

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: P829997

Luminaire Tested: **OHBL-18SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829997  
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-18SE-NL-UNV-L740-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

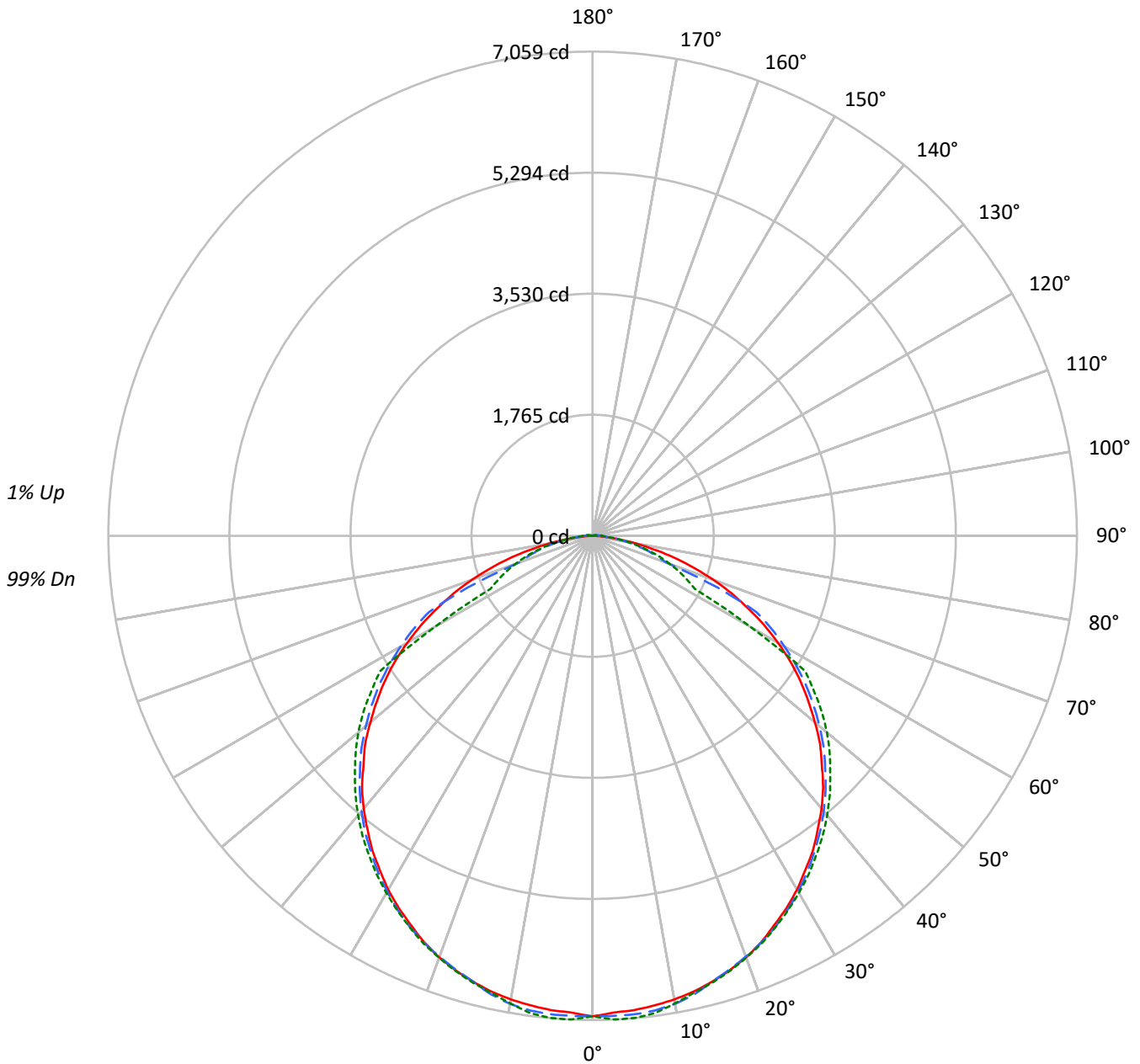
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19673.0 lumens  
Efficiency: N/A  
Efficacy: 187.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
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

TEST NUMBER: P829997  
CATALOG NUMBER: OHBL-18SE-NL-UNV-L740-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829997

CATALOG NUMBER: OHBL-18SE-NL-UNV-L740-CD

**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°	11968	11968	11968
5°	11902	12009	12100
10°	11905	12018	12003
15°	11903	11901	11927
20°	11887	11869	11898
25°	11806	11866	11875
30°	11751	11811	11858
35°	11675	11739	11849
40°	11574	11684	11856
45°	11407	11579	11832
50°	11235	11464	11843
55°	11020	11306	11713
60°	10651	11029	9118
65°	10077	10663	6137
70°	9320	5661	5956
75°	8130	5379	5688
80°	6252	4935	5212
85°	3155	4987	5107



TEST NUMBER: P829997

CATALOG NUMBER: OHBL-18SE-NL-UNV-L740-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.7	3.4
10°-20°	1906.1	9.7
20°-30°	2900.2	14.7
30°-40°	3526.3	17.9
40°-50°	3707.7	18.8
50°-60°	3385.6	17.2
60°-70°	2170.3	11.0
70°-80°	1025.2	5.2
80°-90°	284.3	1.4
90°-100°	75.3	0.4
100°-110°	20.6	0.1
110°-120°	5.7	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°	5472.0	27.8
0°-40°	8998.3	45.7
0°-60°	16091.6	81.8
0°-90°	19571.4	99.5
90°-120°	101.6	0.5
90°-150°	101.6	0.5
90°-180°	102.0	0.5
0°-180°	19673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7007	7007	7007	7007	7007	
5°	6942	6969	7004	7043	7057	660
15°	6732	6782	6730	6740	6745	1900
25°	6264	6274	6296	6306	6301	2891
35°	5599	5566	5630	5699	5683	3499
45°	4722	4714	4794	4907	4898	3650
55°	3701	3672	3797	3923	3933	3300
65°	2493	2493	2638	1514	1518	2472
75°	1232	1255	815	858	862	1299
85°	161	204	254	275	261	238
90°	0	69	113	134	132	7
95°	4	36	81	110	110	2
105°	6	14	20	20	18	6
115°	6	9	12	9	1	4
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



TEST NUMBER: P829997

CATALOG NUMBER: OHBL-18SE-NL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7007.0	7007.0	7007.0	7007.0	7007.0
2.5°	6957.8	6981.2	7007.0	7040.2	7058.6
5°	6941.8	6968.9	7004.5	7042.7	7057.4
7.5°	6907.4	6945.4	6979.9	7007.0	7015.6
10°	6864.3	6909.9	6929.6	6927.1	6921.0
12.5°	6806.6	6854.6	6848.5	6820.1	6825.0
15°	6731.6	6781.9	6730.4	6740.2	6745.1
17.5°	6643.1	6692.3	6632.0	6651.6	6652.9
20°	6539.8	6576.7	6529.9	6545.9	6545.9
22.5°	6415.6	6441.4	6421.8	6432.8	6435.3
25°	6264.4	6274.1	6296.3	6306.2	6301.2
27.5°	6119.4	6107.0	6150.1	6173.4	6161.0
30°	5958.2	5938.6	5988.9	6027.1	6012.4
32.5°	5773.8	5761.5	5819.3	5864.8	5856.2
35°	5599.2	5566.0	5629.9	5698.8	5682.8
37.5°	5392.6	5373.0	5445.5	5518.1	5509.5
40°	5191.0	5157.8	5240.2	5326.2	5317.6
42.5°	4974.6	4935.2	5025.0	5128.4	5118.5
45°	4722.5	4713.9	4793.8	4907.0	4898.4
47.5°	4498.9	4455.8	4567.6	4677.1	4687.0
50°	4228.2	4212.4	4314.4	4447.2	4457.0
52.5°	3964.0	3952.9	4059.8	4193.9	4211.1
55°	3700.8	3672.5	3796.7	3923.4	3933.3
57.5°	3419.4	3389.8	3516.5	3654.2	3675.0
60°	3118.0	3089.8	3228.7	3356.6	2669.3
62.5°	2816.8	2797.1	2942.3	2084.1	1679.6
65°	2493.4	2493.4	2638.5	1513.5	1518.5
67.5°	2191.1	2171.4	1967.3	1359.8	1359.8
70°	1866.4	1873.8	1133.5	1191.5	1192.6
72.5°	1540.6	1567.7	978.8	1025.4	1027.8
75°	1231.9	1255.4	815.1	858.2	861.9
77.5°	905.0	695.9	655.3	688.6	689.8
80°	635.6	438.9	501.7	533.6	529.9
82.5°	371.2	307.3	367.6	391.0	389.7
85°	161.0	204.1	254.5	275.4	260.6
87.5°	51.5	126.7	158.5	170.9	169.6
90°	0.0	68.9	113.1	133.9	131.6
92.5°	0.0	54.0	98.4	123.0	124.2
95°	3.6	35.7	81.2	109.5	109.5
97.5°	2.5	25.8	57.8	86.0	88.5
100°	2.5	20.8	38.1	61.4	62.7
102.5°	6.1	17.2	23.3	39.3	40.6
105°	6.1	13.5	19.7	19.7	18.5



TEST NUMBER: P829997

CATALOG NUMBER: OHBL-18SE-NL-UNV-L740-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.4	9.9	13.5	9.9	1.2
115°	6.1	8.6	12.2	8.6	1.2
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°	6.1	12.2	17.2	11.1	3.6
110°	7.4	11.1	14.7	9.9	1.2



(END OF REPORT)