

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: P829729

Luminaire Tested: **OHBL-100SE-W-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-W-UNV-L940-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

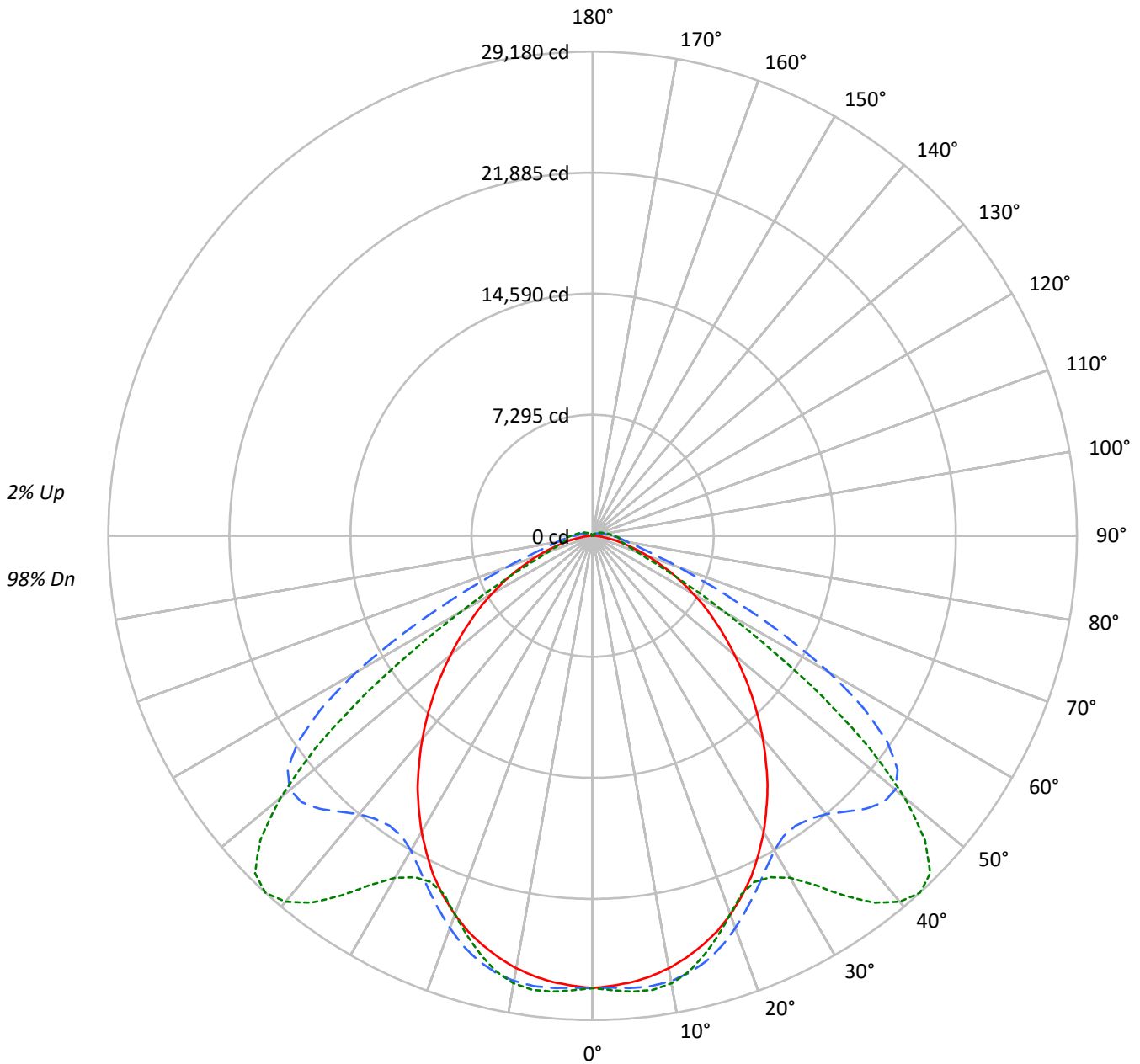
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 81613.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

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

	0°	45°	90°
0°	43107	43107	43107
5°	42705	43066	43414
10°	42169	43020	43282
15°	41347	42328	41715
20°	40220	40891	39494
25°	38712	39149	38521
30°	36706	37858	41245
35°	34417	38579	48001
40°	31763	41809	55154
45°	28986	47457	58876
50°	26091	52519	54350
55°	23369	52503	41128
60°	20599	44469	24846
65°	17673	30750	14817
70°	14359	19918	10470
75°	10923	14313	9400
80°	7841	12627	10043
85°	5322	13993	14151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2604.7	3.2
10°-20°	7375.8	9.0
20°-30°	10793.3	13.2
30°-40°	14017.3	17.2
40°-50°	17116.9	21.0
50°-60°	15074.1	18.5
60°-70°	7855.2	9.6
70°-80°	3368.6	4.1
80°-90°	1617.8	2.0
90°-100°	760.0	0.9
100°-110°	472.4	0.6
110°-120°	279.3	0.3
120°-130°	151.8	0.2
130°-140°	76.2	0.1
140°-150°	36.6	0.0
150°-160°	12.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	20773.9	25.5
0°-40°	34791.2	42.6
0°-60°	66982.2	82.1
0°-90°	79823.8	97.8
90°-120°	1511.8	1.9
90°-150°	1776.4	2.2
90°-180°	1789.0	2.2
0°-180°	81613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27257	27257	27257	27257	27257	
5°	27004	27210	27357	27598	27569	###
15°	25552	26269	26522	26322	26110	7195
25°	22641	23852	23446	23006	23029	10390
35°	18377	20318	21335	24881	26475	11454
45°	13532	17025	23270	28175	28763	10434
55°	9009	14914	21670	19001	16890	8086
65°	5169	10332	9921	5516	4746	5114
75°	2082	4834	3187	2182	2070	2270
85°	441	1723	1623	1588	1605	492
90°	6	623	1070	1223	1253	31
95°	12	365	853	1000	1029	9
105°	24	206	553	664	676	25
115°	35	118	341	418	429	36
125°	41	59	200	259	265	35
135°	35	35	94	159	165	27
145°	47	35	41	76	88	28
155°	47	47	35	35	35	14
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27257.3	27257.3	27257.3	27257.3	27257.3
2.5°	27139.6	27257.3	27263.1	27427.8	27410.2
5°	27004.4	27210.2	27357.2	27598.3	27568.9
7.5°	26780.9	27104.4	27363.1	27627.7	27604.2
10°	26463.4	26904.4	27245.5	27463.1	27392.5
12.5°	26051.7	26633.9	26969.1	27016.1	26880.9
15°	25551.8	26269.3	26522.2	26322.2	26110.5
17.5°	24987.3	25828.2	25916.4	25481.3	25216.6
20°	24281.6	25240.2	25151.9	24552.1	24258.1
22.5°	23499.5	24593.3	24311.0	23681.8	23399.5
25°	22640.9	23852.3	23446.5	23005.5	23029.0
27.5°	21635.3	23011.4	22617.3	22817.3	23193.7
30°	20612.0	22129.2	21888.1	23052.5	23793.5
32.5°	19488.8	21223.6	21441.2	23740.6	24952.0
35°	18377.3	20318.0	21335.3	24881.4	26475.1
37.5°	17148.3	19400.6	21505.9	26198.7	27868.8
40°	15954.5	18506.7	21894.0	27380.7	28792.1
42.5°	14737.1	17706.9	22546.8	28080.6	29180.3
45°	13531.6	17024.8	23270.1	28174.6	28762.7
47.5°	12326.0	16448.4	23770.0	27427.8	27157.3
50°	11161.7	15936.8	23805.3	25634.2	24528.6
52.5°	10073.7	15466.4	23158.4	22776.1	21058.9
55°	9009.3	14913.6	21670.5	19000.7	16889.5
57.5°	8039.0	14149.1	19377.1	14943.0	12637.7
60°	7009.8	13114.1	16413.2	10932.3	9115.2
62.5°	6063.0	11826.2	13090.5	7609.7	6551.1
65°	5169.2	10332.5	9920.8	5516.1	4745.8
67.5°	4222.4	8785.8	7321.5	4022.4	3528.4
70°	3481.4	7350.9	5451.5	3128.6	2840.4
72.5°	2722.8	5986.6	4075.4	2540.5	2381.7
75°	2081.8	4834.0	3187.4	2181.8	2070.0
77.5°	1534.9	3822.5	2564.0	1928.9	1823.0
80°	1076.2	3010.9	2146.5	1723.1	1681.9
82.5°	723.3	2328.8	1828.9	1640.7	1646.6
85°	441.1	1723.1	1623.1	1587.8	1605.4
87.5°	211.7	1223.2	1393.7	1446.7	1464.3
90°	5.9	623.4	1070.3	1223.2	1252.6
92.5°	0.0	476.3	940.9	1093.8	1123.2
95°	11.8	364.6	852.7	999.7	1029.1
97.5°	11.8	299.9	764.5	917.4	935.0
100°	17.6	258.8	682.2	829.2	846.8
102.5°	17.6	229.3	611.6	741.0	752.7
105°	23.5	205.8	552.8	664.5	676.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.3	141.1	388.1	470.5	482.2
115°	35.3	117.6	341.1	417.5	429.3
117.5°	41.2	105.9	299.9	370.5	376.4
120°	41.2	88.2	258.8	329.3	335.2
122.5°	41.2	70.6	229.3	294.0	299.9
125°	41.2	58.8	199.9	258.8	264.6
127.5°	35.3	41.2	170.5	229.3	235.2
130°	35.3	35.3	141.1	199.9	211.7
132.5°	35.3	35.3	117.6	176.4	188.2
135°	35.3	35.3	94.1	158.8	164.7
137.5°	35.3	35.3	76.4	135.3	147.0
140°	35.3	35.3	58.8	117.6	123.5
142.5°	41.2	35.3	52.9	100.0	105.9
145°	47.0	35.3	41.2	76.4	88.2
147.5°	47.0	41.2	41.2	64.7	70.6
150°	47.0	47.0	35.3	47.0	58.8
152.5°	47.0	47.0	35.3	35.3	47.0
155°	47.0	47.0	35.3	35.3	35.3
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°	29.4	182.3	494.0	594.0	605.7
110°	29.4	158.8	435.2	529.3	541.0



(END OF REPORT)