

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: P830875

Luminaire Tested: **OHBL-90SE-W-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830875  
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-L830-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

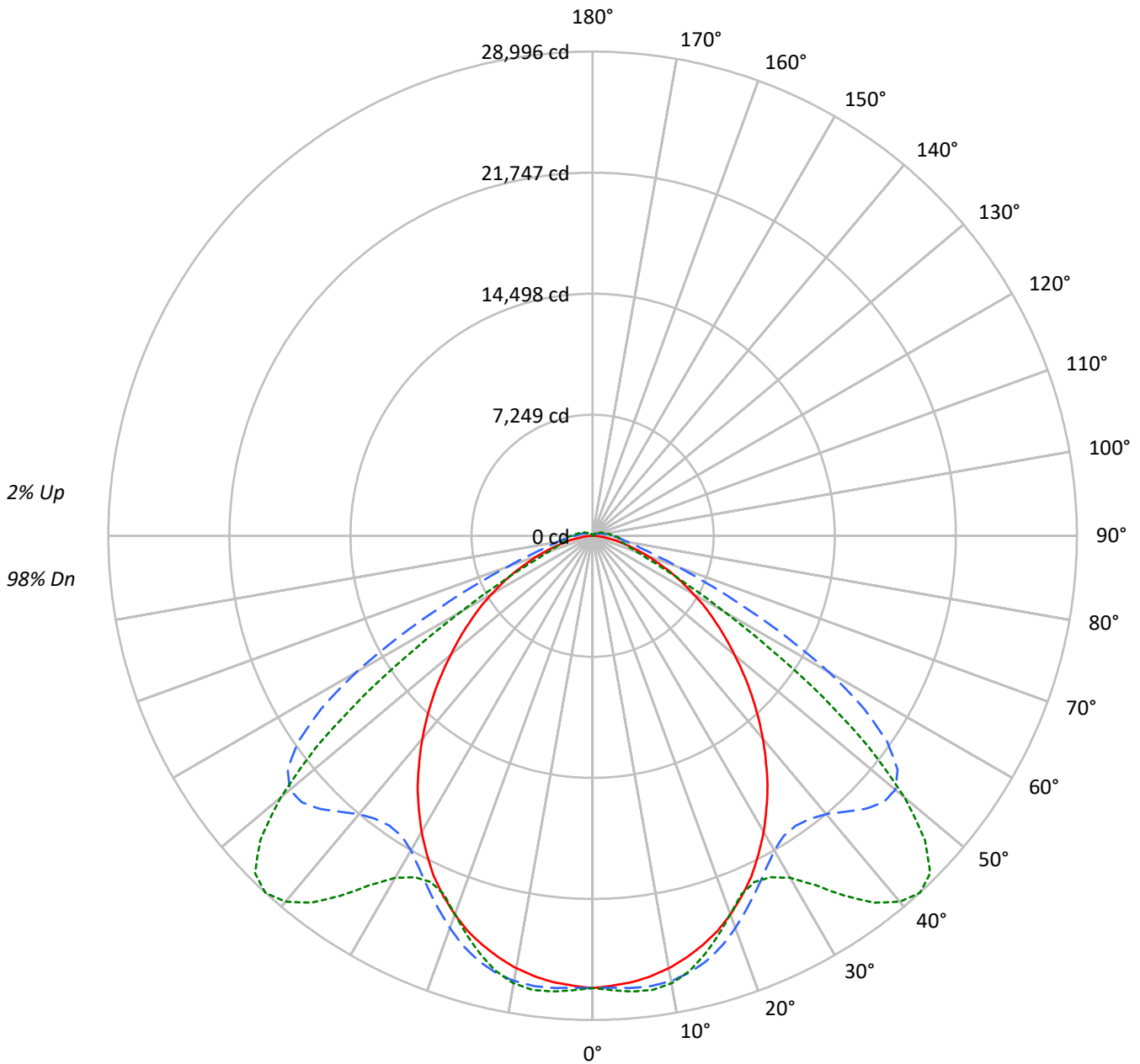
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 81098.0 lumens  
Efficiency: N/A  
Efficacy: 153.3 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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

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

	0°	45°	90°
0°	42835	42835	42835
5°	42436	42794	43140
10°	41903	42748	43009
15°	41086	42060	41451
20°	39966	40633	39245
25°	38467	38902	38278
30°	36474	37619	40984
35°	34200	38336	47698
40°	31562	41545	54806
45°	28803	47158	58505
50°	25926	52188	54007
55°	23222	52171	40869
60°	20469	44188	24689
65°	17561	30556	14723
70°	14268	19792	10404
75°	10854	14223	9341
80°	7791	12547	9980
85°	5288	13904	14062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2588.3	3.2
10°-20°	7329.3	9.0
20°-30°	10725.2	13.2
30°-40°	13928.9	17.2
40°-50°	17008.9	21.0
50°-60°	14979.0	18.5
60°-70°	7805.6	9.6
70°-80°	3347.3	4.1
80°-90°	1607.5	2.0
90°-100°	755.2	0.9
100°-110°	469.4	0.6
110°-120°	277.6	0.3
120°-130°	150.9	0.2
130°-140°	75.7	0.1
140°-150°	36.4	0.0
150°-160°	12.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	20642.8	25.5
0°-40°	34571.6	42.6
0°-60°	66559.6	82.1
0°-90°	79320.1	97.8
90°-120°	1502.2	1.9
90°-150°	1765.2	2.2
90°-180°	1778.0	2.2
0°-180°	81098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27085	27085	27085	27085	27085	
5°	26834	27038	27185	27424	27395	###
15°	25391	26104	26355	26156	25946	7149
25°	22498	23702	23299	22860	22884	10325
35°	18261	20190	21201	24724	26308	11382
45°	13446	16917	23123	27997	28581	10368
55°	8952	14820	21534	18881	16783	8035
65°	5137	10267	9858	5481	4716	5082
75°	2069	4804	3167	2168	2057	2256
85°	438	1712	1613	1578	1595	489
90°	6	619	1064	1216	1245	30
95°	12	362	847	993	1023	9
105°	23	204	549	660	672	25
115°	35	117	339	415	427	36
125°	41	58	199	257	263	35
135°	35	35	94	158	164	27
145°	47	35	41	76	88	27
155°	47	47	35	35	35	14
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-90SE-W-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27085.3	27085.3	27085.3	27085.3	27085.3
2.5°	26968.4	27085.3	27091.1	27254.7	27237.2
5°	26834.0	27038.5	27184.6	27424.2	27395.0
7.5°	26611.9	26933.3	27190.4	27453.4	27430.0
10°	26296.4	26734.6	27073.6	27289.8	27219.7
12.5°	25887.3	26465.8	26798.9	26845.7	26711.3
15°	25390.6	26103.5	26354.8	26156.1	25945.7
17.5°	24829.6	25665.2	25752.9	25320.5	25057.5
20°	24128.4	25080.9	24993.2	24397.2	24105.0
22.5°	23351.2	24438.1	24157.6	23532.3	23251.8
25°	22498.0	23701.8	23298.6	22860.3	22883.7
27.5°	21498.7	22866.1	22474.6	22673.3	23047.3
30°	20481.9	21989.6	21750.0	22907.1	23643.3
32.5°	19365.8	21089.7	21305.9	23590.8	24794.5
35°	18261.4	20189.8	21200.7	24724.4	26308.0
37.5°	17040.0	19278.2	21370.2	26033.4	27693.0
40°	15853.8	18389.9	21755.9	27208.0	28610.4
42.5°	14644.2	17595.2	22404.5	27903.4	28996.1
45°	13446.2	16917.3	23123.3	27996.9	28581.2
47.5°	12248.3	16344.6	23620.0	27254.7	26985.9
50°	11091.2	15836.3	23655.0	25472.4	24373.8
52.5°	10010.1	15368.8	23012.2	22632.4	20926.1
55°	8952.4	14819.5	21533.8	18880.8	16782.9
57.5°	7988.2	14059.8	19254.8	14848.7	12558.0
60°	6965.6	13031.3	16309.6	10863.3	9057.6
62.5°	6024.8	11751.6	13007.9	7561.7	6509.8
65°	5136.6	10267.3	9858.2	5481.3	4715.8
67.5°	4195.7	8730.4	7275.3	3997.0	3506.2
70°	3459.4	7304.5	5417.1	3108.8	2822.5
72.5°	2705.6	5948.8	4049.6	2524.5	2366.7
75°	2068.6	4803.5	3167.3	2168.0	2057.0
77.5°	1525.2	3798.4	2547.8	1916.7	1811.5
80°	1069.4	2991.9	2132.9	1712.2	1671.3
82.5°	718.8	2314.1	1817.4	1630.4	1636.2
85°	438.3	1712.2	1612.8	1577.8	1595.3
87.5°	210.4	1215.5	1384.9	1437.5	1455.1
90°	5.8	619.4	1063.5	1215.5	1244.7
92.5°	0.0	473.3	935.0	1086.9	1116.1
95°	11.7	362.3	847.3	993.4	1022.6
97.5°	11.7	298.0	759.7	911.6	929.1
100°	17.5	257.1	677.9	824.0	841.5
102.5°	17.5	227.9	607.7	736.3	748.0
105°	23.4	204.5	549.3	660.3	672.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.1	140.2	385.7	467.5	479.2
115°	35.1	116.9	338.9	414.9	426.6
117.5°	40.9	105.2	298.0	368.1	374.0
120°	40.9	87.7	257.1	327.2	333.1
122.5°	40.9	70.1	227.9	292.2	298.0
125°	40.9	58.4	198.7	257.1	263.0
127.5°	35.1	40.9	169.5	227.9	233.7
130°	35.1	35.1	140.2	198.7	210.4
132.5°	35.1	35.1	116.9	175.3	187.0
135°	35.1	35.1	93.5	157.8	163.6
137.5°	35.1	35.1	76.0	134.4	146.1
140°	35.1	35.1	58.4	116.9	122.7
142.5°	40.9	35.1	52.6	99.3	105.2
145°	46.7	35.1	40.9	76.0	87.7
147.5°	46.7	40.9	40.9	64.3	70.1
150°	46.7	46.7	35.1	46.7	58.4
152.5°	46.7	46.7	35.1	35.1	46.7
155°	46.7	46.7	35.1	35.1	35.1
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°	29.2	181.2	490.9	590.2	601.9
110°	29.2	157.8	432.4	525.9	537.6



(END OF REPORT)