

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: P830893

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830893  
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-9HE-A-UNV-L940-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

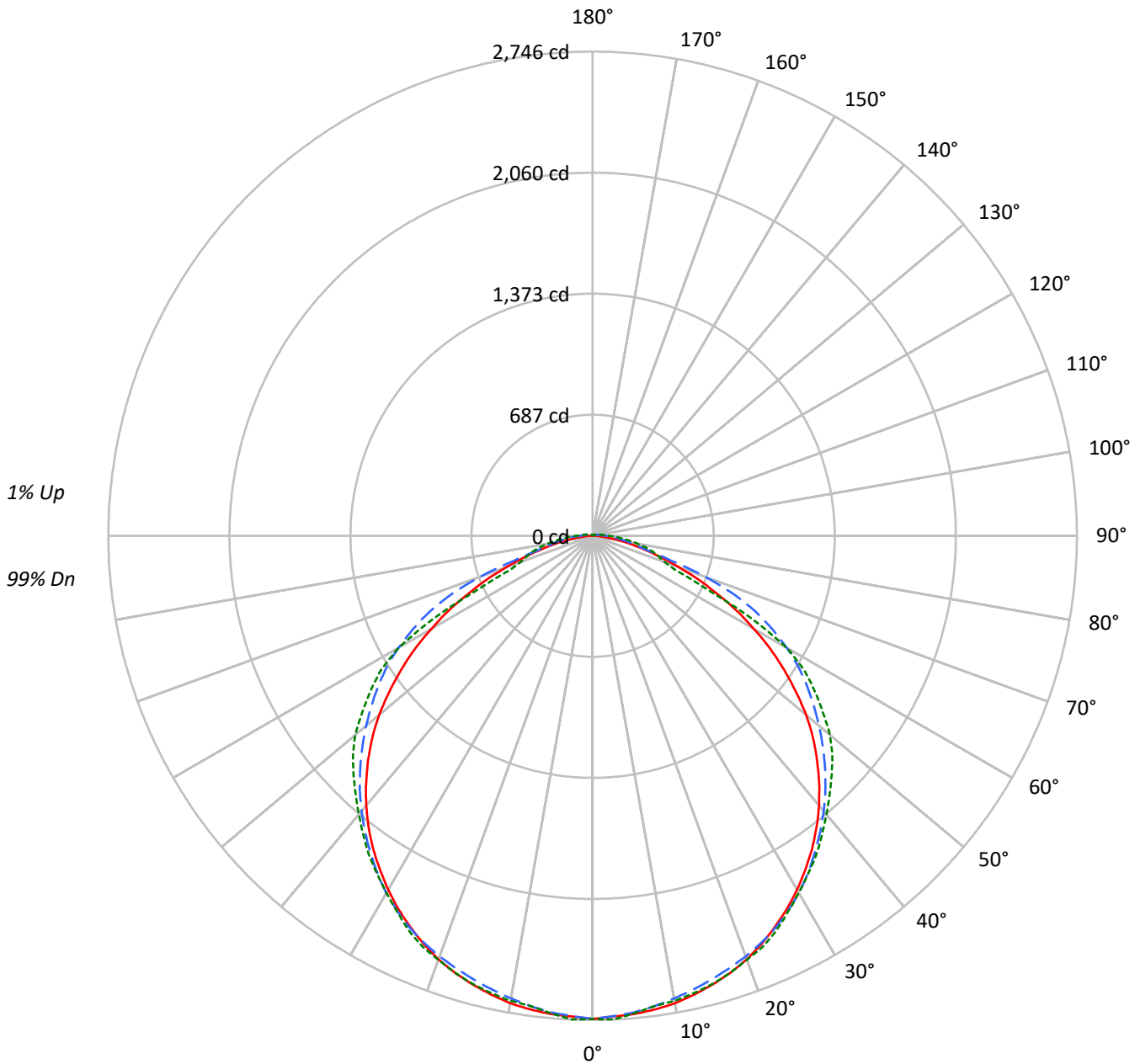
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7745.1 lumens  
Efficiency: N/A  
Efficacy: 148.9 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): 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

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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°	4680	4680	4680
5°	4650	4610	4619
10°	4632	4538	4565
15°	4603	4484	4531
20°	4574	4449	4488
25°	4519	4414	4445
30°	4459	4359	4358
35°	4387	4274	4308
40°	4294	4186	4241
45°	4164	4085	4209
50°	3989	3969	4171
55°	3710	3855	4010
60°	3346	3689	3701
65°	2870	3385	2340
70°	2312	2637	1692
75°	1733	1561	1710
80°	1206	1292	1621
85°	687	1173	1500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.4	3.3
10°-20°	740.9	9.6
20°-30°	1131.6	14.6
30°-40°	1373.0	17.7
40°-50°	1439.0	18.6
50°-60°	1304.0	16.8
60°-70°	874.3	11.3
70°-80°	392.6	5.1
80°-90°	142.5	1.8
90°-100°	42.9	0.6
100°-110°	20.2	0.3
110°-120°	10.1	0.1
120°-130°	5.6	0.1
130°-140°	3.9	0.0
140°-150°	2.6	0.0
150°-160°	1.9	0.0
160°-170°	1.2	0.0
170°-180°	0.4	0.0
0°-30°	2130.9	27.5
0°-40°	3503.9	45.2
0°-60°	6246.9	80.7
0°-90°	7656.2	98.9
90°-120°	73.3	0.9
90°-150°	85.3	1.1
90°-180°	89.0	1.1
0°-180°	7745.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2740	2740	2740	2740	2740	
5°	2722	2732	2713	2721	2718	259
15°	2634	2624	2605	2628	2631	744
25°	2447	2436	2453	2476	2469	1128
35°	2169	2174	2196	2220	2211	1356
45°	1800	1829	1863	1911	1917	1387
55°	1324	1388	1483	1542	1539	1182
65°	777	899	1021	861	703	775
75°	306	444	326	334	356	334
85°	53	101	130	156	164	64
90°	0	34	67	84	88	3
95°	0	21	46	56	58	1
105°	2	9	23	27	28	2
115°	3	5	12	15	16	3
125°	3	3	7	8	9	3
135°	4	4	4	6	7	3
145°	4	4	4	4	5	2
155°	4	4	4	4	4	2
165°	4	4	4	4	4	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2740.2	2740.2	2740.2	2740.2	2740.2
2.5°	2729.1	2740.6	2726.3	2741.8	2745.7
5°	2722.4	2731.9	2712.8	2721.2	2717.6
7.5°	2710.1	2713.2	2690.7	2697.4	2690.3
10°	2691.8	2690.3	2663.7	2676.8	2678.4
12.5°	2664.9	2660.2	2636.4	2656.2	2656.6
15°	2634.0	2623.7	2605.1	2628.1	2631.2
17.5°	2598.3	2584.9	2572.6	2602.3	2597.6
20°	2556.7	2540.9	2538.5	2571.0	2559.1
22.5°	2505.2	2493.0	2498.5	2529.4	2521.9
25°	2447.0	2436.3	2453.3	2475.9	2468.8
27.5°	2385.6	2379.2	2398.7	2416.1	2402.2
30°	2318.2	2314.7	2340.4	2354.7	2337.2
32.5°	2244.9	2246.1	2270.7	2290.1	2273.8
35°	2168.9	2174.0	2196.2	2219.6	2210.9
37.5°	2085.3	2096.7	2118.9	2145.5	2136.4
40°	1996.9	2013.5	2038.1	2070.2	2061.9
42.5°	1901.4	1922.4	1954.1	1989.8	1989.0
45°	1800.0	1829.3	1863.4	1910.9	1916.9
47.5°	1694.6	1727.5	1770.7	1834.1	1843.2
50°	1580.1	1621.3	1675.2	1751.2	1756.8
52.5°	1452.5	1508.8	1580.1	1653.0	1646.3
55°	1324.5	1388.3	1483.0	1542.4	1538.9
57.5°	1197.0	1268.7	1383.6	1426.0	1425.6
60°	1054.3	1145.0	1270.6	1302.7	1271.0
62.5°	922.4	1019.8	1150.2	1126.8	1018.3
65°	777.4	899.0	1020.6	861.4	703.3
67.5°	648.6	775.4	866.9	590.0	505.2
70°	519.0	658.9	675.9	437.8	431.9
72.5°	404.1	553.1	466.3	374.8	393.8
75°	305.9	443.8	326.5	334.0	355.8
77.5°	223.1	340.7	254.0	292.8	310.6
80°	153.3	241.3	207.2	246.0	258.3
82.5°	96.3	159.3	166.0	198.1	210.8
85°	52.7	101.0	129.6	156.5	164.0
87.5°	21.8	61.0	99.1	120.8	127.2
90°	0.4	33.7	67.0	84.0	88.0
92.5°	0.4	25.8	54.7	67.8	70.5
95°	0.4	21.0	46.0	55.9	57.5
97.5°	0.8	16.6	38.4	46.4	47.9
100°	1.2	13.9	32.1	38.8	40.0
102.5°	1.6	11.1	26.9	32.5	33.7
105°	1.6	9.1	22.6	27.3	28.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	5.5	13.5	17.0	17.8
115°	3.2	4.8	11.5	14.7	15.5
117.5°	3.2	4.0	9.9	12.3	13.1
120°	3.2	3.6	8.7	10.7	11.1
122.5°	3.2	3.2	7.5	9.5	9.9
125°	2.8	3.2	7.1	8.3	8.7
127.5°	3.2	3.2	6.3	7.5	7.9
130°	3.2	3.6	5.5	7.1	7.1
132.5°	3.6	4.0	5.2	6.7	6.7
135°	3.6	4.0	4.4	6.3	6.7
137.5°	4.0	4.0	4.0	5.9	6.3
140°	4.0	4.0	3.6	5.2	5.5
142.5°	3.6	4.0	3.6	4.8	5.2
145°	3.6	4.0	4.0	4.4	4.8
147.5°	4.0	4.0	4.0	4.0	4.4
150°	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.4	4.4	4.4	4.0
157.5°	4.0	4.4	4.4	4.4	4.4
160°	4.0	4.4	4.4	4.4	4.4
162.5°	4.4	4.4	4.4	4.4	4.4
165°	4.4	4.4	4.4	4.4	4.4
167.5°	4.4	4.8	4.4	4.4	4.4
170°	4.4	4.4	4.4	4.0	4.0
172.5°	4.4	4.4	4.4	4.0	4.0
175°	4.4	4.4	4.0	3.6	3.6
177.5°	4.8	4.4	4.0	3.6	3.2
180°	4.0	4.0	4.0	4.0	4.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	2.0	7.5	19.4	23.4	24.2
110°	2.4	6.3	16.2	19.8	20.6



(END OF REPORT)