

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: P829957

Luminaire Tested: **OHBL-18SE-A-UNV-L940-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829957  
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-18SE-A-UNV-L940-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

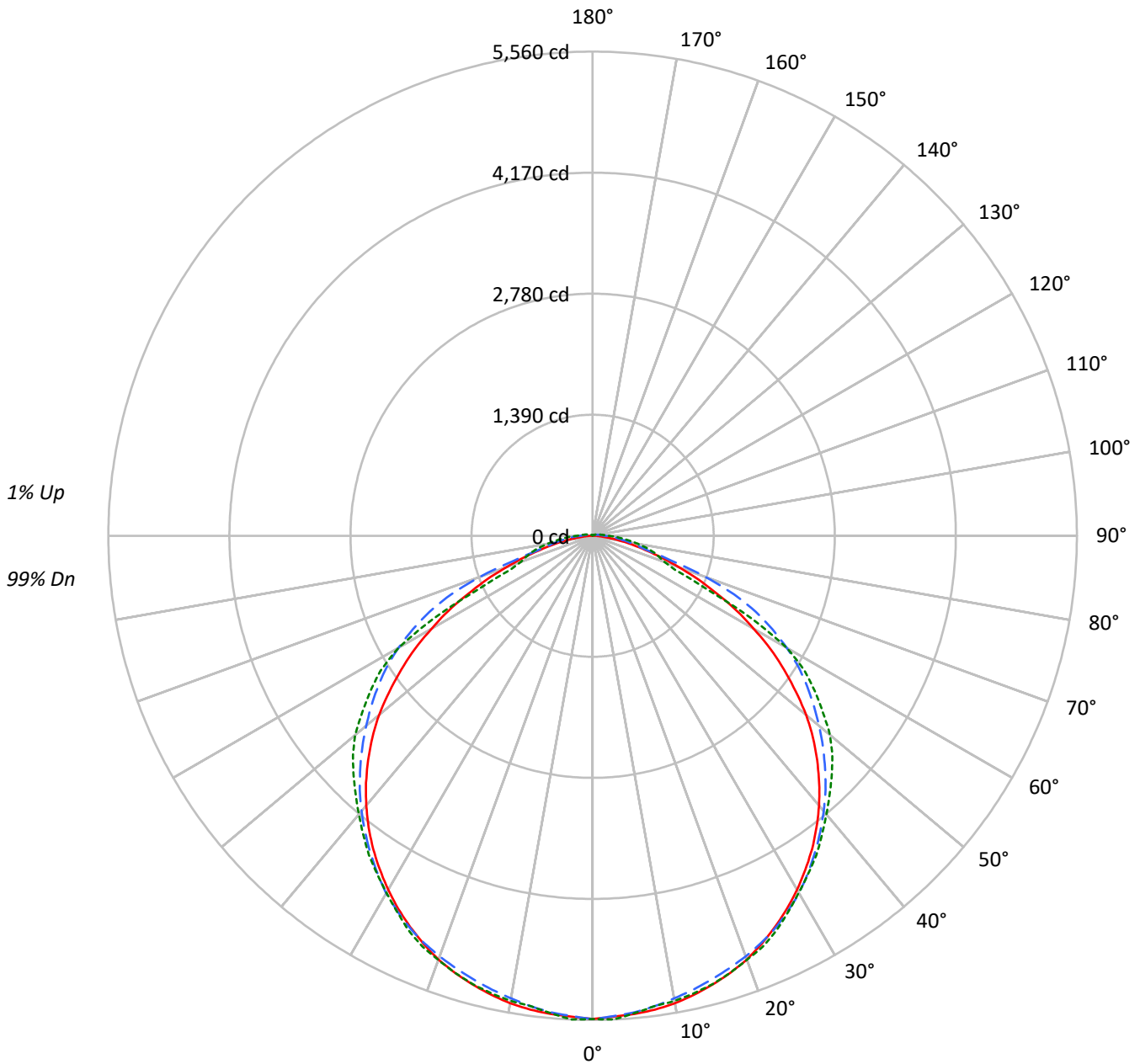
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15683.9 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 105  
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°	9478	9478	9478
5°	9416	9336	9354
10°	9381	9190	9244
15°	9322	9080	9176
20°	9262	9009	9089
25°	9150	8938	9002
30°	9029	8828	8825
35°	8883	8656	8724
40°	8695	8477	8589
45°	8433	8272	8524
50°	8078	8038	8446
55°	7514	7807	8120
60°	6776	7471	7494
65°	5813	6855	4739
70°	4682	5340	3426
75°	3510	3161	3462
80°	2443	2616	3283
85°	1390	2376	3038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.2	3.3
10°-20°	1500.3	9.6
20°-30°	2291.5	14.6
30°-40°	2780.4	17.7
40°-50°	2914.1	18.6
50°-60°	2640.6	16.8
60°-70°	1770.4	11.3
70°-80°	795.0	5.1
80°-90°	288.5	1.8
90°-100°	86.8	0.6
100°-110°	41.0	0.3
110°-120°	20.5	0.1
120°-130°	11.3	0.1
130°-140°	7.8	0.0
140°-150°	5.2	0.0
150°-160°	3.9	0.0
160°-170°	2.5	0.0
170°-180°	0.8	0.0
0°-30°	4315.1	27.5
0°-40°	7095.4	45.2
0°-60°	12650.2	80.7
0°-90°	15504.1	98.9
90°-120°	148.3	0.9
90°-150°	172.6	1.1
90°-180°	180.0	1.1
0°-180°	15683.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5549	5549	5549	5549	5549	
5°	5513	5532	5494	5510	5503	524
15°	5334	5313	5275	5322	5328	1506
25°	4955	4934	4968	5014	4999	2284
35°	4392	4402	4447	4495	4477	2745
45°	3645	3704	3773	3870	3882	2808
55°	2682	2811	3003	3124	3116	2394
65°	1574	1820	2067	1744	1424	1569
75°	619	899	661	676	720	677
85°	107	205	262	317	332	130
90°	1	68	136	170	178	6
95°	1	42	93	113	116	1
105°	3	18	46	55	58	4
115°	6	10	23	30	31	6
125°	6	6	14	17	18	6
135°	7	8	9	13	14	6
145°	7	8	8	9	10	5
155°	8	9	9	9	8	4
165°	9	9	9	9	9	2
175°	9	9	8	7	7	1
180°	8	8	8	8	8	



TEST NUMBER: P829957

CATALOG NUMBER: OHBL-18SE-A-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5549.0	5549.0	5549.0	5549.0	5549.0
2.5°	5526.5	5549.8	5520.9	5552.2	5560.2
5°	5512.9	5532.2	5493.7	5510.5	5503.3
7.5°	5488.0	5494.5	5448.7	5462.4	5447.9
10°	5451.1	5447.9	5394.2	5420.6	5423.8
12.5°	5396.6	5386.9	5338.8	5378.9	5379.7
15°	5334.0	5313.1	5275.4	5321.9	5328.4
17.5°	5261.8	5234.5	5209.6	5269.8	5260.2
20°	5177.5	5145.4	5140.6	5206.4	5182.3
22.5°	5073.2	5048.3	5059.6	5122.2	5106.9
25°	4955.3	4933.6	4968.1	5013.8	4999.4
27.5°	4830.9	4818.1	4857.4	4892.7	4864.6
30°	4694.5	4687.3	4739.4	4768.3	4733.0
32.5°	4546.1	4548.5	4598.2	4637.5	4604.7
35°	4392.0	4402.5	4447.4	4494.7	4477.1
37.5°	4222.7	4246.0	4290.9	4344.7	4326.2
40°	4043.8	4077.5	4127.3	4192.2	4175.4
42.5°	3850.4	3893.0	3957.2	4029.4	4027.8
45°	3645.0	3704.4	3773.4	3869.7	3881.7
47.5°	3431.6	3498.2	3585.7	3714.1	3732.5
50°	3199.7	3283.2	3392.3	3546.4	3557.6
52.5°	2941.4	3055.3	3199.7	3347.4	3333.7
55°	2682.2	2811.4	3003.2	3123.5	3116.3
57.5°	2423.9	2569.1	2801.8	2887.6	2886.8
60°	2135.0	2318.8	2573.1	2638.1	2573.9
62.5°	1867.9	2065.2	2329.2	2281.9	2062.0
65°	1574.2	1820.5	2066.8	1744.3	1424.2
67.5°	1313.4	1570.2	1755.5	1194.7	1023.0
70°	1051.1	1334.3	1368.8	886.6	874.6
72.5°	818.4	1120.1	944.4	759.0	797.5
75°	619.4	898.6	661.1	676.4	720.5
77.5°	451.7	690.0	514.3	592.9	629.0
80°	310.5	488.6	419.6	498.3	523.1
82.5°	195.0	322.5	336.2	401.2	426.8
85°	106.7	204.6	262.4	316.9	332.2
87.5°	44.1	123.6	200.6	244.7	257.6
90°	0.8	68.2	135.6	170.1	178.1
92.5°	0.8	52.2	110.7	137.2	142.8
95°	0.8	42.5	93.1	113.1	116.3
97.5°	1.6	33.7	77.8	93.9	97.1
100°	2.4	28.1	65.0	78.6	81.0
102.5°	3.2	22.5	54.6	65.8	68.2
105°	3.2	18.5	45.7	55.4	57.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	11.2	27.3	34.5	36.1
115°	6.4	9.6	23.3	29.7	31.3
117.5°	6.4	8.0	20.1	24.9	26.5
120°	6.4	7.2	17.7	21.7	22.5
122.5°	6.4	6.4	15.2	19.3	20.1
125°	5.6	6.4	14.4	16.8	17.7
127.5°	6.4	6.4	12.8	15.2	16.0
130°	6.4	7.2	11.2	14.4	14.4
132.5°	7.2	8.0	10.4	13.6	13.6
135°	7.2	8.0	8.8	12.8	13.6
137.5°	8.0	8.0	8.0	12.0	12.8
140°	8.0	8.0	7.2	10.4	11.2
142.5°	7.2	8.0	7.2	9.6	10.4
145°	7.2	8.0	8.0	8.8	9.6
147.5°	8.0	8.0	8.0	8.0	8.8
150°	8.0	8.0	8.0	8.0	8.0
152.5°	8.0	8.0	8.0	8.0	8.0
155°	8.0	8.8	8.8	8.8	8.0
157.5°	8.0	8.8	8.8	8.8	8.8
160°	8.0	8.8	8.8	8.8	8.8
162.5°	8.8	8.8	8.8	8.8	8.8
165°	8.8	8.8	8.8	8.8	8.8
167.5°	8.8	9.6	8.8	8.8	8.8
170°	8.8	8.8	8.8	8.0	8.0
172.5°	8.8	8.8	8.8	8.0	8.0
175°	8.8	8.8	8.0	7.2	7.2
177.5°	9.6	8.8	8.0	7.2	6.4
180°	8.0	8.0	8.0	8.0	8.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.0	15.2	39.3	47.3	48.9
110°	4.8	12.8	32.9	40.1	41.7



(END OF REPORT)