

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: P829659

Luminaire Tested: **OHBL-100SE-A-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829659  
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-100SE-A-UNV-L730-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

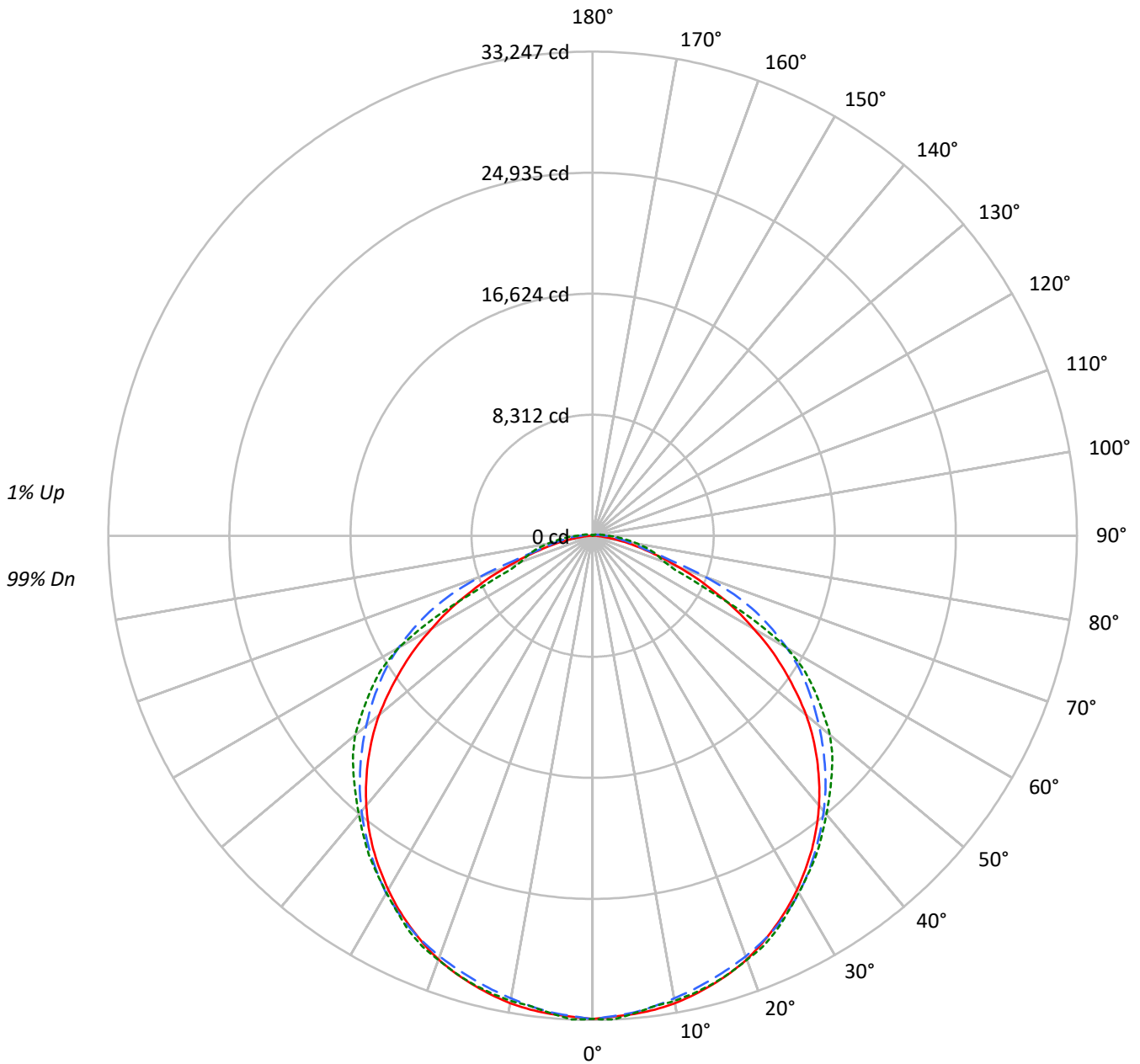
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 93780.1 lumens  
Efficiency: N/A  
Efficacy: 158.9 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): 590.1  
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°	52472	52472	52472
5°	52129	51710	51819
10°	51938	50927	51243
15°	51609	50341	50900
20°	51279	49972	50450
25°	50661	49600	50003
30°	49987	49015	49057
35°	49183	48086	48535
40°	48137	47125	47825
45°	46687	46015	47511
50°	44722	44750	47134
55°	41601	43506	45375
60°	37514	41685	41950
65°	32181	38306	26586
70°	25920	29903	19275
75°	19433	17751	19563
80°	13527	14760	18678
85°	7699	13524	17508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3128.5	3.3
10°-20°	8971.1	9.6
20°-30°	13701.7	14.6
30°-40°	16624.9	17.7
40°-50°	17424.4	18.6
50°-60°	15789.2	16.8
60°-70°	10586.0	11.3
70°-80°	4753.6	5.1
80°-90°	1725.0	1.8
90°-100°	519.2	0.6
100°-110°	245.0	0.3
110°-120°	122.8	0.1
120°-130°	67.8	0.1
130°-140°	46.6	0.0
140°-150°	31.3	0.0
150°-160°	23.3	0.0
160°-170°	15.0	0.0
170°-180°	4.8	0.0
0°-30°	25801.3	27.5
0°-40°	42426.2	45.2
0°-60°	75639.8	80.7
0°-90°	92704.4	98.9
90°-120°	887.0	0.9
90°-150°	1032.7	1.1
90°-180°	1076.0	1.1
0°-180°	93780.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33179	33179	33179	33179	33179	
5°	32964	33079	32848	32949	32906	###
15°	31894	31769	31544	31822	31860	9005
25°	29629	29500	29706	29980	29893	13657
35°	26262	26324	26592	26876	26770	16414
45°	21795	22150	22563	23138	23210	16790
55°	16038	16810	17957	18677	18634	14316
65°	9413	10886	12358	10430	8516	9379
75°	3704	5373	3953	4044	4308	4048
85°	638	1223	1569	1895	1986	779
90°	5	408	811	1017	1065	38
95°	5	254	556	676	696	7
105°	19	110	274	331	345	22
115°	38	58	139	178	187	36
125°	34	38	86	101	106	33
135°	43	48	53	77	82	34
145°	43	48	48	53	58	29
155°	48	53	53	53	48	22
165°	53	53	53	53	53	15
175°	53	53	48	43	43	5
180°	48	48	48	48	48	



TEST NUMBER: P829659

CATALOG NUMBER: OHBL-100SE-A-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33179.4	33179.4	33179.4	33179.4	33179.4
2.5°	33045.1	33184.2	33011.5	33198.6	33246.6
5°	32963.6	33078.7	32848.4	32949.2	32906.0
7.5°	32814.8	32853.2	32579.8	32661.3	32575.0
10°	32594.1	32575.0	32253.5	32411.8	32431.0
12.5°	32267.9	32210.4	31922.5	32162.4	32167.2
15°	31893.7	31769.0	31543.5	31821.8	31860.1
17.5°	31461.9	31298.8	31150.1	31509.9	31452.3
20°	30958.2	30766.3	30737.5	31130.9	30987.0
22.5°	30334.5	30185.8	30253.0	30627.2	30536.0
25°	29629.3	29499.8	29706.1	29979.5	29893.2
27.5°	28885.7	28808.9	29044.0	29255.1	29087.2
30°	28070.1	28026.9	28338.8	28511.5	28300.4
32.5°	27182.6	27197.0	27494.4	27729.5	27532.8
35°	26261.5	26323.8	26592.5	26875.5	26770.0
37.5°	25249.2	25388.3	25657.0	25978.4	25868.1
40°	24179.4	24380.8	24678.3	25066.9	24966.1
42.5°	23023.2	23277.4	23661.2	24093.0	24083.4
45°	21795.0	22150.0	22562.6	23138.3	23210.3
47.5°	20518.9	20917.1	21440.0	22207.6	22317.9
50°	19132.4	19631.3	20283.8	21204.9	21272.1
52.5°	17587.6	18268.8	19132.4	20015.1	19933.6
55°	16038.0	16810.4	17957.0	18676.6	18633.5
57.5°	14493.2	15361.6	16752.8	17266.2	17261.4
60°	12766.1	13864.7	15385.6	15774.1	15390.3
62.5°	11168.6	12348.7	13927.1	13644.1	12329.6
65°	9412.7	10885.5	12358.3	10429.7	8515.5
67.5°	7853.5	9388.7	10496.9	7143.5	6116.8
70°	6284.7	7978.2	8184.5	5301.2	5229.3
72.5°	4893.4	6697.3	5646.6	4538.4	4768.7
75°	3703.7	5373.2	3953.1	4044.3	4308.1
77.5°	2701.0	4125.8	3075.2	3545.3	3761.2
80°	1856.6	2921.7	2509.1	2979.2	3128.0
82.5°	1165.8	1928.6	2010.1	2398.7	2552.3
85°	638.1	1223.4	1568.8	1895.0	1986.2
87.5°	263.9	738.8	1199.4	1463.2	1540.0
90°	4.8	407.8	810.8	1017.1	1065.0
92.5°	4.8	311.8	662.1	820.4	854.0
95°	4.8	254.3	556.5	676.4	695.6
97.5°	9.6	201.5	465.4	561.3	580.5
100°	14.4	167.9	388.6	470.2	484.5
102.5°	19.2	134.3	326.2	393.4	407.8
105°	19.2	110.3	273.5	331.0	345.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	33.6	67.2	163.1	206.3	215.9
115°	38.4	57.6	139.1	177.5	187.1
117.5°	38.4	48.0	119.9	148.7	158.3
120°	38.4	43.2	105.5	129.5	134.3
122.5°	38.4	38.4	91.2	115.1	119.9
125°	33.6	38.4	86.4	100.7	105.5
127.5°	38.4	38.4	76.8	91.2	95.9
130°	38.4	43.2	67.2	86.4	86.4
132.5°	43.2	48.0	62.4	81.6	81.6
135°	43.2	48.0	52.8	76.8	81.6
137.5°	48.0	48.0	48.0	72.0	76.8
140°	48.0	48.0	43.2	62.4	67.2
142.5°	43.2	48.0	43.2	57.6	62.4
145°	43.2	48.0	48.0	52.8	57.6
147.5°	48.0	48.0	48.0	48.0	52.8
150°	48.0	48.0	48.0	48.0	48.0
152.5°	48.0	48.0	48.0	48.0	48.0
155°	48.0	52.8	52.8	52.8	48.0
157.5°	48.0	52.8	52.8	52.8	52.8
160°	48.0	52.8	52.8	52.8	52.8
162.5°	52.8	52.8	52.8	52.8	52.8
165°	52.8	52.8	52.8	52.8	52.8
167.5°	52.8	57.6	52.8	52.8	52.8
170°	52.8	52.8	52.8	48.0	48.0
172.5°	52.8	52.8	52.8	48.0	48.0
175°	52.8	52.8	48.0	43.2	43.2
177.5°	57.6	52.8	48.0	43.2	38.4
180°	48.0	48.0	48.0	48.0	48.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	24.0	91.2	235.1	283.1	292.6
110°	28.8	76.8	196.7	239.9	249.5



(END OF REPORT)