

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: P829947

Luminaire Tested: **OHBL-18SE-A-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829947  
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-L730-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

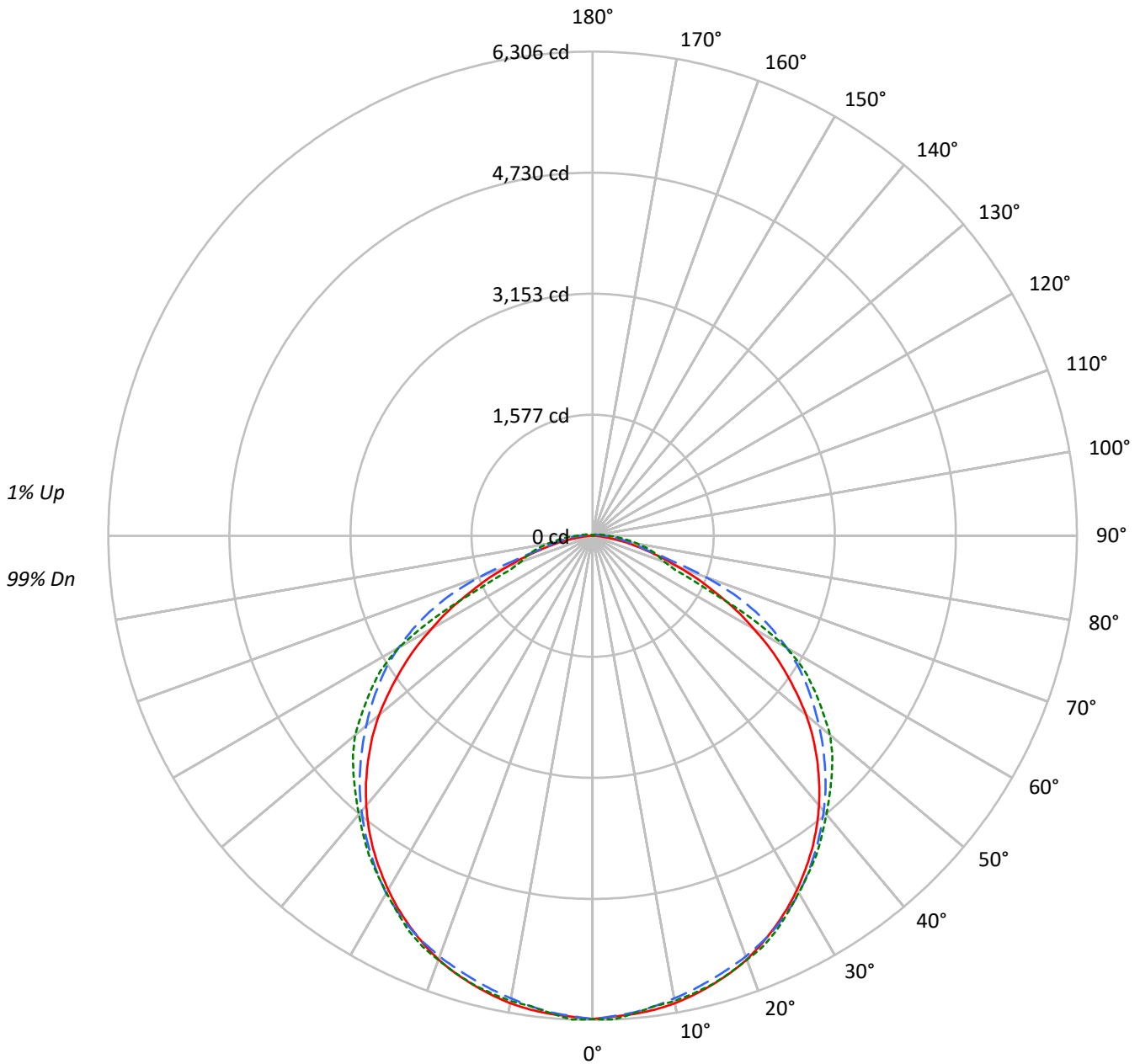
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17789.0 lumens  
Efficiency: N/A  
Efficacy: 169.4 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 (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

TEST NUMBER: P829947

CATALOG NUMBER: OHBL-18SE-A-UNV-L730-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829947

CATALOG NUMBER: OHBL-18SE-A-UNV-L730-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	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°	10750	10750	10750
5°	10679	10589	10609
10°	10640	10424	10484
15°	10573	10299	10407
20°	10505	10219	10308
25°	10378	10138	10210
30°	10241	10013	10009
35°	10076	9817	9895
40°	9861	9615	9741
45°	9565	9382	9668
50°	9162	9117	9580
55°	8522	8854	9210
60°	7685	8474	8500
65°	6593	7775	5375
70°	5310	6057	3886
75°	3981	3585	3927
80°	2771	2967	3724
85°	1577	2694	3445



TEST NUMBER: P829947

CATALOG NUMBER: OHBL-18SE-A-UNV-L730-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.4	3.3
10°-20°	1701.7	9.6
20°-30°	2599.1	14.6
30°-40°	3153.6	17.7
40°-50°	3305.2	18.6
50°-60°	2995.0	16.8
60°-70°	2008.0	11.3
70°-80°	901.7	5.1
80°-90°	327.2	1.8
90°-100°	98.5	0.6
100°-110°	46.5	0.3
110°-120°	23.3	0.1
120°-130°	12.9	0.1
130°-140°	8.8	0.0
140°-150°	5.9	0.0
150°-160°	4.4	0.0
160°-170°	2.8	0.0
170°-180°	0.9	0.0
0°-30°	4894.2	27.5
0°-40°	8047.8	45.2
0°-60°	14348.0	80.7
0°-90°	17584.9	98.9
90°-120°	168.3	0.9
90°-150°	195.9	1.1
90°-180°	204.0	1.1
0°-180°	17789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6294	6294	6294	6294	6294	
5°	6253	6275	6231	6250	6242	595
15°	6050	6026	5983	6036	6044	1708
25°	5620	5596	5635	5687	5670	2591
35°	4982	4993	5044	5098	5078	3114
45°	4134	4202	4280	4389	4403	3185
55°	3042	3189	3406	3543	3535	2716
65°	1786	2065	2344	1978	1615	1779
75°	702	1019	750	767	817	768
85°	121	232	298	360	377	148
90°	1	77	154	193	202	7
95°	1	48	106	128	132	1
105°	4	21	52	63	66	4
115°	7	11	26	34	36	7
125°	6	7	16	19	20	6
135°	8	9	10	15	16	7
145°	8	9	9	10	11	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829947

CATALOG NUMBER: OHBL-18SE-A-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6293.8	6293.8	6293.8	6293.8	6293.8
2.5°	6268.3	6294.7	6261.9	6297.4	6306.5
5°	6252.8	6274.7	6231.0	6250.1	6241.9
7.5°	6224.6	6231.9	6180.0	6195.5	6179.1
10°	6182.7	6179.1	6118.1	6148.2	6151.8
12.5°	6120.9	6109.9	6055.3	6100.8	6101.7
15°	6049.9	6026.2	5983.4	6036.2	6043.5
17.5°	5968.0	5937.0	5908.8	5977.1	5966.2
20°	5872.4	5836.0	5830.6	5905.2	5877.9
22.5°	5754.1	5725.9	5738.6	5809.6	5792.3
25°	5620.3	5595.8	5634.9	5686.8	5670.4
27.5°	5479.3	5464.7	5509.3	5549.4	5517.5
30°	5324.6	5316.4	5375.5	5408.3	5368.3
32.5°	5156.2	5159.0	5215.4	5260.0	5222.7
35°	4981.5	4993.3	5044.3	5098.0	5078.0
37.5°	4789.5	4815.9	4866.8	4927.8	4906.9
40°	4586.5	4624.8	4681.2	4754.9	4735.8
42.5°	4367.2	4415.5	4488.3	4570.2	4568.3
45°	4134.3	4201.6	4279.9	4389.1	4402.7
47.5°	3892.2	3967.7	4066.9	4212.5	4233.5
50°	3629.2	3723.8	3847.6	4022.3	4035.1
52.5°	3336.2	3465.4	3629.2	3796.6	3781.2
55°	3042.2	3188.7	3406.2	3542.7	3534.6
57.5°	2749.2	2913.9	3177.8	3275.2	3274.3
60°	2421.6	2630.0	2918.5	2992.2	2919.4
62.5°	2118.5	2342.4	2641.8	2588.1	2338.8
65°	1785.5	2064.9	2344.2	1978.4	1615.3
67.5°	1489.7	1780.9	1991.1	1355.0	1160.3
70°	1192.1	1513.4	1552.5	1005.6	991.9
72.5°	928.2	1270.4	1071.1	860.9	904.6
75°	702.5	1019.2	749.9	767.2	817.2
77.5°	512.3	782.6	583.3	672.5	713.5
80°	352.2	554.2	475.9	565.1	593.3
82.5°	221.1	365.8	381.3	455.0	484.1
85°	121.0	232.1	297.6	359.5	376.8
87.5°	50.1	140.1	227.5	277.6	292.1
90°	0.9	77.4	153.8	192.9	202.0
92.5°	0.9	59.2	125.6	155.6	162.0
95°	0.9	48.2	105.6	128.3	132.0
97.5°	1.8	38.2	88.3	106.5	110.1
100°	2.7	31.9	73.7	89.2	91.9
102.5°	3.6	25.5	61.9	74.6	77.4
105°	3.6	20.9	51.9	62.8	65.5



TEST NUMBER: P829947

CATALOG NUMBER: OHBL-18SE-A-UNV-L730-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	12.7	30.9	39.1	41.0
115°	7.3	10.9	26.4	33.7	35.5
117.5°	7.3	9.1	22.8	28.2	30.0
120°	7.3	8.2	20.0	24.6	25.5
122.5°	7.3	7.3	17.3	21.8	22.8
125°	6.4	7.3	16.4	19.1	20.0
127.5°	7.3	7.3	14.6	17.3	18.2
130°	7.3	8.2	12.7	16.4	16.4
132.5°	8.2	9.1	11.8	15.5	15.5
135°	8.2	9.1	10.0	14.6	15.5
137.5°	9.1	9.1	9.1	13.7	14.6
140°	9.1	9.1	8.2	11.8	12.7
142.5°	8.2	9.1	8.2	10.9	11.8
145°	8.2	9.1	9.1	10.0	10.9
147.5°	9.1	9.1	9.1	9.1	10.0
150°	9.1	9.1	9.1	9.1	9.1
152.5°	9.1	9.1	9.1	9.1	9.1
155°	9.1	10.0	10.0	10.0	9.1
157.5°	9.1	10.0	10.0	10.0	10.0
160°	9.1	10.0	10.0	10.0	10.0
162.5°	10.0	10.0	10.0	10.0	10.0
165°	10.0	10.0	10.0	10.0	10.0
167.5°	10.0	10.9	10.0	10.0	10.0
170°	10.0	10.0	10.0	9.1	9.1
172.5°	10.0	10.0	10.0	9.1	9.1
175°	10.0	10.0	9.1	8.2	8.2
177.5°	10.9	10.0	9.1	8.2	7.3
180°	9.1	9.1	9.1	9.1	9.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.6	17.3	44.6	53.7	55.5
110°	5.5	14.6	37.3	45.5	47.3



(END OF REPORT)