

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: P830745

Luminaire Tested: **OHBL-72SE-A-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830745  
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-72SE-A-UNV-L840-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

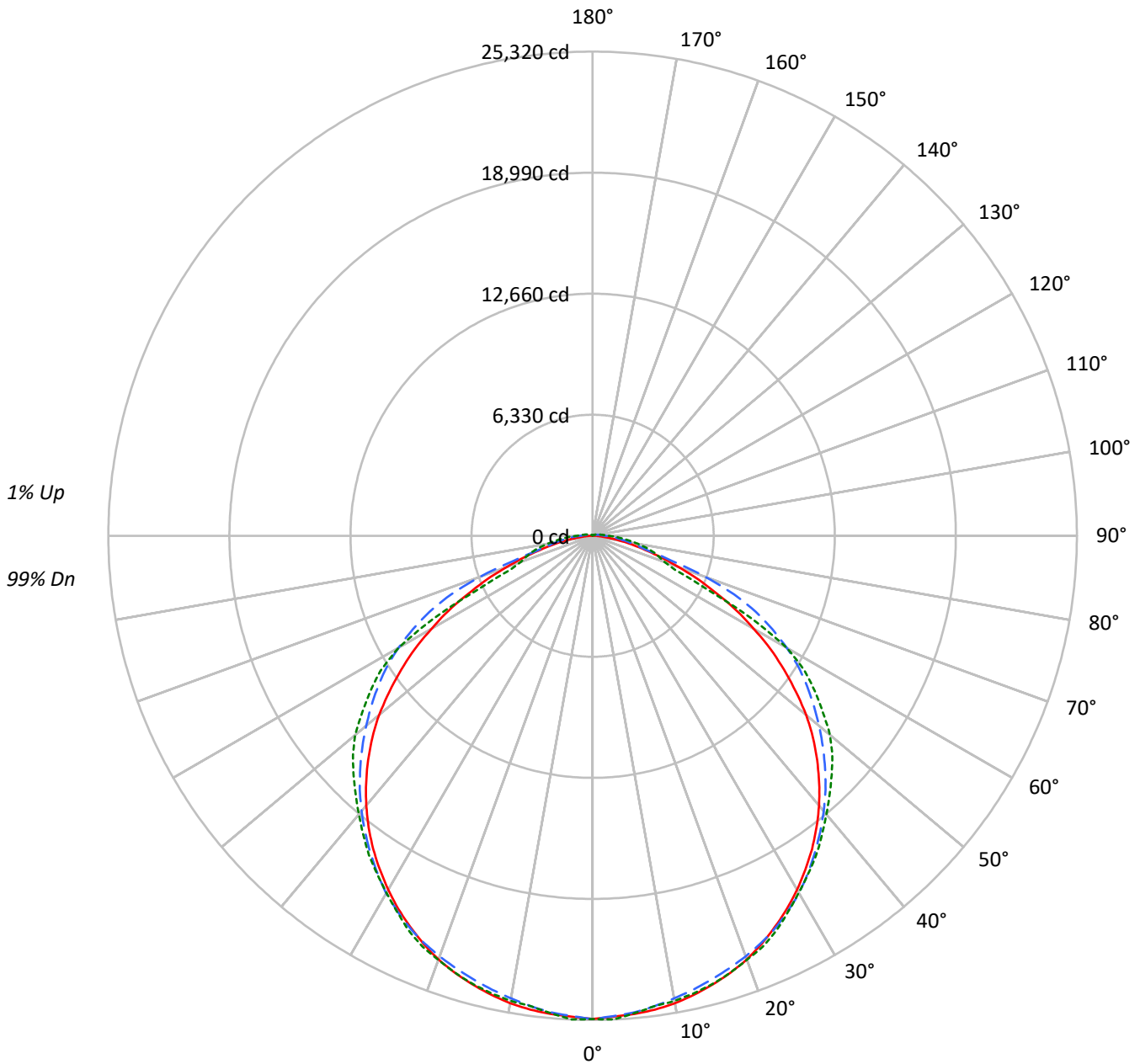
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71421.0 lumens  
Efficiency: N/A  
Efficacy: 172.6 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): 413.7  
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

TEST NUMBER: P830745

CATALOG NUMBER: OHBL-72SE-A-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830745

CATALOG NUMBER: OHBL-72SE-A-UNV-L840-CD

**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°	39962	39962	39962
5°	39701	39381	39464
10°	39555	38785	39026
15°	39304	38339	38765
20°	39053	38058	38421
25°	38582	37775	38081
30°	38069	37329	37361
35°	37457	36621	36964
40°	36660	35890	36423
45°	35556	35044	36183
50°	34060	34081	35897
55°	31682	33133	34557
60°	28570	31746	31948
65°	24508	29173	20247
70°	19740	22774	14680
75°	14800	13519	14899
80°	10302	11241	14224
85°	5863	10300	13333



TEST NUMBER: P830745

CATALOG NUMBER: OHBL-72SE-A-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2382.6	3.3
10°-20°	6832.2	9.6
20°-30°	10434.9	14.6
30°-40°	12661.2	17.7
40°-50°	13270.1	18.6
50°-60°	12024.7	16.8
60°-70°	8062.1	11.3
70°-80°	3620.2	5.1
80°-90°	1313.7	1.8
90°-100°	395.5	0.6
100°-110°	186.6	0.3
110°-120°	93.5	0.1
120°-130°	51.6	0.1
130°-140°	35.5	0.0
140°-150°	23.8	0.0
150°-160°	17.7	0.0
160°-170°	11.4	0.0
170°-180°	3.6	0.0
0°-30°	19649.8	27.5
0°-40°	32310.9	45.2
0°-60°	57605.8	80.7
0°-90°	70601.8	98.9
90°-120°	675.5	0.9
90°-150°	786.4	1.1
90°-180°	819.0	1.1
0°-180°	71421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25269	25269	25269	25269	25269	
5°	25104	25192	25017	25093	25061	###
15°	24290	24195	24023	24235	24264	6858
25°	22565	22466	22624	22832	22766	10401
35°	20000	20048	20252	20468	20388	12501
45°	16599	16869	17183	17622	17676	12787
55°	12214	12802	13676	14224	14191	10903
65°	7168	8290	9412	7943	6485	7143
75°	2821	4092	3011	3080	3281	3083
85°	486	932	1195	1443	1513	593
90°	4	311	618	775	811	29
95°	4	194	424	515	530	5
105°	15	84	208	252	263	17
115°	29	44	106	135	142	27
125°	26	29	66	77	80	25
135°	33	36	40	58	62	26
145°	33	36	36	40	44	22
155°	36	40	40	40	36	17
165°	40	40	40	40	40	11
175°	40	40	36	33	33	4
180°	36	36	36	36	36	



TEST NUMBER: P830745

CATALOG NUMBER: OHBL-72SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25268.8	25268.8	25268.8	25268.8	25268.8
2.5°	25166.5	25272.5	25140.9	25283.4	25320.0
5°	25104.4	25192.1	25016.7	25093.4	25060.6
7.5°	24991.1	25020.4	24812.1	24874.2	24808.4
10°	24823.1	24808.4	24563.7	24684.2	24698.8
12.5°	24574.6	24530.8	24311.5	24494.2	24497.9
15°	24289.6	24194.6	24022.9	24234.8	24264.0
17.5°	23960.8	23836.6	23723.3	23997.3	23953.5
20°	23577.2	23431.0	23409.1	23708.7	23599.1
22.5°	23102.2	22988.9	23040.1	23325.1	23255.6
25°	22565.1	22466.4	22623.6	22831.8	22766.0
27.5°	21998.8	21940.3	22119.3	22280.1	22152.2
30°	21377.6	21344.8	21582.3	21713.8	21553.0
32.5°	20701.7	20712.7	20939.2	21118.2	20968.4
35°	20000.2	20047.7	20252.3	20467.9	20387.5
37.5°	19229.3	19335.2	19539.8	19784.6	19700.6
40°	18414.5	18568.0	18794.5	19090.4	19013.7
42.5°	17534.0	17727.6	18019.9	18348.8	18341.4
45°	16598.6	16869.0	17183.2	17621.7	17676.5
47.5°	15626.8	15930.0	16328.3	16912.9	16996.9
50°	14570.9	14950.8	15447.7	16149.2	16200.4
52.5°	13394.4	13913.2	14570.9	15243.1	15181.0
55°	12214.2	12802.5	13675.7	14223.8	14190.9
57.5°	11037.7	11699.1	12758.6	13149.6	13145.9
60°	9722.4	10559.1	11717.3	12013.3	11721.0
62.5°	8505.8	9404.6	10606.6	10391.0	9389.9
65°	7168.5	8290.2	9411.9	7943.1	6485.3
67.5°	5981.1	7150.2	7994.2	5440.3	4658.4
70°	4786.3	6076.1	6233.2	4037.3	3982.5
72.5°	3726.7	5100.5	4300.4	3456.4	3631.8
75°	2820.6	4092.1	3010.6	3080.0	3281.0
77.5°	2057.0	3142.2	2342.0	2700.1	2864.5
80°	1414.0	2225.1	1910.9	2268.9	2382.2
82.5°	887.8	1468.8	1530.9	1826.8	1943.8
85°	485.9	931.7	1194.8	1443.2	1512.6
87.5°	201.0	562.7	913.4	1114.4	1172.8
90°	3.7	310.6	617.5	774.6	811.1
92.5°	3.7	237.5	504.2	624.8	650.4
95°	3.7	193.6	423.8	515.2	529.8
97.5°	7.3	153.5	354.4	427.5	442.1
100°	11.0	127.9	295.9	358.1	369.0
102.5°	14.6	102.3	248.4	299.6	310.6
105°	14.6	84.0	208.3	252.1	263.1



TEST NUMBER: P830745

CATALOG NUMBER: OHBL-72SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.6	51.2	124.2	157.1	164.4
115°	29.2	43.8	106.0	135.2	142.5
117.5°	29.2	36.5	91.3	113.3	120.6
120°	29.2	32.9	80.4	98.6	102.3
122.5°	29.2	29.2	69.4	87.7	91.3
125°	25.6	29.2	65.8	76.7	80.4
127.5°	29.2	29.2	58.5	69.4	73.1
130°	29.2	32.9	51.2	65.8	65.8
132.5°	32.9	36.5	47.5	62.1	62.1
135°	32.9	36.5	40.2	58.5	62.1
137.5°	36.5	36.5	36.5	54.8	58.5
140°	36.5	36.5	32.9	47.5	51.2
142.5°	32.9	36.5	32.9	43.8	47.5
145°	32.9	36.5	36.5	40.2	43.8
147.5°	36.5	36.5	36.5	36.5	40.2
150°	36.5	36.5	36.5	36.5	36.5
152.5°	36.5	36.5	36.5	36.5	36.5
155°	36.5	40.2	40.2	40.2	36.5
157.5°	36.5	40.2	40.2	40.2	40.2
160°	36.5	40.2	40.2	40.2	40.2
162.5°	40.2	40.2	40.2	40.2	40.2
165°	40.2	40.2	40.2	40.2	40.2
167.5°	40.2	43.8	40.2	40.2	40.2
170°	40.2	40.2	40.2	36.5	36.5
172.5°	40.2	40.2	40.2	36.5	36.5
175°	40.2	40.2	36.5	32.9	32.9
177.5°	43.8	40.2	36.5	32.9	29.2
180°	36.5	36.5	36.5	36.5	36.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.3	69.4	179.0	215.6	222.9
110°	21.9	58.5	149.8	182.7	190.0



(END OF REPORT)