

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: P829519

Luminaire Tested: **OHB-9HE-A-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829519  
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: OHB-9HE-A-UNV-L830-CD  
Description: 9000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

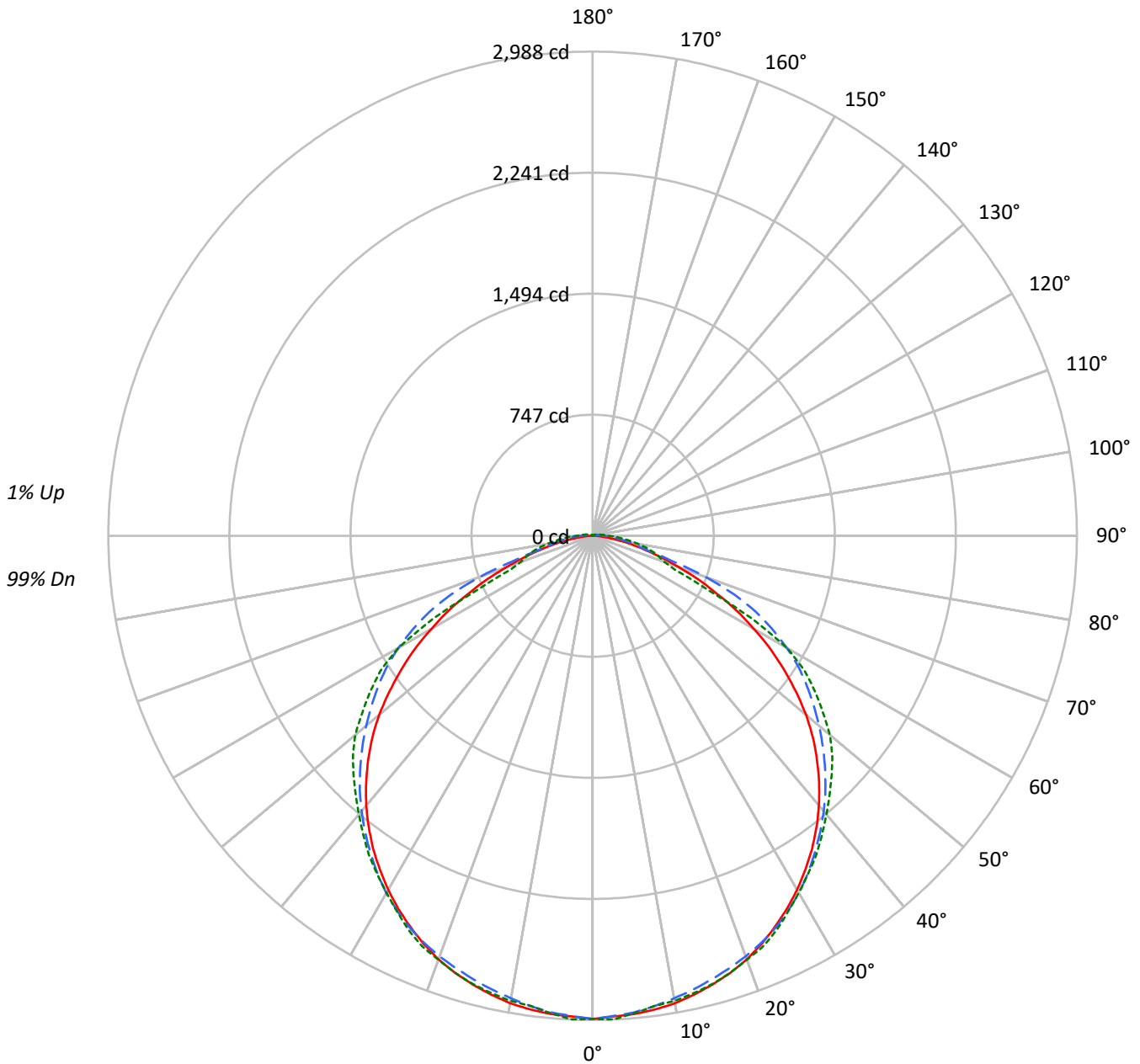
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8426.9 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' 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°	9960	9960	9960
5°	9858	9785	9829
10°	9786	9608	9714
15°	9687	9469	9643
20°	9588	9370	9551
25°	9434	9270	9460
30°	9268	9129	9274
35°	9075	8922	9168
40°	8835	8708	9025
45°	8518	8464	8957
50°	8102	8187	8876
55°	7473	7910	8533
60°	6669	7521	7876
65°	5642	6845	4980
70°	4459	5275	3600
75°	3250	3074	3638
80°	2155	2483	3450
85°	1106	2157	3192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	3.3
10°-20°	806.1	9.6
20°-30°	1231.2	14.6
30°-40°	1493.9	17.7
40°-50°	1565.8	18.6
50°-60°	1418.8	16.8
60°-70°	951.3	11.3
70°-80°	427.1	5.1
80°-90°	155.0	1.8
90°-100°	46.6	0.6
100°-110°	22.0	0.3
110°-120°	11.0	0.1
120°-130°	6.1	0.1
130°-140°	4.2	0.0
140°-150°	2.8	0.0
150°-160°	2.1	0.0
160°-170°	1.3	0.0
170°-180°	0.4	0.0
0°-30°	2318.5	27.5
0°-40°	3812.4	45.2
0°-60°	6796.9	80.7
0°-90°	8330.3	98.9
90°-120°	79.7	0.9
90°-150°	92.8	1.1
90°-180°	97.0	1.2
0°-180°	8426.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2962	2972	2952	2961	2957	282
15°	2866	2855	2834	2860	2863	809
25°	2662	2651	2669	2694	2686	1227
35°	2360	2365	2390	2415	2406	1475
45°	1958	1990	2028	2079	2086	1509
55°	1441	1511	1614	1678	1674	1286
65°	846	978	1110	937	765	843
75°	333	483	355	363	387	364
85°	57	110	141	170	178	70
90°	0	37	73	91	96	3
95°	0	23	50	61	62	1
105°	2	10	25	30	31	2
115°	3	5	12	16	17	3
125°	3	3	8	9	10	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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CATALOG NUMBER: OHB-9HE-A-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2981.5	2981.5	2981.5	2981.5	2981.5
2.5°	2969.4	2981.9	2966.4	2983.2	2987.5
5°	2962.1	2972.4	2951.7	2960.8	2956.9
7.5°	2948.7	2952.2	2927.6	2934.9	2927.2
10°	2928.9	2927.2	2898.3	2912.5	2914.2
12.5°	2899.6	2894.4	2868.5	2890.1	2890.5
15°	2865.9	2854.7	2834.5	2859.5	2862.9
17.5°	2827.1	2812.5	2799.1	2831.5	2826.3
20°	2781.9	2764.6	2762.1	2797.4	2784.5
22.5°	2725.8	2712.5	2718.5	2752.1	2743.9
25°	2662.5	2650.8	2669.4	2693.9	2686.2
27.5°	2595.6	2588.7	2609.9	2628.8	2613.8
30°	2522.4	2518.5	2546.5	2562.0	2543.1
32.5°	2442.6	2443.9	2470.6	2491.8	2474.1
35°	2359.8	2365.4	2389.6	2415.0	2405.5
37.5°	2268.9	2281.4	2305.5	2334.4	2324.5
40°	2172.7	2190.8	2217.6	2252.5	2243.4
42.5°	2068.8	2091.7	2126.2	2165.0	2164.1
45°	1958.5	1990.4	2027.5	2079.2	2085.7
47.5°	1843.8	1879.6	1926.6	1995.6	2005.5
50°	1719.2	1764.1	1822.7	1905.5	1911.5
52.5°	1580.4	1641.6	1719.2	1798.5	1791.2
55°	1441.2	1510.6	1613.6	1678.3	1674.4
57.5°	1302.3	1380.4	1505.4	1551.5	1551.1
60°	1147.2	1245.9	1382.5	1417.5	1383.0
62.5°	1003.6	1109.6	1251.5	1226.0	1107.9
65°	845.8	978.2	1110.5	937.2	765.2
67.5°	705.7	843.7	943.2	641.9	549.7
70°	564.7	716.9	735.5	476.4	469.9
72.5°	439.7	601.8	507.4	407.8	428.5
75°	332.8	482.8	355.2	363.4	387.1
77.5°	242.7	370.7	276.3	318.6	338.0
80°	166.8	262.5	225.5	267.7	281.1
82.5°	104.8	173.3	180.6	215.5	229.3
85°	57.3	109.9	141.0	170.3	178.5
87.5°	23.7	66.4	107.8	131.5	138.4
90°	0.4	36.6	72.9	91.4	95.7
92.5°	0.4	28.0	59.5	73.7	76.7
95°	0.4	22.8	50.0	60.8	62.5
97.5°	0.9	18.1	41.8	50.4	52.2
100°	1.3	15.1	34.9	42.2	43.5
102.5°	1.7	12.1	29.3	35.4	36.6
105°	1.7	9.9	24.6	29.7	31.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	6.0	14.7	18.5	19.4
115°	3.4	5.2	12.5	16.0	16.8
117.5°	3.4	4.3	10.8	13.4	14.2
120°	3.4	3.9	9.5	11.6	12.1
122.5°	3.4	3.4	8.2	10.3	10.8
125°	3.0	3.4	7.8	9.1	9.5
127.5°	3.4	3.4	6.9	8.2	8.6
130°	3.4	3.9	6.0	7.8	7.8
132.5°	3.9	4.3	5.6	7.3	7.3
135°	3.9	4.3	4.7	6.9	7.3
137.5°	4.3	4.3	4.3	6.5	6.9
140°	4.3	4.3	3.9	5.6	6.0
142.5°	3.9	4.3	3.9	5.2	5.6
145°	3.9	4.3	4.3	4.7	5.2
147.5°	4.3	4.3	4.3	4.3	4.7
150°	4.3	4.3	4.3	4.3	4.3
152.5°	4.3	4.3	4.3	4.3	4.3
155°	4.3	4.7	4.7	4.7	4.3
157.5°	4.3	4.7	4.7	4.7	4.7
160°	4.3	4.7	4.7	4.7	4.7
162.5°	4.7	4.7	4.7	4.7	4.7
165°	4.7	4.7	4.7	4.7	4.7
167.5°	4.7	5.2	4.7	4.7	4.7
170°	4.7	4.7	4.7	4.3	4.3
172.5°	4.7	4.7	4.7	4.3	4.3
175°	4.7	4.7	4.3	3.9	3.9
177.5°	5.2	4.7	4.3	3.9	3.4
180°	4.3	4.3	4.3	4.3	4.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	2.2	8.2	21.1	25.4	26.3
110°	2.6	6.9	17.7	21.6	22.4



(END OF REPORT)