

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: P830559

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830559  
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-L730-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

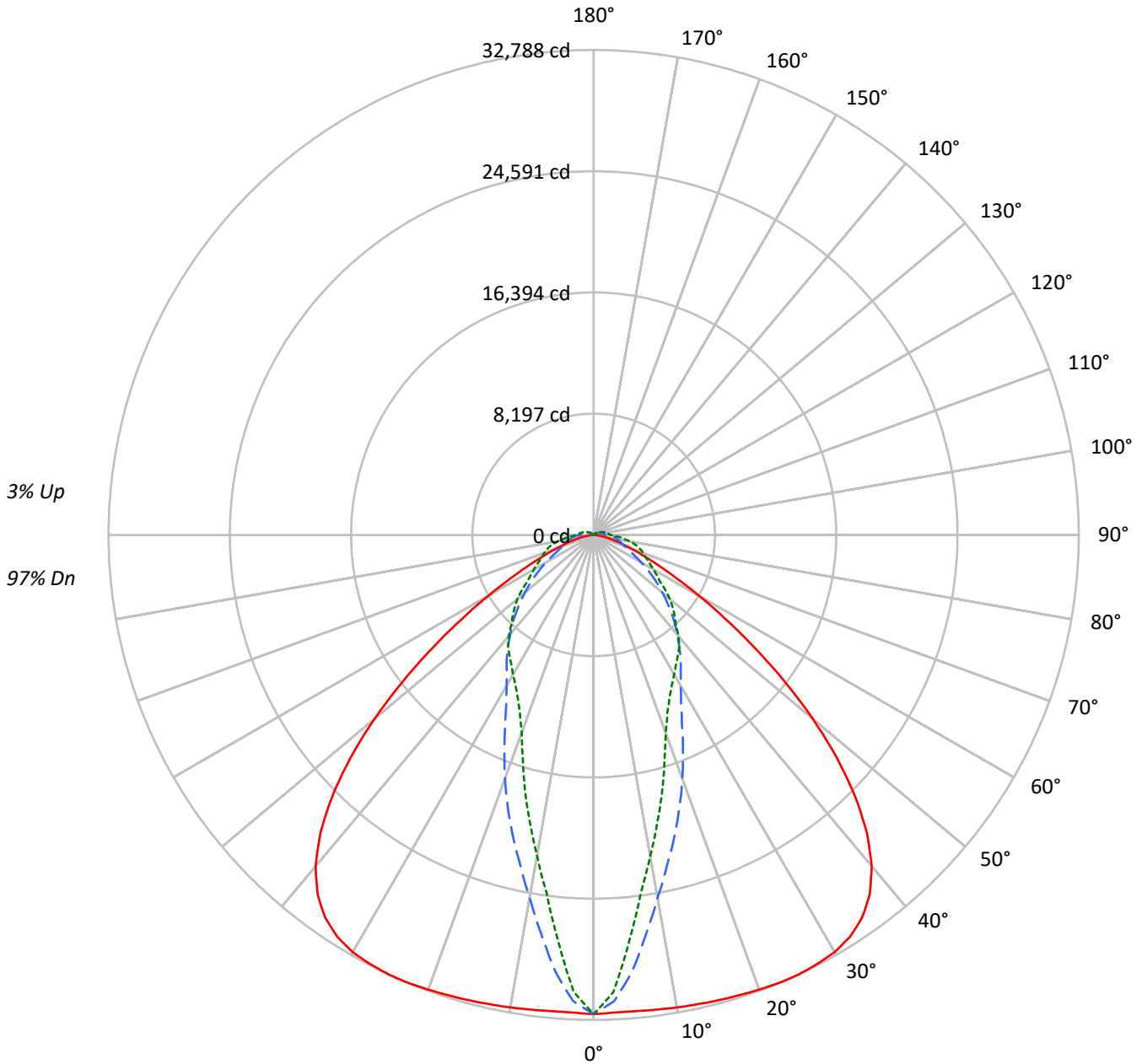
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47805.0 lumens  
Efficiency: N/A  
Efficacy: 165.5 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									
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°	55322	55322	55322
5°	55210	50381	46842
10°	55833	42437	37560
15°	56923	36294	30828
20°	58522	30688	24934
25°	60546	25401	21848
30°	62639	21883	20296
35°	63943	19943	19337
40°	62848	18014	18345
45°	57818	16279	16984
50°	48781	14382	15941
55°	37066	12597	14185
60°	25975	10804	13580
65°	17472	9304	13295
70°	11933	8732	13948
75°	8280	9005	14903
80°	5700	9973	15342
85°	3335	12475	16095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2726.6	5.7
10°-20°	6414.2	13.4
20°-30°	8040.1	16.8
30°-40°	8531.4	17.8
40°-50°	7713.8	16.1
50°-60°	5593.0	11.7
60°-70°	3509.9	7.3
70°-80°	2322.7	4.9
80°-90°	1338.1	2.8
90°-100°	648.3	1.4
100°-110°	447.5	0.9
110°-120°	276.1	0.6
120°-130°	133.7	0.3
130°-140°	61.5	0.1
140°-150°	33.6	0.1
150°-160°	14.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	17180.8	35.9
0°-40°	25712.3	53.8
0°-60°	39019.0	81.6
0°-90°	46189.7	96.6
90°-120°	1371.9	2.9
90°-150°	1600.7	3.3
90°-180°	1615.0	3.4
0°-180°	47805.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32390	32390	32390	32390	32390	
5°	32326	31496	29647	28272	27560	###
15°	32572	26549	21086	18752	17902	9237
25°	32788	20528	14119	12531	12134	15148
35°	31614	13647	10247	9926	9923	19653
45°	24992	8644	7426	7605	7735	19039
55°	13231	5358	4846	5256	5444	11955
65°	4732	3107	2805	3594	3995	4924
75°	1461	1674	1884	2926	3101	1629
85°	256	694	1378	1918	1760	307
90°	0	290	798	1125	1134	16
95°	12	204	703	956	999	11
105°	25	136	512	678	697	25
115°	34	96	345	432	441	33
125°	37	49	176	222	219	32
135°	31	37	77	120	120	24
145°	37	40	46	71	68	22
155°	37	46	49	52	46	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830559

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32390.4	32390.4	32390.4	32390.4	32390.4
2.5°	32322.6	32137.7	31561.2	31209.7	30913.8
5°	32325.7	31496.4	29646.8	28271.9	27559.8
7.5°	32371.9	30528.5	27196.0	25189.1	24406.1
10°	32442.8	29329.3	24908.6	22769.2	22038.6
12.5°	32495.3	27979.0	22895.6	20697.6	19896.1
15°	32572.3	26548.6	21086.0	18752.4	17901.5
17.5°	32643.2	25201.5	19298.0	16859.6	15913.1
20°	32714.1	23749.5	17510.0	14997.6	14217.6
22.5°	32781.9	22217.4	15765.2	13551.8	13018.4
25°	32788.1	20528.0	14119.0	12531.4	12133.7
27.5°	32708.0	18777.0	12784.2	11677.5	11430.8
30°	32569.2	17078.4	11748.4	11060.9	10885.2
32.5°	32224.0	15345.9	10946.8	10465.9	10364.2
35°	31613.6	13647.3	10247.1	9926.4	9923.4
37.5°	30651.8	12139.9	9488.7	9433.2	9501.0
40°	29230.6	10820.4	8770.4	8918.4	8918.4
42.5°	27334.7	9673.7	8120.0	8271.0	8230.9
45°	24991.8	8644.0	7426.3	7605.1	7734.6
47.5°	22275.9	7737.7	6717.3	7062.6	7241.4
50°	19322.7	6874.5	6069.9	6510.8	6714.2
52.5°	16227.6	6076.1	5438.0	5943.5	6106.9
55°	13231.2	5357.8	4846.1	5256.1	5444.1
57.5°	10518.3	4673.4	4266.5	4655.0	5043.4
60°	8184.7	4084.6	3720.9	4275.8	4664.2
62.5°	6251.8	3560.6	3209.1	3921.3	4309.7
65°	4732.0	3107.4	2805.3	3594.5	3995.2
67.5°	3566.7	2715.9	2490.9	3357.1	3748.6
70°	2678.9	2336.7	2238.1	3209.1	3560.6
72.5°	1979.1	1988.4	2037.7	3079.7	3347.9
75°	1461.2	1673.9	1883.6	2925.5	3101.2
77.5°	1045.1	1387.2	1744.8	2740.6	2802.2
80°	724.4	1131.4	1599.9	2497.0	2444.6
82.5°	453.2	906.3	1470.5	2228.8	2083.9
85°	255.9	693.6	1378.0	1917.5	1760.2
87.5°	114.1	517.9	1205.4	1495.1	1396.5
90°	0.0	289.8	798.4	1125.2	1134.5
92.5°	6.2	240.5	736.8	1029.6	1060.5
95°	12.3	203.5	702.9	955.7	998.8
97.5°	15.4	178.8	659.7	887.8	924.8
100°	18.5	160.3	607.3	816.9	847.8
102.5°	21.6	148.0	558.0	742.9	767.6
105°	24.7	135.6	511.7	678.2	696.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.8	104.8	385.3	487.1	502.5
115°	33.9	95.6	345.3	431.6	440.8
117.5°	37.0	83.2	302.1	379.2	382.3
120°	37.0	74.0	259.0	323.7	323.7
122.5°	37.0	61.7	215.8	268.2	265.1
125°	37.0	49.3	175.7	222.0	218.9
127.5°	33.9	40.1	141.8	185.0	181.9
130°	33.9	40.1	114.1	157.2	157.2
132.5°	30.8	37.0	92.5	135.6	135.6
135°	30.8	37.0	77.1	120.2	120.2
137.5°	30.8	40.1	64.7	104.8	104.8
140°	30.8	37.0	55.5	92.5	92.5
142.5°	33.9	37.0	49.3	80.2	80.2
145°	37.0	40.1	46.2	70.9	67.8
147.5°	37.0	43.2	46.2	61.7	58.6
150°	37.0	46.2	46.2	55.5	52.4
152.5°	37.0	46.2	46.2	52.4	49.3
155°	37.0	46.2	49.3	52.4	46.2
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°	24.7	126.4	468.6	607.3	628.9
110°	27.7	114.1	428.5	542.6	564.1



(END OF REPORT)