

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: P829995

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829995  
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-L730-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

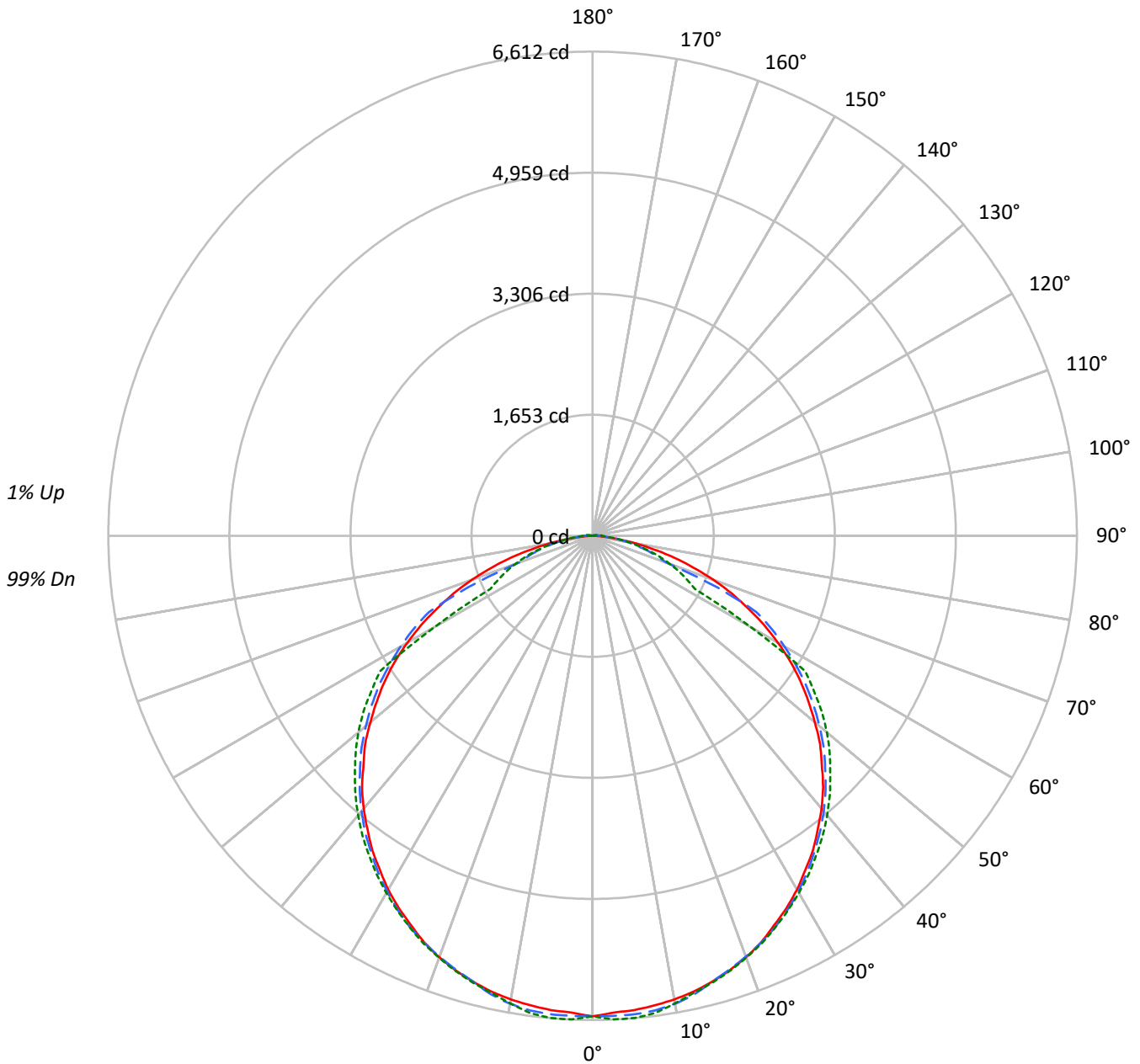
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18427.0 lumens  
Efficiency: N/A  
Efficacy: 175.5 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 (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

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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	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°	11210	11210	11210
5°	11148	11249	11334
10°	11151	11257	11243
15°	11149	11147	11172
20°	11134	11117	11144
25°	11058	11114	11123
30°	11007	11063	11107
35°	10935	10995	11099
40°	10841	10944	11106
45°	10685	10846	11082
50°	10523	10738	11093
55°	10322	10590	10971
60°	9976	10331	8541
65°	9439	9988	5748
70°	8730	5302	5579
75°	7615	5038	5328
80°	5856	4622	4883
85°	2955	4672	4784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.5	3.4
10°-20°	1785.3	9.7
20°-30°	2716.5	14.7
30°-40°	3302.9	17.9
40°-50°	3472.9	18.8
50°-60°	3171.2	17.2
60°-70°	2032.9	11.0
70°-80°	960.3	5.2
80°-90°	266.3	1.4
90°-100°	70.5	0.4
100°-110°	19.3	0.1
110°-120°	5.4	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°	5125.4	27.8
0°-40°	8428.4	45.7
0°-60°	15072.4	81.8
0°-90°	18331.9	99.5
90°-120°	95.2	0.5
90°-150°	95.2	0.5
90°-180°	95.0	0.5
0°-180°	18427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6563	6563	6563	6563	6563	
5°	6502	6528	6561	6597	6610	618
15°	6305	6352	6304	6313	6318	1780
25°	5868	5877	5898	5907	5902	2707
35°	5245	5214	5273	5338	5323	3278
45°	4423	4415	4490	4596	4588	3419
55°	3466	3440	3556	3675	3684	3091
65°	2336	2336	2471	1418	1422	2315
75°	1154	1176	764	804	807	1216
85°	151	191	238	258	244	223
90°	0	64	106	126	123	7
95°	3	33	76	102	102	2
105°	6	13	18	18	17	6
115°	6	8	12	8	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



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6563.2	6563.2	6563.2	6563.2	6563.2
2.5°	6517.1	6539.1	6563.2	6594.3	6611.5
5°	6502.1	6527.5	6560.9	6596.6	6610.4
7.5°	6469.9	6505.6	6537.9	6563.2	6571.3
10°	6429.6	6472.3	6490.7	6488.4	6482.6
12.5°	6375.5	6420.4	6414.7	6388.1	6392.8
15°	6305.2	6352.4	6304.1	6313.3	6317.9
17.5°	6222.3	6268.4	6212.0	6230.4	6231.6
20°	6125.6	6160.1	6116.4	6131.4	6131.4
22.5°	6009.3	6033.4	6015.0	6025.4	6027.7
25°	5867.6	5876.8	5897.5	5906.8	5902.1
27.5°	5731.8	5720.2	5760.6	5782.4	5770.8
30°	5580.9	5562.4	5609.6	5645.4	5631.6
32.5°	5408.1	5396.6	5450.8	5493.3	5485.3
35°	5244.6	5213.5	5273.4	5337.9	5322.9
37.5°	5051.1	5032.7	5100.6	5168.6	5160.6
40°	4862.2	4831.1	4908.3	4988.9	4980.9
42.5°	4659.6	4622.6	4706.8	4803.6	4794.3
45°	4423.4	4415.4	4490.2	4596.2	4588.1
47.5°	4213.9	4173.6	4278.3	4380.8	4390.1
50°	3960.4	3945.6	4041.2	4165.5	4174.7
52.5°	3712.9	3702.6	3802.7	3928.3	3944.3
55°	3466.4	3439.9	3556.3	3674.9	3684.2
57.5°	3202.8	3175.1	3293.7	3422.7	3442.3
60°	2920.5	2894.1	3024.2	3144.0	2500.2
62.5°	2638.4	2620.0	2755.9	1952.1	1573.2
65°	2335.5	2335.5	2471.3	1417.6	1422.3
67.5°	2052.3	2033.9	1842.7	1273.7	1273.7
70°	1748.2	1755.1	1061.7	1116.0	1117.1
72.5°	1443.0	1468.4	916.8	960.4	962.7
75°	1153.9	1175.9	763.5	803.9	807.3
77.5°	847.6	651.8	613.8	645.0	646.1
80°	595.4	411.1	469.9	499.8	496.4
82.5°	347.7	287.9	344.3	366.3	365.1
85°	150.8	191.2	238.4	258.0	244.1
87.5°	48.3	118.6	148.5	160.1	158.9
90°	0.0	64.5	106.0	125.5	123.3
92.5°	0.0	50.6	92.2	115.2	116.3
95°	3.4	33.4	76.1	102.5	102.5
97.5°	2.3	24.1	54.1	80.6	82.9
100°	2.3	19.5	35.7	57.5	58.8
102.5°	5.7	16.1	21.8	36.8	38.0
105°	5.7	12.7	18.4	18.4	17.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.9	9.3	12.7	9.3	1.1
115°	5.7	8.0	11.5	8.0	1.1
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°	5.7	11.5	16.1	10.4	3.4
110°	6.9	10.4	13.8	9.3	1.1



(END OF REPORT)