

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: P830473

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

Issue Date: 5/3/2024



**Test Information**

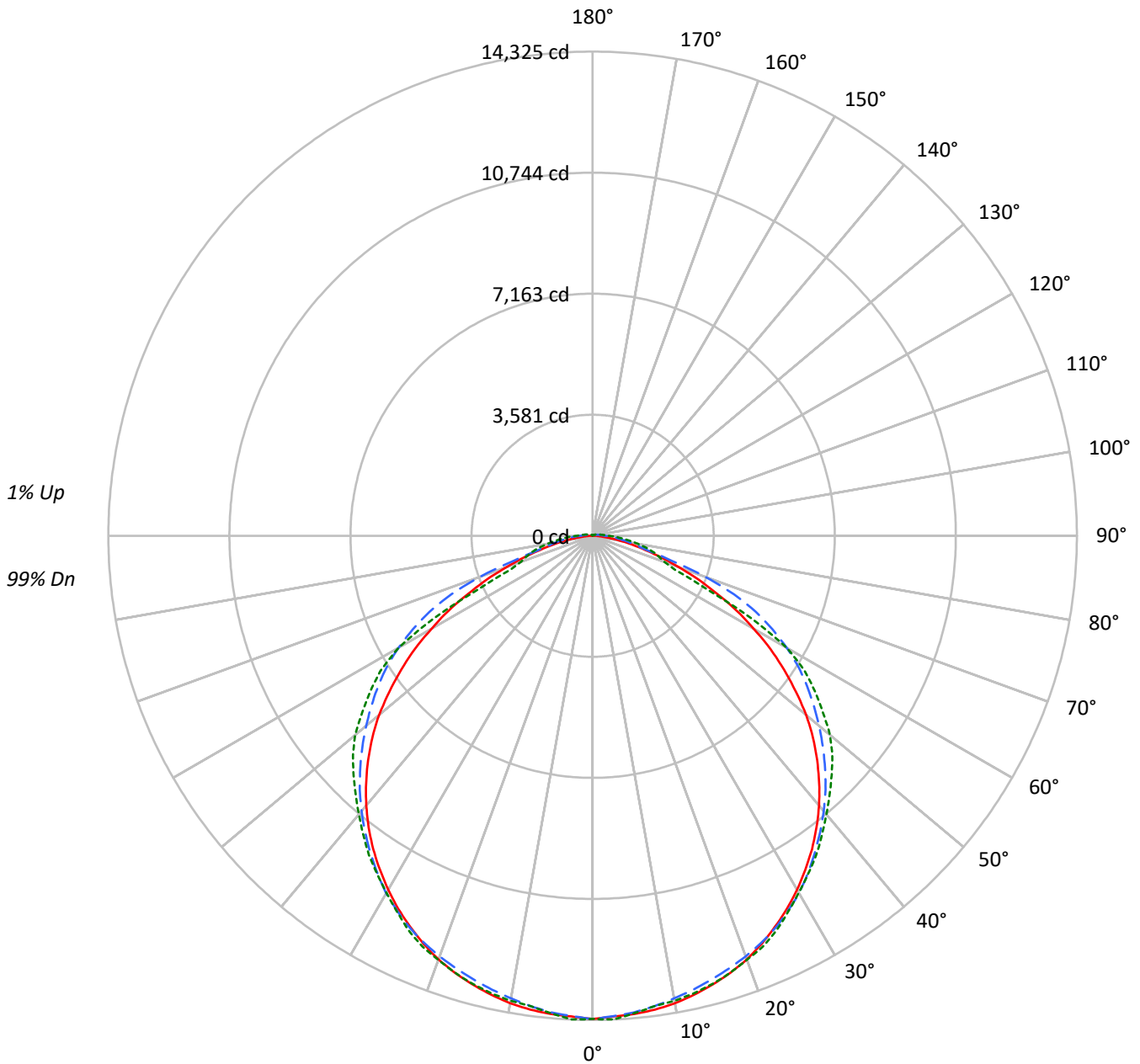
Test Method: LM-79-08  
Report Number: P830473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MCL-UNV-L940-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40406.0 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 266  
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°	22608	22608	22608
5°	22460	22280	22327
10°	22378	21942	22079
15°	22236	21690	21931
20°	22094	21531	21737
25°	21828	21371	21544
30°	21538	21119	21137
35°	21191	20718	20912
40°	20740	20304	20606
45°	20116	19826	20471
50°	19269	19281	20308
55°	17924	18745	19550
60°	16163	17960	18075
65°	13865	16504	11455
70°	11168	12884	8305
75°	8373	7648	8429
80°	5828	6360	8047
85°	3317	5827	7544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1348.0	3.3
10°-20°	3865.3	9.6
20°-30°	5903.5	14.6
30°-40°	7163.0	17.7
40°-50°	7507.5	18.6
50°-60°	6802.9	16.8
60°-70°	4561.1	11.3
70°-80°	2048.1	5.1
80°-90°	743.2	1.8
90°-100°	223.7	0.6
100°-110°	105.6	0.3
110°-120°	52.9	0.1
120°-130°	29.2	0.1
130°-140°	20.1	0.0
140°-150°	13.5	0.0
150°-160°	10.0	0.0
160°-170°	6.4	0.0
170°-180°	2.0	0.0
0°-30°	11116.7	27.5
0°-40°	18279.7	45.2
0°-60°	32590.1	80.7
0°-90°	39942.5	98.9
90°-120°	382.2	0.9
90°-150°	444.9	1.1
90°-180°	463.0	1.1
0°-180°	40406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14296	14296	14296	14296	14296	
5°	14203	14252	14153	14196	14178	###
15°	13742	13688	13591	13711	13727	3880
25°	12766	12710	12799	12917	12880	5884
35°	11315	11342	11458	11580	11534	7072
45°	9391	9544	9721	9969	10000	7234
55°	6910	7243	7737	8047	8028	6168
65°	4056	4690	5325	4494	3669	4041
75°	1596	2315	1703	1742	1856	1744
85°	275	527	676	816	856	335
90°	2	176	349	438	459	16
95°	2	110	240	292	300	3
105°	8	48	118	143	149	10
115°	16	25	60	76	81	15
125°	14	16	37	43	46	14
135°	19	21	23	33	35	15
145°	19	21	21	23	25	12
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14295.7	14295.7	14295.7	14295.7	14295.7
2.5°	14237.8	14297.7	14223.3	14303.9	14324.6
5°	14202.7	14252.3	14153.1	14196.5	14177.9
7.5°	14138.6	14155.1	14037.3	14072.4	14035.2
10°	14043.5	14035.2	13896.7	13964.9	13973.2
12.5°	13902.9	13878.1	13754.1	13857.5	13859.5
15°	13741.7	13688.0	13590.8	13710.7	13727.2
17.5°	13555.7	13485.4	13421.3	13576.3	13551.5
20°	13338.6	13256.0	13243.6	13413.0	13351.0
22.5°	13069.9	13005.8	13034.8	13196.0	13156.7
25°	12766.1	12710.3	12799.1	12917.0	12879.8
27.5°	12445.7	12412.6	12513.9	12604.8	12532.5
30°	12094.3	12075.7	12210.0	12284.4	12193.5
32.5°	11711.9	11718.1	11846.2	11947.5	11862.8
35°	11315.0	11341.9	11457.6	11579.6	11534.1
37.5°	10878.9	10938.8	11054.6	11193.0	11145.5
40°	10417.9	10504.7	10632.9	10800.3	10756.9
42.5°	9919.7	10029.3	10194.7	10380.7	10376.6
45°	9390.6	9543.5	9721.3	9969.4	10000.4
47.5°	8840.7	9012.3	9237.6	9568.3	9615.9
50°	8243.4	8458.3	8739.5	9136.3	9165.3
52.5°	7577.8	7871.3	8243.4	8623.7	8588.6
55°	6910.1	7242.9	7736.9	8047.0	8028.4
57.5°	6244.5	6618.7	7218.1	7439.3	7437.2
60°	5500.4	5973.8	6629.0	6796.4	6631.1
62.5°	4812.1	5320.6	6000.6	5878.7	5312.3
65°	4055.5	4690.1	5324.7	4493.8	3669.0
67.5°	3383.8	4045.2	4522.7	3077.8	2635.5
70°	2707.8	3437.5	3526.4	2284.1	2253.1
72.5°	2108.4	2885.6	2432.9	1955.4	2054.6
75°	1595.8	2315.1	1703.2	1742.5	1856.2
77.5°	1163.7	1777.7	1325.0	1527.5	1620.6
80°	799.9	1258.8	1081.1	1283.6	1347.7
82.5°	502.3	831.0	866.1	1033.5	1099.7
85°	274.9	527.1	675.9	816.5	855.8
87.5°	113.7	318.3	516.8	630.4	663.5
90°	2.1	175.7	349.3	438.2	458.9
92.5°	2.1	134.4	285.3	353.5	367.9
95°	2.1	109.6	239.8	291.5	299.7
97.5°	4.1	86.8	200.5	241.8	250.1
100°	6.2	72.3	167.4	202.6	208.8
102.5°	8.3	57.9	140.6	169.5	175.7
105°	8.3	47.5	117.8	142.6	148.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.5	28.9	70.3	88.9	93.0
115°	16.5	24.8	59.9	76.5	80.6
117.5°	16.5	20.7	51.7	64.1	68.2
120°	16.5	18.6	45.5	55.8	57.9
122.5°	16.5	16.5	39.3	49.6	51.7
125°	14.5	16.5	37.2	43.4	45.5
127.5°	16.5	16.5	33.1	39.3	41.3
130°	16.5	18.6	28.9	37.2	37.2
132.5°	18.6	20.7	26.9	35.1	35.1
135°	18.6	20.7	22.7	33.1	35.1
137.5°	20.7	20.7	20.7	31.0	33.1
140°	20.7	20.7	18.6	26.9	28.9
142.5°	18.6	20.7	18.6	24.8	26.9
145°	18.6	20.7	20.7	22.7	24.8
147.5°	20.7	20.7	20.7	20.7	22.7
150°	20.7	20.7	20.7	20.7	20.7
152.5°	20.7	20.7	20.7	20.7	20.7
155°	20.7	22.7	22.7	22.7	20.7
157.5°	20.7	22.7	22.7	22.7	22.7
160°	20.7	22.7	22.7	22.7	22.7
162.5°	22.7	22.7	22.7	22.7	22.7
165°	22.7	22.7	22.7	22.7	22.7
167.5°	22.7	24.8	22.7	22.7	22.7
170°	22.7	22.7	22.7	20.7	20.7
172.5°	22.7	22.7	22.7	20.7	20.7
175°	22.7	22.7	20.7	18.6	18.6
177.5°	24.8	22.7	20.7	18.6	16.5
180°	20.7	20.7	20.7	20.7	20.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	10.3	39.3	101.3	122.0	<i>126.1</i>
110°	12.4	33.1	84.7	103.4	<i>107.5</i>



(END OF REPORT)