

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: P829888

Luminaire Tested: **OHBL-18HE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829888  
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-L735-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

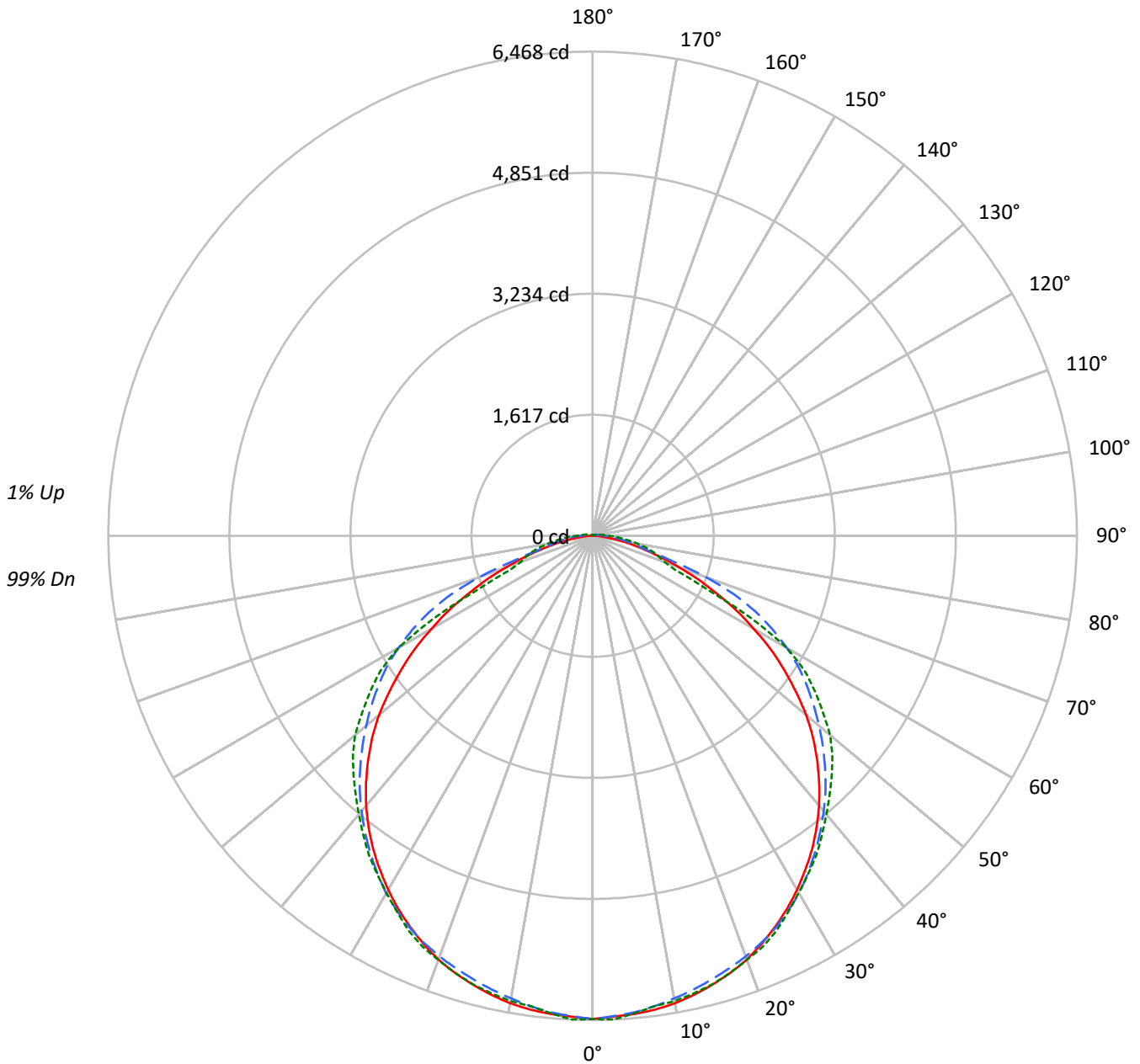
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18245.9 lumens  
Efficiency: N/A  
Efficacy: 177.1 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

TEST NUMBER: P829888

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L735-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829888

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L735-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°	11026	11026	11026
5°	10954	10861	10881
10°	10914	10691	10754
15°	10844	10564	10675
20°	10775	10481	10573
25°	10645	10398	10472
30°	10504	10270	10267
35°	10335	10069	10149
40°	10115	9862	9992
45°	9810	9623	9916
50°	9397	9351	9826
55°	8742	9082	9446
60°	7883	8691	8718
65°	6762	7975	5513
70°	5447	6213	3985
75°	4083	3677	4028
80°	2842	3043	3820
85°	1617	2763	3533



TEST NUMBER: P829888

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L735-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.7	3.3
10°-20°	1745.4	9.6
20°-30°	2665.8	14.6
30°-40°	3234.6	17.7
40°-50°	3390.1	18.6
50°-60°	3072.0	16.8
60°-70°	2059.6	11.3
70°-80°	924.9	5.1
80°-90°	335.6	1.8
90°-100°	101.0	0.6
100°-110°	47.7	0.3
110°-120°	23.9	0.1
120°-130°	13.2	0.1
130°-140°	9.1	0.0
140°-150°	6.1	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	5019.9	27.5
0°-40°	8254.5	45.2
0°-60°	14716.6	80.7
0°-90°	18036.7	98.9
90°-120°	172.6	0.9
90°-150°	200.9	1.1
90°-180°	209.0	1.1
0°-180°	18245.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6456	6456	6456	6456	6456	
5°	6413	6436	6391	6411	6402	610
15°	6205	6181	6137	6191	6199	1752
25°	5765	5740	5780	5833	5816	2657
35°	5110	5122	5174	5229	5208	3194
45°	4240	4310	4390	4502	4516	3267
55°	3120	3271	3494	3634	3625	2785
65°	1831	2118	2404	2029	1657	1825
75°	721	1045	769	787	838	788
85°	124	238	305	369	386	151
90°	1	79	158	198	207	7
95°	1	50	108	132	135	1
105°	4	22	53	64	67	4
115°	8	11	27	34	36	7
125°	6	8	17	20	20	7
135°	8	9	10	15	16	7
145°	8	9	9	10	11	6
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: P829888

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6455.5	6455.5	6455.5	6455.5	6455.5
2.5°	6429.3	6456.4	6422.8	6459.2	6468.5
5°	6413.4	6435.8	6391.0	6410.6	6402.2
7.5°	6384.5	6392.0	6338.8	6354.6	6337.8
10°	6341.6	6337.8	6275.3	6306.1	6309.8
12.5°	6278.1	6266.9	6210.9	6257.6	6258.5
15°	6205.3	6181.0	6137.2	6191.3	6198.8
17.5°	6121.3	6089.6	6060.6	6130.6	6119.4
20°	6023.3	5985.9	5980.3	6056.9	6028.9
22.5°	5901.9	5873.0	5886.1	5958.9	5941.1
25°	5764.7	5739.5	5779.7	5832.9	5816.1
27.5°	5620.0	5605.1	5650.9	5691.9	5659.3
30°	5461.4	5453.0	5513.6	5547.2	5506.2
32.5°	5288.7	5291.5	5349.4	5395.1	5356.8
35°	5109.5	5121.6	5173.9	5229.0	5208.4
37.5°	4912.5	4939.6	4991.9	5054.4	5032.9
40°	4704.4	4743.6	4801.5	4877.1	4857.5
42.5°	4479.4	4528.9	4603.6	4687.6	4685.7
45°	4240.5	4309.5	4389.8	4501.8	4515.8
47.5°	3992.2	4069.7	4171.4	4320.7	4342.2
50°	3722.4	3819.5	3946.4	4125.7	4138.7
52.5°	3421.9	3554.4	3722.4	3894.2	3878.3
55°	3120.4	3270.7	3493.7	3633.8	3625.4
57.5°	2819.8	2988.8	3259.5	3359.3	3358.4
60°	2483.8	2697.5	2993.4	3069.0	2994.4
62.5°	2173.0	2402.6	2709.7	2654.6	2398.9
65°	1831.3	2117.9	2404.5	2029.2	1656.8
67.5°	1528.0	1826.7	2042.3	1389.8	1190.1
70°	1222.8	1552.3	1592.4	1031.4	1017.4
72.5°	952.1	1303.0	1098.6	883.0	927.8
75°	720.6	1045.4	769.1	786.9	838.2
77.5°	525.5	802.7	598.3	689.8	731.8
80°	361.2	568.4	488.2	579.6	608.6
82.5°	226.8	375.2	391.1	466.7	496.6
85°	124.1	238.0	305.2	368.7	386.4
87.5°	51.3	143.7	233.4	284.7	299.6
90°	0.9	79.3	157.7	197.9	207.2
92.5°	0.9	60.7	128.8	159.6	166.1
95°	0.9	49.5	108.3	131.6	135.3
97.5°	1.9	39.2	90.5	109.2	112.9
100°	2.8	32.7	75.6	91.5	94.3
102.5°	3.7	26.1	63.5	76.5	79.3
105°	3.7	21.5	53.2	64.4	67.2



TEST NUMBER: P829888

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L735-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.1	31.7	40.1	42.0
115°	7.5	11.2	27.1	34.5	36.4
117.5°	7.5	9.3	23.3	28.9	30.8
120°	7.5	8.4	20.5	25.2	26.1
122.5°	7.5	7.5	17.7	22.4	23.3
125°	6.5	7.5	16.8	19.6	20.5
127.5°	7.5	7.5	14.9	17.7	18.7
130°	7.5	8.4	13.1	16.8	16.8
132.5°	8.4	9.3	12.1	15.9	15.9
135°	8.4	9.3	10.3	14.9	15.9
137.5°	9.3	9.3	9.3	14.0	14.9
140°	9.3	9.3	8.4	12.1	13.1
142.5°	8.4	9.3	8.4	11.2	12.1
145°	8.4	9.3	9.3	10.3	11.2
147.5°	9.3	9.3	9.3	9.3	10.3
150°	9.3	9.3	9.3	9.3	9.3
152.5°	9.3	9.3	9.3	9.3	9.3
155°	9.3	10.3	10.3	10.3	9.3
157.5°	9.3	10.3	10.3	10.3	10.3
160°	9.3	10.3	10.3	10.3	10.3
162.5°	10.3	10.3	10.3	10.3	10.3
165°	10.3	10.3	10.3	10.3	10.3
167.5°	10.3	11.2	10.3	10.3	10.3
170°	10.3	10.3	10.3	9.3	9.3
172.5°	10.3	10.3	10.3	9.3	9.3
175°	10.3	10.3	9.3	8.4	8.4
177.5°	11.2	10.3	9.3	8.4	7.5
180°	9.3	9.3	9.3	9.3	9.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.7	17.7	45.7	55.1	56.9
110°	5.6	14.9	38.3	46.7	48.5



(END OF REPORT)