

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: P830132

Luminaire Tested: **OHBL-24SE-N-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830132  
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-24SE-N-UNV-L835-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

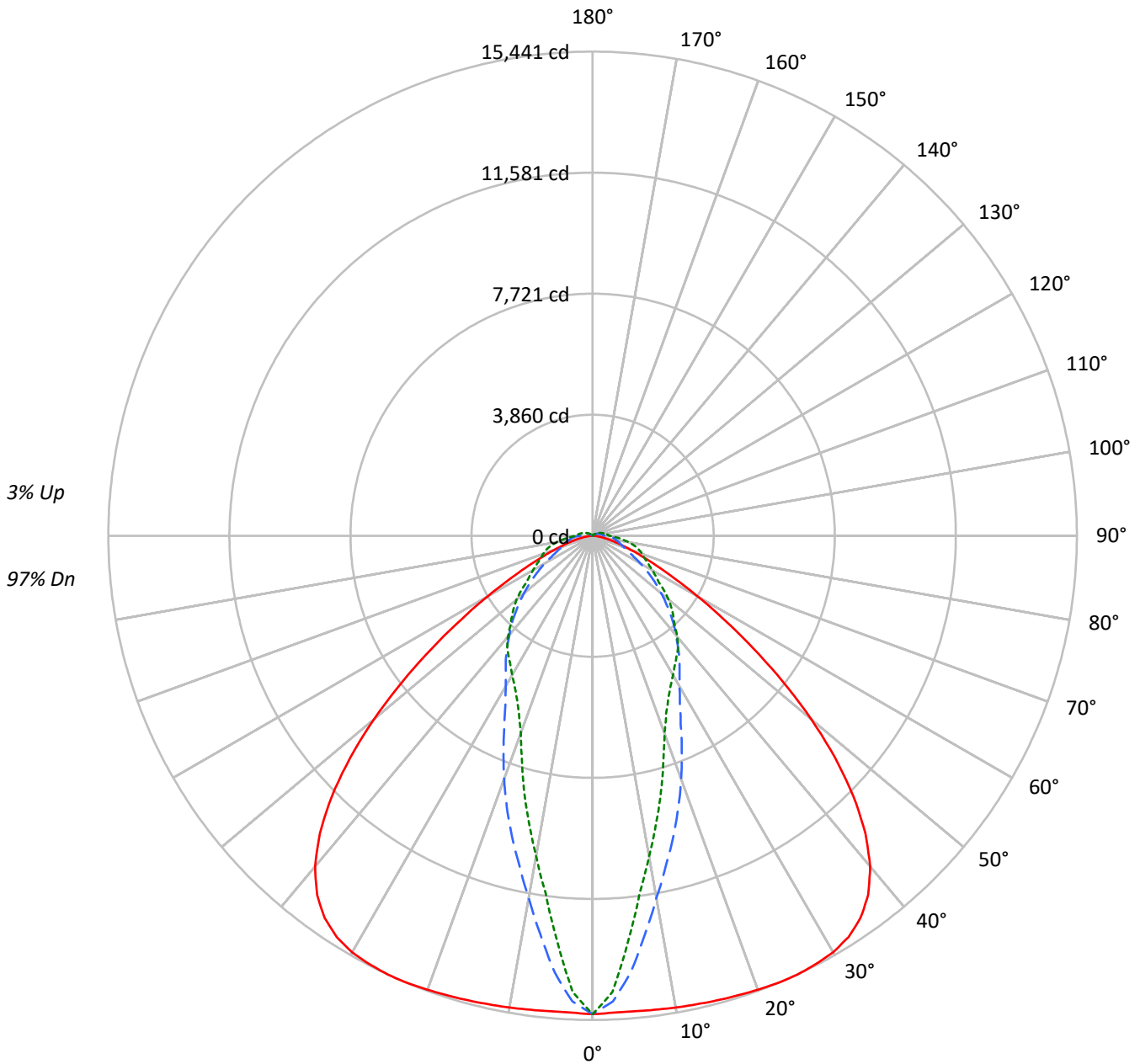
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22513.0 lumens  
Efficiency: N/A  
Efficacy: 163.1 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): 138  
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°	26053	26053	26053
5°	26000	23726	22059
10°	26294	19985	17688
15°	26807	17092	14518
20°	27560	14452	11742
25°	28513	11962	10289
30°	29499	10305	9558
35°	30113	9392	9106
40°	29597	8484	8639
45°	27228	7666	7998
50°	22972	6773	7507
55°	17456	5933	6680
60°	12233	5088	6395
65°	8228	4382	6261
70°	5620	4112	6569
75°	3899	4241	7018
80°	2685	4697	7225
85°	1570	5874	7580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1284.0	5.7
10°-20°	3020.6	13.4
20°-30°	3786.3	16.8
30°-40°	4017.7	17.8
40°-50°	3632.7	16.1
50°-60°	2633.9	11.7
60°-70°	1652.9	7.3
70°-80°	1093.8	4.9
80°-90°	630.2	2.8
90°-100°	305.3	1.4
100°-110°	210.7	0.9
110°-120°	130.0	0.6
120°-130°	63.0	0.3
130°-140°	29.0	0.1
140°-150°	15.8	0.1
150°-160°	6.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8091.0	35.9
0°-40°	12108.8	53.8
0°-60°	18375.4	81.6
0°-90°	21752.3	96.6
90°-120°	646.1	2.9
90°-150°	753.8	3.3
90°-180°	761.0	3.4
0°-180°	22513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15254	15254	15254	15254	15254	
5°	15223	14833	13962	13314	12979	###
15°	15339	12503	9930	8831	8430	4350
25°	15441	9667	6649	5901	5714	7134
35°	14888	6427	4826	4675	4673	9255
45°	11770	4071	3497	3582	3642	8966
55°	6231	2523	2282	2475	2564	5630
65°	2228	1463	1321	1693	1882	2319
75°	688	788	887	1378	1460	767
85°	120	327	649	903	829	144
90°	0	136	376	530	534	8
95°	6	96	331	450	470	5
105°	12	64	241	319	328	12
115°	16	45	163	203	208	16
125°	17	23	83	104	103	15
135°	14	17	36	57	57	11
145°	17	19	22	33	32	10
155°	17	22	23	25	22	5
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°	15253.8	15253.8	15253.8	15253.8	15253.8
2.5°	15221.8	15134.7	14863.2	14697.7	14558.4
5°	15223.3	14832.7	13961.7	13314.2	12978.8
7.5°	15245.0	14376.9	12807.5	11862.4	11493.7
10°	15278.4	13812.1	11730.3	10722.8	10378.7
12.5°	15303.1	13176.3	10782.3	9747.2	9369.7
15°	15339.4	12502.7	9930.1	8831.1	8430.4
17.5°	15372.8	11868.2	9088.1	7939.7	7494.0
20°	15406.2	11184.4	8246.1	7062.9	6695.6
22.5°	15438.1	10462.9	7424.4	6382.0	6130.8
25°	15441.0	9667.3	6649.1	5901.4	5714.2
27.5°	15403.3	8842.7	6020.5	5499.3	5383.2
30°	15338.0	8042.8	5532.7	5209.0	5126.2
32.5°	15175.4	7226.9	5155.2	4928.8	4880.9
35°	14887.9	6427.0	4825.7	4674.7	4673.3
37.5°	14435.0	5717.1	4468.6	4442.4	4474.4
40°	13765.7	5095.7	4130.3	4200.0	4200.0
42.5°	12872.9	4555.7	3824.0	3895.1	3876.2
45°	11769.5	4070.8	3497.3	3581.5	3642.5
47.5°	10490.5	3643.9	3163.4	3326.0	3410.2
50°	9099.7	3237.4	2858.5	3066.1	3162.0
52.5°	7642.1	2861.4	2560.9	2799.0	2876.0
55°	6231.0	2523.2	2282.2	2475.3	2563.8
57.5°	4953.4	2200.9	2009.3	2192.2	2375.1
60°	3854.5	1923.6	1752.3	2013.6	2196.5
62.5°	2944.2	1676.8	1511.3	1846.7	2029.6
65°	2228.5	1463.4	1321.1	1692.8	1881.5
67.5°	1679.7	1279.0	1173.0	1581.0	1765.4
70°	1261.6	1100.4	1054.0	1511.3	1676.8
72.5°	932.0	936.4	959.6	1450.3	1576.6
75°	688.1	788.3	887.0	1377.7	1460.5
77.5°	492.2	653.3	821.7	1290.6	1319.7
80°	341.2	532.8	753.5	1175.9	1151.3
82.5°	213.4	426.8	692.5	1049.6	981.4
85°	120.5	326.6	648.9	903.0	829.0
87.5°	53.7	243.9	567.6	704.1	657.7
90°	0.0	136.5	376.0	529.9	534.3
92.5°	2.9	113.2	347.0	484.9	499.4
95°	5.8	95.8	331.0	450.0	470.4
97.5°	7.3	84.2	310.7	418.1	435.5
100°	8.7	75.5	286.0	384.7	399.2
102.5°	10.2	69.7	262.8	349.9	361.5
105°	11.6	63.9	241.0	319.4	328.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.5	49.4	181.5	229.4	236.6
115°	16.0	45.0	162.6	203.2	207.6
117.5°	17.4	39.2	142.3	178.6	180.0
120°	17.4	34.8	121.9	152.4	152.4
122.5°	17.4	29.0	101.6	126.3	124.9
125°	17.4	23.2	82.8	104.5	103.1
127.5°	16.0	18.9	66.8	87.1	85.7
130°	16.0	18.9	53.7	74.0	74.0
132.5°	14.5	17.4	43.6	63.9	63.9
135°	14.5	17.4	36.3	56.6	56.6
137.5°	14.5	18.9	30.5	49.4	49.4
140°	14.5	17.4	26.1	43.6	43.6
142.5°	16.0	17.4	23.2	37.7	37.7
145°	17.4	18.9	21.8	33.4	31.9
147.5°	17.4	20.3	21.8	29.0	27.6
150°	17.4	21.8	21.8	26.1	24.7
152.5°	17.4	21.8	21.8	24.7	23.2
155°	17.4	21.8	23.2	24.7	21.8
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°	11.6	59.5	220.7	286.0	296.2
110°	13.1	53.7	201.8	255.5	265.7



(END OF REPORT)