

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: P830602

Luminaire Tested: **OHBL-60HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830602  
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-L850-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

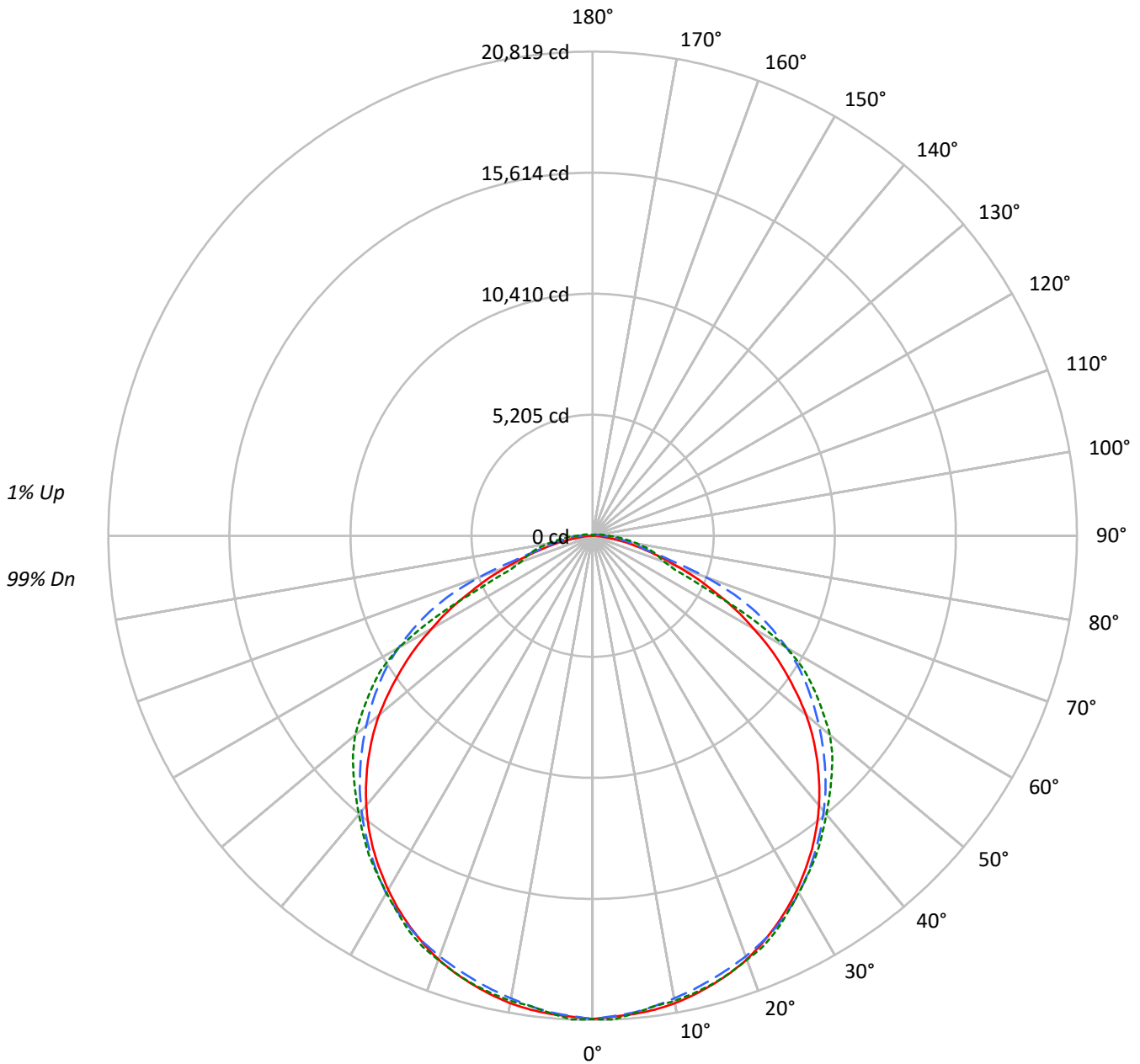
Lumens per Lamp: N/A  
Luminaire Lumens: 58724.9 lumens  
Efficiency: N/A  
Efficacy: 173.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	32858	32858	32858
5°	32643	32381	32449
10°	32524	31890	32089
15°	32317	31524	31874
20°	32111	31293	31591
25°	31724	31060	31312
30°	31302	30693	30720
35°	30798	30111	30393
40°	30143	29510	29948
45°	29235	28814	29751
50°	28005	28022	29516
55°	26051	27243	28414
60°	23491	26103	26269
65°	20151	23987	16648
70°	16231	18725	12070
75°	12169	11116	12250
80°	8470	9243	11696
85°	4821	8469	10963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1959.1	3.3
10°-20°	5617.7	9.6
20°-30°	8580.0	14.6
30°-40°	10410.5	17.7
40°-50°	10911.2	18.6
50°-60°	9887.2	16.8
60°-70°	6629.0	11.3
70°-80°	2976.7	5.1
80°-90°	1080.2	1.8
90°-100°	325.1	0.6
100°-110°	153.4	0.3
110°-120°	76.9	0.1
120°-130°	42.4	0.1
130°-140°	29.2	0.0
140°-150°	19.6	0.0
150°-160°	14.6	0.0
160°-170°	9.4	0.0
170°-180°	3.0	0.0
0°-30°	16156.8	27.5
0°-40°	26567.3	45.2
0°-60°	47365.6	80.7
0°-90°	58051.4	98.9
90°-120°	555.4	0.9
90°-150°	646.6	1.1
90°-180°	673.0	1.1
0°-180°	58724.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20777	20777	20777	20777	20777	
5°	20642	20714	20570	20633	20606	###
15°	19972	19894	19752	19927	19951	5639
25°	18554	18473	18602	18773	18719	8552
35°	16445	16484	16652	16830	16763	10279
45°	13648	13870	14129	14489	14534	10514
55°	10043	10527	11245	11695	11668	8965
65°	5894	6816	7739	6531	5332	5873
75°	2319	3365	2475	2532	2698	2535
85°	400	766	982	1187	1244	488
90°	3	255	508	637	667	24
95°	3	159	348	424	436	4
105°	12	69	171	207	216	14
115°	24	36	87	111	117	22
125°	21	24	54	63	66	21
135°	27	30	33	48	51	21
145°	27	30	30	33	36	18
155°	30	33	33	33	30	14
165°	33	33	33	33	33	9
175°	33	33	30	27	27	3
180°	30	30	30	30	30	



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CATALOG NUMBER: OHBL-60HE-A-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20777.0	20777.0	20777.0	20777.0	20777.0
2.5°	20692.8	20780.0	20671.8	20789.0	20819.0
5°	20641.8	20713.9	20569.7	20632.8	20605.7
7.5°	20548.6	20572.7	20401.4	20452.5	20398.4
10°	20410.4	20398.4	20197.1	20296.3	20308.3
12.5°	20206.2	20170.1	19989.9	20140.1	20143.1
15°	19971.8	19893.7	19752.5	19926.8	19950.8
17.5°	19701.5	19599.3	19506.2	19731.5	19695.4
20°	19386.0	19265.8	19247.8	19494.2	19404.0
22.5°	18995.5	18902.3	18944.4	19178.7	19121.6
25°	18553.9	18472.7	18601.9	18773.2	18719.1
27.5°	18088.2	18040.1	18187.3	18319.5	18214.4
30°	17577.5	17550.5	17745.7	17853.9	17721.7
32.5°	17021.7	17030.7	17217.0	17364.2	17241.0
35°	16444.9	16484.0	16652.2	16829.5	16763.4
37.5°	15811.0	15898.2	16066.4	16267.7	16198.6
40°	15141.1	15267.3	15453.5	15696.9	15633.8
42.5°	14417.1	14576.3	14816.6	15087.0	15081.0
45°	13648.0	13870.3	14128.7	14489.2	14534.3
47.5°	12848.9	13098.3	13425.7	13906.4	13975.5
50°	11980.7	12293.1	12701.7	13278.5	13320.6
52.5°	11013.3	11439.9	11980.7	12533.5	12482.4
55°	10043.0	10526.7	11244.7	11695.3	11668.3
57.5°	9075.6	9619.4	10490.6	10812.1	10809.1
60°	7994.1	8682.1	9634.4	9877.8	9637.4
62.5°	6993.7	7732.8	8721.2	8543.9	7720.8
65°	5894.2	6816.5	7738.8	6531.1	5332.4
67.5°	4917.9	5879.2	6573.2	4473.2	3830.3
70°	3935.5	4996.0	5125.1	3319.6	3274.6
72.5°	3064.3	4193.8	3535.9	2842.0	2986.2
75°	2319.2	3364.7	2475.4	2532.5	2697.8
77.5°	1691.4	2583.6	1925.7	2220.1	2355.3
80°	1162.6	1829.5	1571.2	1865.6	1958.7
82.5°	730.0	1207.7	1258.8	1502.1	1598.2
85°	399.6	766.1	982.4	1186.7	1243.7
87.5°	165.2	462.6	751.0	916.3	964.3
90°	3.0	255.4	507.7	636.9	666.9
92.5°	3.0	195.3	414.6	513.7	534.7
95°	3.0	159.2	348.5	423.6	435.6
97.5°	6.0	126.2	291.4	351.5	363.5
100°	9.0	105.1	243.3	294.4	303.4
102.5°	12.0	84.1	204.3	246.3	255.4
105°	12.0	69.1	171.2	207.3	216.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.0	42.1	102.1	129.2	135.2
115°	24.0	36.1	87.1	111.2	117.2
117.5°	24.0	30.0	75.1	93.1	99.1
120°	24.0	27.0	66.1	81.1	84.1
122.5°	24.0	24.0	57.1	72.1	75.1
125°	21.0	24.0	54.1	63.1	66.1
127.5°	24.0	24.0	48.1	57.1	60.1
130°	24.0	27.0	42.1	54.1	54.1
132.5°	27.0	30.0	39.1	51.1	51.1
135°	27.0	30.0	33.0	48.1	51.1
137.5°	30.0	30.0	30.0	45.1	48.1
140°	30.0	30.0	27.0	39.1	42.1
142.5°	27.0	30.0	27.0	36.1	39.1
145°	27.0	30.0	30.0	33.0	36.1
147.5°	30.0	30.0	30.0	30.0	33.0
150°	30.0	30.0	30.0	30.0	30.0
152.5°	30.0	30.0	30.0	30.0	30.0
155°	30.0	33.0	33.0	33.0	30.0
157.5°	30.0	33.0	33.0	33.0	33.0
160°	30.0	33.0	33.0	33.0	33.0
162.5°	33.0	33.0	33.0	33.0	33.0
165°	33.0	33.0	33.0	33.0	33.0
167.5°	33.0	36.1	33.0	33.0	33.0
170°	33.0	33.0	33.0	30.0	30.0
172.5°	33.0	33.0	33.0	30.0	30.0
175°	33.0	33.0	30.0	27.0	27.0
177.5°	36.1	33.0	30.0	27.0	24.0
180°	30.0	30.0	30.0	30.0	30.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	15.0	57.1	147.2	177.2	183.3
110°	18.0	48.1	123.2	150.2	156.2



(END OF REPORT)