

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: P830133

Luminaire Tested: **OHBL-24SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830133  
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-L840-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

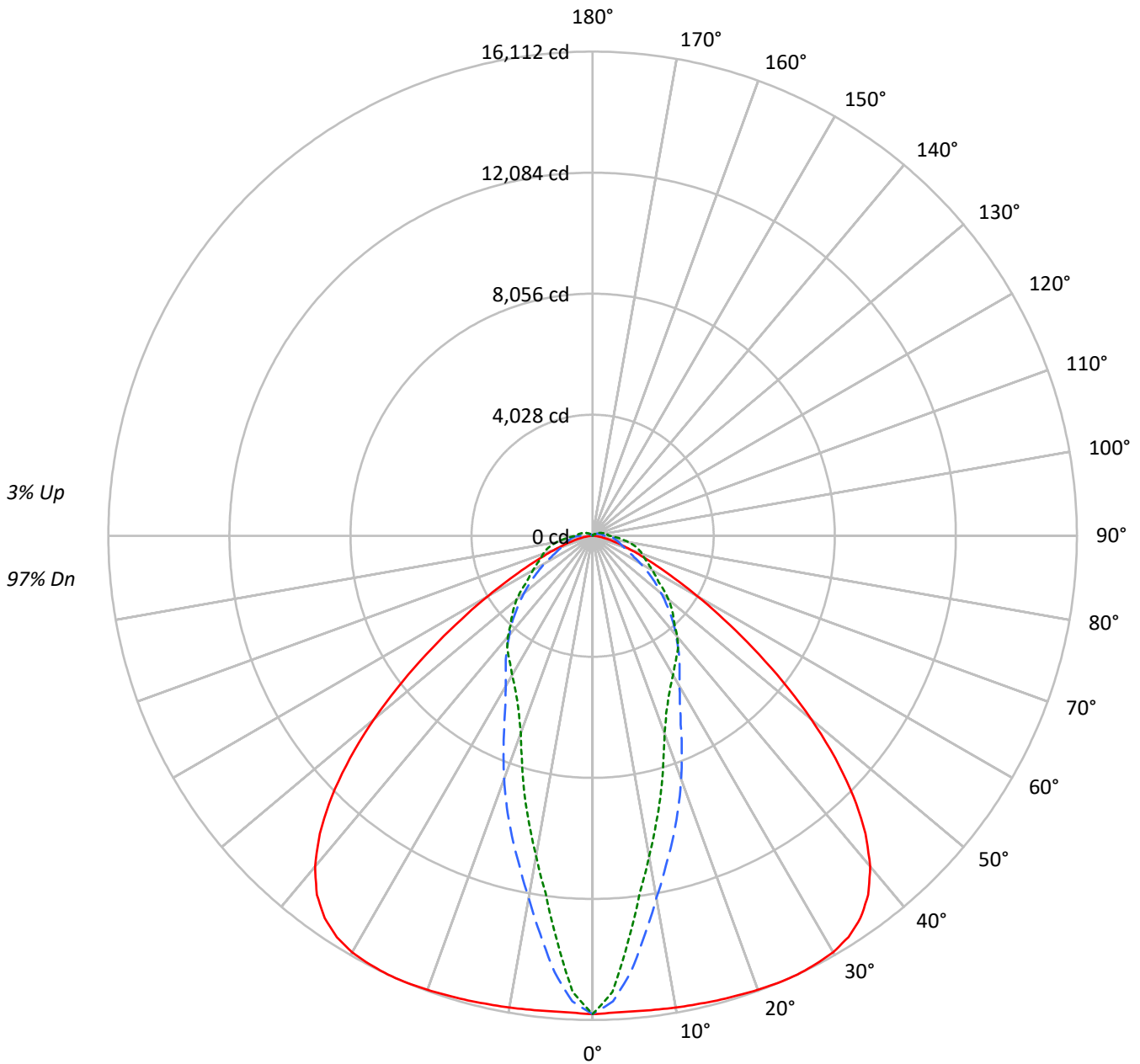
Lumens per Lamp: N/A  
Luminaire Lumens: 23492.0 lumens  
Efficiency: N/A  
Efficacy: 170.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	27186	27186	27186
5°	27131	24758	23019
10°	27437	20854	18457
15°	27973	17835	15149
20°	28759	15080	12253
25°	29753	12483	10736
30°	30782	10754	9974
35°	31422	9800	9502
40°	30884	8853	9015
45°	28412	8000	8346
50°	23971	7068	7834
55°	18215	6190	6971
60°	12765	5309	6673
65°	8586	4572	6533
70°	5864	4291	6854
75°	4069	4425	7323
80°	2801	4901	7539
85°	1638	6131	7909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1339.9	5.7
10°-20°	3152.0	13.4
20°-30°	3951.0	16.8
30°-40°	4192.5	17.8
40°-50°	3790.6	16.1
50°-60°	2748.5	11.7
60°-70°	1724.8	7.3
70°-80°	1141.4	4.9
80°-90°	657.6	2.8
90°-100°	318.6	1.4
100°-110°	219.9	0.9
110°-120°	135.7	0.6
120°-130°	65.7	0.3
130°-140°	30.2	0.1
140°-150°	16.5	0.1
150°-160°	7.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8442.9	35.9
0°-40°	12635.3	53.8
0°-60°	19174.4	81.6
0°-90°	22698.2	96.6
90°-120°	674.2	2.9
90°-150°	786.6	3.3
90°-180°	794.0	3.4
0°-180°	23492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15917	15917	15917	15917	15917	
5°	15885	15478	14569	13893	13543	###
15°	16006	13046	10362	9215	8797	4539
25°	16112	10088	6938	6158	5963	7444
35°	15535	6706	5036	4878	4876	9658
45°	12281	4248	3649	3737	3801	9356
55°	6502	2633	2381	2583	2675	5875
65°	2325	1527	1379	1766	1963	2420
75°	718	823	926	1438	1524	800
85°	126	341	677	942	865	151
90°	0	142	392	553	558	8
95°	6	100	345	470	491	5
105°	12	67	252	333	342	12
115°	17	47	170	212	217	16
125°	18	24	86	109	108	16
135°	15	18	38	59	59	12
145°	18	20	23	35	33	11
155°	18	23	24	26	23	6
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°	15917.1	15917.1	15917.1	15917.1	15917.1
2.5°	15883.8	15792.9	15509.6	15336.9	15191.4
5°	15885.3	15477.8	14568.8	13893.2	13543.2
7.5°	15908.0	15002.1	13364.5	12378.3	11993.5
10°	15942.8	14412.8	12240.4	11189.1	10830.0
12.5°	15968.6	13749.3	11251.2	10171.1	9777.2
15°	16006.5	13046.3	10361.9	9215.2	8797.0
17.5°	16041.3	12384.3	9483.3	8285.0	7819.9
20°	16076.1	11670.8	8604.6	7370.0	6986.7
22.5°	16109.5	10917.9	7747.2	6659.5	6397.4
25°	16112.5	10087.7	6938.3	6158.1	5962.7
27.5°	16073.1	9227.3	6282.3	5738.5	5617.3
30°	16004.9	8392.6	5773.3	5435.5	5349.1
32.5°	15835.3	7541.2	5379.4	5143.1	5093.1
35°	15535.3	6706.5	5035.5	4878.0	4876.5
37.5°	15062.7	5965.7	4662.9	4635.6	4668.9
40°	14364.3	5317.3	4309.9	4382.6	4382.6
42.5°	13432.6	4753.8	3990.3	4064.5	4044.8
45°	12281.3	4247.8	3649.4	3737.3	3800.9
47.5°	10946.7	3802.4	3301.0	3470.6	3558.5
50°	9495.4	3378.2	2982.8	3199.5	3299.5
52.5°	7974.4	2985.9	2672.3	2920.7	3001.0
55°	6502.0	2632.9	2381.4	2582.9	2675.3
57.5°	5168.8	2296.6	2096.6	2287.5	2478.4
60°	4022.1	2007.2	1828.5	2101.2	2292.0
62.5°	3072.2	1749.7	1577.0	1927.0	2117.8
65°	2325.4	1527.0	1378.6	1766.4	1963.3
67.5°	1752.7	1334.6	1224.0	1649.7	1842.1
70°	1316.5	1148.3	1099.8	1577.0	1749.7
72.5°	972.6	977.1	1001.4	1513.4	1645.2
75°	718.1	822.6	925.6	1437.6	1524.0
77.5°	513.6	681.7	857.4	1346.7	1377.0
80°	356.0	556.0	786.2	1227.1	1201.3
82.5°	222.7	445.4	722.6	1095.3	1024.1
85°	125.7	340.9	677.2	942.3	865.0
87.5°	56.1	254.5	592.3	734.7	686.3
90°	0.0	142.4	392.4	552.9	557.5
92.5°	3.0	118.2	362.1	506.0	521.1
95°	6.1	100.0	345.4	469.6	490.8
97.5°	7.6	87.9	324.2	436.3	454.5
100°	9.1	78.8	298.4	401.4	416.6
102.5°	10.6	72.7	274.2	365.1	377.2
105°	12.1	66.7	251.5	333.3	342.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.1	51.5	189.4	239.4	246.9
115°	16.7	47.0	169.7	212.1	216.6
117.5°	18.2	40.9	148.5	186.3	187.8
120°	18.2	36.4	127.3	159.1	159.1
122.5°	18.2	30.3	106.0	131.8	130.3
125°	18.2	24.2	86.3	109.1	107.6
127.5°	16.7	19.7	69.7	90.9	89.4
130°	16.7	19.7	56.1	77.3	77.3
132.5°	15.1	18.2	45.4	66.7	66.7
135°	15.1	18.2	37.9	59.1	59.1
137.5°	15.1	19.7	31.8	51.5	51.5
140°	15.1	18.2	27.3	45.4	45.4
142.5°	16.7	18.2	24.2	39.4	39.4
145°	18.2	19.7	22.7	34.8	33.3
147.5°	18.2	21.2	22.7	30.3	28.8
150°	18.2	22.7	22.7	27.3	25.8
152.5°	18.2	22.7	22.7	25.8	24.2
155°	18.2	22.7	24.2	25.8	22.7
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°	12.1	62.1	230.3	298.4	309.0
110°	13.6	56.1	210.6	266.6	277.2



(END OF REPORT)