

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: P830560

Luminaire Tested: **OHBL-48SE-N-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830560  
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-48SE-N-UNV-L735-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

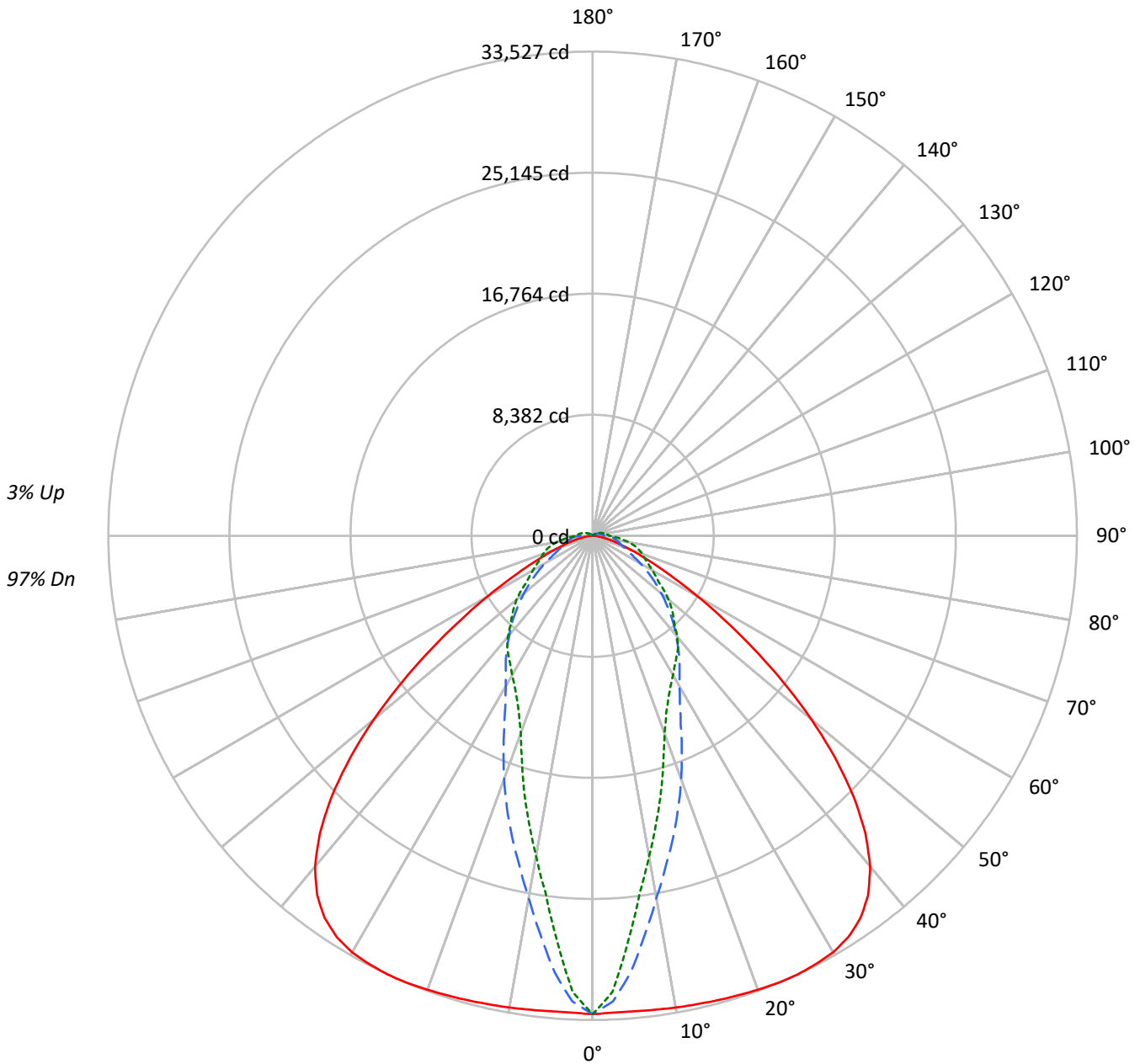
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48882.0 lumens  
Efficiency: N/A  
Efficacy: 169.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
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	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	99	99	99	97		
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	85	85	85	82		
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	73	73	73	71		
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	64	64	64	62		
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	56	56	56	54		
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	50	50	50	48		
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	45	45	45	43		
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	41	41	41	39		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	37	37	37	35		
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	34	34	34	32		
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	32	32	32	30		

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

	0°	45°	90°
0°	56569	56569	56569
5°	56454	51516	47897
10°	57091	43394	38406
15°	58206	37112	31522
20°	59841	31380	25496
25°	61910	25973	22340
30°	64050	22376	20753
35°	65383	20392	19772
40°	64264	18420	18758
45°	59121	16646	17367
50°	49880	14706	16300
55°	37901	12881	14505
60°	26561	11047	13886
65°	17866	9514	13595
70°	12202	8929	14262
75°	8467	9208	15238
80°	5829	10198	15688
85°	3409	12756	16458



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2788.0	5.7
10°-20°	6558.7	13.4
20°-30°	8221.2	16.8
30°-40°	8723.6	17.8
40°-50°	7887.5	16.1
50°-60°	5719.0	11.7
60°-70°	3588.9	7.3
70°-80°	2375.0	4.9
80°-90°	1368.3	2.8
90°-100°	662.9	1.4
100°-110°	457.5	0.9
110°-120°	282.3	0.6
120°-130°	136.7	0.3
130°-140°	62.9	0.1
140°-150°	34.3	0.1
150°-160°	14.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17567.9	35.9
0°-40°	26291.5	53.8
0°-60°	39898.0	81.6
0°-90°	47230.3	96.6
90°-120°	1402.8	2.9
90°-150°	1636.7	3.3
90°-180°	1652.0	3.4
0°-180°	48882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33120	33120	33120	33120	33120	
5°	33054	32206	30315	28909	28181	###
15°	33306	27147	21561	19175	18305	9445
25°	33527	20990	14437	12814	12407	15489
35°	32326	13955	10478	10150	10147	20095
45°	25555	8839	7594	7776	7909	19468
55°	13529	5478	4955	5374	5567	12224
65°	4839	3177	2868	3676	4085	5035
75°	1494	1712	1926	2991	3171	1666
85°	262	709	1409	1961	1800	314
90°	0	296	816	1151	1160	17
95°	13	208	719	977	1021	11
105°	25	139	523	694	712	25
115°	35	98	353	441	451	34
125°	38	50	180	227	224	33
135°	32	38	79	123	123	25
145°	38	41	47	72	69	23
155°	38	47	50	54	47	12
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°	33120.2	33120.2	33120.2	33120.2	33120.2
2.5°	33050.8	32861.7	32272.2	31912.9	31610.3
5°	33054.0	32206.0	30314.7	28908.8	28180.7
7.5°	33101.2	31216.2	27808.7	25756.6	24956.0
10°	33173.7	29990.0	25469.8	23282.1	22535.1
12.5°	33227.3	28609.4	23411.4	21163.9	20344.3
15°	33306.1	27146.7	21561.0	19174.8	18304.8
17.5°	33378.6	25769.2	19732.8	17239.4	16271.7
20°	33451.1	24284.5	17904.5	15335.5	14537.9
22.5°	33520.5	22717.9	16120.3	13857.1	13311.7
25°	33526.8	20990.5	14437.1	12813.7	12407.1
27.5°	33444.8	19200.0	13072.2	11940.5	11688.4
30°	33303.0	17463.2	12013.0	11310.1	11130.4
32.5°	32949.9	15691.6	11193.5	10701.7	10597.7
35°	32325.8	13954.8	10477.9	10150.1	10146.9
37.5°	31342.3	12413.4	9702.5	9645.7	9715.1
40°	29889.2	11064.2	8968.0	9119.3	9119.3
42.5°	27950.6	9891.6	8302.9	8457.4	8416.4
45°	25554.9	8838.8	7593.6	7776.5	7908.9
47.5°	22777.8	7912.0	6868.6	7221.7	7404.5
50°	19758.0	7029.4	6206.7	6657.4	6865.5
52.5°	16593.2	6213.0	5560.5	6077.4	6244.5
55°	13529.2	5478.5	4955.3	5374.5	5566.8
57.5°	10755.3	4778.7	4362.6	4759.8	5157.0
60°	8369.1	4176.7	3804.7	4372.1	4769.3
62.5°	6392.7	3640.8	3281.4	4009.6	4406.8
65°	4838.6	3177.4	2868.5	3675.5	4085.3
67.5°	3647.1	2777.1	2547.0	3432.7	3833.1
70°	2739.3	2389.4	2288.5	3281.4	3640.8
72.5°	2023.7	2033.2	2083.6	3149.0	3423.3
75°	1494.1	1711.6	1926.0	2991.4	3171.1
77.5°	1068.6	1418.5	1784.1	2802.3	2865.3
80°	740.8	1156.9	1636.0	2553.3	2499.7
82.5°	463.4	926.7	1503.6	2279.0	2130.9
85°	261.6	709.2	1409.0	1960.7	1799.9
87.5°	116.6	529.6	1232.5	1528.8	1427.9
90°	0.0	296.3	816.4	1150.6	1160.0
92.5°	6.3	245.9	753.4	1052.8	1084.4
95°	12.6	208.0	718.7	977.2	1021.3
97.5°	15.8	182.8	674.6	907.8	945.7
100°	18.9	163.9	621.0	835.3	866.9
102.5°	22.1	151.3	570.5	759.7	784.9
105°	25.2	138.7	523.3	693.5	712.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.5	107.2	394.0	498.0	513.8
115°	34.7	97.7	353.0	441.3	450.8
117.5°	37.8	85.1	308.9	387.7	390.9
120°	37.8	75.7	264.8	331.0	331.0
122.5°	37.8	63.0	220.7	274.2	271.1
125°	37.8	50.4	179.7	227.0	223.8
127.5°	34.7	41.0	145.0	189.1	186.0
130°	34.7	41.0	116.6	160.8	160.8
132.5°	31.5	37.8	94.6	138.7	138.7
135°	31.5	37.8	78.8	122.9	122.9
137.5°	31.5	41.0	66.2	107.2	107.2
140°	31.5	37.8	56.7	94.6	94.6
142.5°	34.7	37.8	50.4	82.0	82.0
145°	37.8	41.0	47.3	72.5	69.3
147.5°	37.8	44.1	47.3	63.0	59.9
150°	37.8	47.3	47.3	56.7	53.6
152.5°	37.8	47.3	47.3	53.6	50.4
155°	37.8	47.3	50.4	53.6	47.3
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°	25.2	129.2	479.1	621.0	643.0
110°	28.4	116.6	438.2	554.8	576.9



(END OF REPORT)