

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: P830917

Luminaire Tested: **OHBL-9HE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-MFL-UNV-L940-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

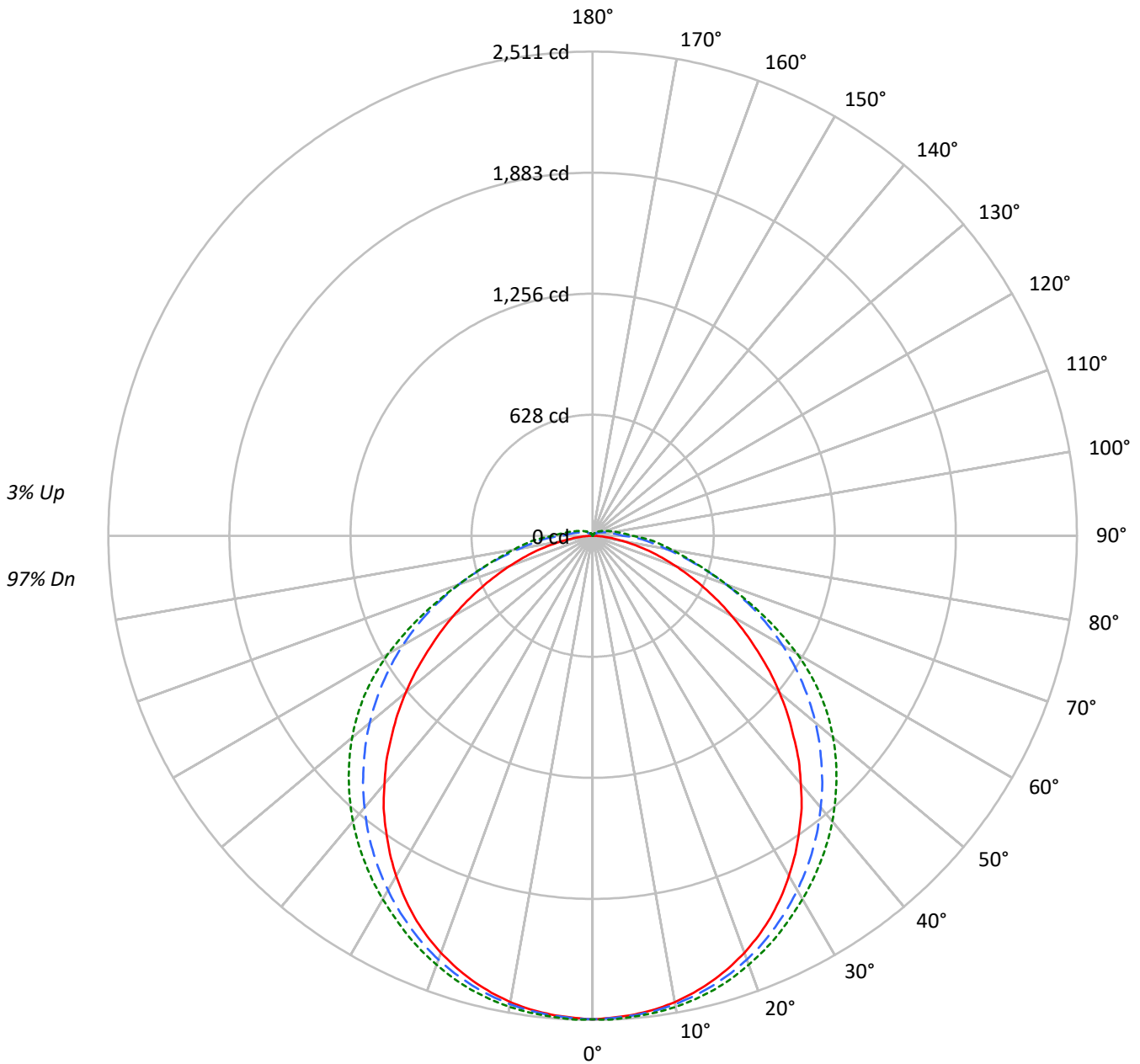
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7506.9 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 52  
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: P830917  
CATALOG NUMBER: OHBL-9HE-MFL-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	4284	4284	4284
5°	4257	4242	4254
10°	4227	4202	4229
15°	4180	4156	4197
20°	4117	4099	4151
25°	4033	4029	4105
30°	3917	3953	4059
35°	3777	3872	4018
40°	3609	3779	3978
45°	3410	3678	3927
50°	3193	3575	3865
55°	2925	3450	3764
60°	2652	3303	3566
65°	2353	3115	3244
70°	2029	2877	2895
75°	1701	2600	2655
80°	1290	2396	2616
85°	816	2468	2885



TEST NUMBER: P830917

CATALOG NUMBER: OHBL-9HE-MFL-UNV-L940-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.7	3.2
10°-20°	681.9	9.1
20°-30°	1031.2	13.7
30°-40°	1238.0	16.5
40°-50°	1278.6	17.0
50°-60°	1150.4	15.3
60°-70°	866.5	11.5
70°-80°	523.2	7.0
80°-90°	255.9	3.4
90°-100°	107.7	1.4
100°-110°	61.5	0.8
110°-120°	36.1	0.5
120°-130°	20.4	0.3
130°-140°	10.7	0.1
140°-150°	5.2	0.1
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1950.7	26.0
0°-40°	3188.7	42.5
0°-60°	5617.7	74.8
0°-90°	7263.3	96.8
90°-120°	205.3	2.7
90°-150°	241.7	3.2
90°-180°	244.0	3.3
0°-180°	7506.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2492	2499	2496	2506	2503	237
15°	2392	2403	2414	2435	2437	674
25°	2184	2208	2239	2274	2280	1005
35°	1867	1911	1990	2050	2062	1167
45°	1474	1548	1678	1769	1788	1138
55°	1044	1152	1327	1427	1444	936
65°	637	767	939	986	975	633
75°	300	431	544	558	552	320
85°	63	165	273	310	316	72
90°	0	64	156	196	204	4
95°	3	44	117	149	154	3
105°	4	25	68	88	92	4
115°	5	14	42	56	58	5
125°	5	7	25	36	38	4
135°	4	6	13	22	25	3
145°	6	6	6	11	13	4
155°	6	7	6	6	6	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830917

CATALOG NUMBER: OHBL-9HE-MFL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2508.3	2508.3	2508.3	2508.3	2508.3
2.5°	2501.0	2507.1	2503.4	2511.4	2510.8
5°	2492.4	2499.1	2496.0	2505.9	2502.8
7.5°	2477.6	2485.0	2484.4	2495.4	2494.2
10°	2456.1	2464.1	2466.6	2481.3	2481.3
12.5°	2426.7	2437.1	2443.3	2461.1	2461.7
15°	2391.7	2403.4	2414.4	2434.7	2437.1
17.5°	2349.3	2364.1	2379.4	2402.7	2405.8
20°	2301.4	2318.0	2338.9	2363.5	2367.1
22.5°	2246.2	2265.8	2292.9	2321.7	2326.0
25°	2184.2	2208.1	2239.4	2274.4	2280.0
27.5°	2113.6	2141.2	2183.6	2222.9	2227.8
30°	2036.9	2069.4	2122.2	2168.9	2176.8
32.5°	1955.8	1993.3	2058.4	2110.5	2121.6
35°	1867.4	1911.0	1989.6	2049.8	2062.0
37.5°	1780.3	1828.1	1917.2	1985.9	2000.6
40°	1678.4	1737.9	1839.8	1915.9	1933.7
42.5°	1582.6	1647.0	1762.5	1845.3	1862.5
45°	1473.9	1548.2	1677.7	1769.2	1788.2
47.5°	1372.0	1452.4	1596.1	1690.6	1710.3
50°	1264.6	1353.0	1508.9	1607.8	1628.0
52.5°	1157.2	1252.3	1418.7	1521.2	1540.2
55°	1044.2	1152.3	1327.2	1427.3	1444.5
57.5°	939.2	1053.4	1233.3	1328.4	1338.9
60°	835.5	954.0	1137.5	1221.0	1224.7
62.5°	734.2	858.8	1039.3	1105.6	1100.7
65°	637.2	767.4	939.2	985.9	974.8
67.5°	543.9	678.3	836.7	866.8	852.1
70°	455.5	591.8	737.3	752.6	739.1
72.5°	377.5	509.5	636.6	649.5	639.7
75°	300.2	430.9	543.9	558.0	552.5
77.5°	227.8	354.8	458.6	477.0	478.2
80°	163.9	285.5	384.3	413.1	416.8
82.5°	108.0	221.6	322.3	359.1	364.6
85°	62.6	165.1	272.6	310.0	315.5
87.5°	27.0	119.1	219.2	252.9	259.7
90°	0.0	64.5	155.9	196.4	204.4
92.5°	1.8	53.4	133.8	170.7	177.4
95°	3.1	43.6	116.6	148.6	154.1
97.5°	3.7	36.8	101.3	129.5	135.1
100°	3.7	31.9	87.8	113.6	118.5
102.5°	3.7	28.2	76.7	99.4	103.7
105°	4.3	25.2	67.5	88.4	92.1



TEST NUMBER: P830917

CATALOG NUMBER: OHBL-9HE-MFL-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	16.6	46.7	62.6	65.1
115°	4.9	14.1	41.7	55.9	58.3
117.5°	5.5	12.3	36.8	50.3	52.2
120°	5.5	10.4	32.5	44.8	47.3
122.5°	5.5	8.6	28.9	40.5	42.4
125°	4.9	6.8	25.2	36.2	38.1
127.5°	4.3	5.5	21.5	32.5	34.4
130°	4.3	4.9	18.4	28.9	30.7
132.5°	4.3	5.5	15.3	25.2	27.6
135°	4.3	5.5	12.9	22.1	24.6
137.5°	4.3	5.5	10.4	19.0	21.5
140°	4.9	5.5	8.6	16.0	18.4
142.5°	5.5	5.5	6.8	13.5	15.3
145°	6.1	5.5	6.1	11.0	12.9
147.5°	6.1	6.1	6.1	8.6	10.4
150°	6.1	6.8	6.1	6.8	8.6
152.5°	6.1	6.8	6.1	5.5	6.8
155°	6.1	6.8	6.1	5.5	6.1
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°	4.3	22.1	59.5	78.6	81.6
110°	4.3	19.6	52.8	70.0	73.1



(END OF REPORT)