

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: P830532

Luminaire Tested: **OHBL-48SE-A-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-A-UNV-L935-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

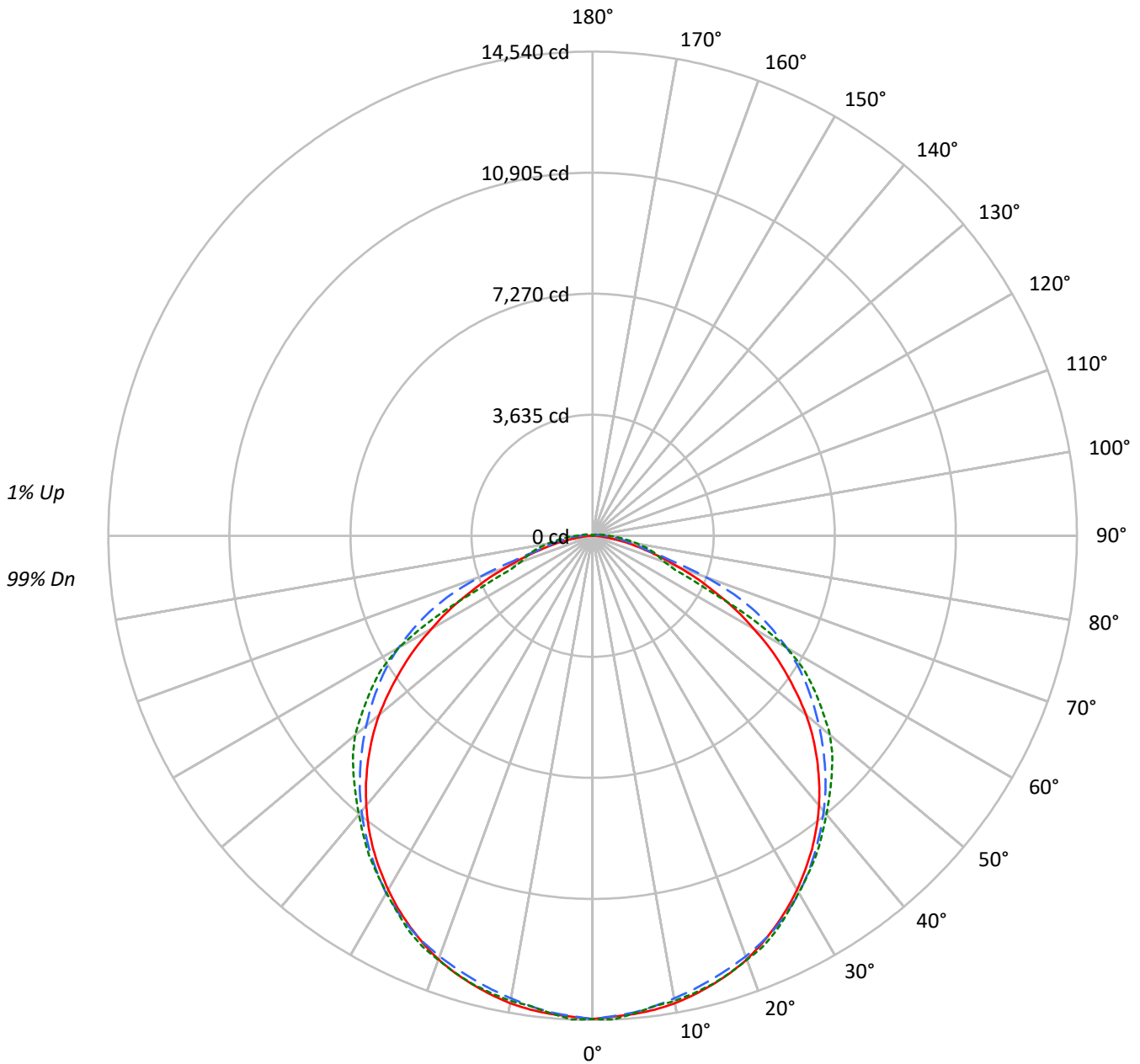
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41014.0 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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									
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	24784	24784	24784
5°	24622	24413	24460
10°	24532	24032	24173
15°	24376	23745	23995
20°	24220	23560	23767
25°	23929	23373	23540
30°	23611	23085	23077
35°	23231	22634	22814
40°	22737	22169	22460
45°	22052	21631	22289
50°	21124	21019	22087
55°	19649	20415	21234
60°	17719	19537	19598
65°	15200	17926	12393
70°	12243	13965	8959
75°	9179	8266	9054
80°	6389	6840	8585
85°	3637	6211	7942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1368.2	3.3
10°-20°	3923.4	9.6
20°-30°	5992.3	14.6
30°-40°	7270.8	17.7
40°-50°	7620.4	18.6
50°-60°	6905.3	16.8
60°-70°	4629.7	11.3
70°-80°	2078.9	5.1
80°-90°	754.4	1.8
90°-100°	227.1	0.6
100°-110°	107.1	0.3
110°-120°	53.7	0.1
120°-130°	29.6	0.1
130°-140°	20.4	0.0
140°-150°	13.7	0.0
150°-160°	10.2	0.0
160°-170°	6.5	0.0
170°-180°	2.1	0.0
0°-30°	11284.0	27.5
0°-40°	18554.8	45.2
0°-60°	33080.5	80.7
0°-90°	40543.6	98.9
90°-120°	387.9	0.9
90°-150°	451.7	1.1
90°-180°	470.0	1.1
0°-180°	41014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14511	14511	14511	14511	14511	
5°	14416	14467	14366	14410	14391	###
15°	13948	13894	13795	13917	13934	3938
25°	12958	12902	12992	13111	13074	5973
35°	11485	11512	11630	11754	11708	7179
45°	9532	9687	9868	10119	10151	7343
55°	7014	7352	7853	8168	8149	6261
65°	4117	4761	5405	4561	3724	4102
75°	1620	2350	1729	1769	1884	1770
85°	279	535	686	829	869	341
90°	2	178	355	445	466	17
95°	2	111	243	296	304	3
105°	8	48	120	145	151	10
115°	17	25	61	78	82	16
125°	15	17	38	44	46	15
135°	19	21	23	34	36	15
145°	19	21	21	23	25	13
155°	21	23	23	23	21	10
165°	23	23	23	23	23	6
175°	23	23	21	19	19	2
180°	21	21	21	21	21	



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CATALOG NUMBER: OHBL-48SE-A-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14510.8	14510.8	14510.8	14510.8	14510.8
2.5°	14452.0	14512.9	14437.4	14519.2	14540.2
5°	14416.4	14466.7	14366.0	14410.1	14391.2
7.5°	14351.3	14368.1	14248.5	14284.2	14246.4
10°	14254.8	14246.4	14105.8	14175.1	14183.5
12.5°	14112.1	14087.0	13961.1	14066.0	14068.1
15°	13948.5	13893.9	13795.3	13917.0	13933.8
17.5°	13759.7	13688.3	13623.3	13780.6	13755.5
20°	13539.3	13455.4	13442.8	13614.9	13551.9
22.5°	13266.6	13201.5	13230.9	13394.6	13354.7
25°	12958.2	12901.5	12991.7	13111.3	13073.6
27.5°	12632.9	12599.4	12702.2	12794.5	12721.1
30°	12276.3	12257.4	12393.8	12469.3	12377.0
32.5°	11888.1	11894.4	12024.5	12127.3	12041.3
35°	11485.3	11512.5	11630.0	11753.8	11707.7
37.5°	11042.6	11103.4	11220.9	11361.5	11313.2
40°	10574.7	10662.8	10792.9	10962.8	10918.8
42.5°	10069.0	10180.2	10348.1	10536.9	10532.7
45°	9531.9	9687.1	9867.6	10119.4	10150.8
47.5°	8973.8	9147.9	9376.6	9712.3	9760.6
50°	8367.4	8585.6	8871.0	9273.8	9303.2
52.5°	7691.8	7989.7	8367.4	8753.5	8717.8
55°	7014.1	7351.9	7853.4	8168.1	8149.2
57.5°	6338.5	6718.3	7326.7	7551.2	7549.1
60°	5583.2	6063.6	6728.8	6898.7	6730.9
62.5°	4884.5	5400.6	6090.9	5967.1	5392.2
65°	4116.6	4760.7	5404.8	4561.4	3724.2
67.5°	3434.7	4106.1	4590.7	3124.1	2675.1
70°	2748.6	3489.2	3579.4	2318.5	2287.0
72.5°	2140.1	2929.0	2469.5	1984.8	2085.6
75°	1619.8	2349.9	1728.9	1768.7	1884.1
77.5°	1181.3	1804.4	1344.9	1550.5	1644.9
80°	812.0	1277.8	1097.3	1302.9	1368.0
82.5°	509.8	843.5	879.1	1049.1	1116.2
85°	279.1	535.0	686.1	828.8	868.6
87.5°	115.4	323.1	524.5	639.9	673.5
90°	2.1	178.3	354.6	444.8	465.8
92.5°	2.1	136.4	289.5	358.8	373.5
95°	2.1	111.2	243.4	295.8	304.2
97.5°	4.2	88.1	203.5	245.5	253.9
100°	6.3	73.4	169.9	205.6	211.9
102.5°	8.4	58.7	142.7	172.0	178.3
105°	8.4	48.3	119.6	144.8	151.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.7	29.4	71.3	90.2	94.4
115°	16.8	25.2	60.8	77.6	81.8
117.5°	16.8	21.0	52.5	65.0	69.2
120°	16.8	18.9	46.2	56.6	58.7
122.5°	16.8	16.8	39.9	50.4	52.5
125°	14.7	16.8	37.8	44.1	46.2
127.5°	16.8	16.8	33.6	39.9	42.0
130°	16.8	18.9	29.4	37.8	37.8
132.5°	18.9	21.0	27.3	35.7	35.7
135°	18.9	21.0	23.1	33.6	35.7
137.5°	21.0	21.0	21.0	31.5	33.6
140°	21.0	21.0	18.9	27.3	29.4
142.5°	18.9	21.0	18.9	25.2	27.3
145°	18.9	21.0	21.0	23.1	25.2
147.5°	21.0	21.0	21.0	21.0	23.1
150°	21.0	21.0	21.0	21.0	21.0
152.5°	21.0	21.0	21.0	21.0	21.0
155°	21.0	23.1	23.1	23.1	21.0
157.5°	21.0	23.1	23.1	23.1	23.1
160°	21.0	23.1	23.1	23.1	23.1
162.5°	23.1	23.1	23.1	23.1	23.1
165°	23.1	23.1	23.1	23.1	23.1
167.5°	23.1	25.2	23.1	23.1	23.1
170°	23.1	23.1	23.1	21.0	21.0
172.5°	23.1	23.1	23.1	21.0	21.0
175°	23.1	23.1	21.0	18.9	18.9
177.5°	25.2	23.1	21.0	18.9	16.8
180°	21.0	21.0	21.0	21.0	21.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	10.5	39.9	102.8	123.8	128.0
110°	12.6	33.6	86.0	104.9	109.1



(END OF REPORT)