

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: P829716

Luminaire Tested: **OHBL-100SE-NL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829716  
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-L935-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

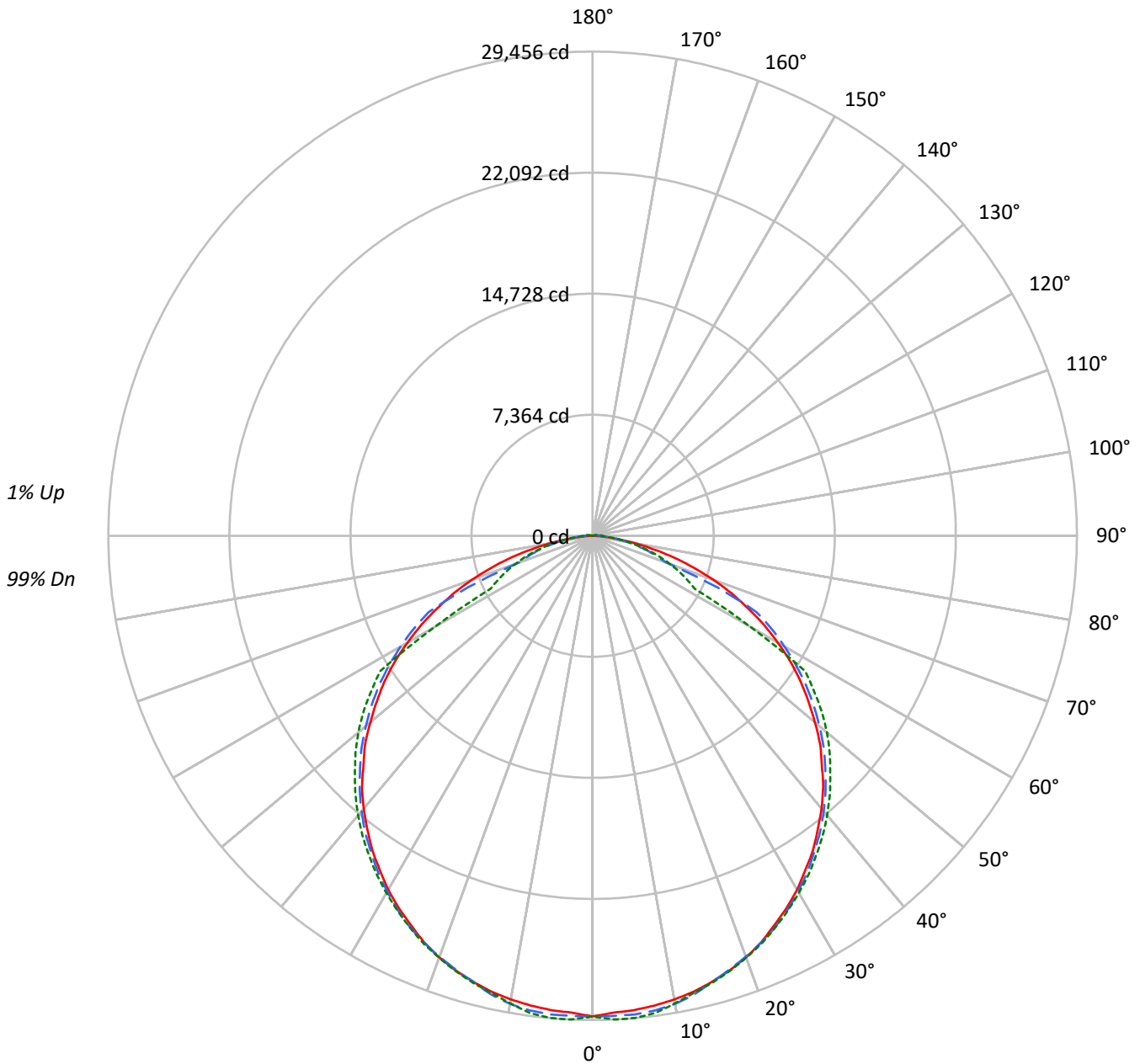
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 82096.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 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 (Ain): 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°	46243	46243	46243
5°	45988	46403	46753
10°	46000	46437	46380
15°	45992	45985	46085
20°	45930	45860	45973
25°	45616	45848	45884
30°	45405	45639	45817
35°	45110	45358	45784
40°	44721	45145	45812
45°	44076	44742	45717
50°	43412	44296	45760
55°	42581	43685	45256
60°	41155	42615	35232
65°	38937	41202	23712
70°	36014	21873	23013
75°	31413	20785	21976
80°	24157	19066	20140
85°	12194	19270	19733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2777.9	3.4
10°-20°	7954.0	9.7
20°-30°	12102.7	14.7
30°-40°	14715.2	17.9
40°-50°	15472.4	18.8
50°-60°	14128.1	17.2
60°-70°	9056.8	11.0
70°-80°	4278.3	5.2
80°-90°	1186.3	1.4
90°-100°	314.2	0.4
100°-110°	86.0	0.1
110°-120°	23.8	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°	22834.7	27.8
0°-40°	37550.0	45.7
0°-60°	67150.5	81.8
0°-90°	81671.9	99.5
90°-120°	424.1	0.5
90°-150°	424.1	0.5
90°-180°	424.0	0.5
0°-180°	82096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29240	29240	29240	29240	29240	
5°	28968	29081	29230	29389	29451	###
15°	28091	28301	28086	28127	28148	7931
25°	26142	26182	26275	26316	26295	12062
35°	23366	23227	23494	23781	23714	14602
45°	19707	19671	20005	20477	20441	15232
55°	15444	15326	15844	16372	16414	13773
65°	10405	10405	11010	6316	6337	10316
75°	5141	5239	3402	3581	3597	5419
85°	672	852	1062	1149	1088	993
90°	0	287	472	559	549	29
95°	15	149	339	457	457	8
105°	26	56	82	82	77	26
115°	26	36	51	36	5	18
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-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	29240.5	29240.5	29240.5	29240.5	29240.5
2.5°	29035.1	29132.9	29240.5	29379.0	29455.6
5°	28968.3	29081.3	29230.2	29389.3	29450.7
7.5°	28824.9	28983.5	29127.5	29240.5	29276.3
10°	28645.1	28835.2	28917.3	28907.0	28881.4
12.5°	28403.9	28604.4	28578.9	28460.4	28481.1
15°	28091.0	28301.3	28086.2	28126.9	28147.5
17.5°	27721.7	27927.0	27675.5	27757.5	27762.9
20°	27290.9	27444.6	27249.6	27316.4	27316.4
22.5°	26772.7	26880.2	26798.2	26844.4	26854.7
25°	26141.5	26182.2	26274.6	26315.8	26295.2
27.5°	25536.3	25484.7	25664.5	25761.8	25710.2
30°	24863.8	24781.8	24992.0	25151.2	25089.8
32.5°	24094.1	24043.0	24284.2	24473.8	24438.0
35°	23365.7	23227.1	23493.9	23781.2	23714.4
37.5°	22503.6	22421.6	22724.1	23027.2	22991.4
40°	21662.2	21523.6	21867.5	22226.5	22190.7
42.5°	20759.3	20594.7	20969.6	21400.9	21359.6
45°	19707.1	19671.3	20004.8	20476.9	20441.0
47.5°	18773.9	18594.1	19060.7	19517.6	19558.8
50°	17644.6	17578.3	18004.2	18558.2	18599.0
52.5°	16541.8	16495.7	16941.7	17501.2	17572.9
55°	15443.5	15325.6	15843.8	16372.4	16413.7
57.5°	14269.1	14145.7	14674.3	15249.0	15335.9
60°	13011.5	12893.6	13473.3	14007.2	11139.1
62.5°	11754.5	11672.5	12278.2	8696.8	7009.0
65°	10405.2	10405.2	11010.3	6315.9	6336.6
67.5°	9143.3	9061.3	8209.5	5674.4	5674.4
70°	7788.6	7819.5	4730.3	4972.0	4976.9
72.5°	6428.9	6541.9	4084.4	4278.9	4289.2
75°	5140.9	5238.7	3401.6	3581.4	3596.6
77.5°	3776.4	2904.0	2734.5	2873.6	2878.5
80°	2652.5	1831.7	2093.5	2226.6	2211.4
82.5°	1549.2	1282.5	1534.0	1631.8	1626.4
85°	672.0	851.8	1062.0	1149.4	1087.5
87.5°	215.1	528.5	661.6	713.2	707.8
90°	0.0	287.4	472.0	559.0	549.2
92.5°	0.0	225.4	410.7	513.3	518.2
95°	15.2	148.8	339.0	456.8	456.8
97.5°	10.3	107.6	241.2	359.1	369.4
100°	10.3	86.9	159.2	256.4	261.8
102.5°	25.5	71.7	97.2	164.0	169.5
105°	25.5	56.5	82.0	82.0	77.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.0	41.3	56.5	41.3	4.9
115°	25.5	35.9	51.1	35.9	4.9
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°	25.5	51.1	71.7	46.2	15.2
110°	31.0	46.2	61.4	41.3	4.9



(END OF REPORT)