

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: P830614

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830614  
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-MCL-UNV-L850-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

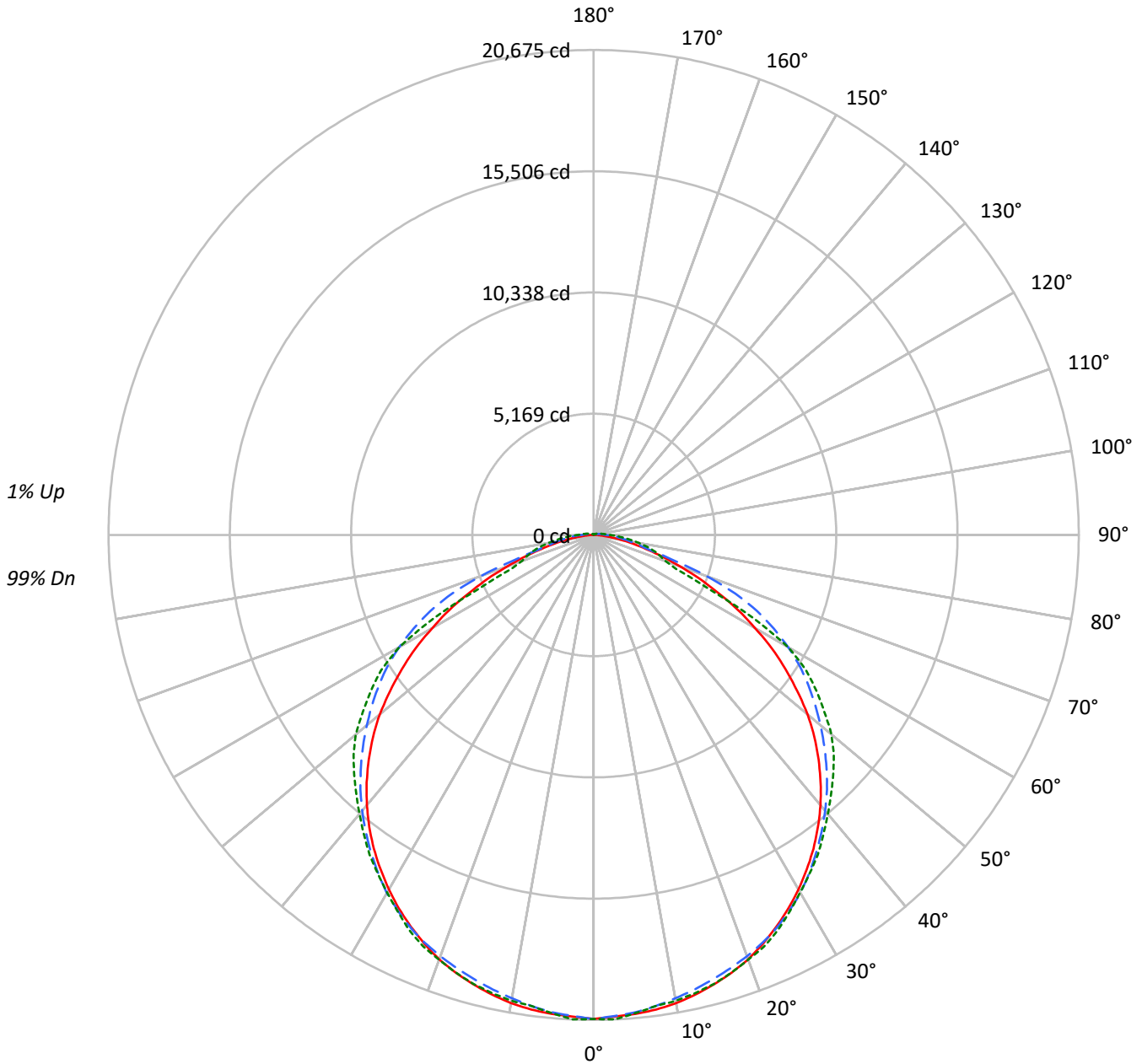
Lumens per Lamp: N/A  
Luminaire Lumens: 58320.0 lumens  
Efficiency: N/A  
Efficacy: 172.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	32632	32632	32632
5°	32418	32158	32225
10°	32299	31671	31867
15°	32095	31306	31654
20°	31889	31077	31374
25°	31505	30845	31096
30°	31086	30481	30508
35°	30586	29904	30183
40°	29935	29306	29742
45°	29034	28616	29546
50°	27812	27829	29312
55°	25871	27055	28218
60°	23329	25923	26088
65°	20013	23822	16533
70°	16119	18596	11987
75°	12085	11039	12166
80°	8412	9179	11615
85°	4788	8411	10888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1945.6	3.3
10°-20°	5579.0	9.6
20°-30°	8520.8	14.6
30°-40°	10338.7	17.7
40°-50°	10835.9	18.6
50°-60°	9819.0	16.8
60°-70°	6583.2	11.3
70°-80°	2956.2	5.1
80°-90°	1072.8	1.8
90°-100°	322.9	0.6
100°-110°	152.4	0.3
110°-120°	76.4	0.1
120°-130°	42.1	0.1
130°-140°	29.0	0.0
140°-150°	19.5	0.0
150°-160°	14.5	0.0
160°-170°	9.3	0.0
170°-180°	3.0	0.0
0°-30°	16045.3	27.5
0°-40°	26384.0	45.2
0°-60°	47038.9	80.7
0°-90°	57651.1	98.9
90°-120°	551.6	0.9
90°-150°	642.2	1.1
90°-180°	669.0	1.1
0°-180°	58320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20634	20634	20634	20634	20634	
5°	20499	20571	20428	20490	20464	###
15°	19834	19756	19616	19789	19813	5600
25°	18426	18345	18474	18644	18590	8493
35°	16332	16370	16537	16713	16648	10208
45°	13554	13775	14031	14389	14434	10441
55°	9974	10454	11167	11615	11588	8903
65°	5854	6770	7685	6486	5296	5832
75°	2303	3342	2458	2515	2679	2517
85°	397	761	976	1178	1235	484
90°	3	254	504	632	662	24
95°	3	158	346	421	433	4
105°	12	69	170	206	215	14
115°	24	36	86	110	116	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	



TEST NUMBER: P830614

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20633.7	20633.7	20633.7	20633.7	20633.7
2.5°	20550.1	20636.6	20529.2	20645.6	20675.4
5°	20499.4	20571.0	20427.8	20490.5	20463.6
7.5°	20406.9	20430.8	20260.7	20311.5	20257.7
10°	20269.7	20257.7	20057.9	20156.3	20168.2
12.5°	20066.8	20031.0	19852.0	20001.2	20004.2
15°	19834.1	19756.5	19616.3	19789.3	19813.2
17.5°	19565.6	19464.1	19371.7	19595.4	19559.6
20°	19252.3	19133.0	19115.1	19359.7	19270.2
22.5°	18864.5	18772.0	18813.7	19046.5	18989.8
25°	18425.9	18345.3	18473.6	18643.7	18590.0
27.5°	17963.5	17915.7	18061.9	18193.2	18088.8
30°	17456.3	17429.4	17623.3	17730.8	17599.5
32.5°	16904.3	16913.3	17098.3	17244.4	17122.1
35°	16331.5	16370.3	16537.4	16713.4	16647.8
37.5°	15702.0	15788.5	15955.6	16155.5	16086.9
40°	15036.7	15162.0	15347.0	15588.6	15526.0
42.5°	14317.7	14475.8	14714.5	14983.0	14977.0
45°	13553.9	13774.7	14031.3	14389.3	14434.0
47.5°	12760.3	13007.9	13333.1	13810.5	13879.1
50°	11898.1	12208.4	12614.1	13186.9	13228.7
52.5°	10937.4	11361.0	11898.1	12447.0	12396.3
55°	9973.7	10454.1	11167.1	11614.6	11587.8
57.5°	9013.1	9553.1	10418.3	10737.5	10734.5
60°	7939.0	8622.2	9568.0	9809.6	9571.0
62.5°	6945.5	7679.4	8661.0	8485.0	7667.5
65°	5853.6	6769.5	7685.4	6486.1	5295.7
67.5°	4883.9	5838.6	6527.8	4442.4	3803.9
70°	3908.3	4961.5	5089.8	3296.7	3252.0
72.5°	3043.1	4164.9	3511.5	2822.4	2965.6
75°	2303.2	3341.5	2458.4	2515.1	2679.2
77.5°	1679.7	2565.8	1912.4	2204.8	2339.0
80°	1154.6	1816.9	1560.4	1852.7	1945.2
82.5°	725.0	1199.4	1250.1	1491.7	1587.2
85°	396.8	760.8	975.6	1178.5	1235.2
87.5°	164.1	459.5	745.9	910.0	957.7
90°	3.0	253.6	504.2	632.5	662.3
92.5°	3.0	193.9	411.7	510.2	531.1
95°	3.0	158.1	346.1	420.7	432.6
97.5°	6.0	125.3	289.4	349.1	361.0
100°	9.0	104.4	241.7	292.4	301.3
102.5°	11.9	83.5	202.9	244.6	253.6
105°	11.9	68.6	170.1	205.9	214.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.9	41.8	101.4	128.3	134.3
115°	23.9	35.8	86.5	110.4	116.4
117.5°	23.9	29.8	74.6	92.5	98.5
120°	23.9	26.9	65.6	80.6	83.5
122.5°	23.9	23.9	56.7	71.6	74.6
125°	20.9	23.9	53.7	62.7	65.6
127.5°	23.9	23.9	47.7	56.7	59.7
130°	23.9	26.9	41.8	53.7	53.7
132.5°	26.9	29.8	38.8	50.7	50.7
135°	26.9	29.8	32.8	47.7	50.7
137.5°	29.8	29.8	29.8	44.8	47.7
140°	29.8	29.8	26.9	38.8	41.8
142.5°	26.9	29.8	26.9	35.8	38.8
145°	26.9	29.8	29.8	32.8	35.8
147.5°	29.8	29.8	29.8	29.8	32.8
150°	29.8	29.8	29.8	29.8	29.8
152.5°	29.8	29.8	29.8	29.8	29.8
155°	29.8	32.8	32.8	32.8	29.8
157.5°	29.8	32.8	32.8	32.8	32.8
160°	29.8	32.8	32.8	32.8	32.8
162.5°	32.8	32.8	32.8	32.8	32.8
165°	32.8	32.8	32.8	32.8	32.8
167.5°	32.8	35.8	32.8	32.8	32.8
170°	32.8	32.8	32.8	29.8	29.8
172.5°	32.8	32.8	32.8	29.8	29.8
175°	32.8	32.8	29.8	26.9	26.9
177.5°	35.8	32.8	29.8	26.9	23.9
180°	29.8	29.8	29.8	29.8	29.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	14.9	56.7	146.2	176.0	<i>182.0</i>
110°	17.9	47.7	122.3	149.2	<i>155.1</i>



(END OF REPORT)