

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: P830241

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830241  
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-A-UNV-L840-CD  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

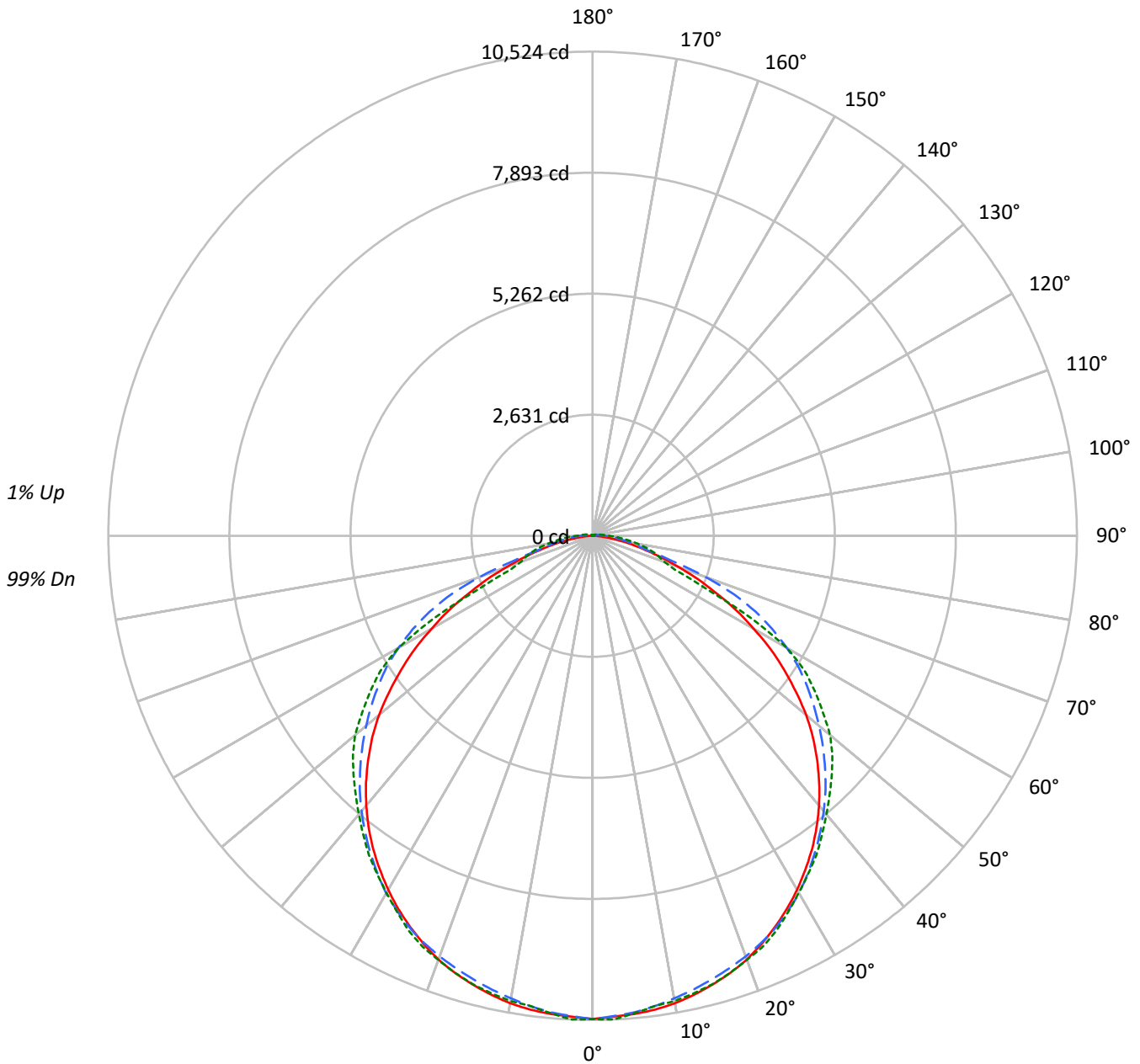
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29687.0 lumens  
Efficiency: N/A  
Efficacy: 170.6 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°	17940	17940	17940
5°	17822	17671	17705
10°	17757	17395	17497
15°	17644	17187	17368
20°	17531	17053	17203
25°	17320	16918	17039
30°	17090	16710	16704
35°	16815	16383	16513
40°	16457	16046	16257
45°	15962	15657	16134
50°	15290	15214	15987
55°	14223	14777	15369
60°	12825	14142	14185
65°	11002	12976	8970
70°	8862	10109	6485
75°	6644	5983	6554
80°	4624	4951	6214
85°	2632	4496	5749



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	990.4	3.3
10°-20°	2839.9	9.6
20°-30°	4337.4	14.6
30°-40°	5262.8	17.7
40°-50°	5515.9	18.6
50°-60°	4998.2	16.8
60°-70°	3351.1	11.3
70°-80°	1504.8	5.1
80°-90°	546.1	1.8
90°-100°	164.4	0.6
100°-110°	77.6	0.3
110°-120°	38.9	0.1
120°-130°	21.4	0.1
130°-140°	14.7	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°	8167.7	27.5
0°-40°	13430.4	45.2
0°-60°	23944.5	80.7
0°-90°	29346.5	98.9
90°-120°	280.8	0.9
90°-150°	326.9	1.1
90°-180°	340.0	1.1
0°-180°	29687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10503	10503	10503	10503	10503	
5°	10435	10471	10398	10430	10417	992
15°	10096	10057	9985	10074	10086	2851
25°	9380	9338	9404	9490	9463	4323
35°	8313	8333	8418	8508	8474	5196
45°	6899	7012	7142	7325	7347	5315
55°	5077	5322	5684	5912	5899	4532
65°	2980	3446	3912	3302	2696	2969
75°	1172	1701	1251	1280	1364	1281
85°	202	387	497	600	629	246
90°	2	129	257	322	337	12
95°	2	80	176	214	220	2
105°	6	35	87	105	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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CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10503.3	10503.3	10503.3	10503.3	10503.3
2.5°	10460.8	10504.8	10450.1	10509.4	10524.5
5°	10434.9	10471.4	10398.5	10430.4	10416.7
7.5°	10387.9	10400.0	10313.4	10339.3	10311.9
10°	10318.0	10311.9	10210.2	10260.3	10266.4
12.5°	10214.7	10196.5	10105.4	10181.3	10182.8
15°	10096.3	10056.8	9985.4	10073.5	10085.6
17.5°	9959.6	9908.0	9860.9	9974.8	9956.6
20°	9800.1	9739.4	9730.3	9854.8	9809.2
22.5°	9602.7	9555.6	9576.9	9695.3	9666.5
25°	9379.5	9338.4	9403.8	9490.3	9463.0
27.5°	9144.1	9119.8	9194.2	9261.0	9207.8
30°	8885.9	8872.2	8970.9	9025.6	8958.8
32.5°	8604.9	8609.5	8703.6	8778.0	8715.8
35°	8313.3	8333.1	8418.1	8507.7	8474.3
37.5°	7992.9	8036.9	8122.0	8223.7	8188.8
40°	7654.2	7718.0	7812.2	7935.2	7903.3
42.5°	7288.2	7368.7	7490.2	7626.9	7623.8
45°	6899.4	7011.8	7142.4	7324.7	7347.4
47.5°	6495.5	6621.5	6787.0	7030.0	7065.0
50°	6056.6	6214.5	6421.0	6712.6	6733.9
52.5°	5567.5	5783.2	6056.6	6336.0	6310.2
55°	5077.0	5321.5	5684.5	5912.3	5898.6
57.5°	4588.0	4862.9	5303.3	5465.8	5464.3
60°	4041.2	4389.0	4870.5	4993.5	4872.0
62.5°	3535.5	3909.1	4408.8	4319.2	3903.0
65°	2979.7	3445.9	3912.2	3301.6	2695.7
67.5°	2486.1	2972.1	3322.9	2261.3	1936.3
70°	1989.5	2525.6	2590.9	1678.2	1655.4
72.5°	1549.1	2120.1	1787.5	1436.7	1509.6
75°	1172.4	1700.9	1251.4	1280.3	1363.8
77.5°	855.0	1306.1	973.5	1122.3	1190.7
80°	587.7	924.9	794.3	943.1	990.2
82.5°	369.0	610.5	636.3	759.3	807.9
85°	202.0	387.3	496.6	599.9	628.7
87.5°	83.5	233.9	379.7	463.2	487.5
90°	1.5	129.1	256.7	322.0	337.2
92.5°	1.5	98.7	209.6	259.7	270.3
95°	1.5	80.5	176.2	214.1	220.2
97.5°	3.0	63.8	147.3	177.7	183.8
100°	4.6	53.2	123.0	148.8	153.4
102.5°	6.1	42.5	103.3	124.5	129.1
105°	6.1	34.9	86.6	104.8	109.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	21.3	51.6	65.3	68.3
115°	12.1	18.2	44.0	56.2	59.2
117.5°	12.1	15.2	38.0	47.1	50.1
120°	12.1	13.7	33.4	41.0	42.5
122.5°	12.1	12.1	28.9	36.4	38.0
125°	10.6	12.1	27.3	31.9	33.4
127.5°	12.1	12.1	24.3	28.9	30.4
130°	12.1	13.7	21.3	27.3	27.3
132.5°	13.7	15.2	19.7	25.8	25.8
135°	13.7	15.2	16.7	24.3	25.8
137.5°	15.2	15.2	15.2	22.8	24.3
140°	15.2	15.2	13.7	19.7	21.3
142.5°	13.7	15.2	13.7	18.2	19.7
145°	13.7	15.2	15.2	16.7	18.2
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	18.2	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°	18.2	16.7	15.2	13.7	12.1
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	74.4	89.6	92.6
110°	9.1	24.3	62.3	75.9	79.0



(END OF REPORT)