

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: P829570

Luminaire Tested: **OHB-9HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-9HE-NL-UNV-L850-CD  
Description: 9000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

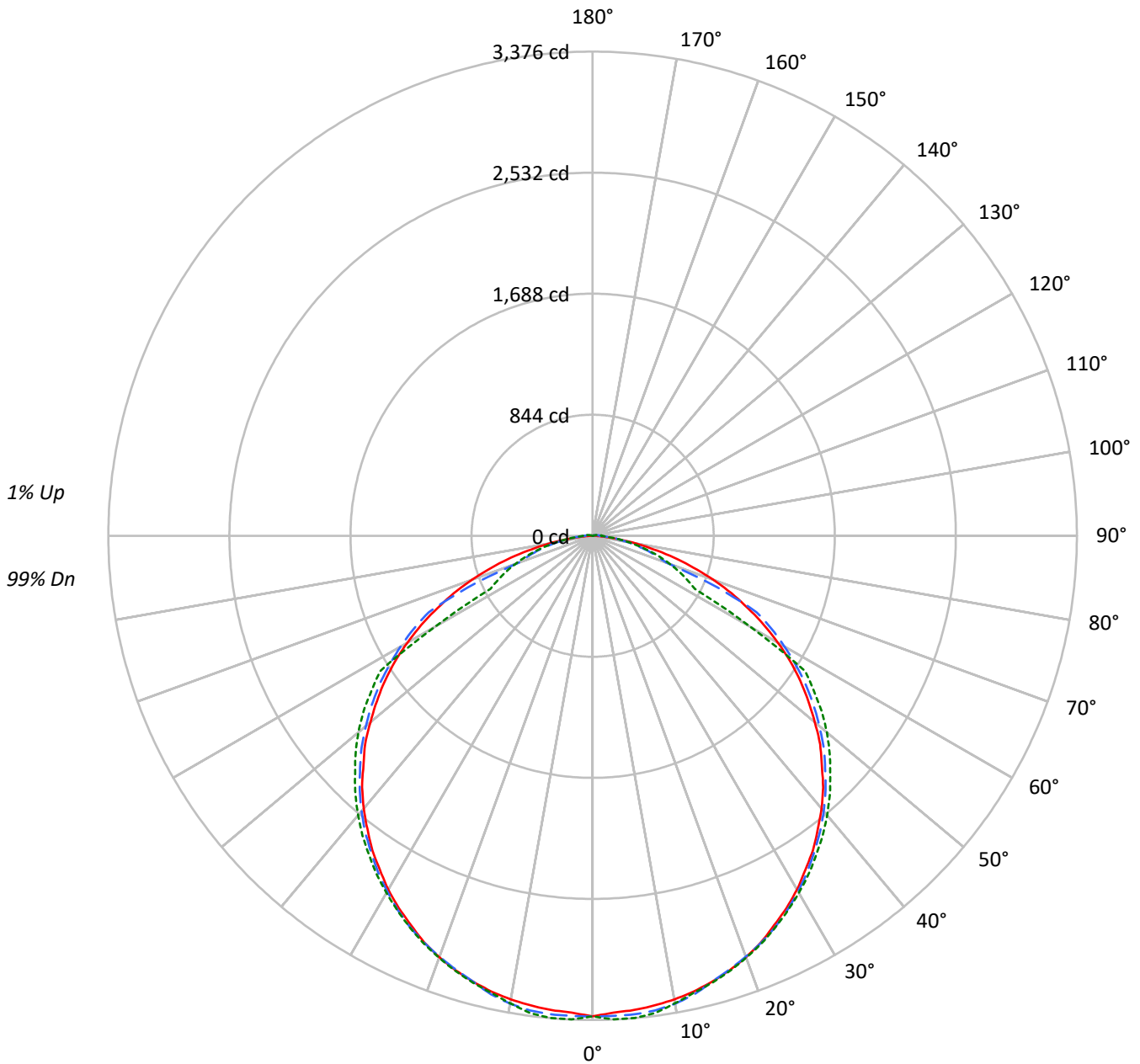
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9408.0 lumens  
Efficiency: N/A  
Efficacy: 180.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 1.93' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): 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

TEST NUMBER: P829570

CATALOG NUMBER: OHB-9HE-NL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829570

CATALOG NUMBER: OHB-9HE-NL-UNV-L850-CD

**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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	11194	11194	11194
5°	11132	11232	11317
10°	11135	11241	11227
15°	11133	11131	11155
20°	11118	11101	11128
25°	11042	11098	11107
30°	10991	11047	11091
35°	10919	10979	11082
40°	10825	10928	11089
45°	10669	10830	11066
50°	10508	10722	11077
55°	10307	10575	10955
60°	9962	10316	8528
65°	9425	9974	5740
70°	8717	5295	5570
75°	7603	5031	5320
80°	5848	4615	4875
85°	2951	4665	4776



TEST NUMBER: P829570

CATALOG NUMBER: OHB-9HE-NL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.3	3.4
10°-20°	911.5	9.7
20°-30°	1386.9	14.7
30°-40°	1686.3	17.9
40°-50°	1773.1	18.8
50°-60°	1619.1	17.2
60°-70°	1037.9	11.0
70°-80°	490.3	5.2
80°-90°	135.9	1.4
90°-100°	36.0	0.4
100°-110°	9.9	0.1
110°-120°	2.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2616.8	27.8
0°-40°	4303.1	45.7
0°-60°	7695.3	81.8
0°-90°	9359.4	99.5
90°-120°	48.6	0.5
90°-150°	48.6	0.5
90°-180°	49.0	0.5
0°-180°	9408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3320	3333	3350	3368	3375	316
15°	3219	3243	3219	3223	3226	909
25°	2996	3000	3011	3016	3013	1382
35°	2678	2662	2692	2725	2718	1673
45°	2258	2254	2292	2347	2342	1746
55°	1770	1756	1816	1876	1881	1578
65°	1192	1192	1262	724	726	1182
75°	589	600	390	410	412	621
85°	77	98	122	132	125	114
90°	0	33	54	64	63	3
95°	2	17	39	52	52	1
105°	3	6	9	9	9	3
115°	3	4	6	4	1	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829570

CATALOG NUMBER: OHB-9HE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3350.9	3350.9	3350.9	3350.9	3350.9
2.5°	3327.4	3338.6	3350.9	3366.8	3375.5
5°	3319.7	3332.6	3349.7	3367.9	3375.0
7.5°	3303.3	3321.4	3337.9	3350.9	3355.0
10°	3282.7	3304.4	3313.8	3312.7	3309.7
12.5°	3255.0	3278.0	3275.1	3261.5	3263.9
15°	3219.2	3243.3	3218.6	3223.3	3225.6
17.5°	3176.8	3200.4	3171.5	3180.9	3181.6
20°	3127.5	3145.1	3122.7	3130.4	3130.4
22.5°	3068.1	3080.4	3071.0	3076.3	3077.5
25°	2995.7	3000.4	3011.0	3015.7	3013.4
27.5°	2926.4	2920.5	2941.1	2952.2	2946.3
30°	2849.3	2839.9	2864.0	2882.3	2875.2
32.5°	2761.1	2755.3	2782.9	2804.6	2800.5
35°	2677.6	2661.8	2692.3	2725.3	2717.6
37.5°	2578.9	2569.5	2604.1	2638.9	2634.8
40°	2482.4	2466.6	2506.0	2547.1	2543.0
42.5°	2379.0	2360.1	2403.1	2452.5	2447.8
45°	2258.4	2254.3	2292.5	2346.6	2342.5
47.5°	2151.4	2130.8	2184.3	2236.7	2241.4
50°	2022.0	2014.4	2063.2	2126.7	2131.4
52.5°	1895.7	1890.4	1941.5	2005.6	2013.8
55°	1769.8	1756.3	1815.7	1876.2	1881.0
57.5°	1635.2	1621.1	1681.6	1747.5	1757.5
60°	1491.1	1477.6	1544.0	1605.2	1276.5
62.5°	1347.0	1337.6	1407.1	996.6	803.2
65°	1192.4	1192.4	1261.8	723.8	726.2
67.5°	1047.8	1038.4	940.8	650.3	650.3
70°	892.5	896.1	542.1	569.8	570.3
72.5°	736.7	749.7	468.1	490.3	491.5
75°	589.1	600.3	389.8	410.4	412.2
77.5°	432.8	332.8	313.4	329.3	329.9
80°	304.0	209.9	239.9	255.2	253.4
82.5°	177.5	147.0	175.8	187.0	186.4
85°	77.0	97.6	121.7	131.7	124.6
87.5°	24.7	60.6	75.8	81.7	81.1
90°	0.0	32.9	54.1	64.1	62.9
92.5°	0.0	25.8	47.1	58.8	59.4
95°	1.7	17.1	38.8	52.4	52.4
97.5°	1.2	12.3	27.6	41.1	42.3
100°	1.2	10.0	18.2	29.4	30.0
102.5°	2.9	8.2	11.1	18.8	19.4
105°	2.9	6.5	9.4	9.4	8.8



TEST NUMBER: P829570

CATALOG NUMBER: OHB-9HE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	4.7	6.5	4.7	0.6
115°	2.9	4.1	5.9	4.1	0.6
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	2.9	5.9	8.2	5.3	1.7
110°	3.5	5.3	7.0	4.7	0.6



(END OF REPORT)