

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: P830181

Luminaire Tested: **OHBL-30HE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830181  
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-MCL-UNV-L840-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

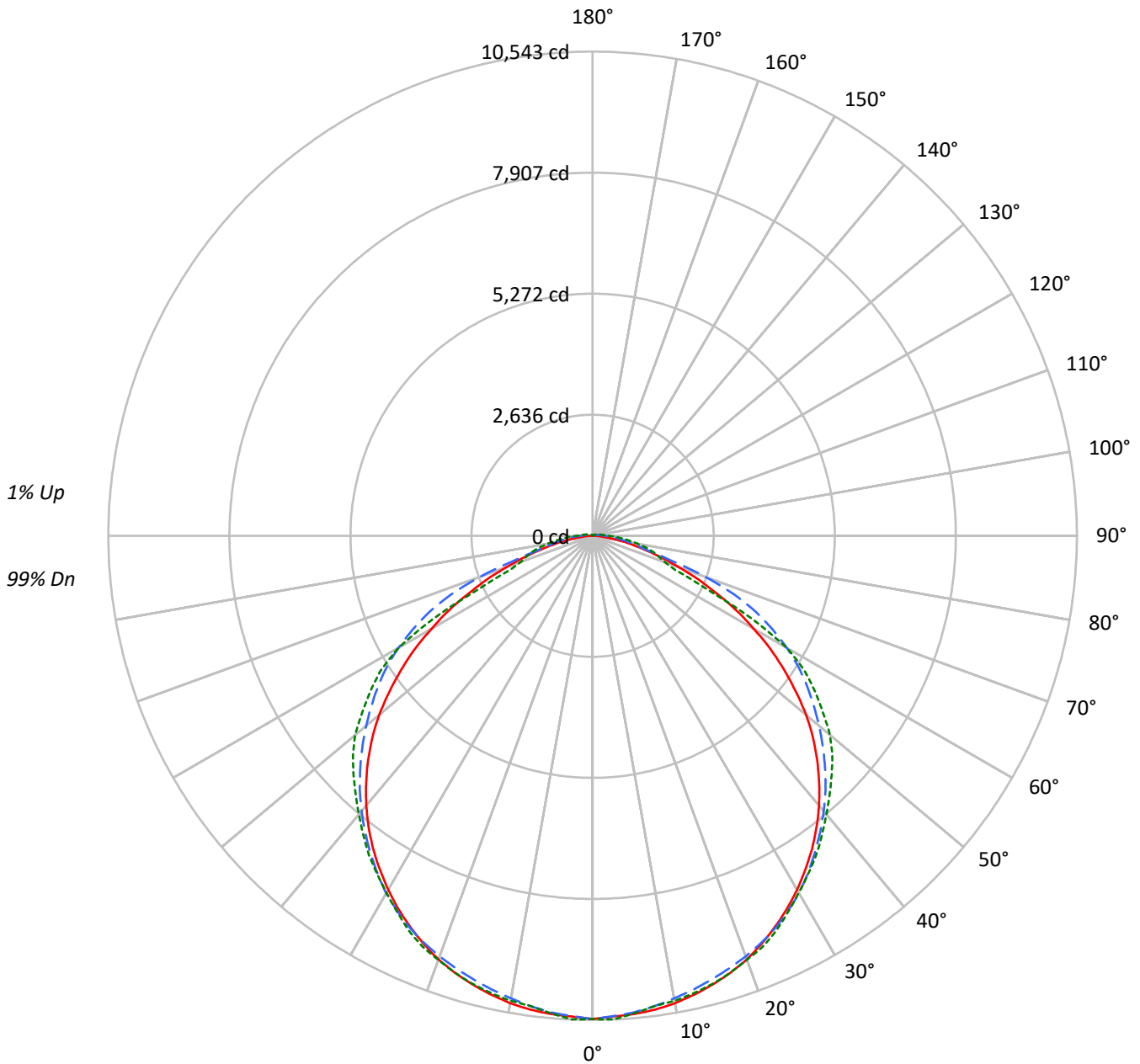
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29738.0 lumens  
Efficiency: N/A  
Efficacy: 181.6 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°	16639	16639	16639
5°	16530	16398	16432
10°	16470	16149	16249
15°	16365	15963	16141
20°	16261	15846	15998
25°	16065	15728	15856
30°	15851	15543	15556
35°	15596	15248	15391
40°	15264	14944	15166
45°	14805	14591	15066
50°	14182	14190	14947
55°	13192	13796	14389
60°	11896	13218	13302
65°	10205	12147	8430
70°	8219	9482	6112
75°	6162	5629	6203
80°	4289	4680	5923
85°	2441	4289	5551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	992.1	3.3
10°-20°	2844.8	9.6
20°-30°	4344.9	14.6
30°-40°	5271.8	17.7
40°-50°	5525.4	18.6
50°-60°	5006.8	16.8
60°-70°	3356.9	11.3
70°-80°	1507.4	5.1
80°-90°	547.0	1.8
90°-100°	164.6	0.6
100°-110°	77.7	0.3
110°-120°	38.9	0.1
120°-130°	21.5	0.1
130°-140°	14.8	0.0
140°-150°	9.9	0.0
150°-160°	7.4	0.0
160°-170°	4.7	0.0
170°-180°	1.5	0.0
0°-30°	8181.7	27.5
0°-40°	13453.5	45.2
0°-60°	23985.7	80.7
0°-90°	29396.9	98.9
90°-120°	281.3	0.9
90°-150°	327.4	1.1
90°-180°	341.0	1.1
0°-180°	29738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10521	10521	10521	10521	10521	
5°	10453	10489	10416	10448	10435	994
15°	10114	10074	10003	10091	10103	2855
25°	9396	9354	9420	9507	9479	4331
35°	8328	8347	8433	8522	8489	5205
45°	6911	7024	7155	7337	7360	5324
55°	5086	5331	5694	5922	5909	4540
65°	2985	3452	3919	3307	2700	2974
75°	1174	1704	1254	1282	1366	1283
85°	202	388	498	601	630	247
90°	2	129	257	322	338	12
95°	2	81	176	214	221	2
105°	6	35	87	105	110	7
115°	12	18	44	56	59	11
125°	11	12	27	32	34	11
135°	14	15	17	24	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	



TEST NUMBER: P830181

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10521.3	10521.3	10521.3	10521.3	10521.3
2.5°	10478.7	10522.9	10468.1	10527.4	10542.6
5°	10452.9	10489.4	10416.4	10448.3	10434.6
7.5°	10405.7	10417.9	10331.2	10357.0	10329.6
10°	10335.7	10329.6	10227.7	10277.9	10284.0
12.5°	10232.3	10214.0	10122.7	10198.8	10200.3
15°	10113.6	10074.1	10002.6	10090.8	10103.0
17.5°	9976.7	9925.0	9877.8	9991.9	9973.7
20°	9817.0	9756.1	9747.0	9871.7	9826.1
22.5°	9619.2	9572.0	9593.3	9712.0	9683.1
25°	9395.6	9354.5	9419.9	9506.6	9479.2
27.5°	9159.8	9135.4	9210.0	9276.9	9223.7
30°	8901.1	8887.5	8986.3	9041.1	8974.2
32.5°	8619.7	8624.3	8718.6	8793.1	8730.8
35°	8327.6	8347.4	8432.6	8522.3	8488.9
37.5°	8006.6	8050.7	8135.9	8237.9	8202.9
40°	7667.4	7731.3	7825.6	7948.8	7916.9
42.5°	7300.7	7381.4	7503.1	7640.0	7636.9
45°	6911.3	7023.9	7154.7	7337.2	7360.1
47.5°	6506.6	6632.9	6798.7	7042.1	7077.1
50°	6067.0	6225.2	6432.1	6724.2	6745.5
52.5°	5577.1	5793.1	6067.0	6346.9	6321.0
55°	5085.7	5330.6	5694.2	5922.4	5908.7
57.5°	4595.9	4871.2	5312.4	5475.2	5473.6
60°	4048.2	4396.6	4878.8	5002.0	4880.3
62.5°	3541.6	3915.8	4416.3	4326.6	3909.7
65°	2984.8	3451.8	3918.9	3307.3	2700.3
67.5°	2490.4	2977.2	3328.6	2265.2	1939.7
70°	1992.9	2529.9	2595.3	1681.0	1658.2
72.5°	1551.7	2123.7	1790.6	1439.2	1512.2
75°	1174.4	1703.9	1253.6	1282.5	1366.1
77.5°	856.5	1308.3	975.2	1124.2	1192.7
80°	588.7	926.5	795.6	944.7	991.9
82.5°	369.7	611.6	637.4	760.7	809.3
85°	202.3	387.9	497.5	600.9	629.8
87.5°	83.7	234.3	380.3	464.0	488.3
90°	1.5	129.3	257.1	322.5	337.7
92.5°	1.5	98.9	209.9	260.1	270.8
95°	1.5	80.6	176.5	214.5	220.6
97.5°	3.0	63.9	147.6	178.0	184.1
100°	4.6	53.2	123.2	149.1	153.7
102.5°	6.1	42.6	103.4	124.7	129.3
105°	6.1	35.0	86.7	105.0	109.5



TEST NUMBER: P830181

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	21.3	51.7	65.4	68.5
115°	12.2	18.3	44.1	56.3	59.3
117.5°	12.2	15.2	38.0	47.2	50.2
120°	12.2	13.7	33.5	41.1	42.6
122.5°	12.2	12.2	28.9	36.5	38.0
125°	10.6	12.2	27.4	31.9	33.5
127.5°	12.2	12.2	24.3	28.9	30.4
130°	12.2	13.7	21.3	27.4	27.4
132.5°	13.7	15.2	19.8	25.9	25.9
135°	13.7	15.2	16.7	24.3	25.9
137.5°	15.2	15.2	15.2	22.8	24.3
140°	15.2	15.2	13.7	19.8	21.3
142.5°	13.7	15.2	13.7	18.3	19.8
145°	13.7	15.2	15.2	16.7	18.3
147.5°	15.2	15.2	15.2	15.2	16.7
150°	15.2	15.2	15.2	15.2	15.2
152.5°	15.2	15.2	15.2	15.2	15.2
155°	15.2	16.7	16.7	16.7	15.2
157.5°	15.2	16.7	16.7	16.7	16.7
160°	15.2	16.7	16.7	16.7	16.7
162.5°	16.7	16.7	16.7	16.7	16.7
165°	16.7	16.7	16.7	16.7	16.7
167.5°	16.7	18.3	16.7	16.7	16.7
170°	16.7	16.7	16.7	15.2	15.2
172.5°	16.7	16.7	16.7	15.2	15.2
175°	16.7	16.7	15.2	13.7	13.7
177.5°	18.3	16.7	15.2	13.7	12.2
180°	15.2	15.2	15.2	15.2	15.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	7.6	28.9	74.5	89.8	92.8
110°	9.1	24.3	62.4	76.1	79.1



(END OF REPORT)