

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: P830836

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830836  
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-L735-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

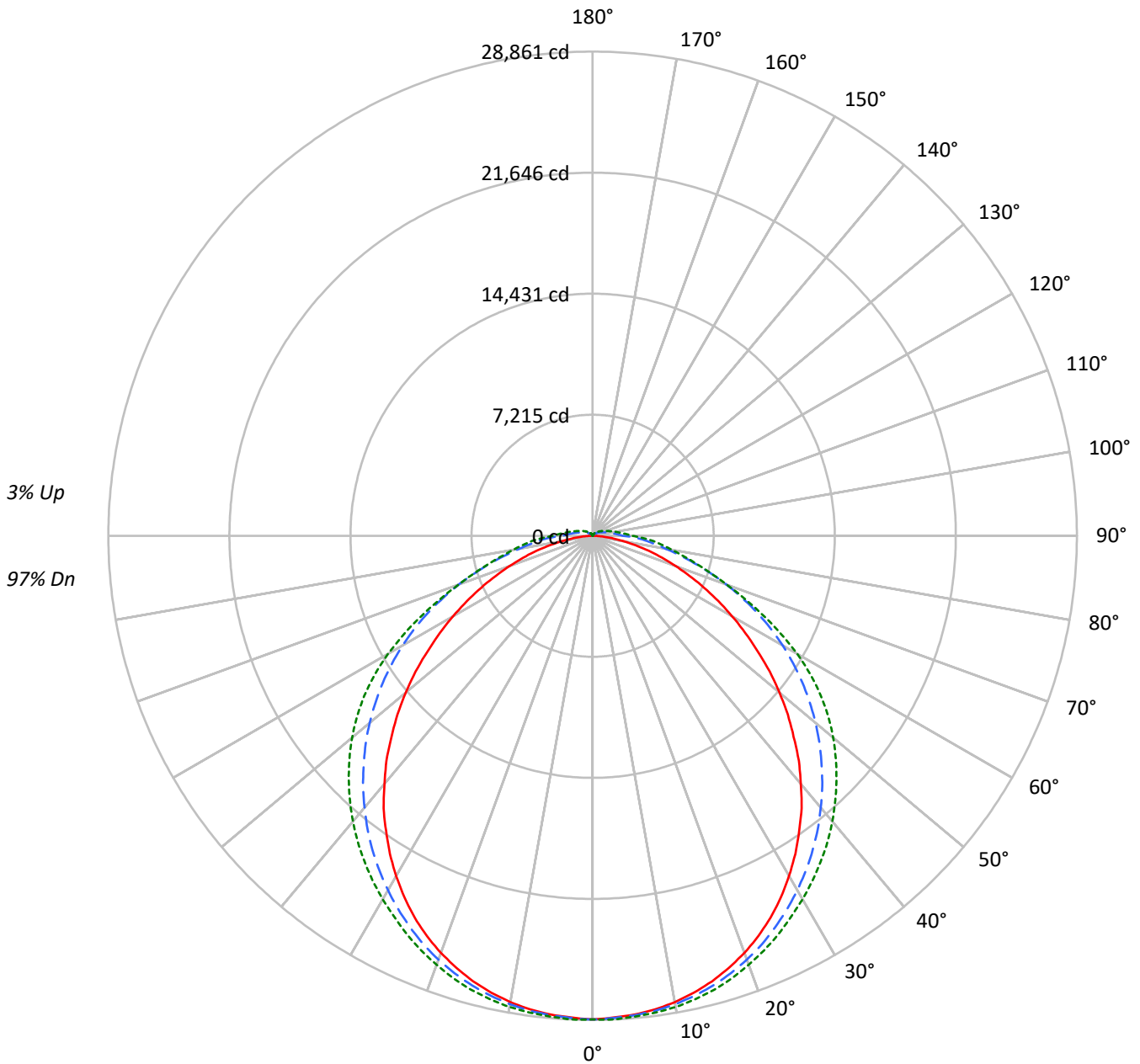
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 86291.0 lumens  
Efficiency: N/A  
Efficacy: 163.1 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°	45598	45598	45598
5°	45306	45166	45304
10°	44989	44768	45067
15°	44486	44292	44756
20°	43819	43709	44300
25°	42928	42981	43838
30°	41694	42192	43374
35°	40201	41354	42974
40°	38408	40384	42580
45°	36293	39331	42076
50°	33979	38266	41465
55°	31135	36962	40433
60°	28221	35426	38372
65°	25042	33464	34984
70°	21595	30964	31316
75°	18105	28074	28838
80°	13727	25985	28610
85°	8685	27010	31971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2732.0	3.2
10°-20°	7837.8	9.1
20°-30°	11853.3	13.7
30°-40°	14230.0	16.5
40°-50°	14697.3	17.0
50°-60°	13223.0	15.3
60°-70°	9960.7	11.5
70°-80°	6014.6	7.0
80°-90°	2941.6	3.4
90°-100°	1238.2	1.4
100°-110°	706.8	0.8
110°-120°	414.9	0.5
120°-130°	234.7	0.3
130°-140°	123.6	0.1
140°-150°	60.1	0.1
150°-160°	22.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22423.2	26.0
0°-40°	36653.3	42.5
0°-60°	64573.6	74.8
0°-90°	83490.5	96.8
90°-120°	2359.9	2.7
90°-150°	2778.2	3.2
90°-180°	2801.0	3.2
0°-180°	86291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28833	28833	28833	28833	28833	
5°	28649	28727	28691	28804	28769	###
15°	27492	27626	27753	27986	28014	7751
25°	25107	25382	25742	26144	26208	11548
35°	21466	21967	22870	23561	23702	13419
45°	16942	17796	19285	20337	20555	13080
55°	12003	13245	15256	16406	16604	10762
65°	7325	8820	10796	11333	11206	7277
75°	3451	4954	6252	6414	6351	3681
85°	720	1898	3133	3564	3627	832
90°	0	741	1792	2258	2350	45
95°	35	501	1341	1708	1771	30
105°	49	289	776	1016	1058	49
115°	56	162	480	642	670	58
125°	56	78	289	416	438	51
135°	49	64	148	254	282	39
145°	71	64	71	127	148	42
155°	71	78	71	64	71	22
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°	28832.6	28832.6	28832.6	28832.6	28832.6
2.5°	28747.9	28818.5	28776.1	28867.9	28860.8
5°	28649.1	28726.7	28691.4	28804.3	28769.1
7.5°	28479.7	28564.4	28557.4	28684.4	28670.3
10°	28232.8	28324.5	28352.7	28522.1	28522.1
12.5°	27894.1	28014.0	28084.6	28289.2	28296.3
15°	27491.8	27625.9	27752.9	27985.8	28014.0
17.5°	27005.0	27174.3	27350.7	27618.9	27654.1
20°	26454.6	26645.1	26885.0	27167.3	27209.6
22.5°	25819.5	26045.3	26355.8	26687.4	26736.8
25°	25106.8	25382.0	25741.9	26144.1	26207.6
27.5°	24295.3	24612.8	25099.7	25551.3	25607.8
30°	23413.2	23787.2	24394.1	24930.4	25022.1
32.5°	22481.8	22912.2	23660.2	24260.0	24387.0
35°	21465.7	21966.7	22869.9	23561.4	23702.5
37.5°	20463.6	21014.0	22037.2	22827.5	22996.9
40°	19292.3	19976.8	21148.1	22023.1	22227.8
42.5°	18191.5	18932.4	20259.0	21211.6	21409.2
45°	16942.5	17796.3	19285.2	20336.6	20555.4
47.5°	15771.1	16695.5	18346.7	19433.4	19659.2
50°	14536.2	15552.4	17344.7	18480.8	18713.6
52.5°	13301.4	14395.1	16307.4	17485.8	17704.6
55°	12003.0	13244.9	15256.0	16406.2	16603.8
57.5°	10796.3	12108.8	14176.4	15270.1	15390.1
60°	9603.8	10965.7	13075.6	14035.2	14077.6
62.5°	8439.5	9871.9	11946.5	12708.6	12652.2
65°	7324.6	8820.5	10796.3	11332.6	11205.6
67.5°	6252.0	7797.4	9617.9	9963.7	9794.3
70°	5235.9	6802.4	8474.8	8651.2	8495.9
72.5°	4339.7	5856.8	7317.5	7465.7	7352.8
75°	3450.6	4953.6	6252.0	6414.3	6350.8
77.5°	2617.9	4078.6	5271.2	5482.8	5497.0
80°	1884.1	3281.2	4417.3	4749.0	4791.3
82.5°	1241.9	2547.4	3704.6	4128.0	4191.5
85°	719.8	1898.2	3133.1	3563.5	3627.0
87.5°	310.5	1368.9	2519.1	2907.2	2984.9
90°	0.0	740.9	1792.3	2258.1	2349.8
92.5°	21.2	613.9	1538.3	1961.7	2039.3
95°	35.3	501.0	1340.7	1707.7	1771.2
97.5°	42.3	423.4	1164.3	1488.9	1552.4
100°	42.3	366.9	1009.1	1305.4	1361.9
102.5°	42.3	324.6	882.1	1143.1	1192.5
105°	49.4	289.3	776.2	1016.1	1058.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	56.5	190.5	536.3	719.8	748.0
115°	56.5	162.3	479.8	642.1	670.4
117.5°	63.5	141.1	423.4	578.6	599.8
120°	63.5	120.0	374.0	515.1	543.3
122.5°	63.5	98.8	331.7	465.7	486.9
125°	56.5	77.6	289.3	416.3	437.5
127.5°	49.4	63.5	247.0	374.0	395.2
130°	49.4	56.5	211.7	331.7	352.8
132.5°	49.4	63.5	176.4	289.3	317.5
135°	49.4	63.5	148.2	254.0	282.3
137.5°	49.4	63.5	120.0	218.7	247.0
140°	56.5	63.5	98.8	183.5	211.7
142.5°	63.5	63.5	77.6	155.2	176.4
145°	70.6	63.5	70.6	127.0	148.2
147.5°	70.6	70.6	70.6	98.8	120.0
150°	70.6	77.6	70.6	77.6	98.8
152.5°	70.6	77.6	70.6	63.5	77.6
155°	70.6	77.6	70.6	63.5	70.6
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°	49.4	254.0	684.5	903.2	938.5
110°	49.4	225.8	606.9	804.4	839.7



(END OF REPORT)