

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: P830535

Luminaire Tested: **OHBL-48SE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830535  
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-MCL-UNV-L730-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

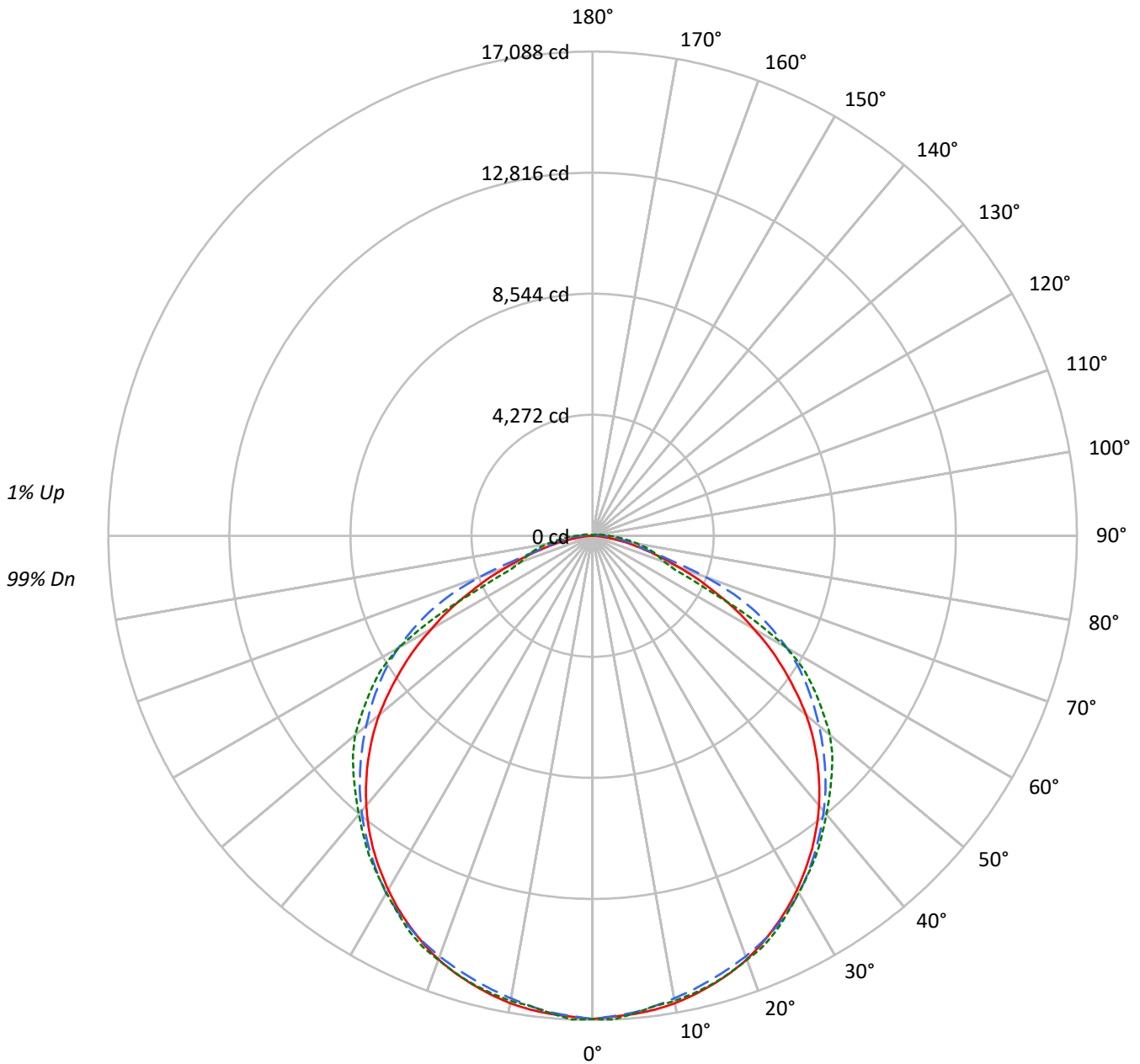
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48200.0 lumens  
Efficiency: N/A  
Efficacy: 166.9 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°	29127	29127	29127
5°	28936	28691	28746
10°	28830	28243	28408
15°	28647	27906	28199
20°	28464	27688	27931
25°	28121	27468	27664
30°	27747	27130	27121
35°	27301	26600	26811
40°	26720	26053	26395
45°	25915	25421	26195
50°	24825	24702	25957
55°	23092	23992	24954
60°	20824	22960	23031
65°	17863	21067	14564
70°	14388	16412	10529
75°	10787	9714	10641
80°	7508	8039	10090
85°	4273	7299	9334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1608.0	3.3
10°-20°	4610.9	9.6
20°-30°	7042.2	14.6
30°-40°	8544.7	17.7
40°-50°	8955.6	18.6
50°-60°	8115.1	16.8
60°-70°	5440.9	11.3
70°-80°	2443.2	5.1
80°-90°	886.6	1.8
90°-100°	266.9	0.6
100°-110°	125.9	0.3
110°-120°	63.1	0.1
120°-130°	34.8	0.1
130°-140°	24.0	0.0
140°-150°	16.1	0.0
150°-160°	12.0	0.0
160°-170°	7.7	0.0
170°-180°	2.4	0.0
0°-30°	13261.1	27.5
0°-40°	21805.7	45.2
0°-60°	38876.5	80.7
0°-90°	47647.2	98.9
90°-120°	455.9	0.9
90°-150°	530.8	1.1
90°-180°	553.0	1.1
0°-180°	48200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17053	17053	17053	17053	17053	
5°	16942	17001	16883	16935	16913	###
15°	16392	16328	16212	16355	16375	4628
25°	15228	15162	15268	15408	15364	7019
35°	13498	13530	13668	13813	13759	8436
45°	11202	11384	11596	11892	11929	8629
55°	8243	8640	9229	9599	9577	7358
65°	4838	5595	6352	5361	4377	4820
75°	1904	2762	2032	2079	2214	2080
85°	328	629	806	974	1021	400
90°	2	210	417	523	547	20
95°	2	131	286	348	358	3
105°	10	57	140	170	178	11
115°	20	30	72	91	96	18
125°	17	20	44	52	54	17
135°	22	25	27	40	42	18
145°	22	25	25	27	30	15
155°	25	27	27	27	25	11
165°	27	27	27	27	27	8
175°	27	27	25	22	22	3
180°	25	25	25	25	25	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17053.2	17053.2	17053.2	17053.2	17053.2
2.5°	16984.2	17055.7	16966.9	17063.1	17087.7
5°	16942.2	17001.4	16883.1	16934.8	16912.7
7.5°	16865.8	16885.5	16745.0	16786.9	16742.5
10°	16752.4	16742.5	16577.3	16658.7	16668.5
12.5°	16584.7	16555.1	16407.2	16530.5	16532.9
15°	16392.4	16328.3	16212.4	16355.4	16375.1
17.5°	16170.5	16086.6	16010.2	16195.1	16165.5
20°	15911.6	15812.9	15798.1	16000.3	15926.3
22.5°	15591.0	15514.6	15549.1	15741.4	15694.6
25°	15228.5	15162.0	15268.0	15408.5	15364.2
27.5°	14846.3	14806.9	14927.7	15036.2	14949.9
30°	14427.2	14405.0	14565.2	14654.0	14545.5
32.5°	13971.0	13978.4	14131.3	14252.1	14151.0
35°	13497.6	13529.6	13667.7	13813.2	13758.9
37.5°	12977.3	13048.8	13186.9	13352.1	13295.4
40°	12427.4	12531.0	12683.9	12883.6	12831.8
42.5°	11833.2	11963.9	12161.1	12383.1	12378.1
45°	11202.0	11384.4	11596.5	11892.4	11929.4
47.5°	10546.1	10750.7	11019.5	11414.0	11470.7
50°	9833.5	10089.9	10425.2	10898.7	10933.2
52.5°	9039.5	9389.6	9833.5	10287.2	10245.2
55°	8243.0	8640.0	9229.3	9599.2	9577.0
57.5°	7449.1	7895.4	8610.4	8874.3	8871.8
60°	6561.4	7126.0	7907.7	8107.4	7910.2
62.5°	5740.3	6346.9	7158.1	7012.6	6337.0
65°	4837.8	5594.8	6351.8	5360.6	4376.7
67.5°	4036.5	4825.5	5395.1	3671.5	3143.8
70°	3230.1	4100.6	4206.6	2724.7	2687.7
72.5°	2515.1	3442.2	2902.2	2332.6	2451.0
75°	1903.6	2761.7	2031.8	2078.6	2214.3
77.5°	1388.2	2120.6	1580.6	1822.2	1933.2
80°	954.2	1501.6	1289.6	1531.2	1607.7
82.5°	599.2	991.2	1033.2	1232.9	1311.8
85°	327.9	628.8	806.3	974.0	1020.8
87.5°	135.6	379.7	616.4	752.1	791.5
90°	2.5	209.6	416.7	522.7	547.4
92.5°	2.5	160.3	340.3	421.6	438.9
95°	2.5	130.7	286.0	347.7	357.5
97.5°	4.9	103.6	239.2	288.5	298.4
100°	7.4	86.3	199.7	241.6	249.0
102.5°	9.9	69.0	167.7	202.2	209.6
105°	9.9	56.7	140.5	170.1	177.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.3	34.5	83.8	106.0	111.0
115°	19.7	29.6	71.5	91.2	96.2
117.5°	19.7	24.7	61.6	76.4	81.4
120°	19.7	22.2	54.2	66.6	69.0
122.5°	19.7	19.7	46.8	59.2	61.6
125°	17.3	19.7	44.4	51.8	54.2
127.5°	19.7	19.7	39.5	46.8	49.3
130°	19.7	22.2	34.5	44.4	44.4
132.5°	22.2	24.7	32.1	41.9	41.9
135°	22.2	24.7	27.1	39.5	41.9
137.5°	24.7	24.7	24.7	37.0	39.5
140°	24.7	24.7	22.2	32.1	34.5
142.5°	22.2	24.7	22.2	29.6	32.1
145°	22.2	24.7	24.7	27.1	29.6
147.5°	24.7	24.7	24.7	24.7	27.1
150°	24.7	24.7	24.7	24.7	24.7
152.5°	24.7	24.7	24.7	24.7	24.7
155°	24.7	27.1	27.1	27.1	24.7
157.5°	24.7	27.1	27.1	27.1	27.1
160°	24.7	27.1	27.1	27.1	27.1
162.5°	27.1	27.1	27.1	27.1	27.1
165°	27.1	27.1	27.1	27.1	27.1
167.5°	27.1	29.6	27.1	27.1	27.1
170°	27.1	27.1	27.1	24.7	24.7
172.5°	27.1	27.1	27.1	24.7	24.7
175°	27.1	27.1	24.7	22.2	22.2
177.5°	29.6	27.1	24.7	22.2	19.7
180°	24.7	24.7	24.7	24.7	24.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.3	46.8	120.8	145.5	150.4
110°	14.8	39.5	101.1	123.3	128.2



(END OF REPORT)