

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: P830545

Luminaire Tested: **OHBL-48SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830545  
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-L940-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

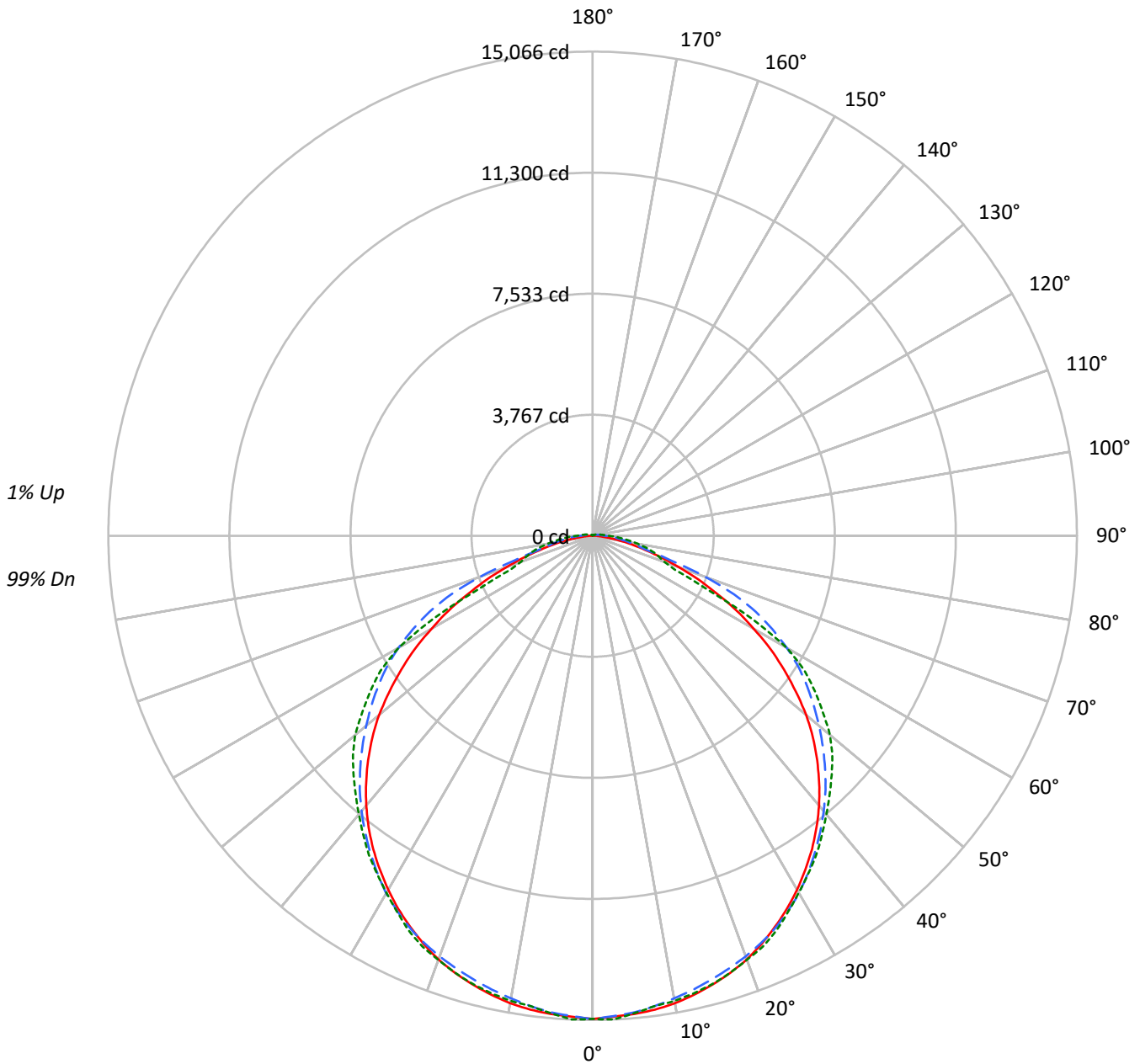
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42497.0 lumens  
Efficiency: N/A  
Efficacy: 147.2 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

TEST NUMBER: P830545

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L940-CD

### 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°	25680	25680	25680
5°	25512	25296	25344
10°	25419	24901	25047
15°	25258	24604	24863
20°	25096	24412	24626
25°	24794	24218	24391
30°	24464	23920	23912
35°	24070	23453	23638
40°	23558	22970	23272
45°	22849	22413	23096
50°	21888	21779	22886
55°	20360	21153	22001
60°	18360	20244	20306
65°	15749	18574	12841
70°	12686	14470	9283
75°	9511	8565	9382
80°	6620	7088	8896
85°	3767	6436	8229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1417.7	3.3
10°-20°	4065.3	9.6
20°-30°	6209.0	14.6
30°-40°	7533.7	17.7
40°-50°	7896.0	18.6
50°-60°	7155.0	16.8
60°-70°	4797.1	11.3
70°-80°	2154.1	5.1
80°-90°	781.7	1.8
90°-100°	235.3	0.6
100°-110°	111.0	0.3
110°-120°	55.6	0.1
120°-130°	30.7	0.1
130°-140°	21.1	0.0
140°-150°	14.2	0.0
150°-160°	10.5	0.0
160°-170°	6.8	0.0
170°-180°	2.2	0.0
0°-30°	11692.0	27.5
0°-40°	19225.7	45.2
0°-60°	34276.6	80.7
0°-90°	42009.6	98.9
90°-120°	402.0	0.9
90°-150°	467.9	1.1
90°-180°	487.0	1.1
0°-180°	42497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15036	15036	15036	15036	15036	
5°	14938	14990	14886	14931	14912	###
15°	14453	14396	14294	14420	14438	4081
25°	13427	13368	13462	13585	13546	6189
35°	11900	11929	12051	12179	12131	7438
45°	9876	10037	10224	10485	10518	7608
55°	7268	7618	8137	8463	8444	6487
65°	4265	4933	5600	4726	3859	4250
75°	1678	2435	1791	1833	1952	1834
85°	289	554	711	859	900	353
90°	2	185	367	461	483	17
95°	2	115	252	306	315	3
105°	9	50	124	150	156	10
115°	17	26	63	80	85	16
125°	15	17	39	46	48	15
135°	20	22	24	35	37	16
145°	20	22	22	24	26	13
155°	22	24	24	24	22	10
165°	24	24	24	24	24	7
175°	24	24	22	20	20	2
180°	22	22	22	22	22	



TEST NUMBER: P830545

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15035.5	15035.5	15035.5	15035.5	15035.5
2.5°	14974.6	15037.6	14959.4	15044.2	15065.9
5°	14937.6	14989.8	14885.5	14931.1	14911.6
7.5°	14870.2	14887.6	14763.7	14800.7	14761.5
10°	14770.2	14761.5	14615.9	14687.6	14696.3
12.5°	14622.4	14596.3	14465.9	14574.6	14576.8
15°	14452.8	14396.3	14294.1	14420.2	14437.6
17.5°	14257.2	14183.3	14115.9	14278.9	14252.8
20°	14028.9	13941.9	13928.9	14107.2	14042.0
22.5°	13746.3	13678.9	13709.3	13878.9	13837.6
25°	13426.7	13368.0	13461.5	13585.4	13546.3
27.5°	13089.7	13054.9	13161.5	13257.1	13181.0
30°	12720.2	12700.6	12841.9	12920.2	12824.5
32.5°	12318.0	12324.5	12459.3	12565.8	12476.7
35°	11900.5	11928.8	12050.6	12178.8	12131.0
37.5°	11441.8	11504.9	11626.6	11772.3	11722.3
40°	10957.0	11048.3	11183.1	11359.2	11313.6
42.5°	10433.1	10548.3	10722.2	10917.9	10913.5
45°	9876.5	10037.4	10224.4	10485.3	10517.9
47.5°	9298.3	9478.7	9715.7	10063.5	10113.5
50°	8670.0	8896.1	9191.7	9609.1	9639.6
52.5°	7969.9	8278.6	8670.0	9070.0	9033.0
55°	7267.7	7617.7	8137.3	8463.4	8443.9
57.5°	6567.7	6961.2	7591.7	7824.3	7822.1
60°	5785.0	6282.9	6972.1	7148.2	6974.2
62.5°	5061.1	5595.9	6311.2	6182.9	5587.2
65°	4265.4	4932.8	5600.3	4726.3	3858.9
67.5°	3558.9	4254.5	4756.7	3237.1	2771.9
70°	2848.0	3615.4	3708.9	2402.3	2369.7
72.5°	2217.5	3034.9	2558.8	2056.6	2161.0
75°	1678.3	2434.9	1791.4	1832.7	1952.3
77.5°	1224.0	1869.7	1393.5	1606.6	1704.4
80°	841.3	1324.0	1137.0	1350.1	1417.5
82.5°	528.3	874.0	910.9	1087.0	1156.6
85°	289.1	554.4	710.9	858.7	900.0
87.5°	119.6	334.8	543.5	663.1	697.9
90°	2.2	184.8	367.4	460.9	482.6
92.5°	2.2	141.3	300.0	371.8	387.0
95°	2.2	115.2	252.2	306.5	315.2
97.5°	4.3	91.3	210.9	254.4	263.1
100°	6.5	76.1	176.1	213.1	219.6
102.5°	8.7	60.9	147.8	178.3	184.8
105°	8.7	50.0	123.9	150.0	156.5



TEST NUMBER: P830545

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	30.4	73.9	93.5	97.8
115°	17.4	26.1	63.0	80.4	84.8
117.5°	17.4	21.7	54.4	67.4	71.7
120°	17.4	19.6	47.8	58.7	60.9
122.5°	17.4	17.4	41.3	52.2	54.4
125°	15.2	17.4	39.1	45.7	47.8
127.5°	17.4	17.4	34.8	41.3	43.5
130°	17.4	19.6	30.4	39.1	39.1
132.5°	19.6	21.7	28.3	37.0	37.0
135°	19.6	21.7	23.9	34.8	37.0
137.5°	21.7	21.7	21.7	32.6	34.8
140°	21.7	21.7	19.6	28.3	30.4
142.5°	19.6	21.7	19.6	26.1	28.3
145°	19.6	21.7	21.7	23.9	26.1
147.5°	21.7	21.7	21.7	21.7	23.9
150°	21.7	21.7	21.7	21.7	21.7
152.5°	21.7	21.7	21.7	21.7	21.7
155°	21.7	23.9	23.9	23.9	21.7
157.5°	21.7	23.9	23.9	23.9	23.9
160°	21.7	23.9	23.9	23.9	23.9
162.5°	23.9	23.9	23.9	23.9	23.9
165°	23.9	23.9	23.9	23.9	23.9
167.5°	23.9	26.1	23.9	23.9	23.9
170°	23.9	23.9	23.9	21.7	21.7
172.5°	23.9	23.9	23.9	21.7	21.7
175°	23.9	23.9	21.7	19.6	19.6
177.5°	26.1	23.9	21.7	19.6	17.4
180°	21.7	21.7	21.7	21.7	21.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	10.9	41.3	106.5	128.3	132.6
110°	13.0	34.8	89.1	108.7	113.0



(END OF REPORT)