

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: P830777

Luminaire Tested: **OHBL-72SE-N-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-N-UNV-L740-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

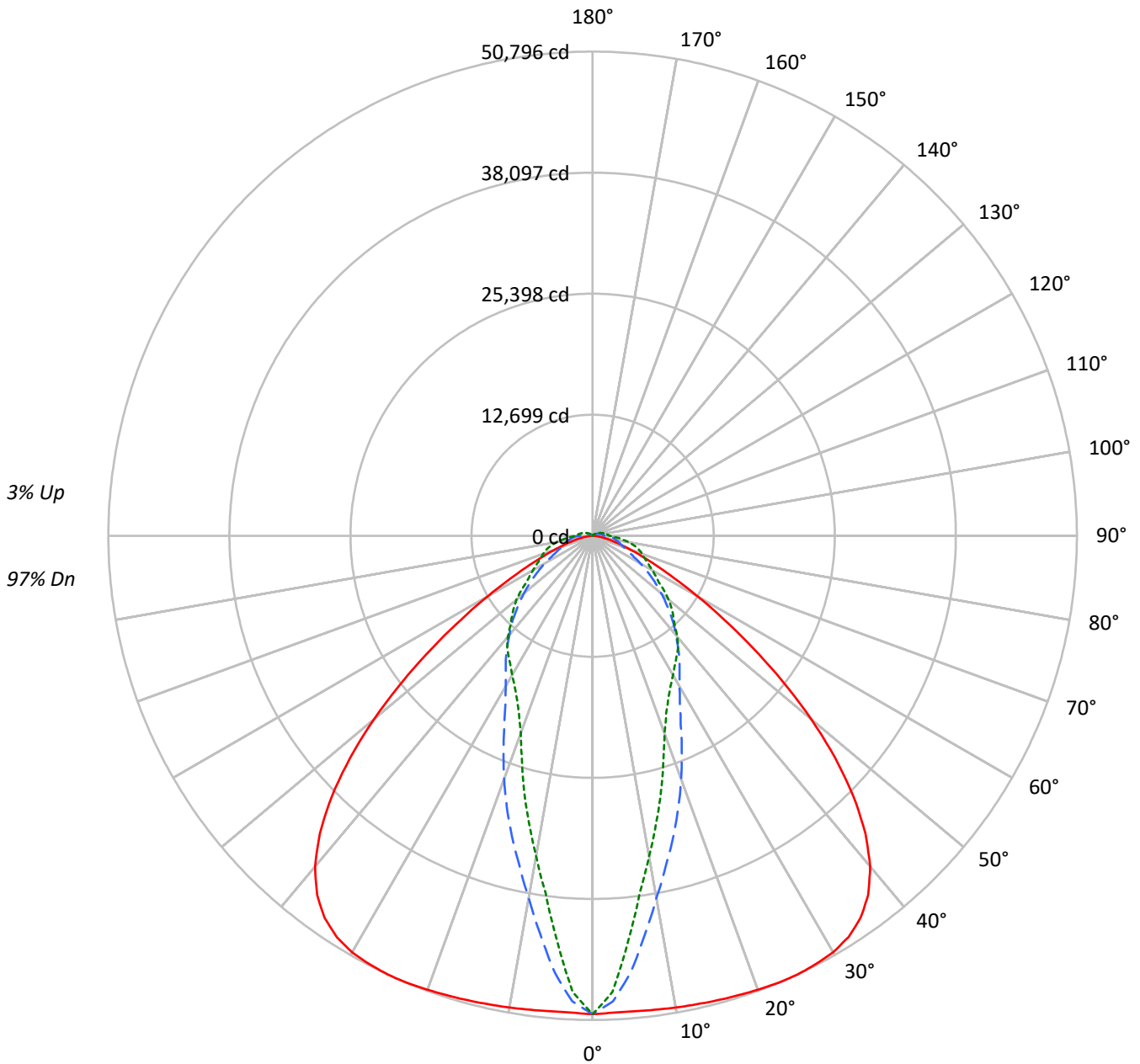
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 74061.0 lumens  
Efficiency: N/A  
Efficacy: 179.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	79359	79359	79359
5°	79197	72303	67237
10°	80091	60931	53948
15°	81655	52134	44308
20°	83949	44103	35861
25°	86852	36522	31444
30°	89855	31480	29232
35°	91724	28706	27873
40°	90154	25946	26467
45°	82938	23464	24528
50°	69975	20746	23048
55°	53170	18189	20538
60°	37261	15618	19696
65°	25064	13471	19324
70°	17117	12668	20333
75°	11878	13104	21817
80°	8177	14581	22615
85°	4783	18404	24038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4224.1	5.7
10°-20°	9937.0	13.4
20°-30°	12455.9	16.8
30°-40°	13217.2	17.8
40°-50°	11950.4	16.1
50°-60°	8664.8	11.7
60°-70°	5437.6	7.3
70°-80°	3598.4	4.9
80°-90°	2073.1	2.8
90°-100°	1004.3	1.4
100°-110°	693.2	0.9
110°-120°	427.8	0.6
120°-130°	207.2	0.3
130°-140°	95.3	0.1
140°-150°	52.0	0.1
150°-160°	22.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	26617.1	35.9
0°-40°	39834.2	53.8
0°-60°	60449.5	81.6
0°-90°	71558.6	96.6
90°-120°	2125.3	2.9
90°-150°	2479.8	3.3
90°-180°	2502.0	3.4
0°-180°	74061.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	50180	50180	50180	50180	50180	
5°	50080	48795	45930	43800	42696	###
15°	50462	41130	32667	29052	27734	14311
25°	50796	31803	21874	19414	18798	23467
35°	48977	21143	15875	15378	15374	30446
45°	38718	13392	11505	11782	11983	29495
55°	20498	8300	7508	8143	8434	18521
65°	7331	4814	4346	5569	6190	7629
75°	2264	2593	2918	4532	4804	2523
85°	396	1075	2135	2971	2727	475
90°	0	449	1237	1743	1758	26
95°	19	315	1089	1480	1547	17
105°	38	210	793	1051	1079	38
115°	52	148	535	669	683	51
125°	57	76	272	344	339	50
135°	48	57	119	186	186	38
145°	57	62	72	110	105	34
155°	57	72	76	81	72	18
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-72SE-N-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	50180.3	50180.3	50180.3	50180.3	50180.3
2.5°	50075.2	49788.7	48895.6	48351.1	47892.6
5°	50080.0	48795.3	45929.7	43799.7	42696.5
7.5°	50151.6	47295.6	42132.9	39023.8	37810.7
10°	50261.5	45437.8	38589.2	35274.7	34142.8
12.5°	50342.7	43346.0	35470.5	32065.3	30823.6
15°	50462.1	41130.0	32667.1	29051.7	27733.6
17.5°	50571.9	39042.9	29897.1	26119.3	24653.1
20°	50681.7	36793.5	27127.1	23234.7	22026.4
22.5°	50786.8	34419.8	24423.9	20994.8	20168.6
25°	50796.4	31802.7	21873.6	19414.0	18797.9
27.5°	50672.2	29089.9	19805.6	18091.1	17709.0
30°	50457.3	26458.4	18200.9	17135.9	16863.7
32.5°	49922.4	23774.4	16959.2	16214.1	16056.5
35°	48976.8	21142.9	15875.1	15378.4	15373.6
37.5°	47486.7	18807.5	14700.2	14614.2	14719.3
40°	45285.0	16763.4	13587.4	13816.7	13816.7
42.5°	42347.8	14986.7	12579.7	12813.7	12751.6
45°	38718.1	13391.6	11505.1	11782.1	11982.7
47.5°	34510.6	11987.5	10406.7	10941.6	11218.6
50°	29935.3	10650.2	9403.7	10086.7	10401.9
52.5°	25140.3	9413.3	8424.7	9207.9	9461.0
55°	20498.1	8300.5	7507.7	8142.9	8434.2
57.5°	16295.3	7240.2	6609.8	7211.6	7813.4
60°	12680.0	6328.1	5764.5	6624.2	7225.9
62.5°	9685.5	5516.2	4971.7	6074.9	6676.7
65°	7331.0	4814.1	4346.1	5568.7	6189.6
67.5°	5525.7	4207.6	3858.9	5200.9	5807.5
70°	4150.2	3620.1	3467.3	4971.7	5516.2
72.5°	3066.1	3080.4	3156.9	4771.1	5186.6
75°	2263.8	2593.3	2918.1	4532.3	4804.5
77.5°	1619.0	2149.2	2703.2	4245.8	4341.3
80°	1122.3	1752.8	2478.7	3868.5	3787.3
82.5°	702.1	1404.1	2278.1	3453.0	3228.5
85°	396.4	1074.6	2134.8	2970.6	2727.0
87.5°	176.7	802.3	1867.4	2316.3	2163.5
90°	0.0	448.9	1237.0	1743.2	1757.5
92.5°	9.6	372.5	1141.4	1595.1	1642.9
95°	19.1	315.2	1088.9	1480.5	1547.4
97.5°	23.9	277.0	1022.0	1375.5	1432.8
100°	28.7	248.3	940.9	1265.6	1313.4
102.5°	33.4	229.2	864.4	1151.0	1189.2
105°	38.2	210.1	792.8	1050.7	1079.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	47.8	162.4	597.0	754.6	778.5
115°	52.5	148.1	534.9	668.6	683.0
117.5°	57.3	128.9	468.0	587.4	592.2
120°	57.3	114.6	401.2	501.5	501.5
122.5°	57.3	95.5	334.3	415.5	410.7
125°	57.3	76.4	272.2	343.9	339.1
127.5°	52.5	62.1	219.7	286.6	281.8
130°	52.5	62.1	176.7	243.6	243.6
132.5°	47.8	57.3	143.3	210.1	210.1
135°	47.8	57.3	119.4	186.3	186.3
137.5°	47.8	62.1	100.3	162.4	162.4
140°	47.8	57.3	86.0	143.3	143.3
142.5°	52.5	57.3	76.4	124.2	124.2
145°	57.3	62.1	71.6	109.8	105.1
147.5°	57.3	66.9	71.6	95.5	90.7
150°	57.3	71.6	71.6	86.0	81.2
152.5°	57.3	71.6	71.6	81.2	76.4
155°	57.3	71.6	76.4	81.2	71.6
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	38.2	195.8	725.9	940.9	974.3
110°	43.0	176.7	663.8	840.6	874.0



(END OF REPORT)