

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: P830012

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-W-UNV-L835-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

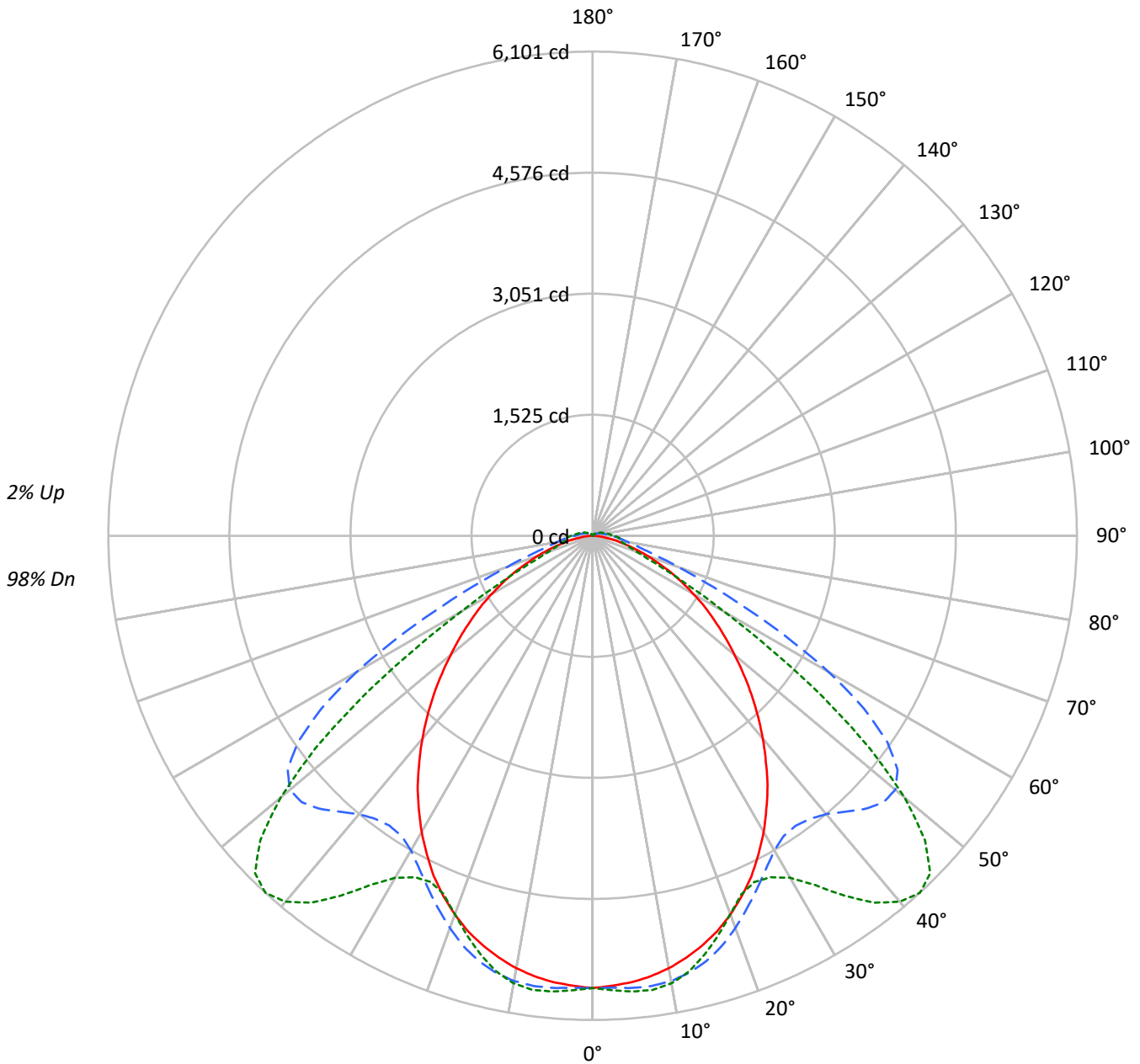
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17064.0 lumens  
Efficiency: N/A  
Efficacy: 162.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

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

	0°	45°	90°
0°	9734	9734	9734
5°	9643	9720	9797
10°	9522	9705	9761
15°	9337	9545	9401
20°	9082	9217	8895
25°	8742	8820	8670
30°	8288	8524	9276
35°	7772	8682	10786
40°	7172	9403	12383
45°	6545	10665	13205
50°	5891	11793	12176
55°	5277	11778	9201
60°	4651	9964	5549
65°	3991	6880	3302
70°	3242	4447	2327
75°	2467	3186	2080
80°	1770	2798	2207
85°	1201	3073	3070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.6	3.2
10°-20°	1542.2	9.0
20°-30°	2256.7	13.2
30°-40°	2930.8	17.2
40°-50°	3578.9	21.0
50°-60°	3151.8	18.5
60°-70°	1642.4	9.6
70°-80°	704.3	4.1
80°-90°	338.3	2.0
90°-100°	158.9	0.9
100°-110°	98.8	0.6
110°-120°	58.4	0.3
120°-130°	31.8	0.2
130°-140°	15.9	0.1
140°-150°	7.7	0.0
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4343.5	25.5
0°-40°	7274.3	42.6
0°-60°	14004.9	82.1
0°-90°	16689.9	97.8
90°-120°	316.1	1.9
90°-150°	371.4	2.2
90°-180°	374.0	2.2
0°-180°	17064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5699	5699	5699	5699	5699	
5°	5646	5689	5720	5770	5764	535
15°	5342	5492	5545	5504	5459	1504
25°	4734	4987	4902	4810	4815	2172
35°	3842	4248	4461	5202	5536	2395
45°	2829	3560	4865	5891	6014	2182
55°	1884	3118	4531	3973	3531	1691
65°	1081	2160	2074	1153	992	1069
75°	435	1011	666	456	433	475
85°	92	360	339	332	336	103
90°	1	130	224	256	262	6
95°	2	76	178	209	215	2
105°	5	43	116	139	141	5
115°	7	25	71	87	90	8
125°	9	12	42	54	55	7
135°	7	7	20	33	34	6
145°	10	7	9	16	18	6
155°	10	10	7	7	7	3
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°	5699.1	5699.1	5699.1	5699.1	5699.1
2.5°	5674.5	5699.1	5700.3	5734.7	5731.0
5°	5646.2	5689.2	5720.0	5770.4	5764.2
7.5°	5599.5	5667.1	5721.2	5776.5	5771.6
10°	5533.1	5625.3	5696.6	5742.1	5727.3
12.5°	5447.0	5568.7	5638.8	5648.7	5620.4
15°	5342.5	5492.5	5545.4	5503.6	5459.3
17.5°	5224.4	5400.3	5418.7	5327.7	5272.4
20°	5076.9	5277.3	5258.9	5133.5	5072.0
22.5°	4913.4	5142.1	5083.0	4951.5	4892.5
25°	4733.9	4987.1	4902.3	4810.1	4815.0
27.5°	4523.6	4811.3	4728.9	4770.7	4849.4
30°	4309.6	4626.9	4576.5	4819.9	4974.8
32.5°	4074.8	4437.5	4483.0	4963.8	5217.1
35°	3842.4	4248.2	4460.9	5202.3	5535.5
37.5°	3585.4	4056.4	4496.5	5477.7	5826.9
40°	3335.8	3869.5	4577.7	5724.9	6020.0
42.5°	3081.3	3702.2	4714.2	5871.2	6101.1
45°	2829.2	3559.6	4865.4	5890.9	6013.8
47.5°	2577.2	3439.1	4969.9	5734.7	5678.2
50°	2333.7	3332.1	4977.3	5359.7	5128.5
52.5°	2106.3	3233.8	4842.1	4762.1	4403.1
55°	1883.7	3118.2	4531.0	3972.7	3531.3
57.5°	1680.8	2958.3	4051.4	3124.3	2642.3
60°	1465.6	2741.9	3431.7	2285.8	1905.8
62.5°	1267.7	2472.7	2737.0	1591.1	1369.7
65°	1080.8	2160.4	2074.3	1153.3	992.3
67.5°	882.8	1837.0	1530.8	841.0	737.7
70°	727.9	1537.0	1139.8	654.1	593.9
72.5°	569.3	1251.7	852.1	531.2	498.0
75°	435.3	1010.7	666.4	456.2	432.8
77.5°	320.9	799.2	536.1	403.3	381.2
80°	225.0	629.5	448.8	360.3	351.7
82.5°	151.2	486.9	382.4	343.1	344.3
85°	92.2	360.3	339.4	332.0	335.7
87.5°	44.3	255.8	291.4	302.5	306.2
90°	1.2	130.3	223.8	255.8	261.9
92.5°	0.0	99.6	196.7	228.7	234.8
95°	2.5	76.2	178.3	209.0	215.2
97.5°	2.5	62.7	159.8	191.8	195.5
100°	3.7	54.1	142.6	173.4	177.1
102.5°	3.7	48.0	127.9	154.9	157.4
105°	4.9	43.0	115.6	138.9	141.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.4	29.5	81.2	98.4	100.8
115°	7.4	24.6	71.3	87.3	89.8
117.5°	8.6	22.1	62.7	77.5	78.7
120°	8.6	18.4	54.1	68.9	70.1
122.5°	8.6	14.8	48.0	61.5	62.7
125°	8.6	12.3	41.8	54.1	55.3
127.5°	7.4	8.6	35.7	48.0	49.2
130°	7.4	7.4	29.5	41.8	44.3
132.5°	7.4	7.4	24.6	36.9	39.3
135°	7.4	7.4	19.7	33.2	34.4
137.5°	7.4	7.4	16.0	28.3	30.7
140°	7.4	7.4	12.3	24.6	25.8
142.5°	8.6	7.4	11.1	20.9	22.1
145°	9.8	7.4	8.6	16.0	18.4
147.5°	9.8	8.6	8.6	13.5	14.8
150°	9.8	9.8	7.4	9.8	12.3
152.5°	9.8	9.8	7.4	7.4	9.8
155°	9.8	9.8	7.4	7.4	7.4
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°	6.1	38.1	103.3	124.2	126.6
110°	6.1	33.2	91.0	110.7	113.1



(END OF REPORT)