

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: P830913

Luminaire Tested: **OHBL-9HE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

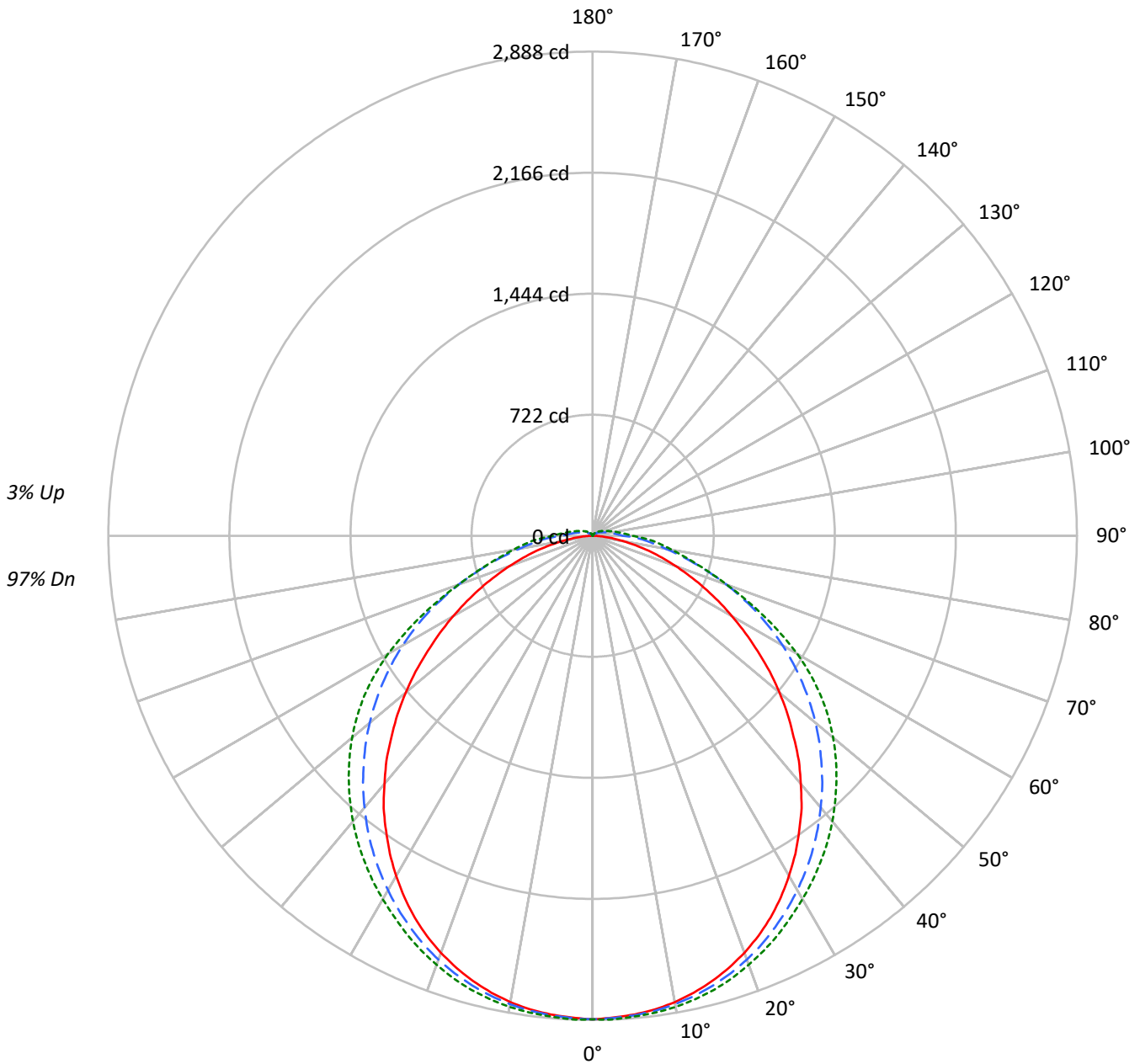
Test Method: LM-79-08  
Report Number: P830913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-MFL-UNV-L840-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8634.0 lumens  
Efficiency: N/A  
Efficacy: 166.0 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									
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	97																		
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	80																		
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	66																		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	56																		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	47																		
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	41																		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	36																		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	32																		
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	28																		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	25																		
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	23																		

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

	0°	45°	90°
0°	4927	4927	4927
5°	4896	4879	4892
10°	4862	4833	4864
15°	4807	4780	4827
20°	4735	4715	4775
25°	4639	4634	4721
30°	4506	4546	4668
35°	4344	4454	4621
40°	4150	4346	4575
45°	3922	4230	4516
50°	3672	4112	4445
55°	3364	3968	4329
60°	3050	3799	4101
65°	2706	3583	3731
70°	2334	3309	3330
75°	1957	2991	3053
80°	1483	2755	3009
85°	938	2838	3318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	3.2
10°-20°	784.2	9.1
20°-30°	1186.0	13.7
30°-40°	1423.8	16.5
40°-50°	1470.6	17.0
50°-60°	1323.1	15.3
60°-70°	996.6	11.5
70°-80°	601.8	7.0
80°-90°	294.3	3.4
90°-100°	123.9	1.4
100°-110°	70.7	0.8
110°-120°	41.5	0.5
120°-130°	23.5	0.3
130°-140°	12.4	0.1
140°-150°	6.0	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2243.6	26.0
0°-40°	3667.4	42.5
0°-60°	6461.0	74.8
0°-90°	8353.8	96.8
90°-120°	236.1	2.7
90°-150°	278.0	3.2
90°-180°	280.0	3.2
0°-180°	8634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2885	2885	2885	2885	2885	
5°	2866	2874	2871	2882	2878	272
15°	2751	2764	2777	2800	2803	776
25°	2512	2540	2576	2616	2622	1155
35°	2148	2198	2288	2358	2372	1343
45°	1695	1781	1930	2035	2057	1309
55°	1201	1325	1526	1642	1661	1077
65°	733	883	1080	1134	1121	728
75°	345	496	626	642	635	368
85°	72	190	314	357	363	83
90°	0	74	179	226	235	5
95°	4	50	134	171	177	3
105°	5	29	78	102	106	5
115°	6	16	48	64	67	6
125°	6	8	29	42	44	5
135°	5	6	15	25	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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CATALOG NUMBER: OHBL-9HE-MFL-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2884.9	2884.9	2884.9	2884.9	2884.9
2.5°	2876.4	2883.5	2879.2	2888.4	2887.7
5°	2866.5	2874.3	2870.8	2882.1	2878.5
7.5°	2849.6	2858.1	2857.4	2870.1	2868.7
10°	2824.9	2834.1	2836.9	2853.8	2853.8
12.5°	2791.0	2803.0	2810.1	2830.5	2831.2
15°	2750.7	2764.2	2776.9	2800.2	2803.0
17.5°	2702.0	2719.0	2736.6	2763.5	2767.0
20°	2647.0	2666.0	2690.0	2718.3	2722.5
22.5°	2583.4	2606.0	2637.1	2670.3	2675.2
25°	2512.1	2539.6	2575.6	2615.9	2622.2
27.5°	2430.9	2462.7	2511.4	2556.6	2562.2
30°	2342.7	2380.1	2440.8	2494.5	2503.6
32.5°	2249.5	2292.5	2367.4	2427.4	2440.1
35°	2147.8	2197.9	2288.3	2357.5	2371.6
37.5°	2047.5	2102.6	2205.0	2284.1	2301.0
40°	1930.3	1998.8	2116.0	2203.6	2224.0
42.5°	1820.2	1894.3	2027.1	2122.4	2142.1
45°	1695.2	1780.6	1929.6	2034.8	2056.7
47.5°	1578.0	1670.5	1835.7	1944.4	1967.0
50°	1454.4	1556.1	1735.5	1849.1	1872.4
52.5°	1330.9	1440.3	1631.7	1749.6	1771.5
55°	1201.0	1325.2	1526.5	1641.6	1661.3
57.5°	1080.2	1211.6	1418.4	1527.9	1539.9
60°	960.9	1097.2	1308.3	1404.3	1408.6
62.5°	844.4	987.8	1195.3	1271.6	1265.9
65°	732.9	882.6	1080.2	1133.9	1121.2
67.5°	625.6	780.2	962.3	996.9	980.0
70°	523.9	680.6	848.0	865.6	850.1
72.5°	434.2	586.0	732.2	747.0	735.7
75°	345.3	495.6	625.6	641.8	635.4
77.5°	261.9	408.1	527.4	548.6	550.0
80°	188.5	328.3	442.0	475.2	479.4
82.5°	124.3	254.9	370.7	413.0	419.4
85°	72.0	189.9	313.5	356.6	362.9
87.5°	31.1	137.0	252.1	290.9	298.7
90°	0.0	74.1	179.3	225.9	235.1
92.5°	2.1	61.4	153.9	196.3	204.0
95°	3.5	50.1	134.1	170.9	177.2
97.5°	4.2	42.4	116.5	149.0	155.3
100°	4.2	36.7	101.0	130.6	136.3
102.5°	4.2	32.5	88.3	114.4	119.3
105°	4.9	28.9	77.7	101.7	105.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	19.1	53.7	72.0	74.8
115°	5.6	16.2	48.0	64.2	67.1
117.5°	6.4	14.1	42.4	57.9	60.0
120°	6.4	12.0	37.4	51.5	54.4
122.5°	6.4	9.9	33.2	46.6	48.7
125°	5.6	7.8	28.9	41.7	43.8
127.5°	4.9	6.4	24.7	37.4	39.5
130°	4.9	5.6	21.2	33.2	35.3
132.5°	4.9	6.4	17.7	28.9	31.8
135°	4.9	6.4	14.8	25.4	28.2
137.5°	4.9	6.4	12.0	21.9	24.7
140°	5.6	6.4	9.9	18.4	21.2
142.5°	6.4	6.4	7.8	15.5	17.7
145°	7.1	6.4	7.1	12.7	14.8
147.5°	7.1	7.1	7.1	9.9	12.0
150°	7.1	7.8	7.1	7.8	9.9
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°	4.9	25.4	68.5	90.4	93.9
110°	4.9	22.6	60.7	80.5	84.0



(END OF REPORT)