

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: P829992

Luminaire Tested: **OHBL-18SE-N-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829992  
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-L935-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

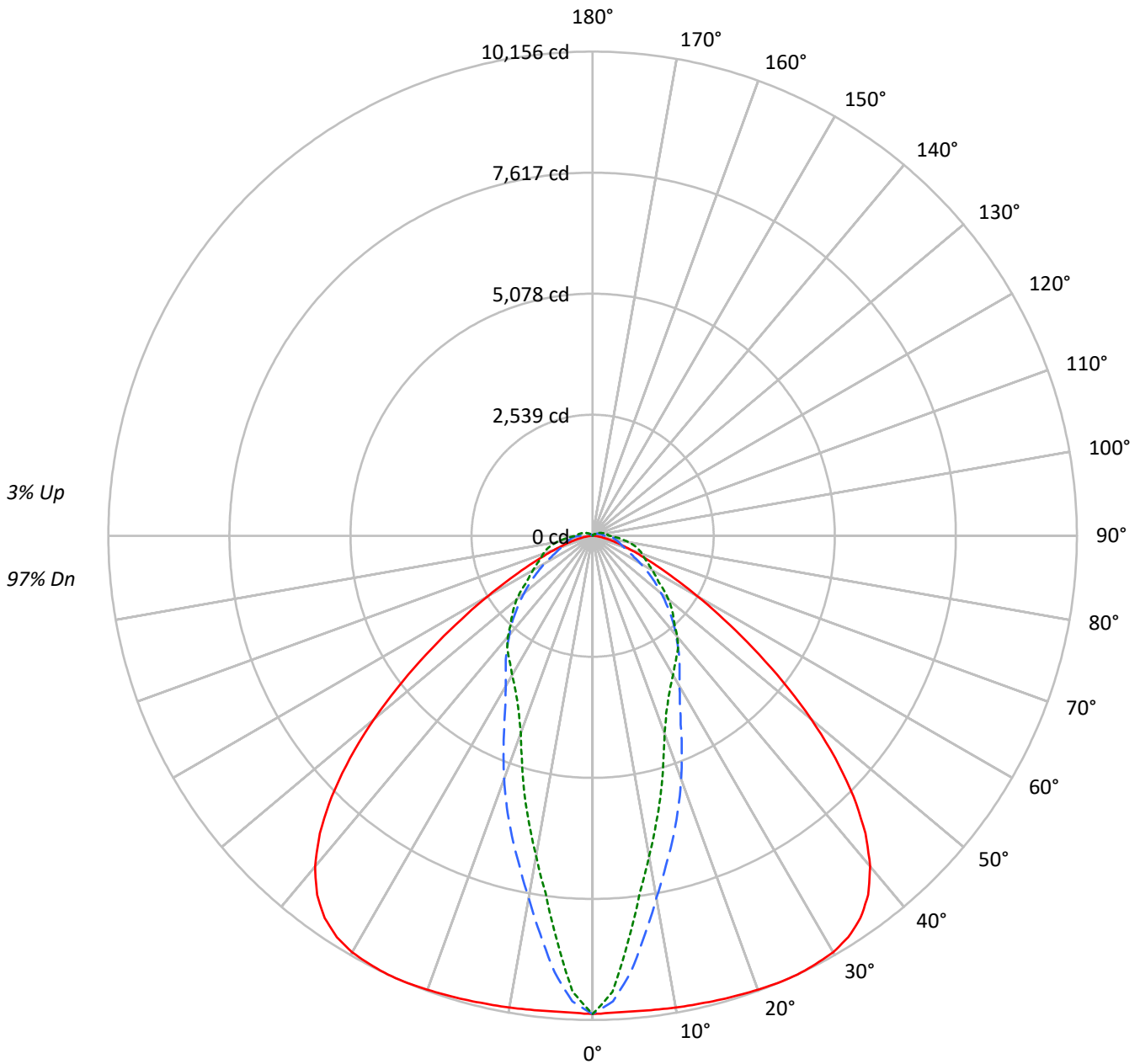
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14807.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 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				20				
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	88	86	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	79	76	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	72	67	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	65	60	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	59	54	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	55	49	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	50	45	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	47	41	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	44	38	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	41	35	32	30

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

	0°	45°	90°
0°	17135	17135	17135
5°	17101	15605	14509
10°	17294	13144	11634
15°	17631	11242	9549
20°	18127	9505	7723
25°	18753	7868	6767
30°	19402	6778	6286
35°	19805	6177	5989
40°	19466	5580	5682
45°	17908	5042	5261
50°	15109	4455	4937
55°	11481	3902	4394
60°	8046	3346	4206
65°	5412	2882	4118
70°	3696	2705	4320
75°	2565	2789	4616
80°	1766	3089	4752
85°	1033	3864	4985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.5	5.7
10°-20°	1986.7	13.4
20°-30°	2490.3	16.8
30°-40°	2642.5	17.8
40°-50°	2389.2	16.1
50°-60°	1732.3	11.7
60°-70°	1087.1	7.3
70°-80°	719.4	4.9
80°-90°	414.5	2.8
90°-100°	200.8	1.4
100°-110°	138.6	0.9
110°-120°	85.5	0.6
120°-130°	41.4	0.3
130°-140°	19.0	0.1
140°-150°	10.4	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5321.5	35.9
0°-40°	7964.0	53.8
0°-60°	12085.6	81.6
0°-90°	14306.7	96.6
90°-120°	424.9	2.9
90°-150°	495.8	3.3
90°-180°	500.0	3.4
0°-180°	14807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10032	10032	10032	10032	10032	
5°	10012	9756	9183	8757	8536	957
15°	10089	8223	6531	5808	5545	2861
25°	10156	6358	4373	3881	3758	4692
35°	9792	4227	3174	3075	3074	6087
45°	7741	2677	2300	2356	2396	5897
55°	4098	1660	1501	1628	1686	3703
65°	1466	962	869	1113	1238	1525
75°	453	518	583	906	961	505
85°	79	215	427	594	545	95
90°	0	90	247	348	351	5
95°	4	63	218	296	309	3
105°	8	42	158	210	216	8
115°	10	30	107	134	136	10
125°	12	15	54	69	68	10
135°	10	12	24	37	37	7
145°	12	12	14	22	21	7
155°	12	14	15	16	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829992

CATALOG NUMBER: OHBL-18SE-N-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10032.5	10032.5	10032.5	10032.5	10032.5
2.5°	10011.5	9954.2	9775.7	9666.8	9575.2
5°	10012.5	9755.6	9182.7	8756.9	8536.3
7.5°	10026.8	9455.8	8423.6	7802.0	7559.5
10°	10048.8	9084.4	7715.1	7052.5	6826.2
12.5°	10065.0	8666.2	7091.6	6410.8	6162.6
15°	10088.9	8223.1	6531.1	5808.3	5544.8
17.5°	10110.8	7805.8	5977.3	5222.0	4928.9
20°	10132.8	7356.1	5423.5	4645.3	4403.7
22.5°	10153.8	6881.6	4883.1	4197.5	4032.3
25°	10155.7	6358.3	4373.2	3881.4	3758.3
27.5°	10130.9	5815.9	3959.7	3616.9	3540.6
30°	10087.9	5289.8	3638.9	3426.0	3371.5
32.5°	9981.0	4753.2	3390.6	3241.7	3210.2
35°	9791.9	4227.1	3173.9	3074.6	3073.6
37.5°	9494.0	3760.2	2939.0	2921.8	2942.8
40°	9053.8	3351.5	2716.5	2762.4	2762.4
42.5°	8466.6	2996.3	2515.1	2561.8	2549.4
45°	7740.9	2677.4	2300.2	2355.6	2395.7
47.5°	6899.7	2396.7	2080.6	2187.5	2242.9
50°	5985.0	2129.3	1880.1	2016.6	2079.6
52.5°	5026.3	1882.0	1684.3	1840.9	1891.5
55°	4098.2	1659.5	1501.0	1628.0	1686.3
57.5°	3257.9	1447.5	1321.5	1441.8	1562.1
60°	2535.1	1265.2	1152.5	1324.4	1444.7
62.5°	1936.4	1102.8	994.0	1214.6	1334.9
65°	1465.7	962.5	868.9	1113.3	1237.5
67.5°	1104.8	841.2	771.5	1039.8	1161.1
70°	829.8	723.8	693.2	994.0	1102.8
72.5°	613.0	615.9	631.2	953.9	1037.0
75°	452.6	518.5	583.4	906.1	960.6
77.5°	323.7	429.7	540.4	848.9	868.0
80°	224.4	350.4	495.6	773.4	757.2
82.5°	140.4	280.7	455.5	690.4	645.5
85°	79.3	214.8	426.8	593.9	545.2
87.5°	35.3	160.4	373.3	463.1	432.5
90°	0.0	89.8	247.3	348.5	351.4
92.5°	1.9	74.5	228.2	318.9	328.5
95°	3.8	63.0	217.7	296.0	309.4
97.5°	4.8	55.4	204.3	275.0	286.5
100°	5.7	49.7	188.1	253.0	262.6
102.5°	6.7	45.8	172.8	230.1	237.8
105°	7.6	42.0	158.5	210.1	215.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.5	119.4	150.9	155.6
115°	10.5	29.6	106.9	133.7	136.5
117.5°	11.5	25.8	93.6	117.4	118.4
120°	11.5	22.9	80.2	100.3	100.3
122.5°	11.5	19.1	66.8	83.1	82.1
125°	11.5	15.3	54.4	68.7	67.8
127.5°	10.5	12.4	43.9	57.3	56.3
130°	10.5	12.4	35.3	48.7	48.7
132.5°	9.5	11.5	28.6	42.0	42.0
135°	9.5	11.5	23.9	37.2	37.2
137.5°	9.5	12.4	20.1	32.5	32.5
140°	9.5	11.5	17.2	28.6	28.6
142.5°	10.5	11.5	15.3	24.8	24.8
145°	11.5	12.4	14.3	22.0	21.0
147.5°	11.5	13.4	14.3	19.1	18.1
150°	11.5	14.3	14.3	17.2	16.2
152.5°	11.5	14.3	14.3	16.2	15.3
155°	11.5	14.3	15.3	16.2	14.3
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°	7.6	39.1	145.1	188.1	194.8
110°	8.6	35.3	132.7	168.1	174.7



(END OF REPORT)