4
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°	26.2	162.2	439.6	528.5	539.0
110°	26.2	141.3	387.2	471.0	481.4



(END OF REPORT)