

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: P829971

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-MFL-UNV-L730-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

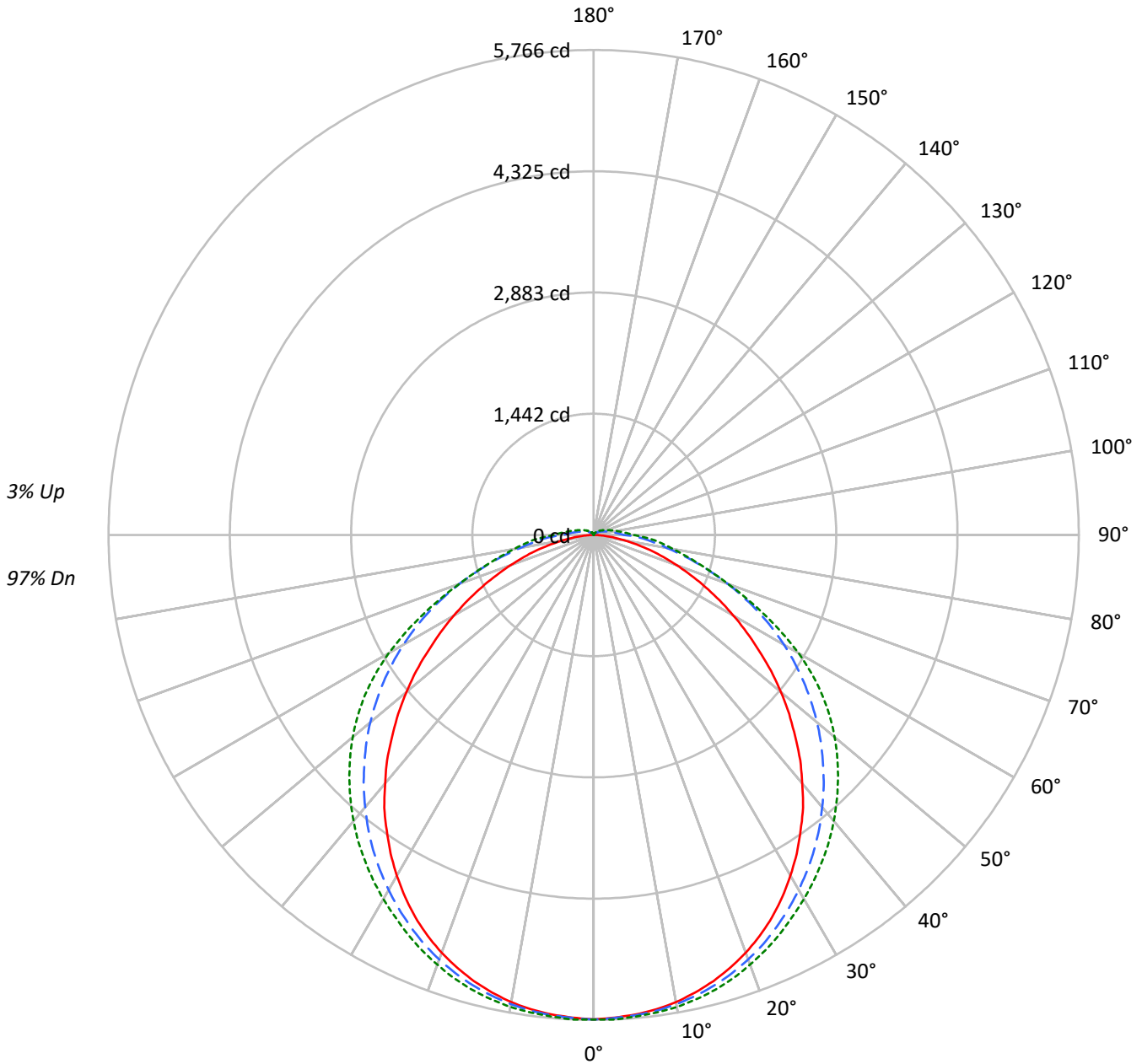
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17241.0 lumens  
Efficiency: N/A  
Efficacy: 164.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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

TEST NUMBER: P829971

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

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	9839	9839	9839
5°	9776	9742	9770
10°	9708	9651	9712
15°	9599	9544	9639
20°	9455	9414	9534
25°	9263	9253	9428
30°	8997	9078	9322
35°	8675	8893	9228
40°	8288	8679	9135
45°	7831	8447	9018
50°	7332	8211	8877
55°	6718	7924	8644
60°	6090	7585	8189
65°	5404	7154	7450
70°	4660	6606	6650
75°	3907	5972	6098
80°	2962	5502	6008
85°	1874	5667	6626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.9	3.2
10°-20°	1566.0	9.1
20°-30°	2368.3	13.7
30°-40°	2843.2	16.5
40°-50°	2936.5	17.0
50°-60°	2642.0	15.3
60°-70°	1990.1	11.5
70°-80°	1201.7	7.0
80°-90°	587.7	3.4
90°-100°	247.4	1.4
100°-110°	141.2	0.8
110°-120°	82.9	0.5
120°-130°	46.9	0.3
130°-140°	24.7	0.1
140°-150°	12.0	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4480.2	26.0
0°-40°	7323.4	42.5
0°-60°	12901.9	74.8
0°-90°	16681.5	96.8
90°-120°	471.5	2.7
90°-150°	555.1	3.2
90°-180°	560.0	3.2
0°-180°	17241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5761	5761	5761	5761	5761	
5°	5724	5740	5733	5755	5748	544
15°	5493	5520	5545	5592	5597	1549
25°	5016	5071	5143	5224	5236	2307
35°	4289	4389	4569	4708	4736	2681
45°	3385	3556	3853	4063	4107	2613
55°	2398	2646	3048	3278	3317	2150
65°	1464	1762	2157	2264	2239	1454
75°	689	990	1249	1282	1269	735
85°	144	379	626	712	725	166
90°	0	148	358	451	470	9
95°	7	100	268	341	354	6
105°	10	58	155	203	212	10
115°	11	32	96	128	134	12
125°	11	16	58	83	87	10
135°	10	13	30	51	56	8
145°	14	13	14	25	30	8
155°	14	16	14	13	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5760.8	5760.8	5760.8	5760.8	5760.8
2.5°	5743.8	5757.9	5749.5	5767.8	5766.4
5°	5724.1	5739.6	5732.6	5755.1	5748.1
7.5°	5690.3	5707.2	5705.8	5731.2	5728.3
10°	5640.9	5659.3	5664.9	5698.7	5698.7
12.5°	5573.3	5597.2	5611.3	5652.2	5653.6
15°	5492.9	5519.7	5545.1	5591.6	5597.2
17.5°	5395.6	5429.4	5464.7	5518.3	5525.3
20°	5285.6	5323.7	5371.6	5428.0	5436.5
22.5°	5158.7	5203.9	5265.9	5332.2	5342.0
25°	5016.4	5071.3	5143.2	5223.6	5236.3
27.5°	4854.2	4917.7	5014.9	5105.2	5116.5
30°	4678.0	4752.7	4874.0	4981.1	4999.4
32.5°	4491.9	4577.9	4727.3	4847.2	4872.5
35°	4288.9	4389.0	4569.4	4707.6	4735.8
37.5°	4088.6	4198.6	4403.1	4561.0	4594.8
40°	3854.6	3991.4	4225.4	4400.2	4441.1
42.5°	3634.7	3782.7	4047.8	4238.1	4277.6
45°	3385.1	3555.7	3853.2	4063.3	4107.0
47.5°	3151.1	3335.8	3665.7	3882.8	3927.9
50°	2904.4	3107.4	3465.5	3692.5	3739.0
52.5°	2657.6	2876.2	3258.2	3493.7	3537.4
55°	2398.2	2646.3	3048.2	3278.0	3317.4
57.5°	2157.1	2419.4	2832.4	3051.0	3074.9
60°	1918.8	2191.0	2612.5	2804.2	2812.7
62.5°	1686.2	1972.4	2386.9	2539.2	2527.9
65°	1463.5	1762.3	2157.1	2264.3	2238.9
67.5°	1249.2	1557.9	1921.7	1990.7	1956.9
70°	1046.1	1359.1	1693.3	1728.5	1697.5
72.5°	867.1	1170.2	1462.0	1491.7	1469.1
75°	689.4	989.7	1249.2	1281.6	1268.9
77.5°	523.1	814.9	1053.2	1095.5	1098.3
80°	376.4	655.6	882.6	948.8	957.3
82.5°	248.1	509.0	740.2	824.8	837.5
85°	143.8	379.3	626.0	712.0	724.7
87.5°	62.0	273.5	503.3	580.9	596.4
90°	0.0	148.0	358.1	451.2	469.5
92.5°	4.2	122.7	307.4	391.9	407.5
95°	7.0	100.1	267.9	341.2	353.9
97.5°	8.5	84.6	232.6	297.5	310.2
100°	8.5	73.3	201.6	260.8	272.1
102.5°	8.5	64.9	176.2	228.4	238.3
105°	9.9	57.8	155.1	203.0	211.5



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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.3	38.1	107.2	143.8	149.4
115°	11.3	32.4	95.9	128.3	133.9
117.5°	12.7	28.2	84.6	115.6	119.8
120°	12.7	24.0	74.7	102.9	108.6
122.5°	12.7	19.7	66.3	93.1	97.3
125°	11.3	15.5	57.8	83.2	87.4
127.5°	9.9	12.7	49.3	74.7	79.0
130°	9.9	11.3	42.3	66.3	70.5
132.5°	9.9	12.7	35.2	57.8	63.4
135°	9.9	12.7	29.6	50.8	56.4
137.5°	9.9	12.7	24.0	43.7	49.3
140°	11.3	12.7	19.7	36.7	42.3
142.5°	12.7	12.7	15.5	31.0	35.2
145°	14.1	12.7	14.1	25.4	29.6
147.5°	14.1	14.1	14.1	19.7	24.0
150°	14.1	15.5	14.1	15.5	19.7
152.5°	14.1	15.5	14.1	12.7	15.5
155°	14.1	15.5	14.1	12.7	14.1
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°	9.9	50.8	136.8	180.5	187.5
110°	9.9	45.1	121.2	160.7	167.8



(END OF REPORT)