

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: P830170

Luminaire Tested: **OHBL-30HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830170  
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-30HE-A-UNV-L850-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

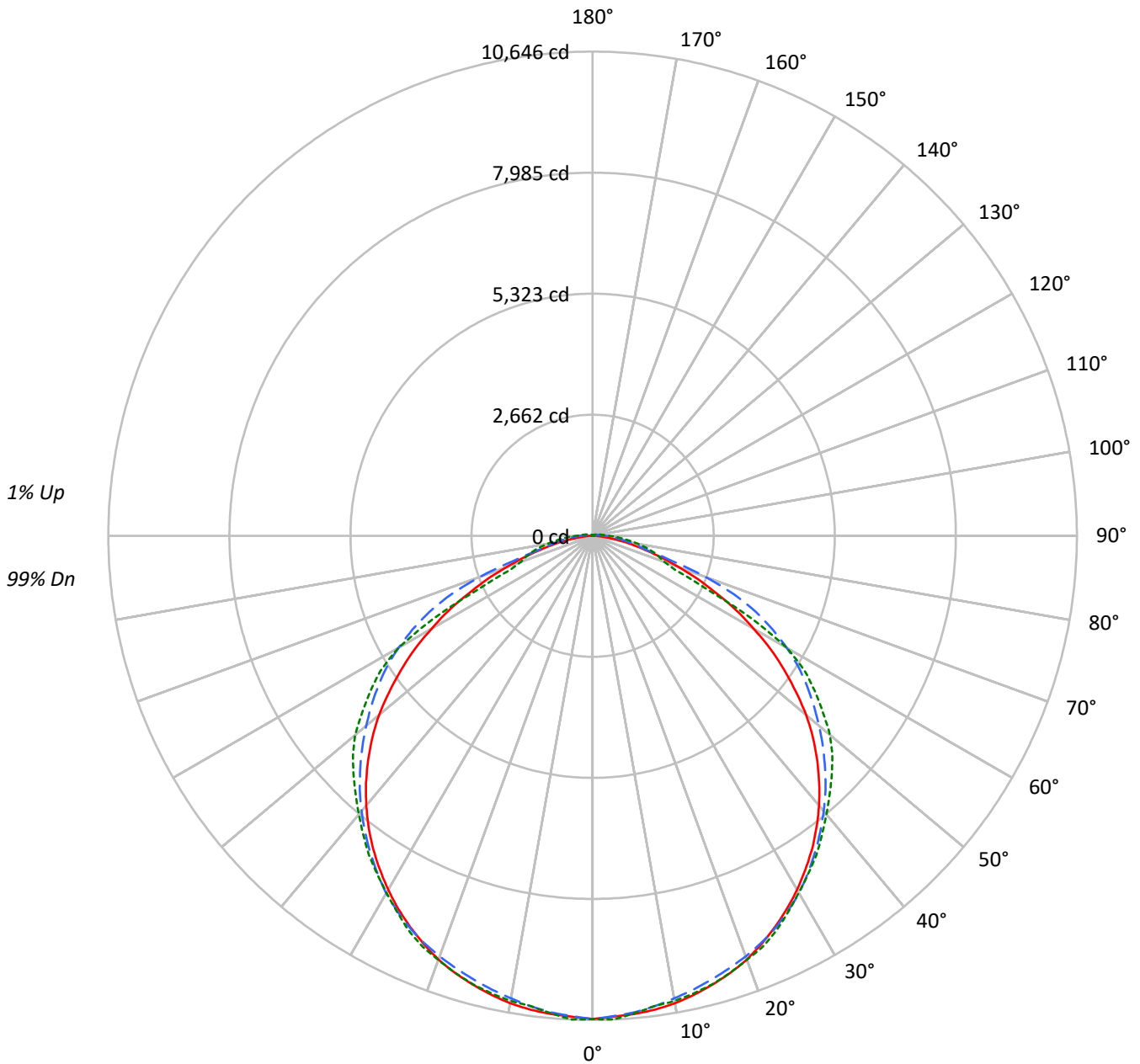
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30031.0 lumens  
Efficiency: N/A  
Efficacy: 183.3 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): 163.8  
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°	16803	16803	16803
5°	16693	16559	16594
10°	16632	16308	16409
15°	16527	16121	16300
20°	16421	16002	16155
25°	16223	15883	16012
30°	16007	15696	15710
35°	15750	15398	15542
40°	15415	15091	15315
45°	14951	14735	15214
50°	14321	14330	15094
55°	13322	13932	14530
60°	12013	13349	13433
65°	10305	12267	8513
70°	8300	9576	6173
75°	6223	5684	6265
80°	4331	4727	5981
85°	2465	4331	5606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1001.8	3.3
10°-20°	2872.8	9.6
20°-30°	4387.7	14.6
30°-40°	5323.8	17.7
40°-50°	5579.8	18.6
50°-60°	5056.1	16.8
60°-70°	3389.9	11.3
70°-80°	1522.2	5.1
80°-90°	552.4	1.8
90°-100°	166.3	0.6
100°-110°	78.5	0.3
110°-120°	39.3	0.1
120°-130°	21.7	0.1
130°-140°	14.9	0.0
140°-150°	10.0	0.0
150°-160°	7.5	0.0
160°-170°	4.8	0.0
170°-180°	1.5	0.0
0°-30°	8262.3	27.5
0°-40°	13586.1	45.2
0°-60°	24222.0	80.7
0°-90°	29686.5	98.9
90°-120°	284.0	0.9
90°-150°	330.7	1.1
90°-180°	344.0	1.1
0°-180°	30031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10625	10625	10625	10625	10625	
5°	10556	10593	10519	10551	10537	###
15°	10213	10173	10101	10190	10202	2884
25°	9488	9447	9513	9600	9573	4373
35°	8410	8430	8516	8606	8572	5256
45°	6979	7093	7225	7410	7433	5377
55°	5136	5383	5750	5981	5967	4584
65°	3014	3486	3958	3340	2727	3003
75°	1186	1721	1266	1295	1380	1296
85°	204	392	502	607	636	249
90°	2	131	260	326	341	12
95°	2	81	178	217	223	2
105°	6	35	88	106	111	7
115°	12	18	45	57	60	11
125°	11	12	28	32	34	11
135°	14	15	17	25	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10625.0	10625.0	10625.0	10625.0	10625.0
2.5°	10582.0	10626.5	10571.2	10631.1	10646.5
5°	10555.9	10592.7	10519.0	10551.3	10537.4
7.5°	10508.2	10520.5	10433.0	10459.1	10431.4
10°	10437.6	10431.4	10328.5	10379.2	10385.3
12.5°	10333.1	10314.7	10222.5	10299.3	10300.8
15°	10213.3	10173.3	10101.1	10190.2	10202.5
17.5°	10075.0	10022.8	9975.1	10090.4	10071.9
20°	9913.7	9852.2	9843.0	9969.0	9922.9
22.5°	9714.0	9666.3	9687.9	9807.7	9778.5
25°	9488.1	9446.7	9512.7	9600.3	9572.6
27.5°	9250.0	9225.4	9300.7	9368.3	9314.5
30°	8988.8	8975.0	9074.9	9130.2	9062.6
32.5°	8704.6	8709.2	8804.5	8879.8	8816.8
35°	8409.7	8429.6	8515.7	8606.3	8572.5
37.5°	8085.5	8130.1	8216.1	8319.0	8283.7
40°	7742.9	7807.4	7902.7	8027.1	7994.9
42.5°	7372.7	7454.1	7577.0	7715.3	7712.2
45°	6979.4	7093.1	7225.2	7409.5	7432.6
47.5°	6570.7	6698.2	6865.7	7111.5	7146.8
50°	6126.7	6286.5	6495.4	6790.4	6811.9
52.5°	5632.0	5850.2	6126.7	6409.4	6383.3
55°	5135.8	5383.2	5750.3	5980.8	5967.0
57.5°	4641.1	4919.2	5364.7	5529.1	5527.6
60°	4088.1	4439.9	4926.9	5051.3	4928.4
62.5°	3576.5	3954.4	4459.9	4369.2	3948.3
65°	3014.2	3485.8	3957.5	3339.9	2726.9
67.5°	2514.9	3006.5	3361.4	2287.5	1958.8
70°	2012.5	2554.9	2620.9	1697.6	1674.6
72.5°	1567.0	2144.7	1808.2	1453.3	1527.1
75°	1186.0	1720.6	1265.9	1295.1	1379.6
77.5°	864.9	1321.2	984.8	1135.3	1204.5
80°	594.5	935.6	803.5	954.0	1001.7
82.5°	373.3	617.6	643.7	768.1	817.3
85°	204.3	391.8	502.4	606.8	636.0
87.5°	84.5	236.6	384.1	468.6	493.1
90°	1.5	130.6	259.6	325.7	341.1
92.5°	1.5	99.9	212.0	262.7	273.5
95°	1.5	81.4	178.2	216.6	222.8
97.5°	3.1	64.5	149.0	179.7	185.9
100°	4.6	53.8	124.4	150.6	155.2
102.5°	6.1	43.0	104.5	126.0	130.6
105°	6.1	35.3	87.6	106.0	110.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	21.5	52.2	66.1	69.1
115°	12.3	18.4	44.6	56.8	59.9
117.5°	12.3	15.4	38.4	47.6	50.7
120°	12.3	13.8	33.8	41.5	43.0
122.5°	12.3	12.3	29.2	36.9	38.4
125°	10.8	12.3	27.7	32.3	33.8
127.5°	12.3	12.3	24.6	29.2	30.7
130°	12.3	13.8	21.5	27.7	27.7
132.5°	13.8	15.4	20.0	26.1	26.1
135°	13.8	15.4	16.9	24.6	26.1
137.5°	15.4	15.4	15.4	23.0	24.6
140°	15.4	15.4	13.8	20.0	21.5
142.5°	13.8	15.4	13.8	18.4	20.0
145°	13.8	15.4	15.4	16.9	18.4
147.5°	15.4	15.4	15.4	15.4	16.9
150°	15.4	15.4	15.4	15.4	15.4
152.5°	15.4	15.4	15.4	15.4	15.4
155°	15.4	16.9	16.9	16.9	15.4
157.5°	15.4	16.9	16.9	16.9	16.9
160°	15.4	16.9	16.9	16.9	16.9
162.5°	16.9	16.9	16.9	16.9	16.9
165°	16.9	16.9	16.9	16.9	16.9
167.5°	16.9	18.4	16.9	16.9	16.9
170°	16.9	16.9	16.9	15.4	15.4
172.5°	16.9	16.9	16.9	15.4	15.4
175°	16.9	16.9	15.4	13.8	13.8
177.5°	18.4	16.9	15.4	13.8	12.3
180°	15.4	15.4	15.4	15.4	15.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	7.7	29.2	75.3	90.6	93.7
110°	9.2	24.6	63.0	76.8	79.9



(END OF REPORT)