

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: P830740

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

Issue Date: 5/3/2024



**Test Information**

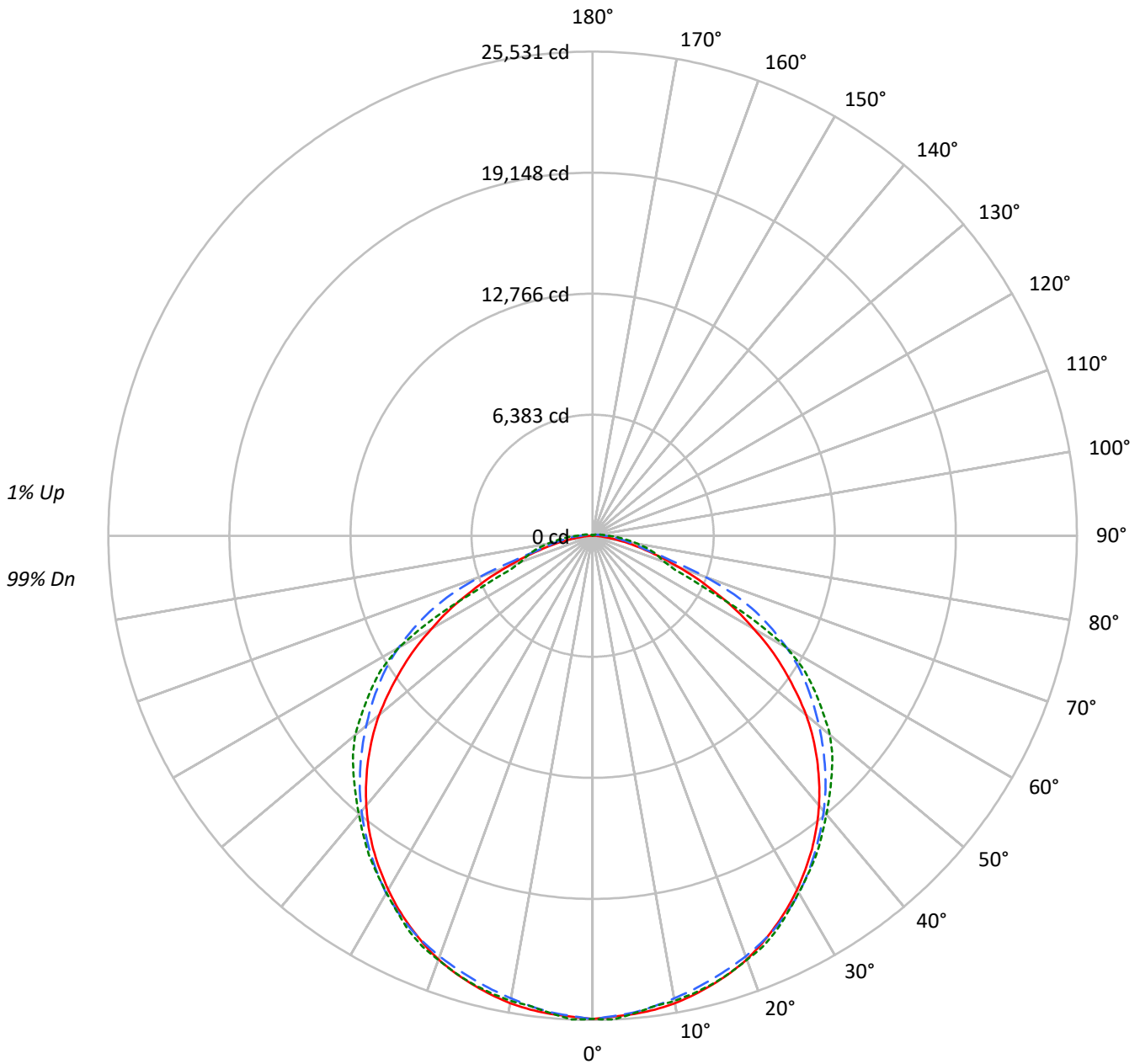
Test Method: LM-79-08  
Report Number: P830740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-A-UNV-L735-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 72015.9 lumens  
Efficiency: N/A  
Efficacy: 174.1 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

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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°	40295	40295	40295
5°	40031	39709	39793
10°	39885	39108	39351
15°	39632	38658	39088
20°	39378	38375	38742
25°	38904	38089	38399
30°	38386	37640	37672
35°	37769	36926	37271
40°	36965	36189	36726
45°	35852	35336	36485
50°	34343	34365	36196
55°	31947	33409	34845
60°	28808	32011	32214
65°	24712	29416	20416
70°	19905	22963	14802
75°	14923	13632	15023
80°	10388	11335	14343
85°	5912	10386	13444



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2402.5	3.3
10°-20°	6889.1	9.6
20°-30°	10521.9	14.6
30°-40°	12766.6	17.7
40°-50°	13380.7	18.6
50°-60°	12124.9	16.8
60°-70°	8129.3	11.3
70°-80°	3650.4	5.1
80°-90°	1324.7	1.8
90°-100°	398.7	0.6
100°-110°	188.1	0.3
110°-120°	94.3	0.1
120°-130°	52.0	0.1
130°-140°	35.8	0.0
140°-150°	24.0	0.0
150°-160°	17.9	0.0
160°-170°	11.5	0.0
170°-180°	3.6	0.0
0°-30°	19813.5	27.5
0°-40°	32580.1	45.2
0°-60°	58085.6	80.7
0°-90°	71190.0	98.9
90°-120°	681.2	0.9
90°-150°	793.0	1.1
90°-180°	826.0	1.1
0°-180°	72015.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25479	25479	25479	25479	25479	
5°	25314	25402	25225	25302	25269	###
15°	24492	24396	24223	24437	24466	6915
25°	22753	22654	22812	23022	22956	10488
35°	20167	20215	20421	20638	20557	12605
45°	16737	17010	17326	17768	17824	12893
55°	12316	12909	13790	14342	14309	10994
65°	7228	8359	9490	8009	6539	7202
75°	2844	4126	3036	3106	3308	3108
85°	490	939	1205	1455	1525	598
90°	4	313	623	781	818	29
95°	4	195	427	520	534	5
105°	15	85	210	254	265	17
115°	30	44	107	136	144	27
125°	26	30	66	77	81	26
135°	33	37	40	59	63	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25479.3	25479.3	25479.3	25479.3	25479.3
2.5°	25376.2	25483.0	25350.4	25494.1	25530.9
5°	25313.5	25402.0	25225.1	25302.5	25269.3
7.5°	25199.3	25228.8	25018.8	25081.4	25015.1
10°	25029.9	25015.1	24768.3	24889.9	24904.6
12.5°	24779.3	24735.1	24514.1	24698.3	24702.0
15°	24492.0	24396.2	24223.0	24436.7	24466.2
17.5°	24160.4	24035.1	23920.9	24197.3	24153.0
20°	23773.6	23626.2	23604.1	23906.2	23795.7
22.5°	23294.6	23180.4	23232.0	23519.4	23449.4
25°	22753.1	22653.6	22812.0	23022.0	22955.7
27.5°	22182.0	22123.1	22303.6	22465.7	22336.8
30°	21555.7	21522.6	21762.1	21894.7	21732.6
32.5°	20874.2	20885.2	21113.6	21294.2	21143.1
35°	20166.8	20214.7	20421.0	20638.4	20557.3
37.5°	19389.5	19496.3	19702.6	19949.5	19864.7
40°	18567.9	18722.7	18951.1	19249.5	19172.1
42.5°	17680.1	17875.3	18170.0	18501.6	18494.2
45°	16736.9	17009.5	17326.4	17768.5	17823.7
47.5°	15756.9	16062.7	16464.3	17053.8	17138.5
50°	14692.2	15075.4	15576.4	16283.8	16335.4
52.5°	13506.0	14029.1	14692.2	15370.1	15307.5
55°	12316.0	12909.1	13789.6	14342.2	14309.1
57.5°	11129.7	11796.5	12864.9	13259.1	13255.4
60°	9803.4	10647.1	11814.9	12113.4	11818.6
62.5°	8576.6	9482.9	10695.0	10477.6	9468.2
65°	7228.2	8359.3	9490.3	8009.3	6539.3
67.5°	6030.9	7209.8	8060.8	5485.6	4697.2
70°	4826.2	6126.7	6285.1	4070.9	4015.7
72.5°	3757.8	5143.0	4336.2	3485.2	3662.0
75°	2844.1	4126.2	3035.7	3105.7	3308.3
77.5°	2074.2	3168.3	2361.5	2722.6	2888.3
80°	1425.8	2243.6	1926.8	2287.8	2402.0
82.5°	895.2	1481.0	1543.6	1842.1	1959.9
85°	490.0	939.4	1204.7	1455.2	1525.2
87.5°	202.6	567.4	921.0	1123.7	1182.6
90°	3.7	313.1	622.6	781.0	817.9
92.5°	3.7	239.5	508.4	630.0	655.8
95°	3.7	195.3	427.4	519.5	534.2
97.5°	7.4	154.7	357.4	431.0	445.8
100°	11.1	128.9	298.4	361.0	372.1
102.5°	14.7	103.2	250.5	302.1	313.1
105°	14.7	84.7	210.0	254.2	265.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	51.6	125.3	158.4	165.8
115°	29.5	44.2	106.8	136.3	143.7
117.5°	29.5	36.8	92.1	114.2	121.6
120°	29.5	33.2	81.1	99.5	103.2
122.5°	29.5	29.5	70.0	88.4	92.1
125°	25.8	29.5	66.3	77.4	81.1
127.5°	29.5	29.5	58.9	70.0	73.7
130°	29.5	33.2	51.6	66.3	66.3
132.5°	33.2	36.8	47.9	62.6	62.6
135°	33.2	36.8	40.5	58.9	62.6
137.5°	36.8	36.8	36.8	55.3	58.9
140°	36.8	36.8	33.2	47.9	51.6
142.5°	33.2	36.8	33.2	44.2	47.9
145°	33.2	36.8	36.8	40.5	44.2
147.5°	36.8	36.8	36.8	36.8	40.5
150°	36.8	36.8	36.8	36.8	36.8
152.5°	36.8	36.8	36.8	36.8	36.8
155°	36.8	40.5	40.5	40.5	36.8
157.5°	36.8	40.5	40.5	40.5	40.5
160°	36.8	40.5	40.5	40.5	40.5
162.5°	40.5	40.5	40.5	40.5	40.5
165°	40.5	40.5	40.5	40.5	40.5
167.5°	40.5	44.2	40.5	40.5	40.5
170°	40.5	40.5	40.5	36.8	36.8
172.5°	40.5	40.5	40.5	36.8	36.8
175°	40.5	40.5	36.8	33.2	33.2
177.5°	44.2	40.5	36.8	33.2	29.5
180°	36.8	36.8	36.8	36.8	36.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.4	70.0	180.5	217.4	224.7
110°	22.1	58.9	151.0	184.2	191.6



(END OF REPORT)