

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: P829989

Luminaire Tested: **OHBL-18SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-N-UNV-L840-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

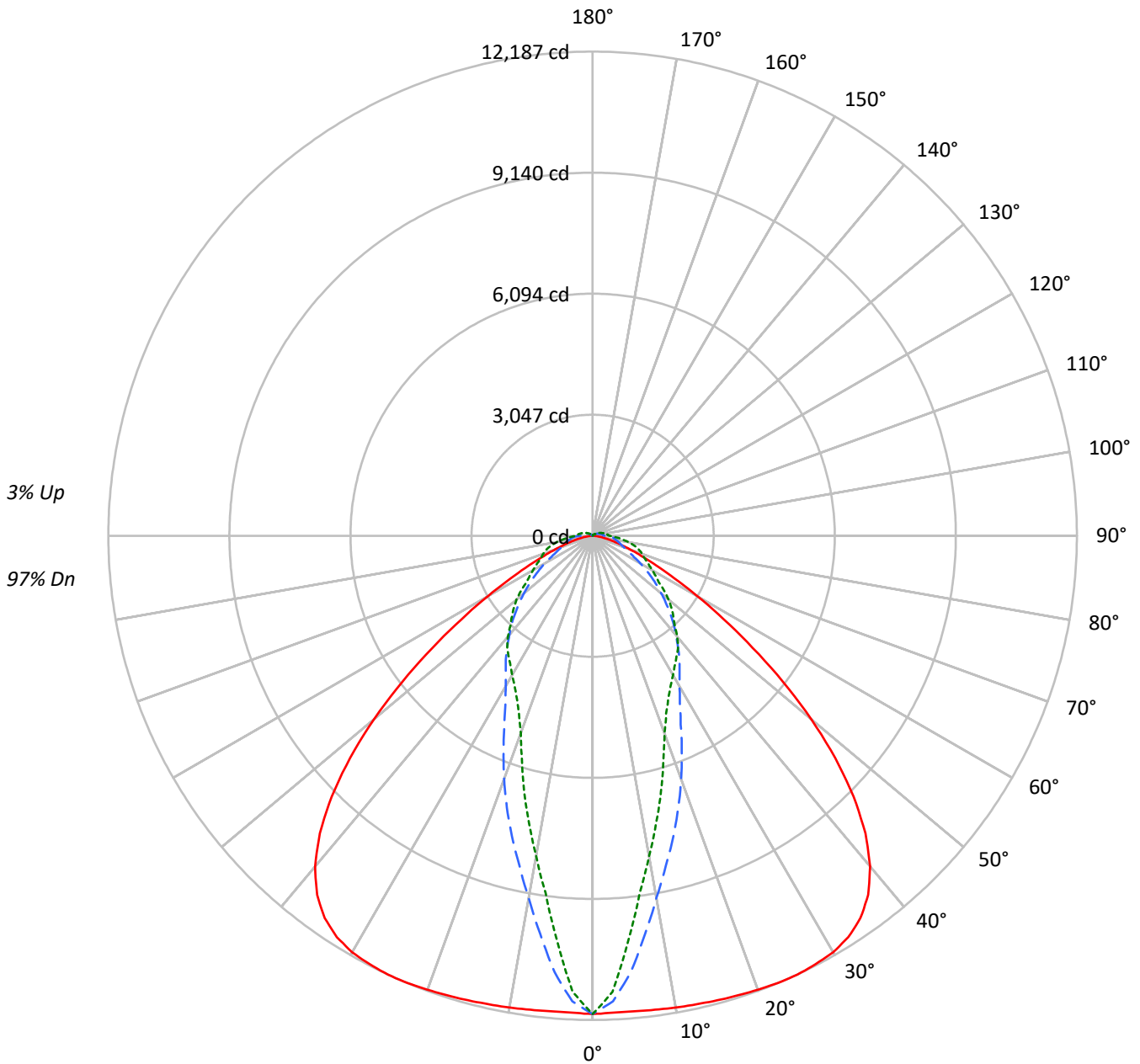
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17768.0 lumens  
Efficiency: N/A  
Efficacy: 169.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 105  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	20562	20562	20562
5°	20520	18725	17410
10°	20752	15773	13960
15°	21157	13490	11458
20°	21751	11406	9268
25°	22504	9441	8120
30°	23281	8133	7544
35°	23766	7412	7187
40°	23359	6696	6818
45°	21490	6051	6313
50°	18131	5346	5925
55°	13776	4682	5272
60°	9655	4016	5048
65°	6494	3458	4941
70°	4435	3245	5184
75°	3078	3347	5539
80°	2119	3707	5702
85°	1239	4637	5982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1013.4	5.7
10°-20°	2384.0	13.4
20°-30°	2988.3	16.8
30°-40°	3170.9	17.8
40°-50°	2867.0	16.1
50°-60°	2078.8	11.7
60°-70°	1304.5	7.3
70°-80°	863.3	4.9
80°-90°	497.4	2.8
90°-100°	241.0	1.4
100°-110°	166.3	0.9
110°-120°	102.6	0.6
120°-130°	49.7	0.3
130°-140°	22.9	0.1
140°-150°	12.5	0.1
150°-160°	5.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6385.7	35.9
0°-40°	9556.6	53.8
0°-60°	14502.5	81.6
0°-90°	17167.7	96.6
90°-120°	509.9	2.9
90°-150°	594.9	3.3
90°-180°	600.0	3.4
0°-180°	17768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12039	12039	12039	12039	12039	
5°	12015	11706	11019	10508	10243	###
15°	12106	9868	7837	6970	6654	3433
25°	12187	7630	5248	4658	4510	5630
35°	11750	5072	3809	3689	3688	7304
45°	9289	3213	2760	2827	2875	7076
55°	4918	1991	1801	1954	2024	4443
65°	1759	1155	1043	1336	1485	1830
75°	543	622	700	1087	1153	605
85°	95	258	512	713	654	114
90°	0	108	297	418	422	6
95°	5	76	261	355	371	4
105°	9	50	190	252	259	9
115°	13	36	128	160	164	12
125°	14	18	65	82	81	12
135°	12	14	29	45	45	9
145°	14	15	17	26	25	8
155°	14	17	18	20	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829989

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12038.8	12038.8	12038.8	12038.8	12038.8
2.5°	12013.6	11944.8	11730.6	11599.9	11489.9
5°	12014.7	11706.5	11019.0	10508.0	10243.3
7.5°	12031.9	11346.7	10108.1	9362.2	9071.2
10°	12058.2	10901.0	9257.9	8462.8	8191.2
12.5°	12077.7	10399.1	8509.7	7692.8	7394.9
15°	12106.4	9867.5	7837.2	6969.8	6653.6
17.5°	12132.7	9366.8	7172.6	6266.3	5914.5
20°	12159.1	8827.1	6508.1	5574.2	5284.4
22.5°	12184.3	8257.7	5859.5	5036.9	4838.7
25°	12186.6	7629.8	5247.7	4657.6	4509.8
27.5°	12156.8	6979.0	4751.6	4340.2	4248.6
30°	12105.2	6347.7	4366.6	4111.1	4045.8
32.5°	11976.9	5703.7	4068.7	3889.9	3852.1
35°	11750.0	5072.4	3808.6	3689.4	3688.3
37.5°	11392.5	4512.1	3526.7	3506.1	3531.3
40°	10864.3	4021.7	3259.8	3314.8	3314.8
42.5°	10159.7	3595.5	3018.0	3074.1	3059.2
45°	9288.9	3212.8	2760.2	2826.7	2874.8
47.5°	8279.4	2875.9	2496.7	2625.0	2691.4
50°	7181.8	2555.1	2256.1	2419.9	2495.5
52.5°	6031.4	2258.3	2021.2	2209.1	2269.8
55°	4917.7	1991.4	1801.2	1953.6	2023.5
57.5°	3909.4	1737.0	1585.8	1730.1	1874.5
60°	3042.1	1518.2	1383.0	1589.2	1733.6
62.5°	2323.7	1323.4	1192.8	1457.4	1601.8
65°	1758.8	1155.0	1042.7	1336.0	1484.9
67.5°	1325.7	1009.4	925.8	1247.8	1393.3
70°	995.7	868.5	831.8	1192.8	1323.4
72.5°	735.6	739.0	757.4	1144.6	1244.3
75°	543.1	622.2	700.1	1087.4	1152.7
77.5°	388.4	515.6	648.5	1018.6	1041.5
80°	269.3	420.5	594.7	928.1	908.6
82.5°	168.4	336.9	546.5	828.4	774.6
85°	95.1	257.8	512.2	712.7	654.2
87.5°	42.4	192.5	448.0	555.7	519.0
90°	0.0	107.7	296.8	418.2	421.6
92.5°	2.3	89.4	273.8	382.7	394.2
95°	4.6	75.6	261.2	355.2	371.2
97.5°	5.7	66.5	245.2	330.0	343.7
100°	6.9	59.6	225.7	303.6	315.1
102.5°	8.0	55.0	207.4	276.1	285.3
105°	9.2	50.4	190.2	252.1	258.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.5	39.0	143.2	181.0	186.8
115°	12.6	35.5	128.3	160.4	163.8
117.5°	13.7	30.9	112.3	140.9	142.1
120°	13.7	27.5	96.2	120.3	120.3
122.5°	13.7	22.9	80.2	99.7	98.5
125°	13.7	18.3	65.3	82.5	81.4
127.5°	12.6	14.9	52.7	68.7	67.6
130°	12.6	14.9	42.4	58.4	58.4
132.5°	11.5	13.7	34.4	50.4	50.4
135°	11.5	13.7	28.6	44.7	44.7
137.5°	11.5	14.9	24.1	39.0	39.0
140°	11.5	13.7	20.6	34.4	34.4
142.5°	12.6	13.7	18.3	29.8	29.8
145°	13.7	14.9	17.2	26.4	25.2
147.5°	13.7	16.0	17.2	22.9	21.8
150°	13.7	17.2	17.2	20.6	19.5
152.5°	13.7	17.2	17.2	19.5	18.3
155°	13.7	17.2	18.3	19.5	17.2
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°	9.2	47.0	174.2	225.7	233.7
110°	10.3	42.4	159.3	201.7	209.7



(END OF REPORT)