

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: P830911

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

Issue Date: 5/3/2024



**Test Information**

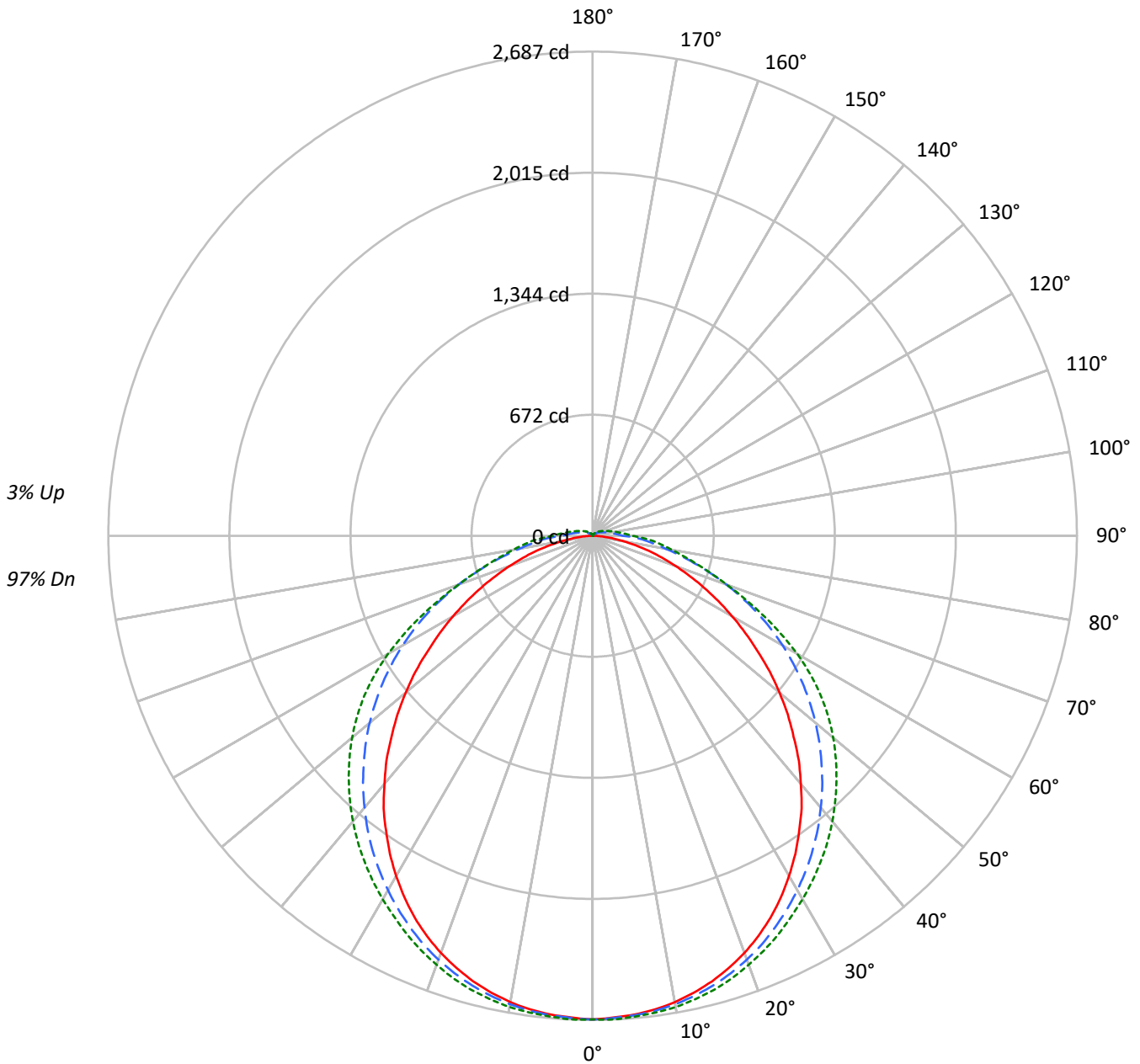
Test Method: LM-79-08  
Report Number: P830911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-MFL-UNV-L830-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8034.0 lumens  
Efficiency: N/A  
Efficacy: 154.5 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	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	4585	4585	4585
5°	4556	4540	4552
10°	4524	4497	4526
15°	4473	4448	4492
20°	4406	4387	4443
25°	4316	4312	4393
30°	4193	4230	4344
35°	4042	4144	4300
40°	3862	4044	4257
45°	3649	3936	4202
50°	3417	3826	4137
55°	3131	3692	4028
60°	2838	3535	3816
65°	2518	3334	3472
70°	2171	3078	3099
75°	1821	2783	2841
80°	1380	2564	2800
85°	873	2641	3088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.4	3.2
10°-20°	729.7	9.1
20°-30°	1103.6	13.7
30°-40°	1324.9	16.5
40°-50°	1368.4	17.0
50°-60°	1231.1	15.3
60°-70°	927.4	11.5
70°-80°	560.0	7.0
80°-90°	273.9	3.4
90°-100°	115.3	1.4
100°-110°	65.8	0.8
110°-120°	38.6	0.5
120°-130°	21.8	0.3
130°-140°	11.5	0.1
140°-150°	5.6	0.1
150°-160°	2.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2087.7	26.0
0°-40°	3412.6	42.5
0°-60°	6012.0	74.8
0°-90°	7773.3	96.8
90°-120°	219.7	2.7
90°-150°	258.6	3.2
90°-180°	261.0	3.2
0°-180°	8034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2684	2684	2684	2684	2684	
5°	2667	2675	2671	2682	2678	253
15°	2560	2572	2584	2606	2608	722
25°	2338	2363	2397	2434	2440	1075
35°	1998	2045	2129	2194	2207	1249
45°	1577	1657	1796	1893	1914	1218
55°	1118	1233	1420	1528	1546	1002
65°	682	821	1005	1055	1043	677
75°	321	461	582	597	591	343
85°	67	177	292	332	338	77
90°	0	69	167	210	219	4
95°	3	47	125	159	165	3
105°	5	27	72	95	98	5
115°	5	15	45	60	62	5
125°	5	7	27	39	41	5
135°	5	6	14	24	26	4
145°	7	6	7	12	14	4
155°	7	7	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°	2684.4	2684.4	2684.4	2684.4	2684.4
2.5°	2676.5	2683.1	2679.2	2687.7	2687.0
5°	2667.3	2674.6	2671.3	2681.8	2678.5
7.5°	2651.6	2659.4	2658.8	2670.6	2669.3
10°	2628.6	2637.1	2639.7	2655.5	2655.5
12.5°	2597.0	2608.2	2614.8	2633.8	2634.5
15°	2559.6	2572.1	2583.9	2605.6	2608.2
17.5°	2514.3	2530.0	2546.4	2571.4	2574.7
20°	2463.0	2480.8	2503.1	2529.4	2533.3
22.5°	2403.9	2424.9	2453.8	2484.7	2489.3
25°	2337.5	2363.2	2396.7	2434.1	2440.0
27.5°	2262.0	2291.5	2336.9	2378.9	2384.2
30°	2179.9	2214.7	2271.2	2321.1	2329.6
32.5°	2093.1	2133.2	2202.8	2258.7	2270.5
35°	1998.5	2045.2	2129.3	2193.7	2206.8
37.5°	1905.2	1956.5	2051.7	2125.3	2141.1
40°	1796.2	1859.9	1969.0	2050.4	2069.5
42.5°	1693.7	1762.7	1886.2	1974.9	1993.3
45°	1577.4	1656.9	1795.5	1893.4	1913.8
47.5°	1468.3	1554.4	1708.1	1809.3	1830.3
50°	1353.4	1448.0	1614.9	1720.6	1742.3
52.5°	1238.4	1340.2	1518.3	1628.0	1648.4
55°	1117.5	1233.1	1420.4	1527.5	1545.9
57.5°	1005.2	1127.4	1319.9	1421.7	1432.9
60°	894.1	1020.9	1217.4	1306.7	1310.7
62.5°	785.7	919.1	1112.3	1183.2	1178.0
65°	681.9	821.2	1005.2	1055.1	1043.3
67.5°	582.1	726.0	895.5	927.7	911.9
70°	487.5	633.3	789.0	805.5	791.0
72.5°	404.0	545.3	681.3	695.1	684.6
75°	321.3	461.2	582.1	597.2	591.3
77.5°	243.7	379.7	490.8	510.5	511.8
80°	175.4	305.5	411.3	442.1	446.1
82.5°	115.6	237.2	344.9	384.3	390.2
85°	67.0	176.7	291.7	331.8	337.7
87.5°	28.9	127.5	234.5	270.7	277.9
90°	0.0	69.0	166.9	210.2	218.8
92.5°	2.0	57.2	143.2	182.6	189.9
95°	3.3	46.6	124.8	159.0	164.9
97.5°	3.9	39.4	108.4	138.6	144.5
100°	3.9	34.2	93.9	121.5	126.8
102.5°	3.9	30.2	82.1	106.4	111.0
105°	4.6	26.9	72.3	94.6	98.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	17.7	49.9	67.0	69.6
115°	5.3	15.1	44.7	59.8	62.4
117.5°	5.9	13.1	39.4	53.9	55.8
120°	5.9	11.2	34.8	48.0	50.6
122.5°	5.9	9.2	30.9	43.4	45.3
125°	5.3	7.2	26.9	38.8	40.7
127.5°	4.6	5.9	23.0	34.8	36.8
130°	4.6	5.3	19.7	30.9	32.8
132.5°	4.6	5.9	16.4	26.9	29.6
135°	4.6	5.9	13.8	23.7	26.3
137.5°	4.6	5.9	11.2	20.4	23.0
140°	5.3	5.9	9.2	17.1	19.7
142.5°	5.9	5.9	7.2	14.5	16.4
145°	6.6	5.9	6.6	11.8	13.8
147.5°	6.6	6.6	6.6	9.2	11.2
150°	6.6	7.2	6.6	7.2	9.2
152.5°	6.6	7.2	6.6	5.9	7.2
155°	6.6	7.2	6.6	5.9	6.6
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°	4.6	23.7	63.7	84.1	87.4
110°	4.6	21.0	56.5	74.9	78.2



(END OF REPORT)