

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: P830640

Luminaire Tested: **OHBL-60HE-N-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830640  
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-60HE-N-UNV-L935-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

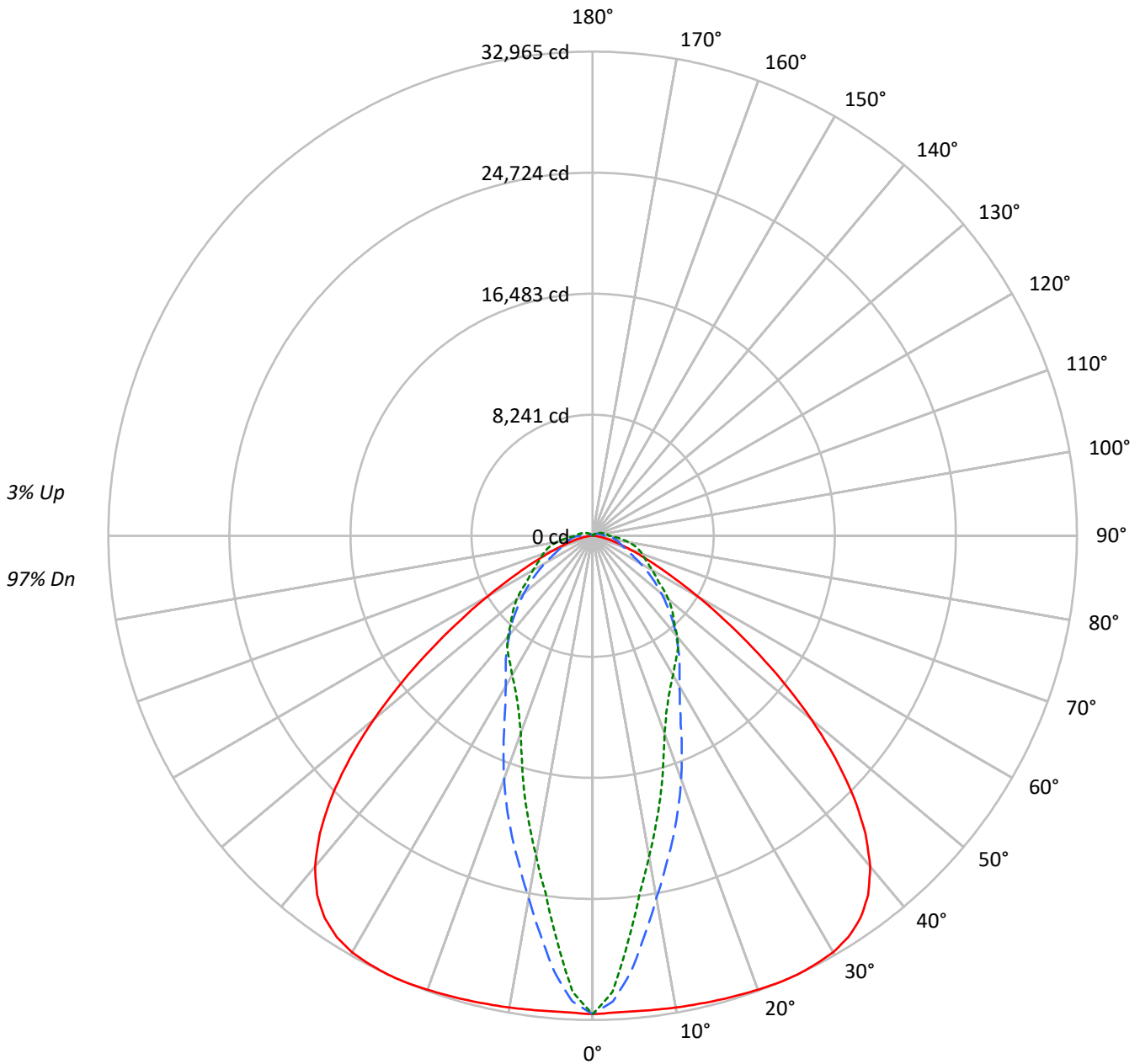
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48063.1 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 338  
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°	51501	51501	51501
5°	51396	46922	43634
10°	51976	39542	35010
15°	52991	33833	28754
20°	54480	28621	23273
25°	56364	23702	20406
30°	58312	20430	18971
35°	59526	18629	18089
40°	58507	16838	17176
45°	53824	15227	15918
50°	45411	13464	14958
55°	34506	11804	13329
60°	24181	10136	12782
65°	16266	8742	12541
70°	11109	8221	13195
75°	7708	8504	14158
80°	5307	9463	14676
85°	3103	11943	15599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2741.3	5.7
10°-20°	6448.8	13.4
20°-30°	8083.5	16.8
30°-40°	8577.5	17.8
40°-50°	7755.4	16.1
50°-60°	5623.2	11.7
60°-70°	3528.8	7.3
70°-80°	2335.3	4.9
80°-90°	1345.4	2.8
90°-100°	651.8	1.4
100°-110°	449.9	0.9
110°-120°	277.6	0.6
120°-130°	134.5	0.3
130°-140°	61.9	0.1
140°-150°	33.8	0.1
150°-160°	14.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17273.6	35.9
0°-40°	25851.0	53.8
0°-60°	39229.6	81.6
0°-90°	46439.0	96.6
90°-120°	1379.3	2.9
90°-150°	1609.4	3.3
90°-180°	1624.0	3.4
0°-180°	48063.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32565	32565	32565	32565	32565	
5°	32500	31666	29807	28424	27708	###
15°	32748	26692	21200	18854	17998	9287
25°	32965	20639	14195	12599	12199	15229
35°	31784	13721	10302	9980	9977	19759
45°	25127	8691	7466	7646	7776	19141
55°	13303	5387	4872	5284	5474	12019
65°	4758	3124	2820	3614	4017	4951
75°	1469	1683	1894	2941	3118	1638
85°	257	697	1385	1928	1770	308
90°	0	291	803	1131	1141	17
95°	12	205	707	961	1004	11
105°	25	136	514	682	700	25
115°	34	96	347	434	443	33
125°	37	50	177	223	220	32
135°	31	37	78	121	121	24
145°	37	40	46	71	68	22
155°	37	46	50	53	46	11
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°	32565.2	32565.2	32565.2	32565.2	32565.2
2.5°	32497.1	32311.1	31731.5	31378.2	31080.6
5°	32500.2	31666.4	29806.8	28424.5	27708.5
7.5°	32546.6	30693.2	27342.8	25325.1	24537.8
10°	32617.9	29487.6	25043.0	22892.1	22157.5
12.5°	32670.6	28130.0	23019.1	20809.3	20003.4
15°	32748.1	26691.9	21199.8	18853.6	17998.1
17.5°	32819.4	25337.5	19402.2	16950.5	15999.0
20°	32890.7	23877.7	17604.5	15078.5	14294.4
22.5°	32958.9	22337.3	15850.3	13624.9	13088.7
25°	32965.1	20638.8	14195.2	12599.0	12199.2
27.5°	32884.5	18878.4	12853.2	11740.5	11492.5
30°	32745.0	17170.6	11811.8	11120.6	10943.9
32.5°	32397.9	15428.7	11005.9	10522.4	10420.1
35°	31784.2	13721.0	10302.4	9980.0	9976.9
37.5°	30817.2	12205.4	9539.9	9484.1	9552.3
40°	29388.4	10878.8	8817.8	8966.5	8966.5
42.5°	27482.3	9725.9	8163.8	8315.7	8275.4
45°	25126.7	8690.7	7466.4	7646.2	7776.4
47.5°	22396.2	7779.5	6753.6	7100.7	7280.5
50°	19426.9	6911.6	6102.7	6545.9	6750.5
52.5°	16315.2	6108.9	5467.3	5975.6	6139.9
55°	13302.6	5386.7	4872.2	5284.5	5473.5
57.5°	10575.1	4698.7	4289.5	4680.1	5070.6
60°	8228.9	4106.7	3741.0	4298.8	4689.4
62.5°	6285.6	3579.8	3226.5	3942.4	4332.9
65°	4757.6	3124.2	2820.4	3613.9	4016.8
67.5°	3586.0	2730.6	2504.3	3375.2	3768.9
70°	2693.4	2349.3	2250.2	3226.5	3579.8
72.5°	1989.8	1999.1	2048.7	3096.3	3365.9
75°	1469.1	1683.0	1893.7	2941.3	3118.0
77.5°	1050.7	1394.7	1754.3	2755.4	2817.3
80°	728.4	1137.5	1608.6	2510.5	2457.8
82.5°	455.6	911.2	1478.4	2240.9	2095.2
85°	257.2	697.4	1385.4	1927.8	1769.7
87.5°	114.7	520.7	1211.9	1503.2	1404.0
90°	0.0	291.3	802.7	1131.3	1140.6
92.5°	6.2	241.8	740.8	1035.2	1066.2
95°	12.4	204.6	706.7	960.8	1004.2
97.5°	15.5	179.8	663.3	892.6	929.8
100°	18.6	161.2	610.6	821.3	852.3
102.5°	21.7	148.8	561.0	747.0	771.7
105°	24.8	136.4	514.5	681.9	700.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.0	105.4	387.4	489.7	505.2
115°	34.1	96.1	347.1	433.9	443.2
117.5°	37.2	83.7	303.7	381.2	384.3
120°	37.2	74.4	260.3	325.4	325.4
122.5°	37.2	62.0	217.0	269.6	266.5
125°	37.2	49.6	176.7	223.2	220.1
127.5°	34.1	40.3	142.6	186.0	182.9
130°	34.1	40.3	114.7	158.1	158.1
132.5°	31.0	37.2	93.0	136.4	136.4
135°	31.0	37.2	77.5	120.9	120.9
137.5°	31.0	40.3	65.1	105.4	105.4
140°	31.0	37.2	55.8	93.0	93.0
142.5°	34.1	37.2	49.6	80.6	80.6
145°	37.2	40.3	46.5	71.3	68.2
147.5°	37.2	43.4	46.5	62.0	58.9
150°	37.2	46.5	46.5	55.8	52.7
152.5°	37.2	46.5	46.5	52.7	49.6
155°	37.2	46.5	49.6	52.7	46.5
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°	24.8	127.1	471.1	610.6	632.3
110°	27.9	114.7	430.8	545.5	567.2



(END OF REPORT)