

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: P830599

Luminaire Tested: **OHBL-60HE-A-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830599  
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: OHBL-60HE-A-UNV-L830-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

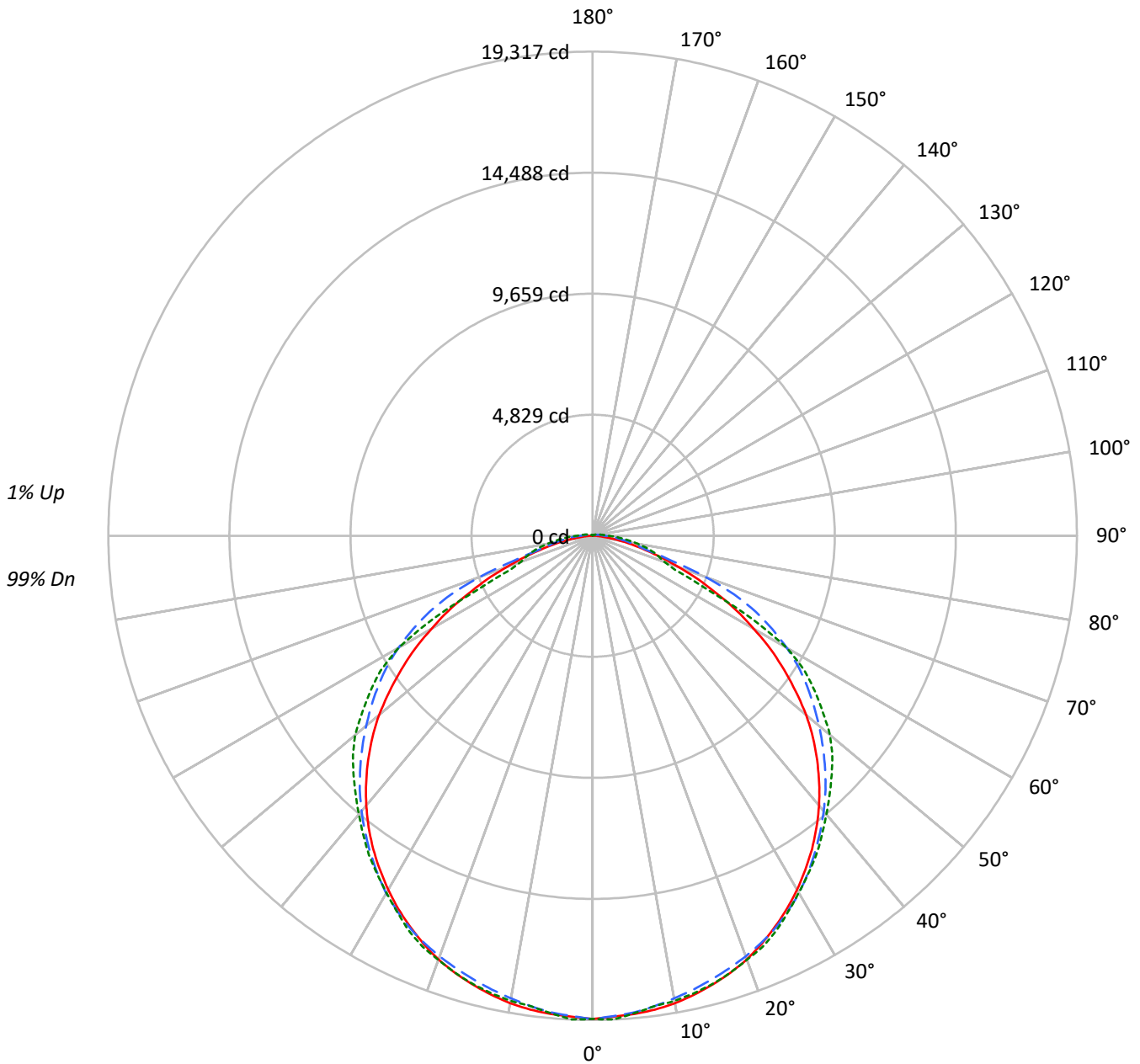
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54488.0 lumens  
Efficiency: N/A  
Efficacy: 161.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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	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°	30488	30488	30488
5°	30288	30045	30108
10°	30177	29590	29773
15°	29986	29249	29574
20°	29794	29035	29312
25°	29435	28819	29053
30°	29044	28479	28503
35°	28576	27939	28200
40°	27968	27381	27787
45°	27126	26735	27605
50°	25985	26001	27386
55°	24171	25278	26364
60°	21797	24220	24374
65°	18697	22256	15447
70°	15060	17374	11199
75°	11291	10314	11366
80°	7859	8576	10852
85°	4473	7858	10172



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1817.7	3.3
10°-20°	5212.4	9.6
20°-30°	7960.9	14.6
30°-40°	9659.4	17.7
40°-50°	10123.9	18.6
50°-60°	9173.8	16.8
60°-70°	6150.7	11.3
70°-80°	2761.9	5.1
80°-90°	1002.3	1.8
90°-100°	301.7	0.6
100°-110°	142.3	0.3
110°-120°	71.3	0.1
120°-130°	39.4	0.1
130°-140°	27.1	0.0
140°-150°	18.2	0.0
150°-160°	13.5	0.0
160°-170°	8.7	0.0
170°-180°	2.8	0.0
0°-30°	14991.1	27.5
0°-40°	24650.4	45.2
0°-60°	43948.2	80.7
0°-90°	53863.0	98.9
90°-120°	515.4	0.9
90°-150°	600.0	1.1
90°-180°	625.0	1.1
0°-180°	54488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19278	19278	19278	19278	19278	
5°	19152	19219	19086	19144	19119	###
15°	18531	18458	18327	18489	18511	5232
25°	17215	17140	17260	17419	17368	7935
35°	15258	15295	15451	15615	15554	9537
45°	12663	12870	13109	13444	13486	9755
55°	9318	9767	10433	10852	10826	8318
65°	5469	6325	7180	6060	4948	5449
75°	2152	3122	2297	2350	2503	2352
85°	371	711	912	1101	1154	452
90°	3	237	471	591	619	22
95°	3	148	323	393	404	4
105°	11	64	159	192	201	13
115°	22	33	81	103	109	21
125°	20	22	50	58	61	19
135°	25	28	31	45	47	20
145°	25	28	28	31	33	17
155°	28	31	31	31	28	13
165°	31	31	31	31	31	9
175°	31	31	28	25	25	3
180°	28	28	28	28	28	



TEST NUMBER: P830599

CATALOG NUMBER: OHBL-60HE-A-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19277.9	19277.9	19277.9	19277.9	19277.9
2.5°	19199.9	19280.7	19180.3	19289.1	19316.9
5°	19152.5	19219.4	19085.6	19144.1	19119.0
7.5°	19066.1	19088.4	18929.5	18976.9	18926.7
10°	18937.8	18926.7	18739.9	18831.9	18843.1
12.5°	18748.3	18714.8	18547.6	18687.0	18689.8
15°	18530.9	18458.4	18327.4	18489.1	18511.4
17.5°	18280.0	18185.2	18098.8	18307.9	18274.4
20°	17987.3	17875.8	17859.1	18087.7	18004.0
22.5°	17625.0	17538.5	17577.6	17795.0	17742.0
25°	17215.2	17139.9	17259.8	17418.7	17368.5
27.5°	16783.1	16738.5	16875.1	16997.8	16900.2
30°	16309.3	16284.2	16465.4	16565.7	16443.1
32.5°	15793.6	15802.0	15974.8	16111.4	15997.1
35°	15258.4	15294.7	15450.8	15615.2	15553.9
37.5°	14670.3	14751.1	14907.2	15094.0	15029.8
40°	14048.7	14165.7	14338.6	14564.3	14505.8
42.5°	13376.9	13524.6	13747.6	13998.5	13992.9
45°	12663.3	12869.6	13109.3	13443.8	13485.6
47.5°	11921.9	12153.2	12457.0	12903.0	12967.1
50°	11116.3	11406.2	11785.3	12320.5	12359.5
52.5°	10218.7	10614.6	11116.3	11629.2	11581.8
55°	9318.4	9767.2	10433.4	10851.5	10826.4
57.5°	8420.8	8925.4	9733.7	10032.0	10029.2
60°	7417.4	8055.7	8939.3	9165.1	8942.1
62.5°	6489.1	7174.9	8091.9	7927.5	7163.7
65°	5468.9	6324.7	7180.4	6059.9	4947.7
67.5°	4563.0	5455.0	6098.9	4150.5	3554.0
70°	3651.5	4635.5	4755.4	3080.1	3038.3
72.5°	2843.2	3891.3	3280.8	2636.9	2770.7
75°	2151.9	3121.9	2296.8	2349.8	2503.1
77.5°	1569.3	2397.2	1786.7	2059.9	2185.3
80°	1078.7	1697.5	1457.8	1731.0	1817.4
82.5°	677.3	1120.5	1167.9	1393.7	1482.9
85°	370.7	710.8	911.5	1101.0	1154.0
87.5°	153.3	429.3	696.9	850.2	894.8
90°	2.8	236.9	471.1	590.9	618.8
92.5°	2.8	181.2	384.7	476.7	496.2
95°	2.8	147.7	323.3	393.0	404.2
97.5°	5.6	117.1	270.4	326.1	337.3
100°	8.4	97.6	225.8	273.2	281.5
102.5°	11.1	78.0	189.5	228.6	236.9
105°	11.1	64.1	158.9	192.3	200.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.5	39.0	94.8	119.9	125.4
115°	22.3	33.4	80.8	103.1	108.7
117.5°	22.3	27.9	69.7	86.4	92.0
120°	22.3	25.1	61.3	75.3	78.0
122.5°	22.3	22.3	53.0	66.9	69.7
125°	19.5	22.3	50.2	58.5	61.3
127.5°	22.3	22.3	44.6	53.0	55.7
130°	22.3	25.1	39.0	50.2	50.2
132.5°	25.1	27.9	36.2	47.4	47.4
135°	25.1	27.9	30.7	44.6	47.4
137.5°	27.9	27.9	27.9	41.8	44.6
140°	27.9	27.9	25.1	36.2	39.0
142.5°	25.1	27.9	25.1	33.4	36.2
145°	25.1	27.9	27.9	30.7	33.4
147.5°	27.9	27.9	27.9	27.9	30.7
150°	27.9	27.9	27.9	27.9	27.9
152.5°	27.9	27.9	27.9	27.9	27.9
155°	27.9	30.7	30.7	30.7	27.9
157.5°	27.9	30.7	30.7	30.7	30.7
160°	27.9	30.7	30.7	30.7	30.7
162.5°	30.7	30.7	30.7	30.7	30.7
165°	30.7	30.7	30.7	30.7	30.7
167.5°	30.7	33.4	30.7	30.7	30.7
170°	30.7	30.7	30.7	27.9	27.9
172.5°	30.7	30.7	30.7	27.9	27.9
175°	30.7	30.7	27.9	25.1	25.1
177.5°	33.4	30.7	27.9	25.1	22.3
180°	27.9	27.9	27.9	27.9	27.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	13.9	53.0	136.6	164.5	<i>170.0</i>
110°	16.7	44.6	114.3	139.4	<i>144.9</i>



(END OF REPORT)