

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: P830899

Luminaire Tested: **OHBL-9HE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830899  
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-MCL-UNV-L830-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

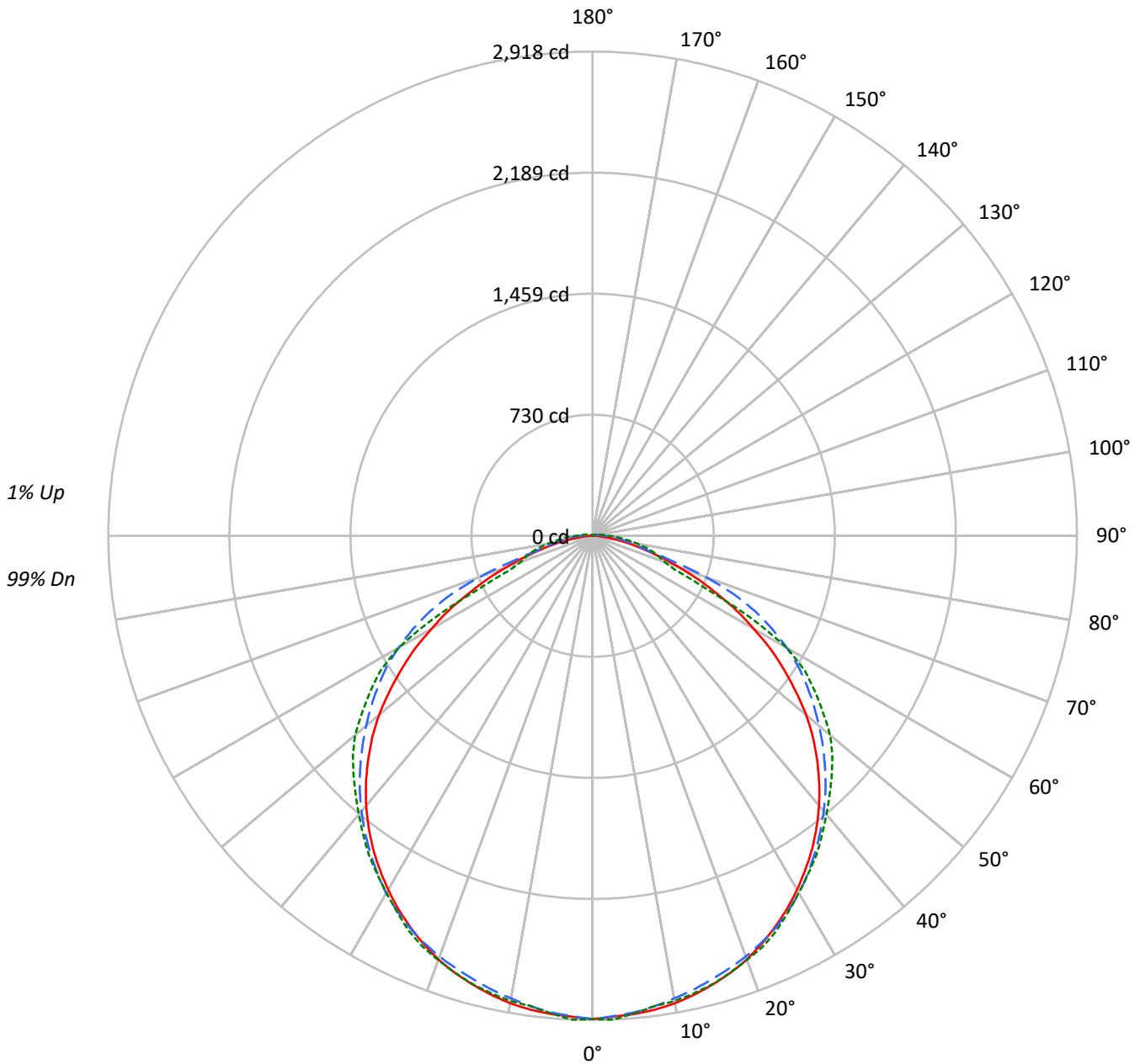
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8232.0 lumens  
Efficiency: N/A  
Efficacy: 158.3 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°	4975	4975	4975
5°	4942	4900	4909
10°	4924	4824	4852
15°	4893	4766	4816
20°	4861	4729	4770
25°	4803	4691	4725
30°	4739	4633	4632
35°	4663	4543	4579
40°	4564	4450	4508
45°	4426	4341	4474
50°	4240	4219	4433
55°	3944	4098	4262
60°	3556	3921	3934
65°	3051	3598	2487
70°	2457	2803	1798
75°	1842	1659	1817
80°	1283	1373	1723
85°	730	1247	1594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	3.3
10°-20°	787.5	9.6
20°-30°	1202.7	14.6
30°-40°	1459.3	17.7
40°-50°	1529.5	18.6
50°-60°	1386.0	16.8
60°-70°	929.2	11.3
70°-80°	417.3	5.1
80°-90°	151.4	1.8
90°-100°	45.6	0.6
100°-110°	21.5	0.3
110°-120°	10.8	0.1
120°-130°	6.0	0.1
130°-140°	4.1	0.0
140°-150°	2.7	0.0
150°-160°	2.0	0.0
160°-170°	1.3	0.0
170°-180°	0.4	0.0
0°-30°	2264.8	27.5
0°-40°	3724.2	45.2
0°-60°	6639.6	80.7
0°-90°	8137.6	98.9
90°-120°	77.9	0.9
90°-150°	90.7	1.1
90°-180°	94.0	1.1
0°-180°	8232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2912	2912	2912	2912	2912	
5°	2894	2904	2883	2892	2888	275
15°	2800	2789	2769	2793	2797	790
25°	2601	2590	2608	2632	2624	1199
35°	2305	2311	2334	2359	2350	1441
45°	1913	1944	1980	2031	2037	1474
55°	1408	1476	1576	1639	1636	1257
65°	826	956	1085	916	748	823
75°	325	472	347	355	378	355
85°	56	107	138	166	174	68
90°	0	36	71	89	94	3
95°	0	22	49	59	61	1
105°	2	10	24	29	30	2
115°	3	5	12	16	16	3
125°	3	3	8	9	9	3
135°	4	4	5	7	7	3
145°	4	4	4	5	5	3
155°	4	5	5	5	4	2
165°	5	5	5	5	5	1
175°	5	5	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°	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2900.7	2912.9	2897.7	2914.2	2918.4
5°	2893.5	2903.6	2883.4	2892.3	2888.5
7.5°	2880.5	2883.9	2859.8	2867.0	2859.4
10°	2861.1	2859.4	2831.2	2845.1	2846.8
12.5°	2832.5	2827.4	2802.2	2823.2	2823.6
15°	2799.6	2788.7	2768.9	2793.3	2796.7
17.5°	2761.7	2747.4	2734.4	2765.9	2760.9
20°	2717.5	2700.7	2698.1	2732.7	2720.0
22.5°	2662.8	2649.7	2655.6	2688.5	2680.4
25°	2600.9	2589.5	2607.6	2631.6	2624.0
27.5°	2535.6	2528.8	2549.5	2568.0	2553.3
30°	2464.0	2460.2	2487.6	2502.7	2484.2
32.5°	2386.1	2387.3	2413.5	2434.1	2416.8
35°	2305.2	2310.7	2334.3	2359.1	2349.9
37.5°	2216.4	2228.6	2252.2	2280.4	2270.7
40°	2122.5	2140.1	2166.3	2200.4	2191.5
42.5°	2021.0	2043.3	2077.0	2114.9	2114.0
45°	1913.2	1944.3	1980.5	2031.1	2037.4
47.5°	1801.1	1836.1	1882.0	1949.4	1959.1
50°	1679.4	1723.2	1780.5	1861.4	1867.3
52.5°	1543.8	1603.6	1679.4	1756.9	1749.8
55°	1407.8	1475.6	1576.3	1639.4	1635.6
57.5°	1272.2	1348.4	1470.6	1515.6	1515.2
60°	1120.6	1217.0	1350.5	1384.7	1351.0
62.5°	980.4	1084.0	1222.5	1197.7	1082.3
65°	826.2	955.5	1084.8	915.5	747.5
67.5°	689.4	824.1	921.4	627.1	536.9
70°	551.7	700.3	718.4	465.3	459.0
72.5°	429.5	587.9	495.7	398.4	418.6
75°	325.1	471.7	347.0	355.0	378.2
77.5°	237.1	362.2	269.9	311.2	330.2
80°	163.0	256.5	220.2	261.5	274.6
82.5°	102.3	169.3	176.5	210.6	224.0
85°	56.0	107.4	137.7	166.3	174.3
87.5°	23.2	64.9	105.3	128.4	135.2
90°	0.4	35.8	71.2	89.3	93.5
92.5°	0.4	27.4	58.1	72.0	75.0
95°	0.4	22.3	48.9	59.4	61.1
97.5°	0.8	17.7	40.8	49.3	51.0
100°	1.3	14.7	34.1	41.3	42.5
102.5°	1.7	11.8	28.6	34.5	35.8
105°	1.7	9.7	24.0	29.1	30.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	5.9	14.3	18.1	19.0
115°	3.4	5.1	12.2	15.6	16.4
117.5°	3.4	4.2	10.5	13.1	13.9
120°	3.4	3.8	9.3	11.4	11.8
122.5°	3.4	3.4	8.0	10.1	10.5
125°	2.9	3.4	7.6	8.8	9.3
127.5°	3.4	3.4	6.7	8.0	8.4
130°	3.4	3.8	5.9	7.6	7.6
132.5°	3.8	4.2	5.5	7.2	7.2
135°	3.8	4.2	4.6	6.7	7.2
137.5°	4.2	4.2	4.2	6.3	6.7
140°	4.2	4.2	3.8	5.5	5.9
142.5°	3.8	4.2	3.8	5.1	5.5
145°	3.8	4.2	4.2	4.6	5.1
147.5°	4.2	4.2	4.2	4.2	4.6
150°	4.2	4.2	4.2	4.2	4.2
152.5°	4.2	4.2	4.2	4.2	4.2
155°	4.2	4.6	4.6	4.6	4.2
157.5°	4.2	4.6	4.6	4.6	4.6
160°	4.2	4.6	4.6	4.6	4.6
162.5°	4.6	4.6	4.6	4.6	4.6
165°	4.6	4.6	4.6	4.6	4.6
167.5°	4.6	5.1	4.6	4.6	4.6
170°	4.6	4.6	4.6	4.2	4.2
172.5°	4.6	4.6	4.6	4.2	4.2
175°	4.6	4.6	4.2	3.8	3.8
177.5°	5.1	4.6	4.2	3.8	3.4
180°	4.2	4.2	4.2	4.2	4.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	2.1	8.0	20.6	24.8	25.7
110°	2.5	6.7	17.3	21.1	21.9



(END OF REPORT)