

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: P829929

Luminaire Tested: **OHBL-18HE-NL-UNV-L840-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829929  
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-L840-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

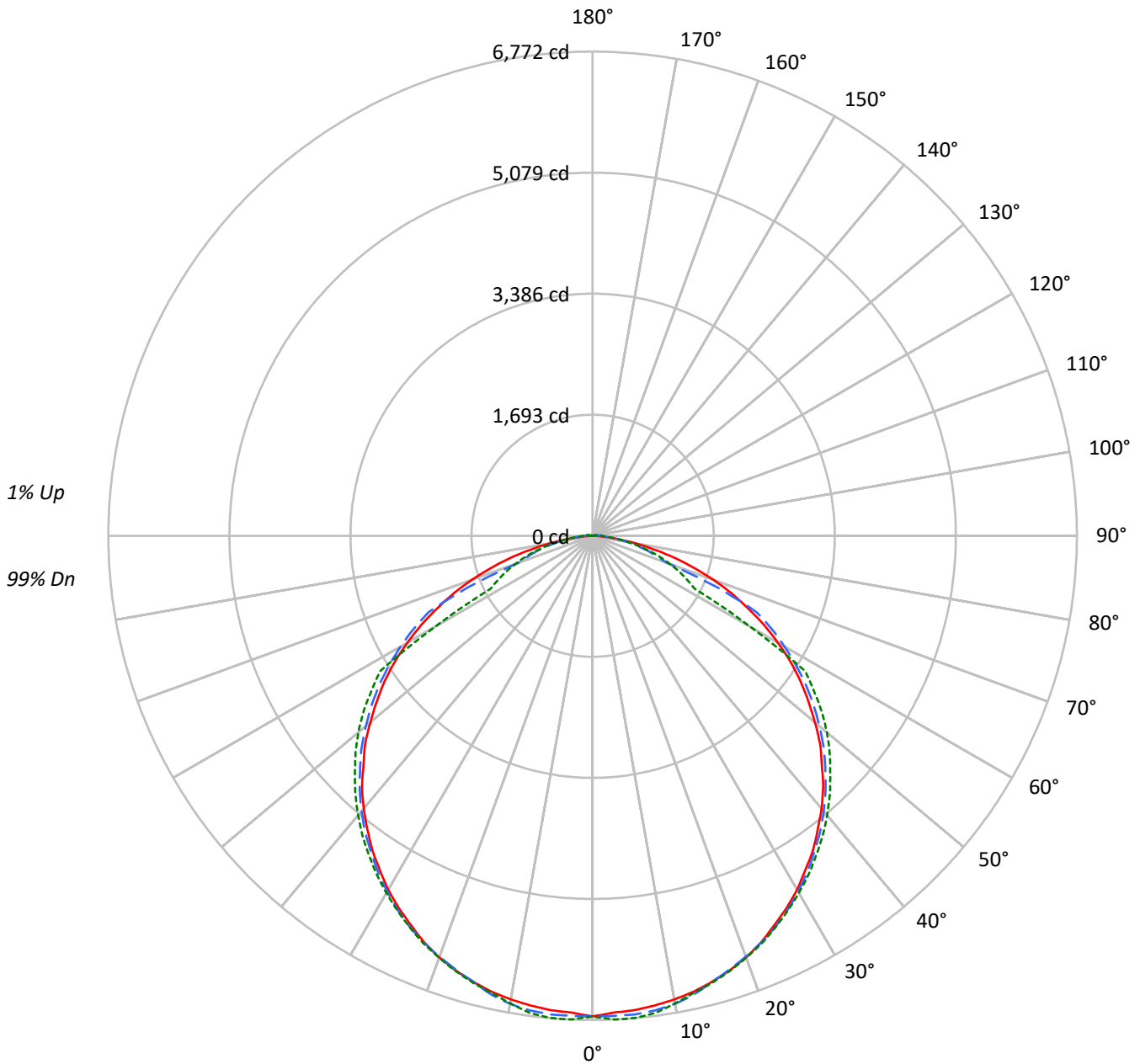
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18874.0 lumens  
Efficiency: N/A  
Efficacy: 183.2 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°	11482	11482	11482
5°	11418	11522	11609
10°	11422	11530	11516
15°	11420	11418	11443
20°	11404	11387	11415
25°	11326	11384	11393
30°	11274	11332	11376
35°	11201	11262	11368
40°	11104	11209	11375
45°	10944	11109	11351
50°	10779	10999	11362
55°	10573	10847	11237
60°	10219	10581	8748
65°	9668	10230	5888
70°	8942	5431	5714
75°	7800	5161	5457
80°	5998	4734	5001
85°	3028	4786	4899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.7	3.4
10°-20°	1828.6	9.7
20°-30°	2782.4	14.7
30°-40°	3383.1	17.9
40°-50°	3557.1	18.8
50°-60°	3248.1	17.2
60°-70°	2082.2	11.0
70°-80°	983.6	5.2
80°-90°	272.8	1.4
90°-100°	72.2	0.4
100°-110°	19.8	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°	5249.7	27.8
0°-40°	8632.8	45.7
0°-60°	15438.0	81.8
0°-90°	18776.5	99.5
90°-120°	97.5	0.5
90°-150°	97.5	0.5
90°-180°	97.0	0.5
0°-180°	18874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	6660	6686	6720	6757	6771	633
15°	6458	6506	6457	6466	6471	1823
25°	6010	6019	6041	6050	6045	2773
35°	5372	5340	5401	5467	5452	3357
45°	4531	4522	4599	4708	4699	3502
55°	3550	3523	3642	3764	3774	3166
65°	2392	2392	2531	1452	1457	2372
75°	1182	1204	782	823	827	1246
85°	154	196	244	264	250	228
90°	0	66	108	128	126	7
95°	4	34	78	105	105	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°	6722.4	6722.4	6722.4	6722.4	6722.4
2.5°	6675.2	6697.7	6722.4	6754.3	6771.9
5°	6659.9	6685.8	6720.1	6756.7	6770.8
7.5°	6626.9	6663.4	6696.5	6722.4	6730.7
10°	6585.6	6629.3	6648.1	6645.8	6639.9
12.5°	6530.1	6576.2	6570.3	6543.1	6547.8
15°	6458.2	6506.5	6457.1	6466.4	6471.2
17.5°	6373.3	6420.5	6362.6	6381.5	6382.7
20°	6274.2	6309.6	6264.7	6280.1	6280.1
22.5°	6155.1	6179.8	6161.0	6171.6	6173.9
25°	6010.0	6019.3	6040.6	6050.1	6045.3
27.5°	5870.8	5859.0	5900.3	5922.7	5910.8
30°	5716.2	5697.4	5745.7	5782.3	5768.2
32.5°	5539.3	5527.5	5583.0	5626.6	5618.3
35°	5371.8	5340.0	5401.3	5467.3	5452.0
37.5°	5173.6	5154.8	5224.3	5294.0	5285.8
40°	4980.2	4948.3	5027.4	5109.9	5101.7
42.5°	4772.6	4734.8	4820.9	4920.1	4910.6
45°	4530.7	4522.5	4599.1	4707.7	4699.4
47.5°	4316.1	4274.8	4382.1	4487.1	4496.6
50°	4056.5	4041.3	4139.2	4266.6	4275.9
52.5°	3803.0	3792.4	3894.9	4023.5	4040.0
55°	3550.5	3523.4	3642.5	3764.0	3773.5
57.5°	3280.5	3252.1	3373.6	3505.8	3525.8
60°	2991.4	2964.3	3097.5	3220.3	2560.9
62.5°	2702.4	2683.5	2822.8	1999.4	1611.4
65°	2392.2	2392.2	2531.3	1452.0	1456.8
67.5°	2102.1	2083.2	1887.4	1304.5	1304.5
70°	1790.6	1797.7	1087.5	1143.1	1144.2
72.5°	1478.0	1504.0	939.0	983.7	986.1
75°	1181.9	1204.4	782.0	823.4	826.9
77.5°	868.2	667.6	628.7	660.6	661.8
80°	609.8	421.1	481.3	511.9	508.4
82.5°	356.2	294.9	352.7	375.2	373.9
85°	154.5	195.8	244.2	264.3	250.0
87.5°	49.5	121.5	152.1	164.0	162.7
90°	0.0	66.1	108.5	128.5	126.3
92.5°	0.0	51.8	94.4	118.0	119.1
95°	3.5	34.2	77.9	105.0	105.0
97.5°	2.4	24.7	55.4	82.5	84.9
100°	2.4	20.0	36.6	58.9	60.2
102.5°	5.9	16.5	22.4	37.7	39.0
105°	5.9	13.0	18.9	18.9	17.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	9.5	13.0	9.5	1.1
115°	5.9	8.2	11.7	8.2	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	11.7	16.5	10.6	3.5
110°	7.1	10.6	14.1	9.5	1.1



(END OF REPORT)