

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: P829887

Luminaire Tested: **OHBL-18HE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829887  
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-18HE-MCL-UNV-L730-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

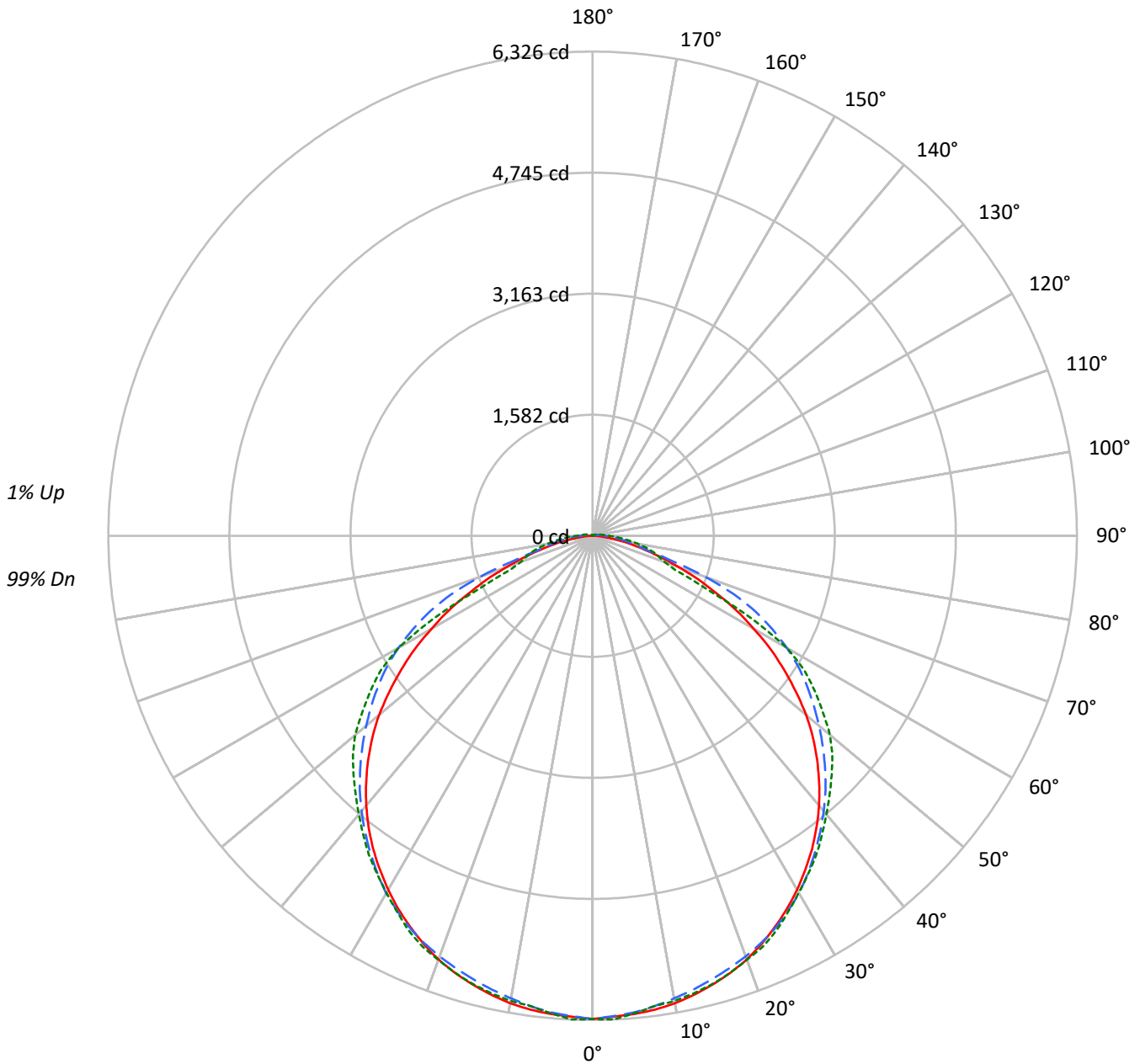
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17843.9 lumens  
Efficiency: N/A  
Efficacy: 173.2 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): 103  
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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CATALOG NUMBER: OHBL-18HE-MCL-UNV-L730-CD

### 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°	10783	10783	10783
5°	10712	10621	10642
10°	10673	10456	10517
15°	10605	10331	10440
20°	10538	10250	10340
25°	10411	10169	10242
30°	10272	10044	10040
35°	10107	9848	9926
40°	9892	9645	9772
45°	9594	9411	9697
50°	9190	9145	9609
55°	8549	8882	9238
60°	7709	8500	8526
65°	6613	7799	5392
70°	5326	6076	3898
75°	3993	3596	3939
80°	2780	2976	3735
85°	1582	2702	3455



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.3	3.3
10°-20°	1707.0	9.6
20°-30°	2607.1	14.6
30°-40°	3163.3	17.7
40°-50°	3315.4	18.6
50°-60°	3004.3	16.8
60°-70°	2014.3	11.3
70°-80°	904.5	5.1
80°-90°	328.2	1.8
90°-100°	98.8	0.6
100°-110°	46.6	0.3
110°-120°	23.4	0.1
120°-130°	12.9	0.1
130°-140°	8.9	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°	4909.3	27.5
0°-40°	8072.6	45.2
0°-60°	14392.4	80.7
0°-90°	17639.3	98.9
90°-120°	168.8	0.9
90°-150°	196.5	1.1
90°-180°	205.0	1.1
0°-180°	17843.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6313	6313	6313	6313	6313	
5°	6272	6294	6250	6269	6261	597
15°	6069	6045	6002	6055	6062	1713
25°	5638	5613	5652	5704	5688	2599
35°	4997	5009	5060	5114	5094	3123
45°	4147	4215	4293	4403	4416	3195
55°	3052	3199	3417	3554	3546	2724
65°	1791	2071	2352	1984	1620	1785
75°	705	1022	752	770	820	770
85°	121	233	298	361	378	148
90°	1	78	154	194	203	7
95°	1	48	106	129	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: P829887

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6313.2	6313.2	6313.2	6313.2	6313.2
2.5°	6287.7	6314.1	6281.3	6316.9	6326.0
5°	6272.1	6294.1	6250.2	6269.4	6261.2
7.5°	6243.8	6251.1	6199.1	6214.6	6198.2
10°	6201.9	6198.2	6137.0	6167.2	6170.8
12.5°	6139.8	6128.8	6074.1	6119.7	6120.6
15°	6068.6	6044.8	6001.9	6054.9	6062.2
17.5°	5986.4	5955.4	5927.1	5995.6	5984.6
20°	5890.6	5854.1	5848.6	5923.4	5896.1
22.5°	5771.9	5743.6	5756.4	5827.6	5810.2
25°	5637.7	5613.1	5652.3	5704.4	5687.9
27.5°	5496.2	5481.6	5526.4	5566.5	5534.6
30°	5341.0	5332.8	5392.2	5425.0	5384.9
32.5°	5172.2	5174.9	5231.5	5276.2	5238.8
35°	4996.9	5008.8	5059.9	5113.7	5093.7
37.5°	4804.3	4830.8	4881.9	4943.0	4922.0
40°	4600.7	4639.1	4695.7	4769.6	4750.4
42.5°	4380.7	4429.1	4502.1	4584.3	4582.5
45°	4147.0	4214.6	4293.1	4402.6	4416.3
47.5°	3904.2	3980.0	4079.5	4225.6	4246.5
50°	3640.4	3735.4	3859.5	4034.8	4047.5
52.5°	3346.5	3476.1	3640.4	3808.4	3792.9
55°	3051.6	3198.6	3416.8	3553.7	3545.5
57.5°	2757.7	2922.9	3187.6	3285.3	3284.4
60°	2429.1	2638.1	2927.5	3001.4	2928.4
62.5°	2125.1	2349.7	2650.0	2596.1	2346.0
65°	1791.0	2071.2	2351.5	1984.5	1620.3
67.5°	1494.3	1786.4	1997.3	1359.2	1163.9
70°	1195.8	1518.1	1557.3	1008.7	995.0
72.5°	931.1	1274.3	1074.4	863.5	907.4
75°	704.7	1022.4	752.2	769.5	819.7
77.5°	513.9	785.0	585.1	674.6	715.7
80°	353.3	555.9	477.4	566.9	595.2
82.5°	221.8	367.0	382.5	456.4	485.6
85°	121.4	232.8	298.5	360.6	377.9
87.5°	50.2	140.6	228.2	278.4	293.0
90°	0.9	77.6	154.3	193.5	202.7
92.5°	0.9	59.3	126.0	156.1	162.5
95°	0.9	48.4	105.9	128.7	132.4
97.5°	1.8	38.3	88.5	106.8	110.5
100°	2.7	31.9	73.9	89.5	92.2
102.5°	3.7	25.6	62.1	74.9	77.6
105°	3.7	21.0	52.0	63.0	65.7



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CATALOG NUMBER: OHBL-18HE-MCL-UNV-L730-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	12.8	31.0	39.3	41.1
115°	7.3	11.0	26.5	33.8	35.6
117.5°	7.3	9.1	22.8	28.3	30.1
120°	7.3	8.2	20.1	24.6	25.6
122.5°	7.3	7.3	17.3	21.9	22.8
125°	6.4	7.3	16.4	19.2	20.1
127.5°	7.3	7.3	14.6	17.3	18.3
130°	7.3	8.2	12.8	16.4	16.4
132.5°	8.2	9.1	11.9	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	11.9	12.8
142.5°	8.2	9.1	8.2	11.0	11.9
145°	8.2	9.1	9.1	10.0	11.0
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	11.0	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°	11.0	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	44.7	53.9	55.7
110°	5.5	14.6	37.4	45.6	47.5



(END OF REPORT)