

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: P829893

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829893  
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-L840-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

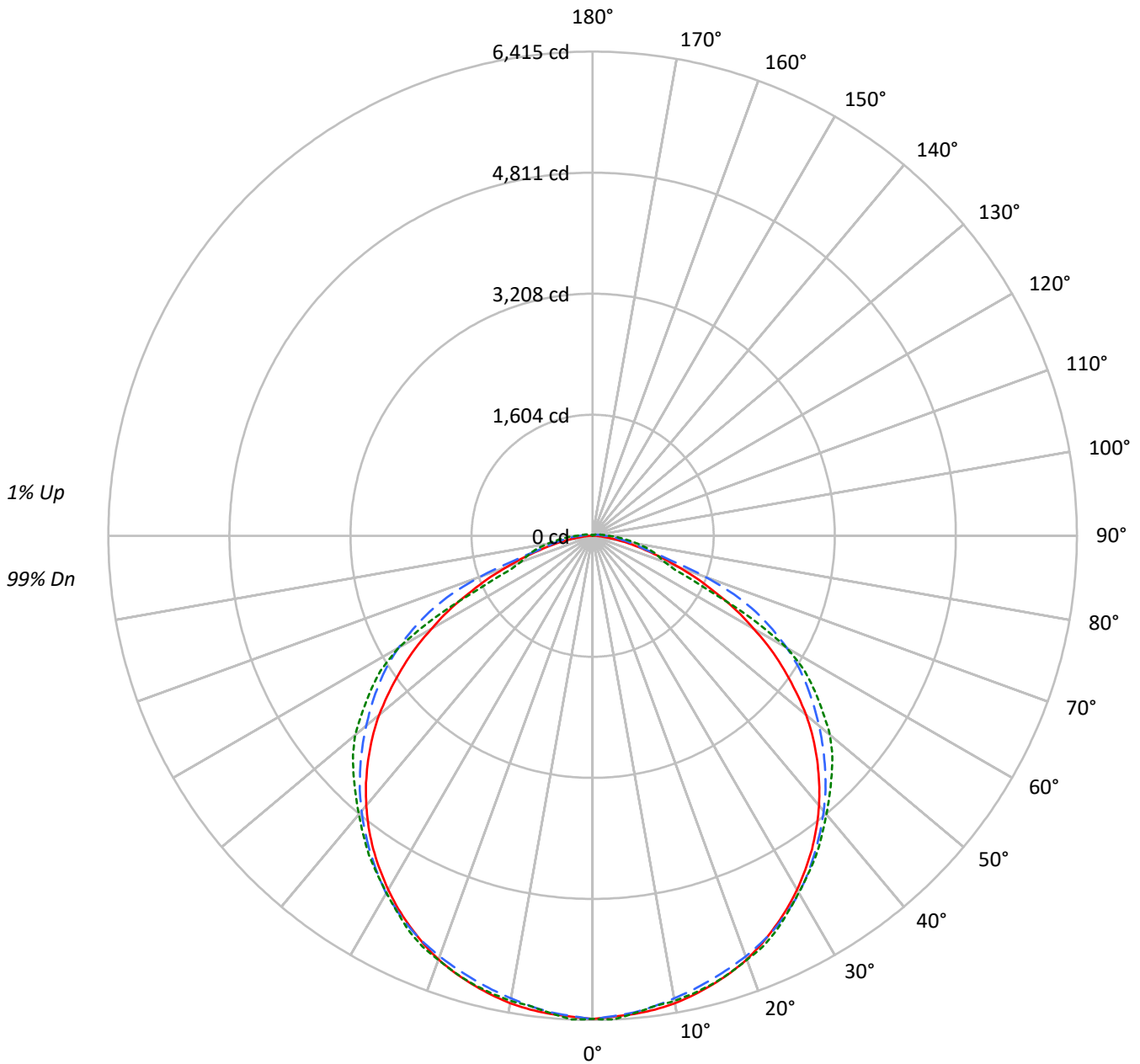
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18095.0 lumens  
Efficiency: N/A  
Efficacy: 175.7 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

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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	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°	10935	10935	10935
5°	10863	10771	10792
10°	10823	10603	10665
15°	10755	10476	10587
20°	10686	10395	10486
25°	10557	10312	10386
30°	10417	10185	10182
35°	10249	9986	10065
40°	10031	9781	9909
45°	9729	9543	9834
50°	9320	9273	9745
55°	8669	9007	9368
60°	7817	8620	8646
65°	6706	7909	5468
70°	5401	6161	3953
75°	4049	3647	3995
80°	2819	3018	3788
85°	1604	2740	3504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	603.7	3.3
10°-20°	1731.0	9.6
20°-30°	2643.8	14.6
30°-40°	3207.8	17.7
40°-50°	3362.1	18.6
50°-60°	3046.5	16.8
60°-70°	2042.6	11.3
70°-80°	917.2	5.1
80°-90°	332.8	1.8
90°-100°	100.2	0.6
100°-110°	47.3	0.3
110°-120°	23.7	0.1
120°-130°	13.1	0.1
130°-140°	9.0	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°	4978.4	27.5
0°-40°	8186.2	45.2
0°-60°	14594.8	80.7
0°-90°	17887.4	98.9
90°-120°	171.2	0.9
90°-150°	199.3	1.1
90°-180°	208.0	1.1
0°-180°	18095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6402	6402	6402	6402	6402	
5°	6360	6383	6338	6358	6349	605
15°	6154	6130	6086	6140	6148	1738
25°	5717	5692	5732	5785	5768	2635
35°	5067	5079	5131	5186	5165	3167
45°	4205	4274	4354	4465	4478	3240
55°	3095	3244	3465	3604	3595	2762
65°	1816	2100	2385	2012	1643	1810
75°	715	1037	763	780	831	781
85°	123	236	303	366	383	150
90°	1	79	156	196	206	7
95°	1	49	107	130	134	1
105°	4	21	53	64	67	4
115°	7	11	27	34	36	7
125°	6	7	17	19	20	6
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6402.0	6402.0	6402.0	6402.0	6402.0
2.5°	6376.1	6403.0	6369.6	6405.7	6415.0
5°	6360.4	6382.6	6338.2	6357.6	6349.3
7.5°	6331.7	6339.1	6286.3	6302.1	6285.4
10°	6289.1	6285.4	6223.4	6253.9	6257.6
12.5°	6226.1	6215.0	6159.5	6205.8	6206.7
15°	6153.9	6129.9	6086.4	6140.1	6147.5
17.5°	6070.6	6039.2	6010.5	6079.9	6068.8
20°	5973.4	5936.4	5930.9	6006.8	5979.0
22.5°	5853.1	5824.4	5837.4	5909.6	5892.0
25°	5717.0	5692.0	5731.8	5784.6	5767.9
27.5°	5573.5	5558.7	5604.1	5644.8	5612.4
30°	5416.2	5407.8	5468.0	5501.3	5460.6
32.5°	5244.9	5247.7	5305.1	5350.4	5312.5
35°	5067.2	5079.2	5131.1	5185.7	5165.3
37.5°	4871.9	4898.7	4950.6	5012.6	4991.3
40°	4665.4	4704.3	4761.7	4836.7	4817.3
42.5°	4442.4	4491.4	4565.5	4648.8	4646.9
45°	4205.4	4273.9	4353.5	4464.6	4478.5
47.5°	3959.1	4036.0	4136.9	4285.0	4306.3
50°	3691.6	3787.9	3913.8	4091.5	4104.5
52.5°	3393.6	3525.0	3691.6	3862.0	3846.2
55°	3094.6	3243.6	3464.8	3603.7	3595.4
57.5°	2796.5	2964.0	3232.5	3331.5	3330.6
60°	2463.2	2675.2	2968.7	3043.6	2969.6
62.5°	2155.0	2382.7	2687.3	2632.6	2379.0
65°	1816.2	2100.4	2384.6	2012.4	1643.1
67.5°	1515.3	1811.6	2025.4	1378.3	1180.2
70°	1212.6	1539.4	1579.2	1022.9	1009.0
72.5°	944.2	1292.3	1089.5	875.7	920.1
75°	714.6	1036.8	762.8	780.4	831.3
77.5°	521.2	796.1	593.4	684.1	725.7
80°	358.2	563.7	484.1	574.8	603.5
82.5°	224.9	372.1	387.9	462.8	492.5
85°	123.1	236.0	302.7	365.6	383.2
87.5°	50.9	142.6	231.4	282.3	297.1
90°	0.9	78.7	156.4	196.2	205.5
92.5°	0.9	60.2	127.7	158.3	164.8
95°	0.9	49.1	107.4	130.5	134.2
97.5°	1.9	38.9	89.8	108.3	112.0
100°	2.8	32.4	75.0	90.7	93.5
102.5°	3.7	25.9	62.9	75.9	78.7
105°	3.7	21.3	52.8	63.9	66.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.0	31.5	39.8	41.7
115°	7.4	11.1	26.8	34.3	36.1
117.5°	7.4	9.3	23.1	28.7	30.5
120°	7.4	8.3	20.4	25.0	25.9
122.5°	7.4	7.4	17.6	22.2	23.1
125°	6.5	7.4	16.7	19.4	20.4
127.5°	7.4	7.4	14.8	17.6	18.5
130°	7.4	8.3	13.0	16.7	16.7
132.5°	8.3	9.3	12.0	15.7	15.7
135°	8.3	9.3	10.2	14.8	15.7
137.5°	9.3	9.3	9.3	13.9	14.8
140°	9.3	9.3	8.3	12.0	13.0
142.5°	8.3	9.3	8.3	11.1	12.0
145°	8.3	9.3	9.3	10.2	11.1
147.5°	9.3	9.3	9.3	9.3	10.2
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	10.2	10.2	10.2	9.3
157.5°	9.3	10.2	10.2	10.2	10.2
160°	9.3	10.2	10.2	10.2	10.2
162.5°	10.2	10.2	10.2	10.2	10.2
165°	10.2	10.2	10.2	10.2	10.2
167.5°	10.2	11.1	10.2	10.2	10.2
170°	10.2	10.2	10.2	9.3	9.3
172.5°	10.2	10.2	10.2	9.3	9.3
175°	10.2	10.2	9.3	8.3	8.3
177.5°	11.1	10.2	9.3	8.3	7.4
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°	4.6	17.6	45.4	54.6	56.5
110°	5.6	14.8	38.0	46.3	48.1



(END OF REPORT)