

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: P829936

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-W-UNV-L735-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

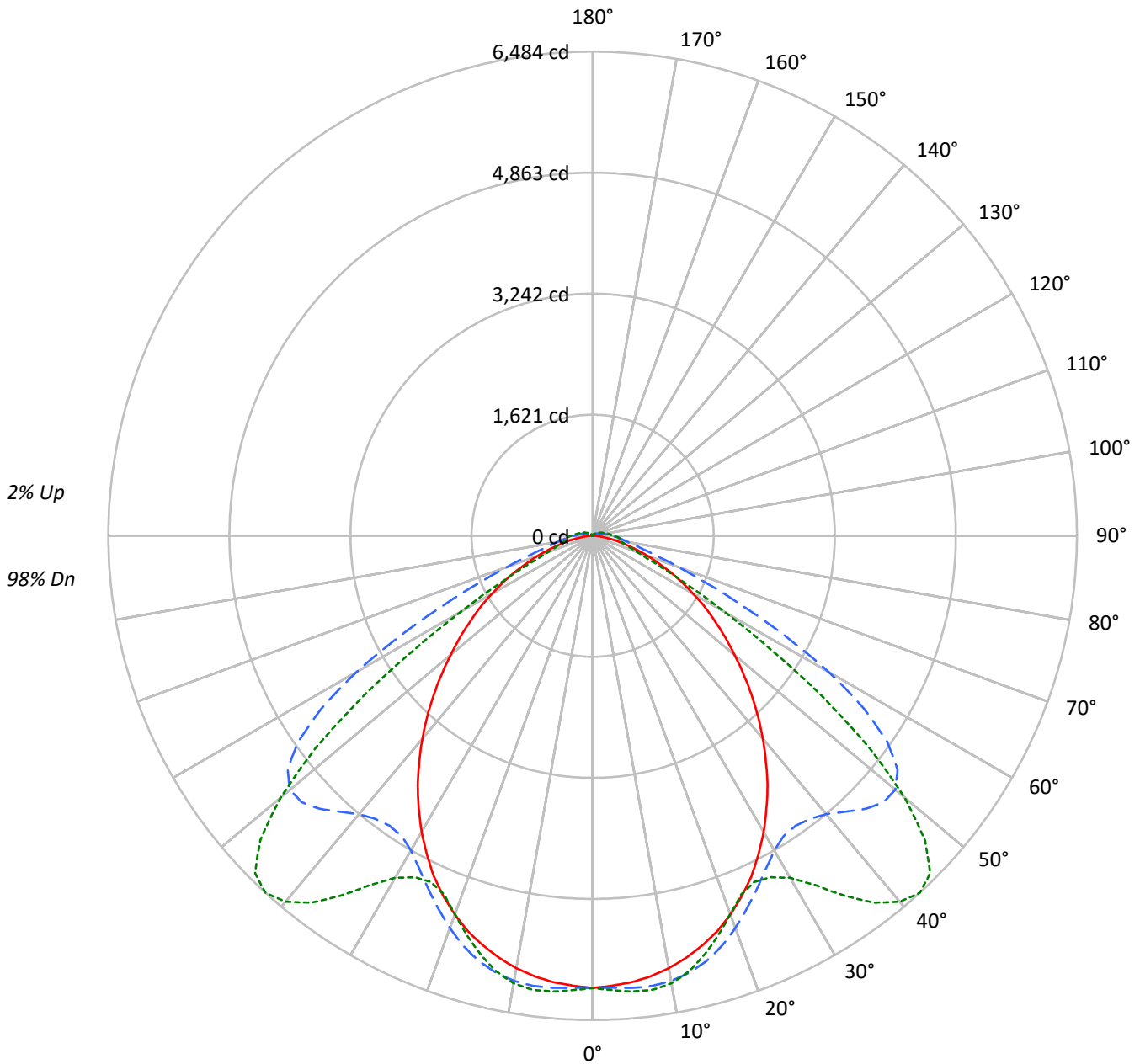
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18134.0 lumens  
Efficiency: N/A  
Efficacy: 176.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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: P829936

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

### Luminous Intensity Polar Plot





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

RF	20				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

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

	0°	45°	90°
0°	10344	10344	10344
5°	10248	10330	10411
10°	10119	10314	10373
15°	9922	10143	9991
20°	9651	9795	9453
25°	9290	9373	9213
30°	8808	9059	9857
35°	8259	9226	11463
40°	7622	9992	13160
45°	6956	11334	14033
50°	6261	12533	12939
55°	5608	12517	9778
60°	4943	10589	5897
65°	4241	7311	3509
70°	3445	4726	2472
75°	2621	3386	2210
80°	1881	2973	2345
85°	1277	3265	3262



TEST NUMBER: P829936

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.8	3.2
10°-20°	1638.9	9.0
20°-30°	2398.2	13.2
30°-40°	3114.6	17.2
40°-50°	3803.3	21.0
50°-60°	3349.4	18.5
60°-70°	1745.4	9.6
70°-80°	748.5	4.1
80°-90°	359.5	2.0
90°-100°	168.9	0.9
100°-110°	105.0	0.6
110°-120°	62.1	0.3
120°-130°	33.7	0.2
130°-140°	16.9	0.1
140°-150°	8.1	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4615.8	25.5
0°-40°	7730.4	42.6
0°-60°	14883.1	82.1
0°-90°	17736.5	97.8
90°-120°	335.9	1.9
90°-150°	394.7	2.2
90°-180°	398.0	2.2
0°-180°	18134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6056	6056	6056	6056	6056	
5°	6000	6046	6079	6132	6126	569
15°	5678	5837	5893	5849	5802	1599
25°	5031	5300	5210	5112	5117	2309
35°	4083	4515	4741	5528	5883	2545
45°	3007	3783	5170	6260	6391	2318
55°	2002	3314	4815	4222	3753	1797
65°	1149	2296	2204	1226	1054	1136
75°	463	1074	708	485	460	504
85°	98	383	361	353	357	109
90°	1	138	238	272	278	7
95°	3	81	190	222	229	2
105°	5	46	123	148	150	5
115°	8	26	76	93	95	8
125°	9	13	44	58	59	8
135°	8	8	21	35	37	6
145°	10	8	9	17	20	6
155°	10	10	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829936

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6056.4	6056.4	6056.4	6056.4	6056.4
2.5°	6030.3	6056.4	6057.7	6094.3	6090.4
5°	6000.2	6046.0	6078.6	6132.2	6125.7
7.5°	5950.6	6022.5	6079.9	6138.7	6133.5
10°	5880.0	5978.0	6053.8	6102.2	6086.5
12.5°	5788.6	5917.9	5992.4	6002.9	5972.8
15°	5677.5	5836.9	5893.1	5848.7	5801.6
17.5°	5552.0	5738.9	5758.5	5661.8	5603.0
20°	5395.2	5608.2	5588.6	5455.4	5390.0
22.5°	5221.5	5464.5	5401.8	5262.0	5199.2
25°	5030.7	5299.9	5209.7	5111.7	5116.9
27.5°	4807.2	5113.0	5025.5	5069.9	5153.5
30°	4579.9	4917.0	4863.4	5122.2	5286.8
32.5°	4330.3	4715.8	4764.1	5275.0	5544.2
35°	4083.4	4514.6	4740.6	5528.5	5882.6
37.5°	3810.3	4310.7	4778.5	5821.2	6192.3
40°	3545.0	4112.1	4864.7	6083.9	6397.5
42.5°	3274.5	3934.4	5009.8	6239.4	6483.7
45°	3006.7	3782.8	5170.5	6260.3	6390.9
47.5°	2738.8	3654.8	5281.6	6094.3	6034.2
50°	2480.1	3541.1	5289.4	5695.8	5450.1
52.5°	2238.3	3436.5	5145.7	5060.7	4679.2
55°	2001.8	3313.7	4815.1	4221.9	3752.8
57.5°	1786.2	3143.9	4305.5	3320.3	2808.0
60°	1557.6	2913.9	3646.9	2429.1	2025.3
62.5°	1347.2	2627.7	2908.7	1690.8	1455.6
65°	1148.6	2295.8	2204.4	1225.7	1054.5
67.5°	938.2	1952.2	1626.8	893.8	784.0
70°	773.5	1633.3	1211.3	695.1	631.1
72.5°	605.0	1330.2	905.5	564.5	529.2
75°	462.6	1074.1	708.2	484.8	459.9
77.5°	341.0	849.3	569.7	428.6	405.1
80°	239.1	669.0	476.9	382.9	373.7
82.5°	160.7	517.4	406.4	364.6	365.9
85°	98.0	382.9	360.6	352.8	356.7
87.5°	47.0	271.8	309.7	321.4	325.4
90°	1.3	138.5	237.8	271.8	278.3
92.5°	0.0	105.8	209.1	243.0	249.6
95°	2.6	81.0	189.5	222.1	228.7
97.5°	2.6	66.6	169.9	203.8	207.8
100°	3.9	57.5	151.6	184.2	188.2
102.5°	3.9	51.0	135.9	164.6	167.3
105°	5.2	45.7	122.8	147.7	150.3



TEST NUMBER: P829936

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	31.4	86.2	104.5	107.1
115°	7.8	26.1	75.8	92.8	95.4
117.5°	9.1	23.5	66.6	82.3	83.6
120°	9.1	19.6	57.5	73.2	74.5
122.5°	9.1	15.7	51.0	65.3	66.6
125°	9.1	13.1	44.4	57.5	58.8
127.5°	7.8	9.1	37.9	51.0	52.3
130°	7.8	7.8	31.4	44.4	47.0
132.5°	7.8	7.8	26.1	39.2	41.8
135°	7.8	7.8	20.9	35.3	36.6
137.5°	7.8	7.8	17.0	30.1	32.7
140°	7.8	7.8	13.1	26.1	27.4
142.5°	9.1	7.8	11.8	22.2	23.5
145°	10.5	7.8	9.1	17.0	19.6
147.5°	10.5	9.1	9.1	14.4	15.7
150°	10.5	10.5	7.8	10.5	13.1
152.5°	10.5	10.5	7.8	7.8	10.5
155°	10.5	10.5	7.8	7.8	7.8
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°	6.5	40.5	109.8	132.0	134.6
110°	6.5	35.3	96.7	117.6	120.2



(END OF REPORT)