

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: P830908

Luminaire Tested: **OHBL-9HE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830908  
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-L735-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

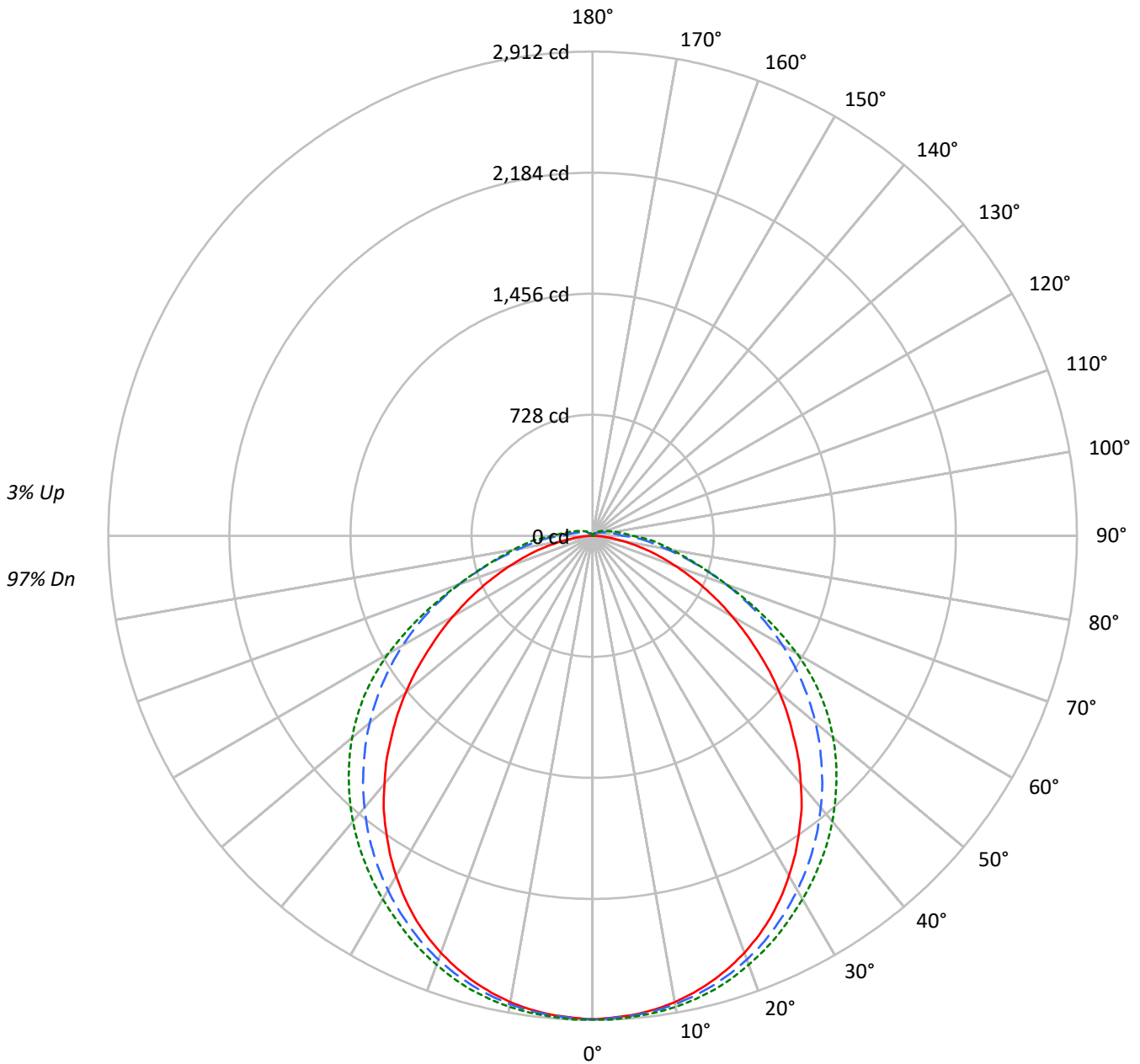
Lumens per Lamp: N/A  
Luminaire Lumens: 8706.0 lumens  
Efficiency: N/A  
Efficacy: 167.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

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

	0°	45°	90°
0°	4969	4969	4969
5°	4937	4919	4933
10°	4902	4874	4904
15°	4847	4819	4867
20°	4775	4754	4814
25°	4678	4672	4761
30°	4543	4584	4707
35°	4380	4491	4660
40°	4185	4383	4613
45°	3954	4265	4554
50°	3702	4146	4482
55°	3393	4001	4365
60°	3075	3830	4135
65°	2729	3613	3762
70°	2353	3336	3358
75°	1973	3016	3079
80°	1496	2778	3034
85°	946	2862	3346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	3.2
10°-20°	790.8	9.1
20°-30°	1195.9	13.7
30°-40°	1435.7	16.5
40°-50°	1482.8	17.0
50°-60°	1334.1	15.3
60°-70°	1004.9	11.5
70°-80°	606.8	7.0
80°-90°	296.8	3.4
90°-100°	124.9	1.4
100°-110°	71.3	0.8
110°-120°	41.9	0.5
120°-130°	23.7	0.3
130°-140°	12.5	0.1
140°-150°	6.1	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2262.3	26.0
0°-40°	3698.0	42.5
0°-60°	6514.9	74.8
0°-90°	8423.4	96.8
90°-120°	238.1	2.7
90°-150°	280.3	3.2
90°-180°	283.0	3.3
0°-180°	8706.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2909	2909	2909	2909	2909	
5°	2890	2898	2895	2906	2902	275
15°	2774	2787	2800	2824	2826	782
25°	2533	2561	2597	2638	2644	1165
35°	2166	2216	2307	2377	2391	1354
45°	1709	1796	1946	2052	2074	1320
55°	1211	1336	1539	1655	1675	1086
65°	739	890	1089	1143	1130	734
75°	348	500	631	647	641	371
85°	73	192	316	360	366	84
90°	0	75	181	228	237	5
95°	4	50	135	172	179	3
105°	5	29	78	102	107	5
115°	6	16	48	65	68	6
125°	6	8	29	42	44	5
135°	5	6	15	26	28	4
145°	7	6	7	13	15	4
155°	7	8	7	6	7	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2900.4	2907.5	2903.3	2912.5	2911.8
5°	2890.4	2898.3	2894.7	2906.1	2902.5
7.5°	2873.4	2881.9	2881.2	2894.0	2892.6
10°	2848.4	2857.7	2860.5	2877.6	2877.6
12.5°	2814.3	2826.4	2833.5	2854.1	2854.8
15°	2773.7	2787.2	2800.0	2823.5	2826.4
17.5°	2724.6	2741.6	2759.4	2786.5	2790.1
20°	2669.0	2688.3	2712.5	2740.9	2745.2
22.5°	2605.0	2627.7	2659.1	2692.5	2697.5
25°	2533.1	2560.8	2597.1	2637.7	2644.1
27.5°	2451.2	2483.2	2532.3	2577.9	2583.6
30°	2362.2	2399.9	2461.1	2515.3	2524.5
32.5°	2268.2	2311.6	2387.1	2447.6	2460.4
35°	2165.7	2216.2	2307.4	2377.1	2391.4
37.5°	2064.6	2120.1	2223.4	2303.1	2320.2
40°	1946.4	2015.5	2133.7	2221.9	2242.6
42.5°	1835.4	1910.1	2044.0	2140.1	2160.0
45°	1709.3	1795.5	1945.7	2051.8	2073.9
47.5°	1591.2	1684.4	1851.0	1960.7	1983.4
50°	1466.6	1569.1	1749.9	1864.5	1888.0
52.5°	1342.0	1452.3	1645.3	1764.2	1786.2
55°	1211.0	1336.3	1539.2	1655.2	1675.2
57.5°	1089.3	1221.7	1430.3	1540.6	1552.7
60°	968.9	1106.3	1319.2	1416.0	1420.3
62.5°	851.5	996.0	1205.3	1282.2	1276.5
65°	739.0	889.9	1089.3	1143.4	1130.5
67.5°	630.8	786.7	970.4	1005.2	988.2
70°	528.3	686.3	855.0	872.8	857.2
72.5°	437.8	590.9	738.3	753.2	741.8
75°	348.1	499.8	630.8	647.1	640.7
77.5°	264.1	411.5	531.8	553.2	554.6
80°	190.1	331.0	445.7	479.1	483.4
82.5°	125.3	257.0	373.8	416.5	422.9
85°	72.6	191.5	316.1	359.5	365.9
87.5°	31.3	138.1	254.2	293.3	301.1
90°	0.0	74.8	180.8	227.8	237.1
92.5°	2.1	61.9	155.2	197.9	205.7
95°	3.6	50.5	135.3	172.3	178.7
97.5°	4.3	42.7	117.5	150.2	156.6
100°	4.3	37.0	101.8	131.7	137.4
102.5°	4.3	32.7	89.0	115.3	120.3
105°	5.0	29.2	78.3	102.5	106.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	19.2	54.1	72.6	75.5
115°	5.7	16.4	48.4	64.8	67.6
117.5°	6.4	14.2	42.7	58.4	60.5
120°	6.4	12.1	37.7	52.0	54.8
122.5°	6.4	10.0	33.5	47.0	49.1
125°	5.7	7.8	29.2	42.0	44.1
127.5°	5.0	6.4	24.9	37.7	39.9
130°	5.0	5.7	21.4	33.5	35.6
132.5°	5.0	6.4	17.8	29.2	32.0
135°	5.0	6.4	15.0	25.6	28.5
137.5°	5.0	6.4	12.1	22.1	24.9
140°	5.7	6.4	10.0	18.5	21.4
142.5°	6.4	6.4	7.8	15.7	17.8
145°	7.1	6.4	7.1	12.8	15.0
147.5°	7.1	7.1	7.1	10.0	12.1
150°	7.1	7.8	7.1	7.8	10.0
152.5°	7.1	7.8	7.1	6.4	7.8
155°	7.1	7.8	7.1	6.4	7.1
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°	5.0	25.6	69.1	91.1	94.7
110°	5.0	22.8	61.2	81.2	84.7



(END OF REPORT)