

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: P830862

Luminaire Tested: **OHBL-90SE-NL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

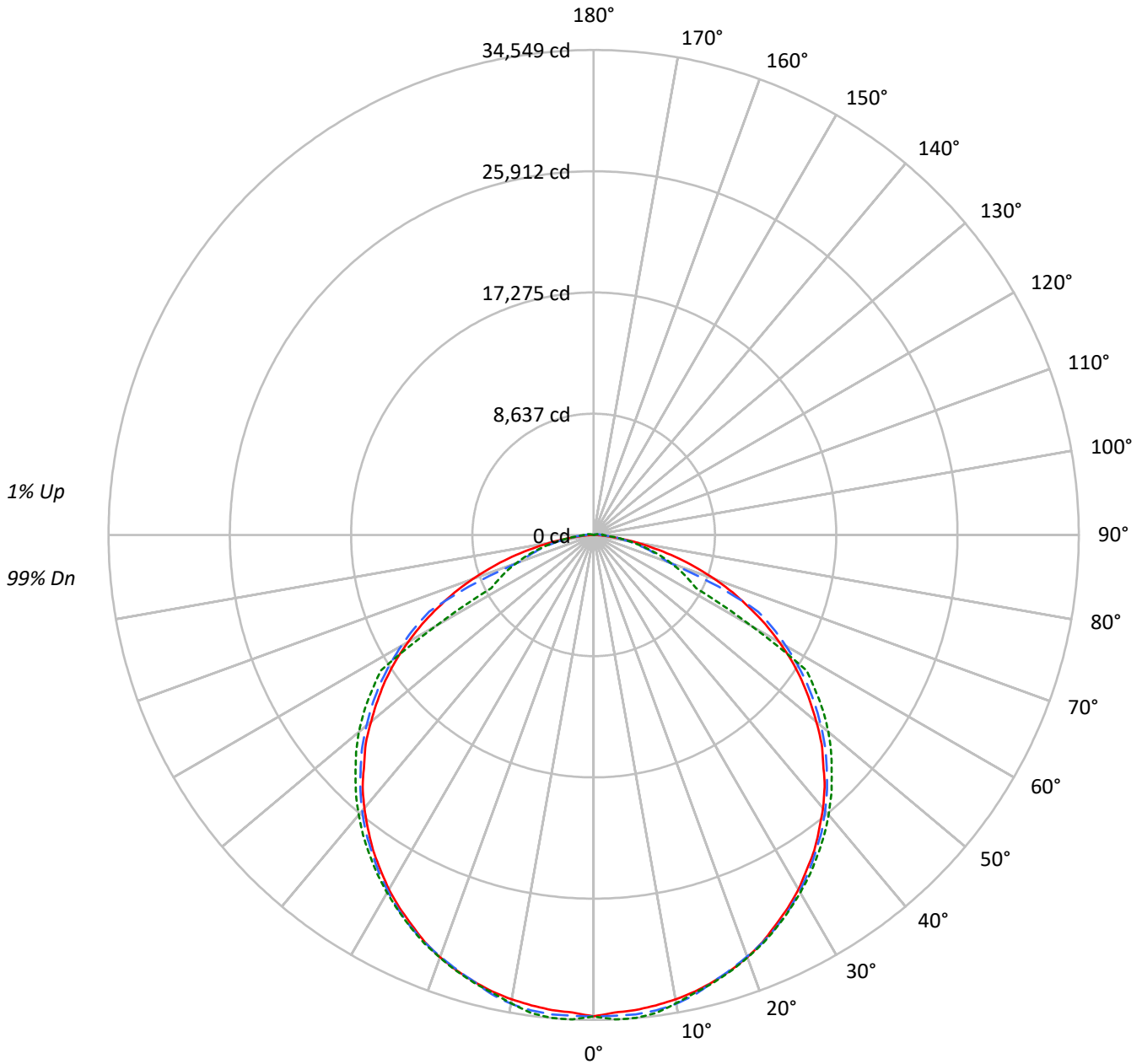
Test Method: LM-79-08  
Report Number: P830862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-NL-UNV-L750-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 96292.0 lumens  
Efficiency: N/A  
Efficacy: 182.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
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	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

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

	0°	45°	90°
0°	54239	54239	54239
5°	53940	54427	54838
10°	53955	54467	54400
15°	53945	53936	54054
20°	53872	53790	53922
25°	53504	53776	53818
30°	53256	53530	53740
35°	52911	53201	53701
40°	52454	52951	53734
45°	51697	52478	53623
50°	50918	51956	53673
55°	49944	51239	53082
60°	48271	49984	41325
65°	45670	48326	27812
70°	42241	25654	26992
75°	36845	24379	25777
80°	28335	22363	23623
85°	14300	22602	23146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3258.3	3.4
10°-20°	9329.5	9.7
20°-30°	14195.5	14.7
30°-40°	17259.8	17.9
40°-50°	18147.8	18.8
50°-60°	16571.2	17.2
60°-70°	10622.9	11.0
70°-80°	5018.1	5.2
80°-90°	1391.5	1.4
90°-100°	368.5	0.4
100°-110°	100.9	0.1
110°-120°	28.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	26783.3	27.8
0°-40°	44043.1	45.7
0°-60°	78762.1	81.8
0°-90°	95794.6	99.5
90°-120°	497.4	0.5
90°-150°	497.4	0.5
90°-180°	497.0	0.5
0°-180°	96292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	34297	34297	34297	34297	34297	
5°	33978	34110	34285	34471	34543	###
15°	32948	33195	32943	32991	33015	9302
25°	30662	30710	30818	30866	30842	14148
35°	27406	27244	27556	27894	27815	17127
45°	23115	23073	23464	24018	23976	17866
55°	18114	17976	18584	19204	19252	16155
65°	12204	12204	12914	7408	7432	12100
75°	6030	6145	3990	4201	4218	6356
85°	788	999	1246	1348	1276	1165
90°	0	337	554	656	644	35
95°	18	175	398	536	536	10
105°	30	66	96	96	90	30
115°	30	42	60	42	6	21
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	34296.7	34296.7	34296.7	34296.7	34296.7
2.5°	34055.9	34170.6	34296.7	34459.2	34549.0
5°	33977.5	34110.0	34284.6	34471.3	34543.3
7.5°	33809.3	33995.4	34164.2	34296.7	34338.8
10°	33598.4	33821.4	33917.6	33905.5	33875.6
12.5°	33315.5	33550.6	33520.7	33381.8	33406.0
15°	32948.5	33195.1	32942.8	32990.6	33014.8
17.5°	32515.3	32756.1	32461.1	32557.3	32563.7
20°	32010.0	32190.3	31961.6	32040.0	32040.0
22.5°	31402.2	31528.3	31432.1	31486.3	31498.4
25°	30661.8	30709.6	30817.9	30866.4	30842.1
27.5°	29952.1	29891.5	30102.4	30216.5	30155.9
30°	29163.3	29067.1	29313.6	29500.3	29428.3
32.5°	28260.4	28200.6	28483.4	28705.8	28663.8
35°	27406.0	27243.6	27556.4	27893.5	27815.1
37.5°	26394.9	26298.7	26653.6	27009.1	26967.0
40°	25408.0	25245.5	25648.8	26070.0	26027.9
42.5°	24349.0	24156.0	24595.6	25101.5	25053.1
45°	23114.9	23072.8	23464.0	24017.7	23975.7
47.5°	22020.3	21809.4	22356.7	22892.5	22940.9
50°	20695.7	20617.9	21117.4	21767.3	21815.1
52.5°	19402.3	19348.1	19871.2	20527.5	20611.6
55°	18114.0	17975.7	18583.5	19203.5	19251.9
57.5°	16736.5	16591.8	17211.8	17885.9	17987.8
60°	15261.5	15123.2	15803.0	16429.4	13065.2
62.5°	13787.1	13690.9	14401.3	10200.6	8221.0
65°	12204.5	12204.5	12914.2	7408.1	7432.3
67.5°	10724.4	10628.2	9629.1	6655.6	6655.6
70°	9135.3	9171.7	5548.2	5831.8	5837.5
72.5°	7540.6	7673.1	4790.7	5018.8	5030.9
75°	6029.9	6144.6	3989.8	4200.7	4218.5
77.5°	4429.4	3406.2	3207.4	3370.5	3376.2
80°	3111.2	2148.4	2455.5	2611.6	2593.8
82.5°	1817.1	1504.3	1799.3	1914.0	1907.6
85°	788.1	999.0	1245.6	1348.2	1275.6
87.5°	252.3	619.9	776.0	836.6	830.2
90°	0.0	337.0	553.7	655.6	644.2
92.5°	0.0	264.4	481.7	602.1	607.8
95°	17.8	174.6	397.6	535.8	535.8
97.5°	12.1	126.2	282.9	421.2	433.3
100°	12.1	101.9	186.7	300.7	307.1
102.5°	29.9	84.1	114.0	192.4	198.8
105°	29.9	66.3	96.2	96.2	90.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	36.3	48.4	66.3	48.4	5.7
115°	29.9	42.1	59.9	42.1	5.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	29.9	59.9	84.1	54.2	17.8
110°	36.3	54.2	72.0	48.4	5.7



(END OF REPORT)