

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: P829988

Luminaire Tested: **OHBL-18SE-N-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829988  
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-L835-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

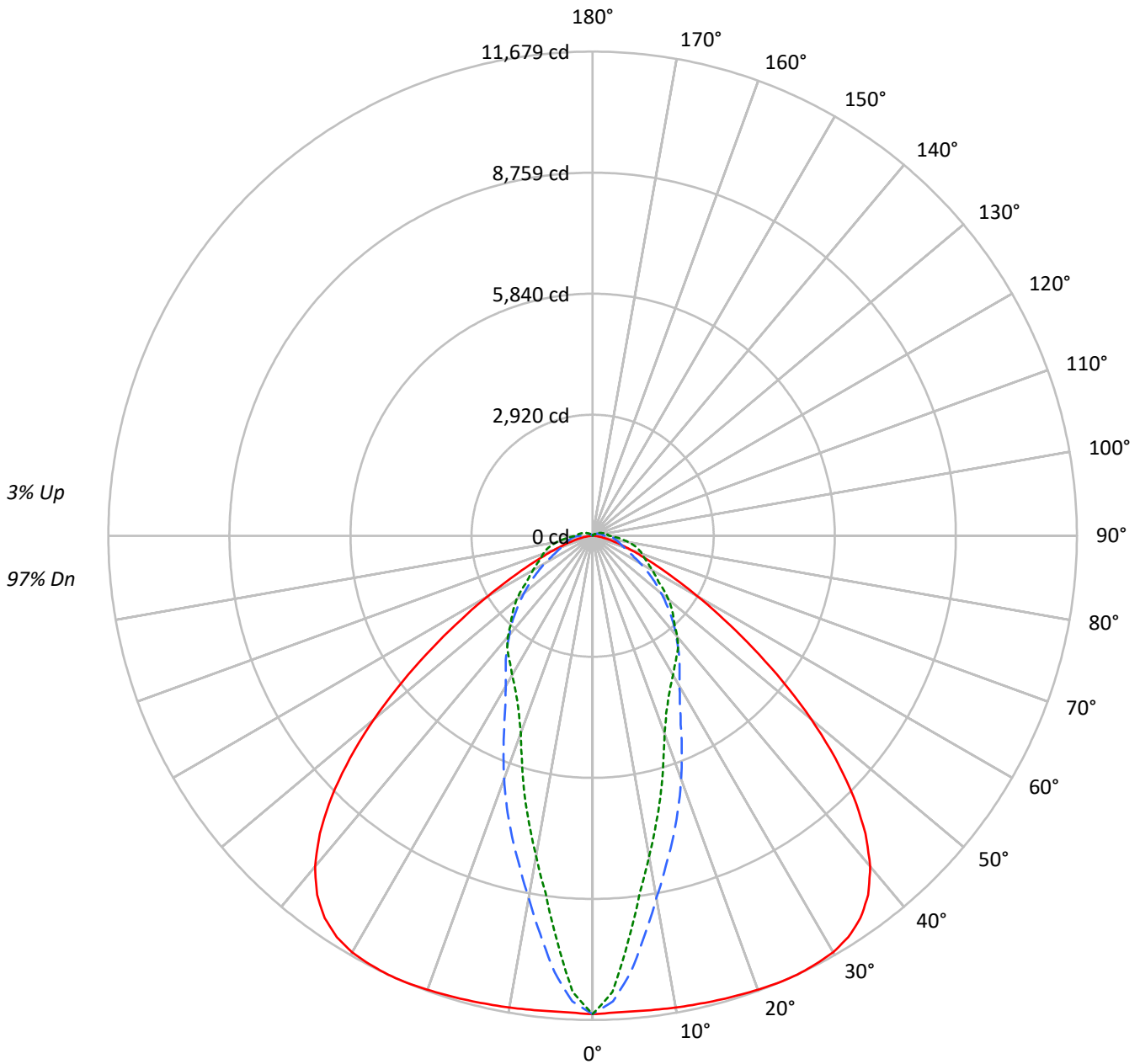
Lumens per Lamp: N/A  
Luminaire Lumens: 17028.0 lumens  
Efficiency: N/A  
Efficacy: 162.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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°	19706	19706	19706
5°	19666	17945	16685
10°	19887	15116	13379
15°	20276	12928	10981
20°	20846	10931	8882
25°	21566	9048	7782
30°	22312	7795	7229
35°	22776	7104	6888
40°	22386	6417	6534
45°	20595	5799	6050
50°	17376	5123	5678
55°	13203	4487	5053
60°	9252	3848	4837
65°	6223	3314	4736
70°	4250	3110	4968
75°	2950	3208	5309
80°	2030	3553	5465
85°	1187	4443	5733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	971.2	5.7
10°-20°	2284.7	13.4
20°-30°	2863.8	16.8
30°-40°	3038.9	17.8
40°-50°	2747.6	16.1
50°-60°	1992.2	11.7
60°-70°	1250.2	7.3
70°-80°	827.3	4.9
80°-90°	476.6	2.8
90°-100°	230.9	1.4
100°-110°	159.4	0.9
110°-120°	98.3	0.6
120°-130°	47.6	0.3
130°-140°	21.9	0.1
140°-150°	12.0	0.1
150°-160°	5.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6119.8	35.9
0°-40°	9158.6	53.8
0°-60°	13898.4	81.6
0°-90°	16452.6	96.6
90°-120°	488.6	2.9
90°-150°	570.2	3.3
90°-180°	575.0	3.4
0°-180°	17028.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11537	11537	11537	11537	11537	
5°	11514	11219	10560	10070	9817	###
15°	11602	9456	7511	6680	6376	3290
25°	11679	7312	5029	4464	4322	5396
35°	11261	4861	3650	3536	3535	7000
45°	8902	3079	2645	2709	2755	6782
55°	4713	1908	1726	1872	1939	4258
65°	1686	1107	999	1280	1423	1754
75°	520	596	671	1042	1105	580
85°	91	247	491	683	627	109
90°	0	103	284	401	404	6
95°	4	72	250	340	356	4
105°	9	48	182	242	248	9
115°	12	34	123	154	157	12
125°	13	18	63	79	78	11
135°	11	13	28	43	43	9
145°	13	14	16	25	24	8
155°	13	16	18	19	16	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11537.4	11537.4	11537.4	11537.4	11537.4
2.5°	11513.2	11447.3	11242.0	11116.8	11011.4
5°	11514.3	11218.9	10560.1	10070.4	9816.7
7.5°	11530.8	10874.1	9687.1	8972.3	8693.4
10°	11556.0	10447.0	8872.4	8110.3	7850.1
12.5°	11574.7	9966.0	8155.3	7372.4	7086.9
15°	11602.2	9456.5	7510.8	6679.5	6376.5
17.5°	11627.4	8976.7	6873.9	6005.3	5668.2
20°	11652.7	8459.5	6237.0	5342.1	5064.3
22.5°	11676.8	7913.8	5615.5	4827.1	4637.1
25°	11679.0	7312.0	5029.1	4463.6	4322.0
27.5°	11650.5	6688.3	4553.7	4159.5	4071.6
30°	11601.1	6083.3	4184.7	3939.9	3877.3
32.5°	11478.1	5466.2	3899.2	3727.9	3691.7
35°	11260.7	4861.1	3650.0	3535.8	3534.7
37.5°	10918.1	4324.2	3379.8	3360.1	3384.2
40°	10411.9	3854.2	3124.0	3176.7	3176.7
42.5°	9736.6	3445.7	2892.3	2946.1	2931.8
45°	8902.0	3079.0	2645.2	2708.9	2755.0
47.5°	7934.6	2756.1	2392.7	2515.7	2579.4
50°	6882.7	2448.7	2162.1	2319.1	2391.6
52.5°	5780.2	2164.3	1937.0	2117.1	2175.3
55°	4712.9	1908.4	1726.2	1872.2	1939.2
57.5°	3746.6	1664.7	1519.7	1658.1	1796.4
60°	2915.4	1454.9	1325.4	1523.0	1661.4
62.5°	2226.9	1268.3	1143.1	1396.7	1535.1
65°	1685.5	1106.9	999.2	1280.3	1423.1
67.5°	1270.5	967.4	887.2	1195.8	1335.2
70°	954.2	832.3	797.2	1143.1	1268.3
72.5°	705.0	708.3	725.8	1097.0	1192.5
75°	520.5	596.2	670.9	1042.1	1104.7
77.5°	372.2	494.1	621.5	976.2	998.1
80°	258.0	403.0	569.9	889.4	870.8
82.5°	161.4	322.8	523.8	793.9	742.3
85°	91.1	247.1	490.8	683.0	627.0
87.5°	40.6	184.5	429.3	532.6	497.4
90°	0.0	103.2	284.4	400.8	404.1
92.5°	2.2	85.6	262.4	366.8	377.7
95°	4.4	72.5	250.4	340.4	355.8
97.5°	5.5	63.7	235.0	316.2	329.4
100°	6.6	57.1	216.3	291.0	302.0
102.5°	7.7	52.7	198.7	264.6	273.4
105°	8.8	48.3	182.3	241.6	248.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.0	37.3	137.3	173.5	179.0
115°	12.1	34.0	123.0	153.7	157.0
117.5°	13.2	29.6	107.6	135.1	136.2
120°	13.2	26.4	92.2	115.3	115.3
122.5°	13.2	22.0	76.9	95.5	94.4
125°	13.2	17.6	62.6	79.1	78.0
127.5°	12.1	14.3	50.5	65.9	64.8
130°	12.1	14.3	40.6	56.0	56.0
132.5°	11.0	13.2	32.9	48.3	48.3
135°	11.0	13.2	27.5	42.8	42.8
137.5°	11.0	14.3	23.1	37.3	37.3
140°	11.0	13.2	19.8	32.9	32.9
142.5°	12.1	13.2	17.6	28.5	28.5
145°	13.2	14.3	16.5	25.3	24.2
147.5°	13.2	15.4	16.5	22.0	20.9
150°	13.2	16.5	16.5	19.8	18.7
152.5°	13.2	16.5	16.5	18.7	17.6
155°	13.2	16.5	17.6	18.7	16.5
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°	8.8	45.0	166.9	216.3	224.0
110°	9.9	40.6	152.6	193.3	200.9



(END OF REPORT)