

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: P830253

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830253  
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-30SE-MCL-UNV-L840-CD  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

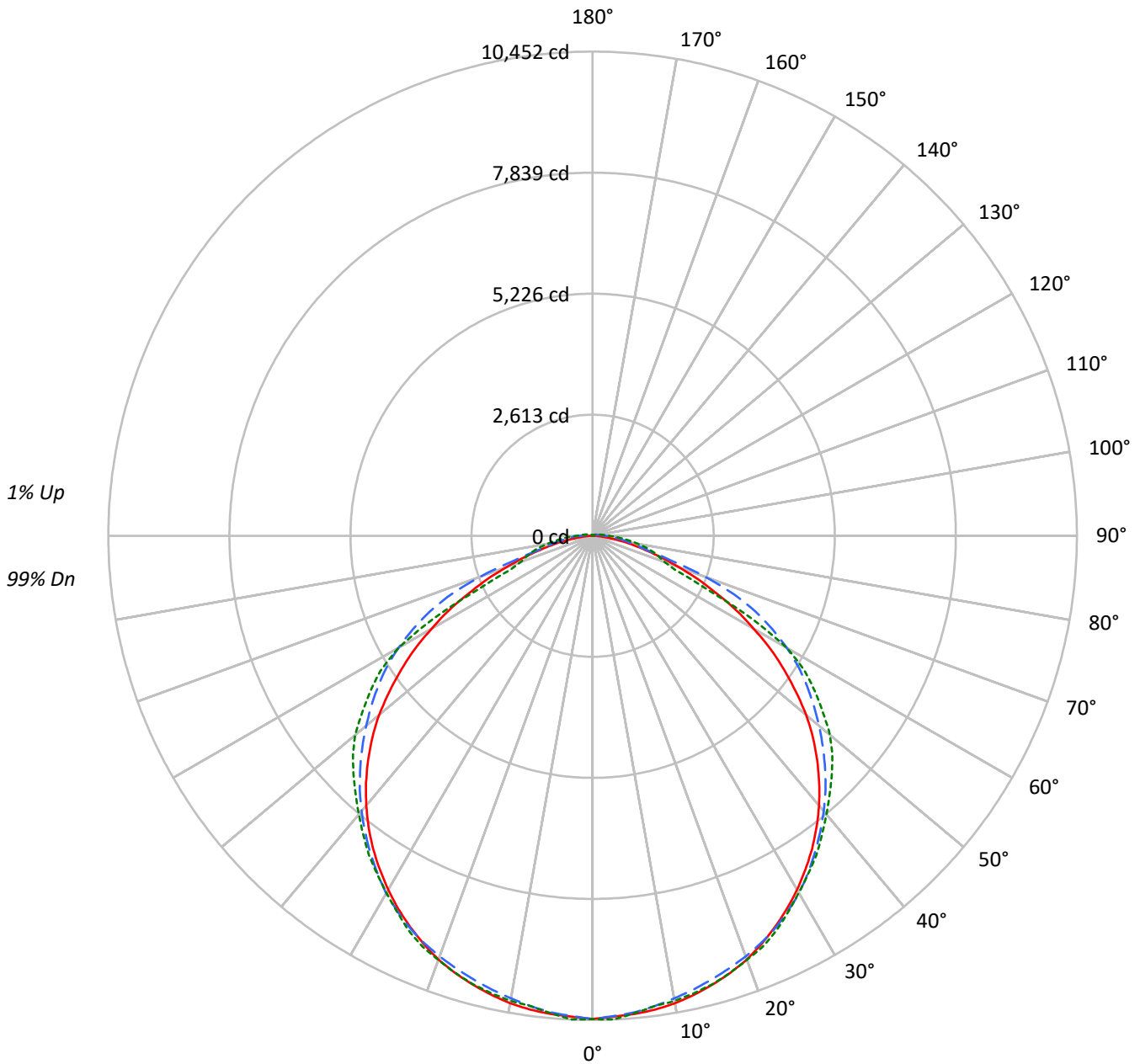
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29483.0 lumens  
Efficiency: N/A  
Efficacy: 169.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 174  
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°	17816	17816	17816
5°	17700	17549	17583
10°	17635	17276	17377
15°	17523	17069	17249
20°	17411	16936	17085
25°	17201	16802	16922
30°	16972	16595	16589
35°	16699	16271	16400
40°	16344	15936	16145
45°	15852	15549	16023
50°	15185	15110	15877
55°	14125	14675	15264
60°	12737	14044	14088
65°	10926	12886	8909
70°	8801	10039	6440
75°	6598	5942	6508
80°	4593	4917	6172
85°	2614	4465	5709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	983.6	3.3
10°-20°	2820.4	9.6
20°-30°	4307.6	14.6
30°-40°	5226.6	17.7
40°-50°	5478.0	18.6
50°-60°	4963.9	16.8
60°-70°	3328.1	11.3
70°-80°	1494.4	5.1
80°-90°	542.3	1.8
90°-100°	163.2	0.6
100°-110°	77.0	0.3
110°-120°	38.6	0.1
120°-130°	21.3	0.1
130°-140°	14.6	0.0
140°-150°	9.9	0.0
150°-160°	7.3	0.0
160°-170°	4.7	0.0
170°-180°	1.5	0.0
0°-30°	8111.5	27.5
0°-40°	13338.1	45.2
0°-60°	23780.0	80.7
0°-90°	29144.8	98.9
90°-120°	278.9	0.9
90°-150°	324.7	1.1
90°-180°	338.0	1.1
0°-180°	29483.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10431	10431	10431	10431	10431	
5°	10363	10399	10327	10359	10345	986
15°	10027	9988	9917	10004	10016	2831
25°	9315	9274	9339	9425	9398	4294
35°	8256	8276	8360	8449	8416	5160
45°	6852	6964	7093	7274	7297	5278
55°	5042	5285	5645	5872	5858	4501
65°	2959	3422	3885	3279	2677	2948
75°	1164	1689	1243	1272	1354	1272
85°	201	385	493	596	624	245
90°	2	128	255	320	335	12
95°	2	80	175	213	219	2
105°	6	35	86	104	109	7
115°	12	18	44	56	59	11
125°	11	12	27	32	33	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10431.1	10431.1	10431.1	10431.1	10431.1
2.5°	10388.9	10432.6	10378.3	10437.1	10452.2
5°	10363.2	10399.4	10327.0	10358.7	10345.1
7.5°	10316.5	10328.5	10242.6	10268.2	10241.1
10°	10247.1	10241.1	10140.0	10189.8	10195.8
12.5°	10144.5	10126.4	10035.9	10111.4	10112.9
15°	10026.9	9987.7	9916.8	10004.3	10016.3
17.5°	9891.2	9839.9	9793.1	9906.2	9888.1
20°	9732.8	9672.5	9663.4	9787.1	9741.8
22.5°	9536.7	9490.0	9511.1	9628.7	9600.1
25°	9315.0	9274.3	9339.1	9425.1	9398.0
27.5°	9081.2	9057.1	9131.0	9197.4	9144.6
30°	8824.8	8811.2	8909.3	8963.6	8897.2
32.5°	8545.8	8550.3	8643.8	8717.7	8655.9
35°	8256.2	8275.8	8360.3	8449.3	8416.1
37.5°	7938.0	7981.7	8066.2	8167.2	8132.5
40°	7601.6	7665.0	7758.5	7880.6	7849.0
42.5°	7238.1	7318.1	7438.7	7574.5	7571.5
45°	6852.0	6963.6	7093.3	7274.3	7297.0
47.5°	6450.8	6576.0	6740.4	6981.7	7016.4
50°	6014.9	6171.8	6376.9	6666.5	6687.6
52.5°	5529.3	5743.4	6014.9	6292.5	6266.8
55°	5042.1	5284.9	5645.4	5871.6	5858.1
57.5°	4556.4	4829.4	5266.8	5428.2	5426.7
60°	4013.5	4358.9	4837.0	4959.2	4838.5
62.5°	3511.2	3882.3	4378.5	4289.5	3876.2
65°	2959.2	3422.2	3885.3	3279.0	2677.2
67.5°	2469.0	2951.7	3300.1	2245.8	1923.0
70°	1975.8	2508.2	2573.1	1666.6	1644.0
72.5°	1538.4	2105.5	1775.2	1426.8	1499.2
75°	1164.4	1689.2	1242.8	1271.5	1354.4
77.5°	849.1	1297.1	966.8	1114.6	1182.5
80°	583.7	918.5	788.8	936.6	983.4
82.5°	366.5	606.3	632.0	754.1	802.4
85°	200.6	384.6	493.2	595.8	624.4
87.5°	83.0	232.3	377.1	460.0	484.2
90°	1.5	128.2	254.9	319.8	334.8
92.5°	1.5	98.0	208.1	257.9	268.5
95°	1.5	79.9	175.0	212.7	218.7
97.5°	3.0	63.3	146.3	176.5	182.5
100°	4.5	52.8	122.2	147.8	152.3
102.5°	6.0	42.2	102.6	123.7	128.2
105°	6.0	34.7	86.0	104.1	108.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	21.1	51.3	64.9	67.9
115°	12.1	18.1	43.7	55.8	58.8
117.5°	12.1	15.1	37.7	46.8	49.8
120°	12.1	13.6	33.2	40.7	42.2
122.5°	12.1	12.1	28.7	36.2	37.7
125°	10.6	12.1	27.1	31.7	33.2
127.5°	12.1	12.1	24.1	28.7	30.2
130°	12.1	13.6	21.1	27.1	27.1
132.5°	13.6	15.1	19.6	25.6	25.6
135°	13.6	15.1	16.6	24.1	25.6
137.5°	15.1	15.1	15.1	22.6	24.1
140°	15.1	15.1	13.6	19.6	21.1
142.5°	13.6	15.1	13.6	18.1	19.6
145°	13.6	15.1	15.1	16.6	18.1
147.5°	15.1	15.1	15.1	15.1	16.6
150°	15.1	15.1	15.1	15.1	15.1
152.5°	15.1	15.1	15.1	15.1	15.1
155°	15.1	16.6	16.6	16.6	15.1
157.5°	15.1	16.6	16.6	16.6	16.6
160°	15.1	16.6	16.6	16.6	16.6
162.5°	16.6	16.6	16.6	16.6	16.6
165°	16.6	16.6	16.6	16.6	16.6
167.5°	16.6	18.1	16.6	16.6	16.6
170°	16.6	16.6	16.6	15.1	15.1
172.5°	16.6	16.6	16.6	15.1	15.1
175°	16.6	16.6	15.1	13.6	13.6
177.5°	18.1	16.6	15.1	13.6	12.1
180°	15.1	15.1	15.1	15.1	15.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	7.5	28.7	73.9	89.0	92.0
110°	9.0	24.1	61.8	75.4	78.4



(END OF REPORT)