

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: P830924

Luminaire Tested: **OHBL-9HE-N-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-N-UNV-L835-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

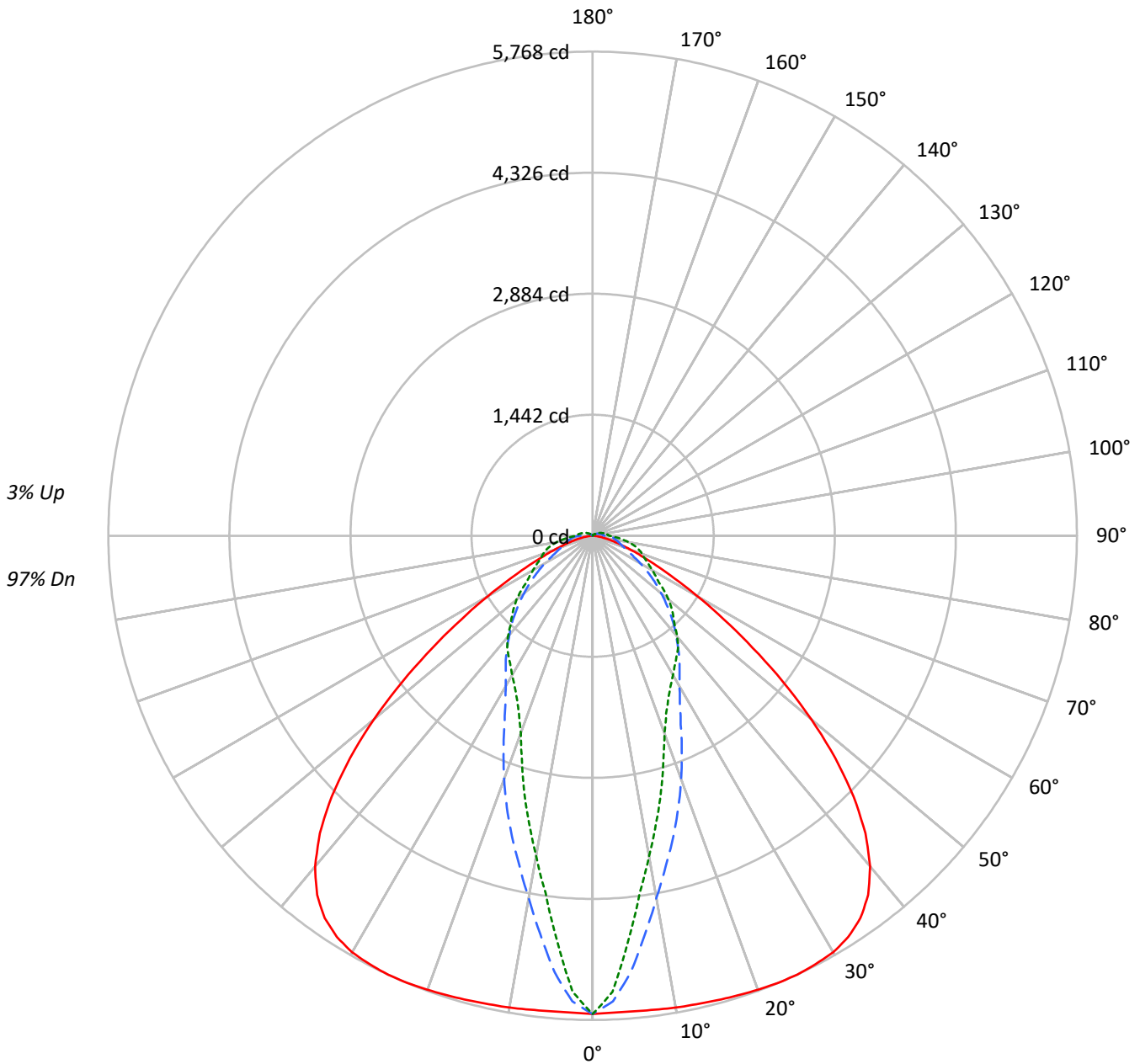
Lumens per Lamp: N/A  
Luminaire Lumens: 8409.0 lumens  
Efficiency: N/A  
Efficacy: 161.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	9731	9731	9731
5°	9712	8862	8240
10°	9821	7465	6607
15°	10013	6384	5423
20°	10294	5398	4386
25°	10650	4468	3843
30°	11018	3849	3570
35°	11248	3508	3401
40°	11055	3169	3227
45°	10170	2864	2987
50°	8581	2530	2804
55°	6520	2216	2495
60°	4569	1900	2389
65°	3074	1637	2339
70°	2099	1536	2453
75°	1456	1584	2621
80°	1002	1754	2699
85°	586	2194	2831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.6	5.7
10°-20°	1128.3	13.4
20°-30°	1414.3	16.8
30°-40°	1500.7	17.8
40°-50°	1356.9	16.1
50°-60°	983.8	11.7
60°-70°	617.4	7.3
70°-80°	408.6	4.9
80°-90°	235.4	2.8
90°-100°	114.0	1.4
100°-110°	78.7	0.9
110°-120°	48.6	0.6
120°-130°	23.5	0.3
130°-140°	10.8	0.1
140°-150°	5.9	0.1
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3022.1	35.9
0°-40°	4522.8	53.8
0°-60°	6863.5	81.6
0°-90°	8124.9	96.6
90°-120°	241.3	2.9
90°-150°	281.5	3.3
90°-180°	284.0	3.4
0°-180°	8409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5698	5698	5698	5698	5698	
5°	5686	5540	5215	4973	4848	544
15°	5730	4670	3709	3299	3149	1625
25°	5768	3611	2484	2204	2134	2664
35°	5561	2401	1802	1746	1746	3457
45°	4396	1520	1306	1338	1360	3349
55°	2327	942	852	925	958	2103
65°	832	547	494	632	703	866
75°	257	294	331	515	546	286
85°	45	122	242	337	310	54
90°	0	51	140	198	200	3
95°	2	36	124	168	176	2
105°	4	24	90	119	123	4
115°	6	17	61	76	78	6
125°	6	9	31	39	38	6
135°	5	6	14	21	21	4
145°	6	7	8	12	12	4
155°	6	8	9	9	8	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°	5697.5	5697.5	5697.5	5697.5	5697.5
2.5°	5685.6	5653.1	5551.7	5489.9	5437.8
5°	5686.2	5540.3	5214.9	4973.1	4847.8
7.5°	5694.3	5370.0	4783.8	4430.8	4293.1
10°	5706.8	5159.1	4381.5	4005.1	3876.6
12.5°	5716.0	4921.6	4027.4	3640.7	3499.8
15°	5729.5	4670.0	3709.1	3298.6	3148.9
17.5°	5742.0	4433.0	3394.6	2965.6	2799.2
20°	5754.5	4177.6	3080.0	2638.1	2500.9
22.5°	5766.4	3908.1	2773.1	2383.8	2290.0
25°	5767.5	3610.9	2483.6	2204.3	2134.3
27.5°	5753.4	3302.9	2248.8	2054.1	2010.7
30°	5729.0	3004.1	2066.6	1945.6	1914.7
32.5°	5668.3	2699.4	1925.6	1841.0	1823.1
35°	5560.9	2400.6	1802.5	1746.1	1745.5
37.5°	5391.7	2135.4	1669.1	1659.3	1671.3
40°	5141.7	1903.3	1542.7	1568.8	1568.8
42.5°	4808.2	1701.6	1428.3	1454.9	1447.8
45°	4396.1	1520.5	1306.3	1337.8	1360.5
47.5°	3918.4	1361.1	1181.6	1242.3	1273.8
50°	3398.9	1209.2	1067.7	1145.3	1181.0
52.5°	2854.5	1068.8	956.6	1045.5	1074.2
55°	2327.4	942.5	852.4	924.6	957.6
57.5°	1850.2	822.1	750.5	818.8	887.1
60°	1439.7	718.5	654.5	752.1	820.4
62.5°	1099.7	626.3	564.5	689.8	758.1
65°	832.4	546.6	493.5	632.3	702.8
67.5°	627.4	477.7	438.1	590.5	659.4
70°	471.2	411.0	393.7	564.5	626.3
72.5°	348.1	349.8	358.4	541.7	588.9
75°	257.0	294.4	331.3	514.6	545.5
77.5°	183.8	244.0	306.9	482.1	492.9
80°	127.4	199.0	281.4	439.2	430.0
82.5°	79.7	159.4	258.7	392.1	366.6
85°	45.0	122.0	242.4	337.3	309.6
87.5°	20.1	91.1	212.0	263.0	245.6
90°	0.0	51.0	140.4	197.9	199.6
92.5°	1.1	42.3	129.6	181.1	186.5
95°	2.2	35.8	123.6	168.1	175.7
97.5°	2.7	31.5	116.0	156.2	162.7
100°	3.3	28.2	106.8	143.7	149.1
102.5°	3.8	26.0	98.1	130.7	135.0
105°	4.3	23.9	90.0	119.3	122.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	18.4	67.8	85.7	88.4
115°	6.0	16.8	60.7	75.9	77.5
117.5°	6.5	14.6	53.1	66.7	67.2
120°	6.5	13.0	45.6	56.9	56.9
122.5°	6.5	10.8	38.0	47.2	46.6
125°	6.5	8.7	30.9	39.0	38.5
127.5°	6.0	7.0	24.9	32.5	32.0
130°	6.0	7.0	20.1	27.7	27.7
132.5°	5.4	6.5	16.3	23.9	23.9
135°	5.4	6.5	13.6	21.1	21.1
137.5°	5.4	7.0	11.4	18.4	18.4
140°	5.4	6.5	9.8	16.3	16.3
142.5°	6.0	6.5	8.7	14.1	14.1
145°	6.5	7.0	8.1	12.5	11.9
147.5°	6.5	7.6	8.1	10.8	10.3
150°	6.5	8.1	8.1	9.8	9.2
152.5°	6.5	8.1	8.1	9.2	8.7
155°	6.5	8.1	8.7	9.2	8.1
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°	4.3	22.2	82.4	106.8	110.6
110°	4.9	20.1	75.4	95.4	99.2



(END OF REPORT)