

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: P829954

Luminaire Tested: **OHBL-18SE-A-UNV-L850-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829954  
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-18SE-A-UNV-L850-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

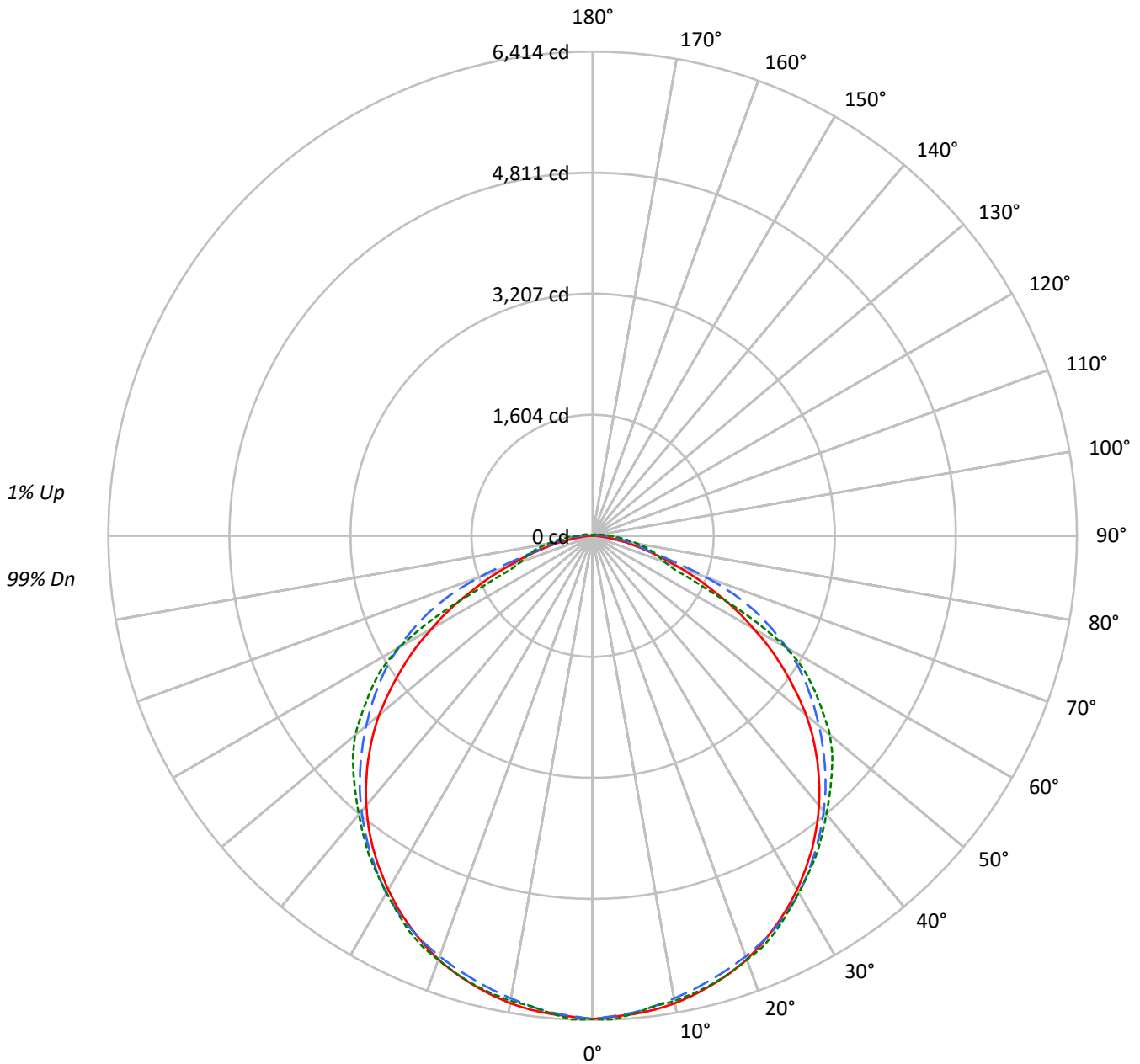
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18092.1 lumens  
Efficiency: N/A  
Efficacy: 172.3 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): 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	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°	10933	10933	10933
5°	10861	10769	10790
10°	10822	10601	10663
15°	10753	10474	10585
20°	10684	10393	10484
25°	10555	10310	10384
30°	10415	10183	10180
35°	10247	9984	10064
40°	10030	9779	9907
45°	9727	9542	9832
50°	9318	9272	9743
55°	8668	9005	9367
60°	7816	8618	8645
65°	6705	7908	5467
70°	5400	6161	3952
75°	4049	3646	3994
80°	2819	3018	3787
85°	1604	2739	3504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	603.6	3.3
10°-20°	1730.7	9.6
20°-30°	2643.3	14.6
30°-40°	3207.3	17.7
40°-50°	3361.5	18.6
50°-60°	3046.0	16.8
60°-70°	2042.3	11.3
70°-80°	917.1	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°	4977.6	27.5
0°-40°	8184.8	45.2
0°-60°	14592.4	80.7
0°-90°	17884.5	98.9
90°-120°	171.1	0.9
90°-150°	199.3	1.1
90°-180°	208.0	1.1
0°-180°	18092.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6401	6401	6401	6401	6401	
5°	6359	6382	6337	6356	6348	605
15°	6153	6129	6085	6139	6146	1737
25°	5716	5691	5731	5784	5767	2635
35°	5066	5078	5130	5185	5164	3167
45°	4205	4273	4353	4464	4478	3239
55°	3094	3243	3464	3603	3595	2762
65°	1816	2100	2384	2012	1643	1809
75°	714	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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CATALOG NUMBER: OHBL-18SE-A-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6401.0	6401.0	6401.0	6401.0	6401.0
2.5°	6375.1	6401.9	6368.6	6404.7	6413.9
5°	6359.3	6381.5	6337.1	6356.5	6348.2
7.5°	6330.6	6338.0	6285.3	6301.0	6284.3
10°	6288.1	6284.3	6222.3	6252.9	6256.6
12.5°	6225.1	6214.0	6158.5	6204.8	6205.7
15°	6152.9	6128.9	6085.4	6139.0	6146.4
17.5°	6069.6	6038.2	6009.5	6078.9	6067.8
20°	5972.4	5935.4	5929.9	6005.8	5978.0
22.5°	5852.1	5823.4	5836.4	5908.6	5891.0
25°	5716.1	5691.1	5730.9	5783.6	5767.0
27.5°	5572.6	5557.8	5603.2	5643.9	5611.5
30°	5415.3	5406.9	5467.1	5500.4	5459.7
32.5°	5244.1	5246.8	5304.2	5349.6	5311.6
35°	5066.4	5078.4	5130.2	5184.8	5164.5
37.5°	4871.1	4897.9	4949.7	5011.7	4990.5
40°	4664.7	4703.5	4760.9	4835.9	4816.5
42.5°	4441.6	4490.7	4564.7	4648.0	4646.2
45°	4204.7	4273.2	4352.8	4463.8	4477.7
47.5°	3958.5	4035.3	4136.2	4284.3	4305.6
50°	3691.0	3787.3	3913.1	4090.8	4103.8
52.5°	3393.0	3524.4	3691.0	3861.3	3845.6
55°	3094.0	3243.1	3464.3	3603.1	3594.8
57.5°	2796.0	2963.5	3232.0	3331.0	3330.1
60°	2462.8	2674.8	2968.2	3043.1	2969.1
62.5°	2154.6	2382.3	2686.8	2632.2	2378.6
65°	1815.9	2100.0	2384.2	2012.1	1642.8
67.5°	1515.1	1811.3	2025.1	1378.1	1180.1
70°	1212.4	1539.2	1579.0	1022.7	1008.8
72.5°	944.0	1292.0	1089.3	875.6	920.0
75°	714.5	1036.6	762.6	780.2	831.1
77.5°	521.1	796.0	593.3	684.0	725.6
80°	358.2	563.6	484.1	574.8	603.4
82.5°	224.9	372.1	387.8	462.8	492.4
85°	123.1	236.0	302.6	365.6	383.2
87.5°	50.9	142.5	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	164.7
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	41.6
115°	7.4	11.1	26.8	34.2	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	37.9	46.3	48.1



(END OF REPORT)