

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: P829891

Luminaire Tested: **OHBL-18HE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829891  
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-L830-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

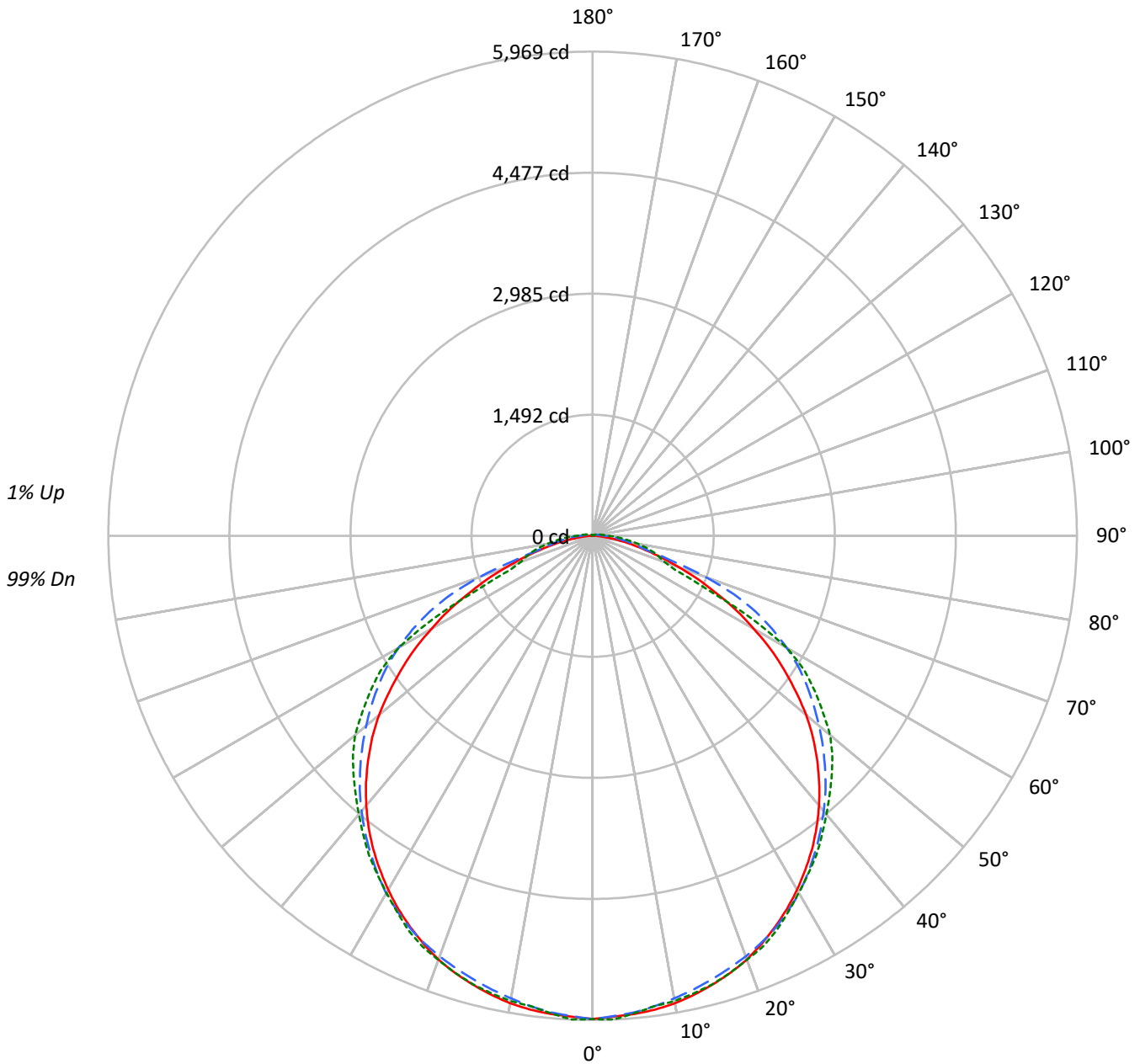
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16838.0 lumens  
Efficiency: N/A  
Efficacy: 163.5 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: P829891  
CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829891

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-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°	10175	10175	10175
5°	10108	10023	10042
10°	10071	9866	9924
15°	10007	9748	9851
20°	9944	9672	9757
25°	9824	9596	9664
30°	9693	9477	9474
35°	9537	9292	9366
40°	9334	9101	9221
45°	9053	8880	9151
50°	8672	8629	9068
55°	8067	8381	8717
60°	7274	8021	8046
65°	6240	7359	5088
70°	5026	5733	3678
75°	3768	3394	3717
80°	2623	2808	3525
85°	1493	2550	3261



TEST NUMBER: P829891

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.7	3.3
10°-20°	1610.7	9.6
20°-30°	2460.1	14.6
30°-40°	2985.0	17.7
40°-50°	3128.5	18.6
50°-60°	2834.9	16.8
60°-70°	1900.7	11.3
70°-80°	853.5	5.1
80°-90°	309.7	1.8
90°-100°	93.2	0.6
100°-110°	44.0	0.3
110°-120°	22.0	0.1
120°-130°	12.2	0.1
130°-140°	8.4	0.0
140°-150°	5.6	0.0
150°-160°	4.2	0.0
160°-170°	2.7	0.0
170°-180°	0.9	0.0
0°-30°	4632.6	27.5
0°-40°	7617.5	45.2
0°-60°	13581.0	80.7
0°-90°	16644.9	98.9
90°-120°	159.3	0.9
90°-150°	185.4	1.1
90°-180°	193.0	1.1
0°-180°	16838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5957	5957	5957	5957	5957	
5°	5918	5939	5898	5916	5908	563
15°	5726	5704	5664	5714	5720	1617
25°	5320	5297	5334	5383	5367	2452
35°	4715	4726	4775	4825	4806	2947
45°	3913	3977	4051	4154	4167	3015
55°	2880	3018	3224	3353	3346	2570
65°	1690	1954	2219	1873	1529	1684
75°	665	965	710	726	774	727
85°	115	220	282	340	357	140
90°	1	73	146	183	191	7
95°	1	46	100	122	125	1
105°	3	20	49	59	62	4
115°	7	10	25	32	34	6
125°	6	7	16	18	19	6
135°	8	9	10	14	15	6
145°	8	9	9	10	10	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: P829891

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5957.3	5957.3	5957.3	5957.3	5957.3
2.5°	5933.2	5958.2	5927.2	5960.7	5969.4
5°	5918.5	5939.2	5897.9	5916.0	5908.2
7.5°	5891.8	5898.7	5849.6	5864.3	5848.8
10°	5852.2	5848.8	5791.1	5819.5	5822.9
12.5°	5793.6	5783.3	5731.6	5774.7	5775.5
15°	5726.4	5704.1	5663.6	5713.5	5720.4
17.5°	5648.9	5619.6	5592.9	5657.5	5647.2
20°	5558.5	5524.0	5518.9	5589.5	5563.6
22.5°	5446.5	5419.8	5431.9	5499.0	5482.7
25°	5319.9	5296.6	5333.7	5382.8	5367.3
27.5°	5186.4	5172.6	5214.8	5252.7	5222.5
30°	5039.9	5032.2	5088.2	5119.2	5081.3
32.5°	4880.6	4883.2	4936.6	4978.8	4943.5
35°	4715.2	4726.4	4774.6	4825.4	4806.5
37.5°	4533.4	4558.4	4606.7	4664.4	4644.6
40°	4341.4	4377.5	4430.9	4500.7	4482.6
42.5°	4133.8	4179.4	4248.3	4325.8	4324.1
45°	3913.2	3977.0	4051.1	4154.4	4167.4
47.5°	3684.1	3755.6	3849.5	3987.3	4007.1
50°	3435.2	3524.8	3641.9	3807.3	3819.4
52.5°	3157.8	3280.1	3435.2	3593.7	3579.0
55°	2879.6	3018.3	3224.1	3353.3	3345.6
57.5°	2602.2	2758.1	3007.9	3100.1	3099.2
60°	2292.1	2489.4	2762.4	2832.2	2763.3
62.5°	2005.3	2217.2	2500.6	2449.8	2213.7
65°	1690.0	1954.5	2218.9	1872.6	1528.9
67.5°	1410.1	1685.7	1884.7	1282.6	1098.3
70°	1128.4	1432.5	1469.5	951.8	938.9
72.5°	878.6	1202.5	1013.8	814.9	856.2
75°	665.0	964.7	709.8	726.1	773.5
77.5°	485.0	740.8	552.1	636.6	675.3
80°	333.4	524.6	450.5	534.9	561.6
82.5°	209.3	346.3	360.9	430.7	458.3
85°	114.6	219.7	281.7	340.2	356.6
87.5°	47.4	132.7	215.3	262.7	276.5
90°	0.9	73.2	145.6	182.6	191.2
92.5°	0.9	56.0	118.9	147.3	153.3
95°	0.9	45.7	99.9	121.5	124.9
97.5°	1.7	36.2	83.6	100.8	104.2
100°	2.6	30.1	69.8	84.4	87.0
102.5°	3.4	24.1	58.6	70.6	73.2
105°	3.4	19.8	49.1	59.4	62.0



TEST NUMBER: P829891

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	12.1	29.3	37.0	38.8
115°	6.9	10.3	25.0	31.9	33.6
117.5°	6.9	8.6	21.5	26.7	28.4
120°	6.9	7.8	19.0	23.3	24.1
122.5°	6.9	6.9	16.4	20.7	21.5
125°	6.0	6.9	15.5	18.1	19.0
127.5°	6.9	6.9	13.8	16.4	17.2
130°	6.9	7.8	12.1	15.5	15.5
132.5°	7.8	8.6	11.2	14.6	14.6
135°	7.8	8.6	9.5	13.8	14.6
137.5°	8.6	8.6	8.6	12.9	13.8
140°	8.6	8.6	7.8	11.2	12.1
142.5°	7.8	8.6	7.8	10.3	11.2
145°	7.8	8.6	8.6	9.5	10.3
147.5°	8.6	8.6	8.6	8.6	9.5
150°	8.6	8.6	8.6	8.6	8.6
152.5°	8.6	8.6	8.6	8.6	8.6
155°	8.6	9.5	9.5	9.5	8.6
157.5°	8.6	9.5	9.5	9.5	9.5
160°	8.6	9.5	9.5	9.5	9.5
162.5°	9.5	9.5	9.5	9.5	9.5
165°	9.5	9.5	9.5	9.5	9.5
167.5°	9.5	10.3	9.5	9.5	9.5
170°	9.5	9.5	9.5	8.6	8.6
172.5°	9.5	9.5	9.5	8.6	8.6
175°	9.5	9.5	8.6	7.8	7.8
177.5°	10.3	9.5	8.6	7.8	6.9
180°	8.6	8.6	8.6	8.6	8.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.3	16.4	42.2	50.8	52.5
110°	5.2	13.8	35.3	43.1	44.8



(END OF REPORT)