

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: P829708

Luminaire Tested: **OHBL-100SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-NL-UNV-L735-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

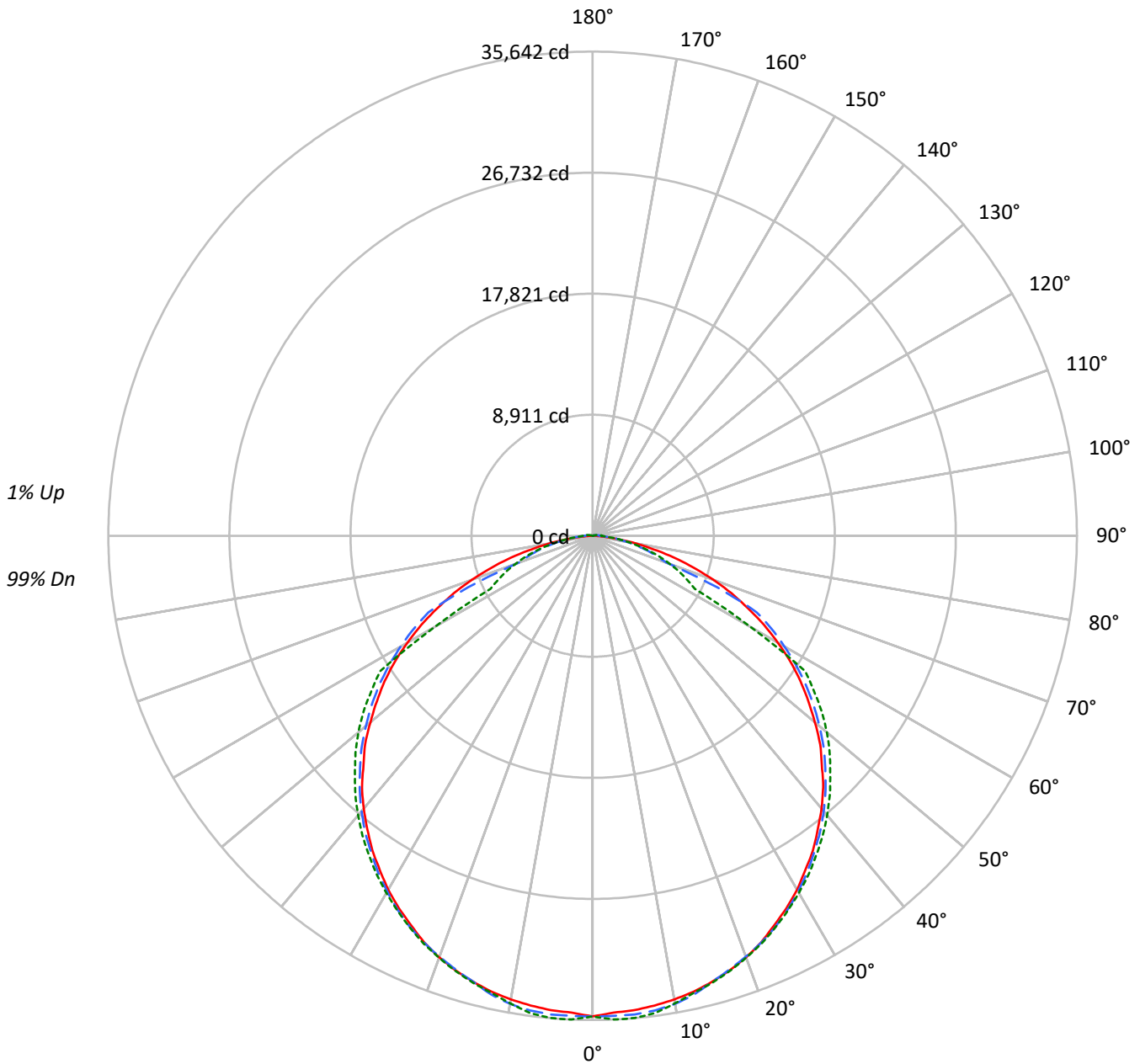
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 99337.0 lumens  
Efficiency: N/A  
Efficacy: 168.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	55955	55955	55955
5°	55646	56149	56572
10°	55661	56190	56120
15°	55651	55642	55763
20°	55576	55491	55628
25°	55196	55477	55520
30°	54940	55223	55439
35°	54584	54883	55399
40°	54113	54626	55433
45°	53332	54138	55318
50°	52528	53599	55370
55°	51524	52859	54760
60°	49798	51565	42632
65°	47114	49854	28692
70°	43577	26466	27846
75°	38010	25150	26592
80°	29230	23071	24369
85°	14754	23317	23878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3361.3	3.4
10°-20°	9624.5	9.7
20°-30°	14644.4	14.7
30°-40°	17805.6	17.9
40°-50°	18721.7	18.8
50°-60°	17095.2	17.2
60°-70°	10958.9	11.0
70°-80°	5176.8	5.2
80°-90°	1435.5	1.4
90°-100°	380.2	0.4
100°-110°	104.1	0.1
110°-120°	28.9	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	27630.3	27.8
0°-40°	45435.9	45.7
0°-60°	81252.7	81.8
0°-90°	98823.9	99.5
90°-120°	513.1	0.5
90°-150°	513.1	0.5
90°-180°	513.0	0.5
0°-180°	99337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35381	35381	35381	35381	35381	
5°	35052	35189	35369	35561	35636	###
15°	33990	34245	33984	34034	34059	9596
25°	31631	31681	31792	31842	31818	14596
35°	28273	28105	28428	28776	28695	17669
45°	23846	23802	24206	24777	24734	18431
55°	18687	18544	19171	19811	19861	16665
65°	12590	12590	13323	7642	7667	12482
75°	6221	6339	4116	4334	4352	6557
85°	813	1031	1285	1391	1316	1202
90°	0	348	571	676	664	36
95°	18	180	410	553	553	10
105°	31	68	99	99	93	31
115°	31	43	62	43	6	22
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-100SE-NL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	35381.3	35381.3	35381.3	35381.3	35381.3
2.5°	35132.8	35251.1	35381.3	35548.9	35641.6
5°	35052.0	35188.7	35368.8	35561.4	35635.7
7.5°	34878.5	35070.4	35244.6	35381.3	35424.7
10°	34660.9	34890.9	34990.2	34977.7	34946.8
12.5°	34369.1	34611.6	34580.7	34437.4	34462.4
15°	33990.5	34244.8	33984.5	34033.8	34058.8
17.5°	33543.5	33792.0	33487.6	33586.9	33593.5
20°	33022.3	33208.3	32972.3	33053.2	33053.2
22.5°	32395.2	32525.4	32426.1	32482.0	32494.5
25°	31631.4	31680.7	31792.5	31842.4	31817.5
27.5°	30899.2	30836.8	31054.3	31172.0	31109.6
30°	30085.5	29986.2	30240.6	30433.2	30358.9
32.5°	29154.1	29092.3	29384.2	29613.6	29570.2
35°	28272.7	28105.1	28427.8	28775.5	28694.7
37.5°	27229.6	27130.3	27496.4	27863.2	27819.8
40°	26211.4	26043.8	26459.9	26894.3	26851.0
42.5°	25119.0	24919.8	25373.4	25895.3	25845.3
45°	23845.8	23802.5	24206.0	24777.2	24733.8
47.5°	22716.6	22499.0	23063.7	23616.4	23666.4
50°	21350.1	21269.9	21785.2	22455.7	22505.0
52.5°	20015.8	19959.9	20499.6	21176.6	21263.3
55°	18686.8	18544.1	19171.2	19810.7	19860.7
57.5°	17265.7	17116.5	17756.0	18451.5	18556.6
60°	15744.1	15601.4	16302.8	16948.9	13478.4
62.5°	14223.1	14123.9	14856.7	10523.2	8481.0
65°	12590.4	12590.4	13322.6	7642.3	7667.3
67.5°	11063.5	10964.3	9933.6	6866.1	6866.1
70°	9424.2	9461.7	5723.7	6016.2	6022.1
72.5°	7779.0	7915.7	4942.2	5177.5	5190.0
75°	6220.6	6338.9	4116.0	4333.5	4351.9
77.5°	4569.5	3513.9	3308.8	3477.1	3483.0
80°	3209.5	2216.4	2533.2	2694.2	2675.8
82.5°	1874.6	1551.9	1856.2	1974.5	1967.9
85°	813.1	1030.6	1285.0	1390.8	1315.9
87.5°	260.3	639.5	800.6	863.0	856.4
90°	0.0	347.7	571.2	676.4	664.5
92.5°	0.0	272.8	496.9	621.1	627.1
95°	18.4	180.1	410.1	552.8	552.8
97.5°	12.5	130.1	291.8	434.5	447.0
100°	12.5	105.2	192.6	310.2	316.8
102.5°	30.9	86.8	117.7	198.5	205.1
105°	30.9	68.4	99.3	99.3	93.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	37.5	50.0	68.4	50.0	5.9
115°	30.9	43.4	61.8	43.4	5.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	30.9	61.8	86.8	55.9	18.4
110°	37.5	55.9	74.3	50.0	5.9



(END OF REPORT)