

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: P829924

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829924  
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-18HE-NL-UNV-L735-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

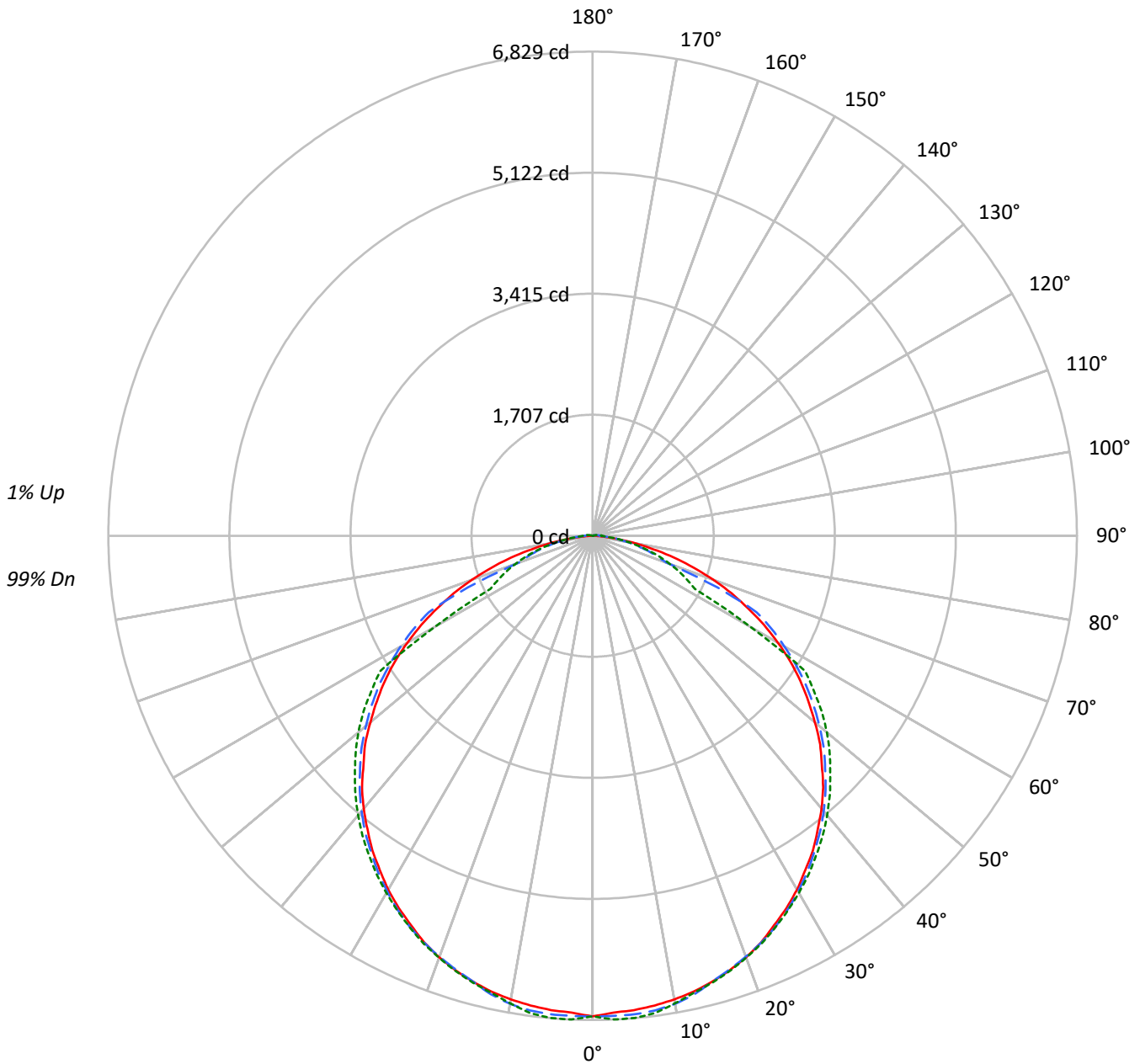
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19032.0 lumens  
Efficiency: N/A  
Efficacy: 184.8 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): 103  
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°	11578	11578	11578
5°	11514	11618	11706
10°	11517	11627	11612
15°	11515	11513	11538
20°	11499	11482	11510
25°	11421	11479	11488
30°	11368	11427	11471
35°	11294	11356	11463
40°	11197	11303	11470
45°	11035	11202	11446
50°	10869	11090	11457
55°	10661	10937	11331
60°	10304	10670	8821
65°	9749	10316	5937
70°	9017	5476	5762
75°	7865	5204	5502
80°	6048	4773	5043
85°	3053	4825	4940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.0	3.4
10°-20°	1844.0	9.7
20°-30°	2805.7	14.7
30°-40°	3411.4	17.9
40°-50°	3586.9	18.8
50°-60°	3275.3	17.2
60°-70°	2099.6	11.0
70°-80°	991.8	5.2
80°-90°	275.0	1.4
90°-100°	72.8	0.4
100°-110°	19.9	0.1
110°-120°	5.5	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°	5293.7	27.8
0°-40°	8705.1	45.7
0°-60°	15567.2	81.8
0°-90°	18933.7	99.5
90°-120°	98.3	0.5
90°-150°	98.3	0.5
90°-180°	98.0	0.5
0°-180°	19032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6779	6779	6779	6779	6779	
5°	6716	6742	6776	6813	6827	639
15°	6512	6561	6511	6521	6525	1839
25°	6060	6070	6091	6101	6096	2796
35°	5417	5385	5446	5513	5498	3385
45°	4569	4560	4638	4747	4739	3531
55°	3580	3553	3673	3796	3805	3193
65°	2412	2412	2552	1464	1469	2391
75°	1192	1214	789	830	834	1256
85°	156	198	246	266	252	230
90°	0	67	109	130	127	7
95°	4	34	79	106	106	2
105°	6	13	19	19	18	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6778.7	6778.7	6778.7	6778.7	6778.7
2.5°	6731.1	6753.8	6778.7	6810.8	6828.6
5°	6715.6	6741.8	6776.3	6813.2	6827.4
7.5°	6682.4	6719.1	6752.5	6778.7	6787.0
10°	6640.7	6684.8	6703.8	6701.4	6695.5
12.5°	6584.8	6631.2	6625.3	6597.9	6602.7
15°	6512.2	6561.0	6511.1	6520.6	6525.3
17.5°	6426.6	6474.2	6415.9	6434.9	6436.2
20°	6326.7	6362.4	6317.2	6332.7	6332.7
22.5°	6206.6	6231.5	6212.5	6223.2	6225.6
25°	6060.3	6069.7	6091.1	6100.7	6095.9
27.5°	5920.0	5908.0	5949.7	5972.3	5960.3
30°	5764.1	5745.1	5793.8	5830.7	5816.5
32.5°	5585.6	5573.8	5629.7	5673.7	5665.4
35°	5416.8	5384.7	5446.5	5513.1	5497.6
37.5°	5216.9	5197.9	5268.0	5338.3	5330.0
40°	5021.9	4989.7	5069.5	5152.7	5144.4
42.5°	4812.6	4774.4	4861.3	4961.3	4951.7
45°	4568.6	4560.3	4637.6	4747.1	4738.8
47.5°	4352.3	4310.6	4418.8	4524.7	4534.3
50°	4090.5	4075.1	4173.8	4302.3	4311.7
52.5°	3834.8	3824.1	3927.5	4057.2	4073.8
55°	3580.2	3552.9	3673.0	3795.5	3805.1
57.5°	3307.9	3279.4	3401.9	3535.1	3555.3
60°	3016.4	2989.1	3123.5	3247.2	2582.3
62.5°	2725.0	2706.0	2846.4	2016.1	1624.9
65°	2412.2	2412.2	2552.5	1464.2	1469.0
67.5°	2119.7	2100.6	1903.2	1315.5	1315.5
70°	1805.6	1812.8	1096.6	1152.6	1153.8
72.5°	1490.4	1516.6	946.9	992.0	994.3
75°	1191.8	1214.5	788.6	830.3	833.8
77.5°	875.5	673.2	633.9	666.2	667.3
80°	614.9	424.6	485.3	516.2	512.7
82.5°	359.2	297.3	355.6	378.3	377.0
85°	155.8	197.5	246.2	266.5	252.1
87.5°	49.9	122.5	153.4	165.3	164.1
90°	0.0	66.6	109.4	129.6	127.3
92.5°	0.0	52.3	95.2	119.0	120.1
95°	3.5	34.5	78.6	105.9	105.9
97.5°	2.4	24.9	55.9	83.2	85.6
100°	2.4	20.1	36.9	59.4	60.7
102.5°	5.9	16.6	22.5	38.0	39.3
105°	5.9	13.1	19.0	19.0	17.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	9.6	13.1	9.6	1.1
115°	5.9	8.3	11.8	8.3	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°	5.9	11.8	16.6	10.7	3.5
110°	7.2	10.7	14.2	9.6	1.1



(END OF REPORT)