

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: P830752

Luminaire Tested: **OHBL-72SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830752  
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-MCL-UNV-L735-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

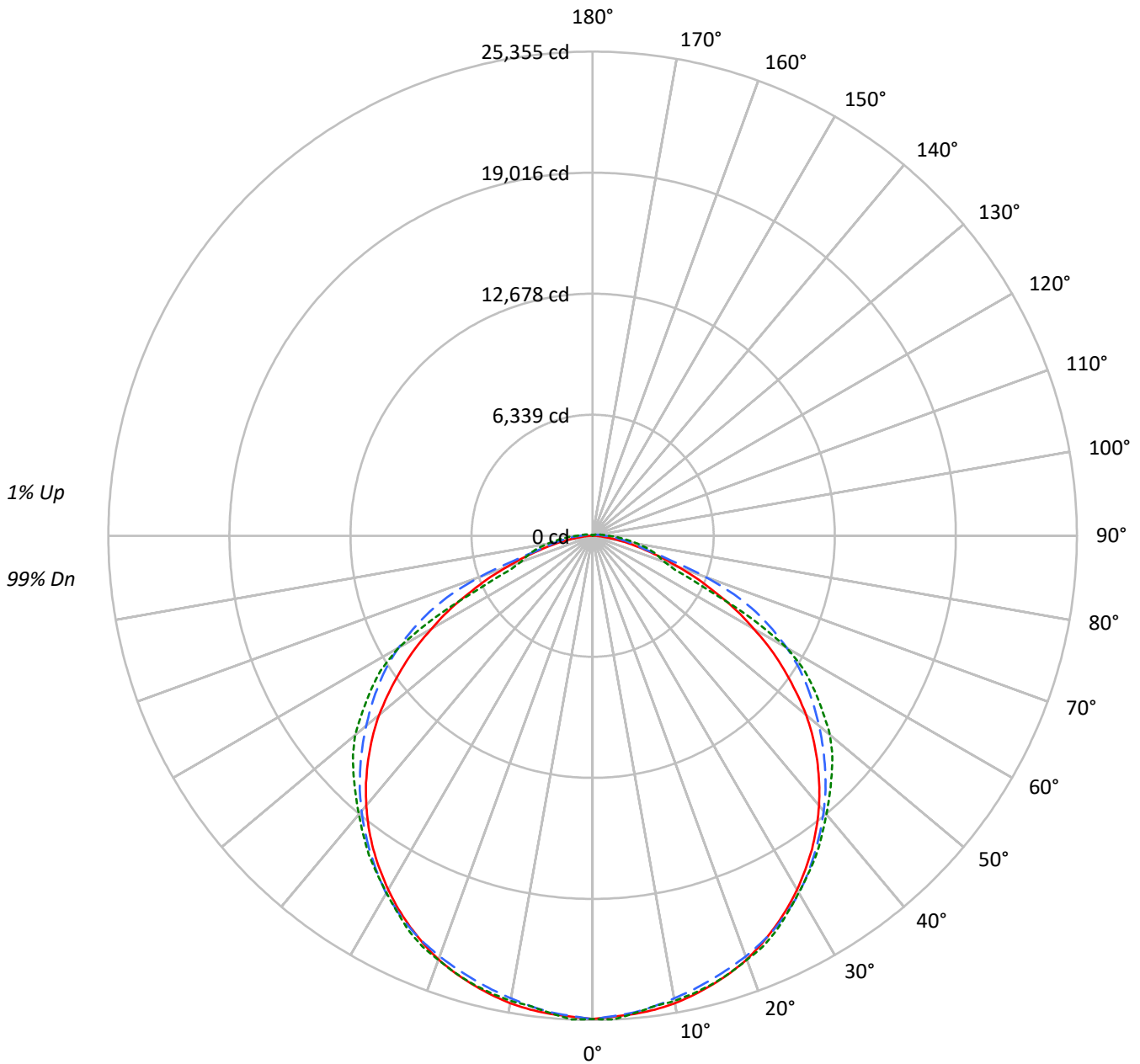
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71520.0 lumens  
Efficiency: N/A  
Efficacy: 172.9 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: P830752

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L735-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830752

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L735-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°	40017	40017	40017
5°	39756	39436	39519
10°	39610	38839	39080
15°	39359	38392	38818
20°	39107	38111	38475
25°	38636	37827	38134
30°	38122	37381	37413
35°	37508	36672	37015
40°	36711	35940	36473
45°	35605	35092	36233
50°	34107	34128	35946
55°	31727	33179	34605
60°	28610	31790	31992
65°	24542	29213	20275
70°	19768	22805	14700
75°	14820	13538	14919
80°	10316	11256	14244
85°	5871	10314	13352



TEST NUMBER: P830752

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L735-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2385.9	3.3
10°-20°	6841.7	9.6
20°-30°	10449.4	14.6
30°-40°	12678.7	17.7
40°-50°	13288.5	18.6
50°-60°	12041.4	16.8
60°-70°	8073.3	11.3
70°-80°	3625.3	5.1
80°-90°	1315.6	1.8
90°-100°	396.0	0.6
100°-110°	186.8	0.3
110°-120°	93.6	0.1
120°-130°	51.7	0.1
130°-140°	35.5	0.0
140°-150°	23.9	0.0
150°-160°	17.7	0.0
160°-170°	11.4	0.0
170°-180°	3.6	0.0
0°-30°	19677.0	27.5
0°-40°	32355.7	45.2
0°-60°	57685.6	80.7
0°-90°	70699.7	98.9
90°-120°	676.5	0.9
90°-150°	787.5	1.1
90°-180°	820.0	1.1
0°-180°	71520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25304	25304	25304	25304	25304	
5°	25139	25227	25051	25128	25095	###
15°	24323	24228	24056	24268	24298	6867
25°	22596	22498	22655	22864	22798	10416
35°	20028	20076	20280	20496	20416	12518
45°	16622	16892	17207	17646	17701	12804
55°	12231	12820	13695	14244	14210	10918
65°	7178	8302	9425	7954	6494	7152
75°	2824	4098	3015	3084	3286	3087
85°	487	933	1196	1445	1515	594
90°	4	311	618	776	812	29
95°	4	194	424	516	530	5
105°	15	84	208	252	263	17
115°	29	44	106	135	143	27
125°	26	29	66	77	80	25
135°	33	37	40	58	62	26
145°	33	37	37	40	44	22
155°	37	40	40	40	37	17
165°	40	40	40	40	40	11
175°	40	40	37	33	33	4
180°	37	37	37	37	37	



TEST NUMBER: P830752

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25303.8	25303.8	25303.8	25303.8	25303.8
2.5°	25201.4	25307.5	25175.8	25318.5	25355.1
5°	25139.2	25227.0	25051.4	25128.2	25095.3
7.5°	25025.8	25055.0	24846.5	24908.7	24842.8
10°	24857.5	24842.8	24597.7	24718.4	24733.1
12.5°	24608.7	24564.8	24345.2	24528.2	24531.8
15°	24323.3	24228.2	24056.2	24268.4	24297.7
17.5°	23994.0	23869.6	23756.2	24030.6	23986.7
20°	23609.8	23463.5	23441.5	23741.6	23631.8
22.5°	23134.2	23020.8	23072.0	23357.4	23287.9
25°	22596.4	22497.6	22654.9	22863.5	22797.6
27.5°	22029.3	21970.7	22150.0	22311.0	22182.9
30°	21407.3	21374.4	21612.2	21743.9	21582.9
32.5°	20730.4	20741.4	20968.2	21147.5	20997.5
35°	20027.9	20075.5	20280.4	20496.3	20415.8
37.5°	19255.9	19362.0	19566.9	19812.1	19727.9
40°	18440.0	18593.7	18820.6	19116.9	19040.1
42.5°	17558.3	17752.2	18044.9	18374.2	18366.9
45°	16621.6	16892.4	17207.0	17646.1	17701.0
47.5°	15648.4	15952.1	16350.9	16936.3	17020.5
50°	14591.0	14971.6	15469.1	16171.6	16222.8
52.5°	13412.9	13932.5	14591.0	15264.3	15202.1
55°	12231.2	12820.2	13694.7	14243.5	14210.5
57.5°	11053.0	11715.3	12776.3	13167.8	13164.1
60°	9735.9	10573.8	11733.6	12029.9	11737.2
62.5°	8517.5	9417.6	10621.3	10405.5	9403.0
65°	7178.4	8301.7	9424.9	7954.1	6494.3
67.5°	5989.4	7160.2	8005.3	5447.9	4664.9
70°	4792.9	6084.5	6241.8	4042.9	3988.0
72.5°	3731.9	5107.6	4306.3	3461.2	3636.8
75°	2824.5	4097.8	3014.8	3084.3	3285.5
77.5°	2059.9	3146.5	2345.3	2703.8	2868.5
80°	1415.9	2228.2	1913.5	2272.1	2385.5
82.5°	889.1	1470.8	1533.0	1829.4	1946.4
85°	486.6	933.0	1196.4	1445.2	1514.7
87.5°	201.2	563.4	914.7	1115.9	1174.5
90°	3.7	311.0	618.3	775.7	812.2
92.5°	3.7	237.8	504.9	625.6	651.3
95°	3.7	193.9	424.4	515.9	530.5
97.5°	7.3	153.7	354.9	428.1	442.7
100°	11.0	128.1	296.4	358.6	369.5
102.5°	14.6	102.4	248.8	300.0	311.0
105°	14.6	84.2	208.5	252.5	263.4



TEST NUMBER: P830752

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L735-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.6	51.2	124.4	157.3	164.6
115°	29.3	43.9	106.1	135.4	142.7
117.5°	29.3	36.6	91.5	113.4	120.7
120°	29.3	32.9	80.5	98.8	102.4
122.5°	29.3	29.3	69.5	87.8	91.5
125°	25.6	29.3	65.9	76.8	80.5
127.5°	29.3	29.3	58.5	69.5	73.2
130°	29.3	32.9	51.2	65.9	65.9
132.5°	32.9	36.6	47.6	62.2	62.2
135°	32.9	36.6	40.2	58.5	62.2
137.5°	36.6	36.6	36.6	54.9	58.5
140°	36.6	36.6	32.9	47.6	51.2
142.5°	32.9	36.6	32.9	43.9	47.6
145°	32.9	36.6	36.6	40.2	43.9
147.5°	36.6	36.6	36.6	36.6	40.2
150°	36.6	36.6	36.6	36.6	36.6
152.5°	36.6	36.6	36.6	36.6	36.6
155°	36.6	40.2	40.2	40.2	36.6
157.5°	36.6	40.2	40.2	40.2	40.2
160°	36.6	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	43.9	40.2	40.2	40.2
170°	40.2	40.2	40.2	36.6	36.6
172.5°	40.2	40.2	40.2	36.6	36.6
175°	40.2	40.2	36.6	32.9	32.9
177.5°	43.9	40.2	36.6	32.9	29.3
180°	36.6	36.6	36.6	36.6	36.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.3	69.5	179.3	215.9	223.2
110°	22.0	58.5	150.0	182.9	190.3



(END OF REPORT)