

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: P830850

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830850  
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-L750-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

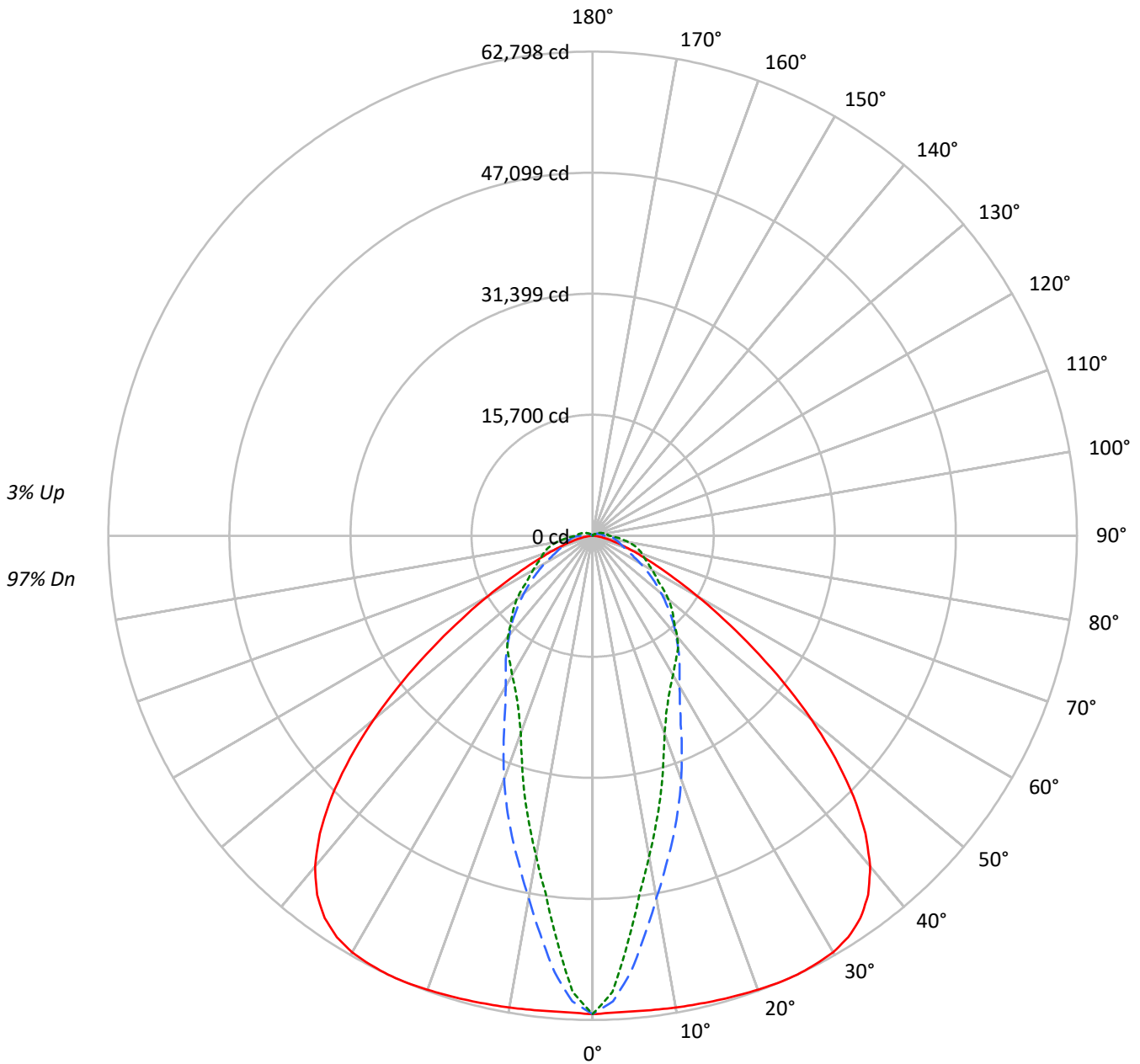
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 91559.0 lumens  
Efficiency: N/A  
Efficacy: 173.1 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

TEST NUMBER: P830850  
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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°	98109	98109	98109
5°	97909	89385	83122
10°	99014	75327	66694
15°	100947	64452	54776
20°	103783	54522	44334
25°	107373	45151	38873
30°	111084	38918	36139
35°	113395	35488	34459
40°	111455	32077	32720
45°	102534	29007	30323
50°	86507	25648	28494
55°	65732	22487	25391
60°	46064	19308	24349
65°	30985	16654	23890
70°	21161	15661	25136
75°	14684	16199	26972
80°	10109	18026	27958
85°	5913	22752	29717



TEST NUMBER: P830850

CATALOG NUMBER: OHBL-90SE-N-UNV-L750-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5222.1	5.7
10°-20°	12284.8	13.4
20°-30°	15398.8	16.8
30°-40°	16339.9	17.8
40°-50°	14773.9	16.1
50°-60°	10712.0	11.7
60°-70°	6722.3	7.3
70°-80°	4448.6	4.9
80°-90°	2562.9	2.8
90°-100°	1241.6	1.4
100°-110°	857.0	0.9
110°-120°	528.8	0.6
120°-130°	256.1	0.3
130°-140°	117.8	0.1
140°-150°	64.4	0.1
150°-160°	28.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	32905.7	35.9
0°-40°	49245.6	53.8
0°-60°	74731.5	81.6
0°-90°	88465.3	96.6
90°-120°	2627.4	2.9
90°-150°	3065.7	3.3
90°-180°	3094.0	3.4
0°-180°	91559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	62036	62036	62036	62036	62036	
5°	61912	60324	56781	54148	52784	###
15°	62384	50848	40385	35916	34286	17692
25°	62798	39316	27042	24001	23239	29012
35°	60548	26138	19626	19012	19006	37640
45°	47866	16556	14223	14566	14814	36464
55°	25341	10262	9282	10067	10427	22896
65°	9063	5952	5373	6884	7652	9431
75°	2799	3206	3608	5603	5940	3120
85°	490	1328	2639	3672	3371	587
90°	0	555	1529	2155	2173	32
95°	24	390	1346	1830	1913	21
105°	47	260	980	1299	1334	48
115°	65	183	661	827	844	64
125°	71	94	336	425	419	62
135°	59	71	148	230	230	46
145°	71	77	89	136	130	43
155°	71	89	94	100	89	22
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830850

CATALOG NUMBER: OHBL-90SE-N-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	62036.1	62036.1	62036.1	62036.1	62036.1
2.5°	61906.2	61552.0	60447.9	59774.8	59208.0
5°	61912.1	60323.9	56781.3	54148.0	52784.1
7.5°	62000.7	58469.9	52087.4	48243.7	46744.1
10°	62136.5	56173.2	47706.5	43608.9	42209.6
12.5°	62236.9	53587.1	43851.0	39641.2	38106.1
15°	62384.5	50847.5	40385.2	35915.6	34286.1
17.5°	62520.3	48267.4	36960.7	32290.4	30477.8
20°	62656.1	45486.5	33536.2	28724.2	27230.5
22.5°	62785.9	42552.0	30194.4	25955.1	24933.7
25°	62797.8	39316.5	27041.5	24000.8	23239.2
27.5°	62644.2	35962.9	24485.0	22365.4	21893.0
30°	62378.6	32709.6	22501.2	21184.5	20848.0
32.5°	61717.3	29391.4	20966.0	20045.0	19850.1
35°	60548.2	26138.2	19625.8	19011.7	19005.8
37.5°	58706.1	23251.0	18173.3	18067.0	18196.9
40°	55984.2	20724.0	16797.6	17081.0	17081.0
42.5°	52353.1	18527.6	15551.8	15841.1	15764.4
45°	47865.9	16555.6	14223.4	14565.8	14813.8
47.5°	42664.2	14819.7	12865.4	13526.7	13869.1
50°	37007.9	13166.5	11625.5	12469.8	12859.5
52.5°	31080.0	11637.3	10415.1	11383.4	11696.3
55°	25341.1	10261.6	9281.5	10066.8	10426.9
57.5°	20145.3	8950.9	8171.5	8915.4	9659.4
60°	15675.8	7823.2	7126.4	8189.2	8933.2
62.5°	11973.8	6819.4	6146.3	7510.2	8254.2
65°	9063.0	5951.5	5372.9	6884.4	7651.9
67.5°	6831.2	5201.7	4770.6	6429.7	7179.6
70°	5130.8	4475.4	4286.5	6146.3	6819.4
72.5°	3790.5	3808.3	3902.7	5898.4	6412.0
75°	2798.6	3206.0	3607.5	5603.1	5939.7
77.5°	2001.5	2656.9	3341.8	5248.9	5367.0
80°	1387.5	2166.9	3064.3	4782.5	4682.1
82.5°	867.9	1735.9	2816.3	4268.8	3991.3
85°	490.1	1328.5	2639.2	3672.5	3371.3
87.5°	218.5	991.9	2308.6	2863.6	2674.6
90°	0.0	555.0	1529.2	2155.1	2172.8
92.5°	11.8	460.5	1411.1	1972.0	2031.1
95°	23.6	389.7	1346.2	1830.3	1913.0
97.5°	29.5	342.4	1263.5	1700.4	1771.3
100°	35.4	307.0	1163.1	1564.6	1623.7
102.5°	41.3	283.4	1068.7	1422.9	1470.2
105°	47.2	259.8	980.1	1298.9	1334.4



TEST NUMBER: P830850

CATALOG NUMBER: OHBL-90SE-N-UNV-L750-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	59.0	200.7	738.0	932.9	962.4
115°	64.9	183.0	661.3	826.6	844.3
117.5°	70.9	159.4	578.6	726.2	732.1
120°	70.9	141.7	496.0	619.9	619.9
122.5°	70.9	118.1	413.3	513.7	507.8
125°	70.9	94.5	336.5	425.1	419.2
127.5°	64.9	76.8	271.6	354.3	348.4
130°	64.9	76.8	218.5	301.1	301.1
132.5°	59.0	70.9	177.1	259.8	259.8
135°	59.0	70.9	147.6	230.3	230.3
137.5°	59.0	76.8	124.0	200.7	200.7
140°	59.0	70.9	106.3	177.1	177.1
142.5°	64.9	70.9	94.5	153.5	153.5
145°	70.9	76.8	88.6	135.8	129.9
147.5°	70.9	82.7	88.6	118.1	112.2
150°	70.9	88.6	88.6	106.3	100.4
152.5°	70.9	88.6	88.6	100.4	94.5
155°	70.9	88.6	94.5	100.4	88.6
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°	47.2	242.1	897.4	1163.1	1204.5
110°	53.1	218.5	820.7	1039.2	1080.5



(END OF REPORT)