

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: P830157

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830157  
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-24SE-W-UNV-L840-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

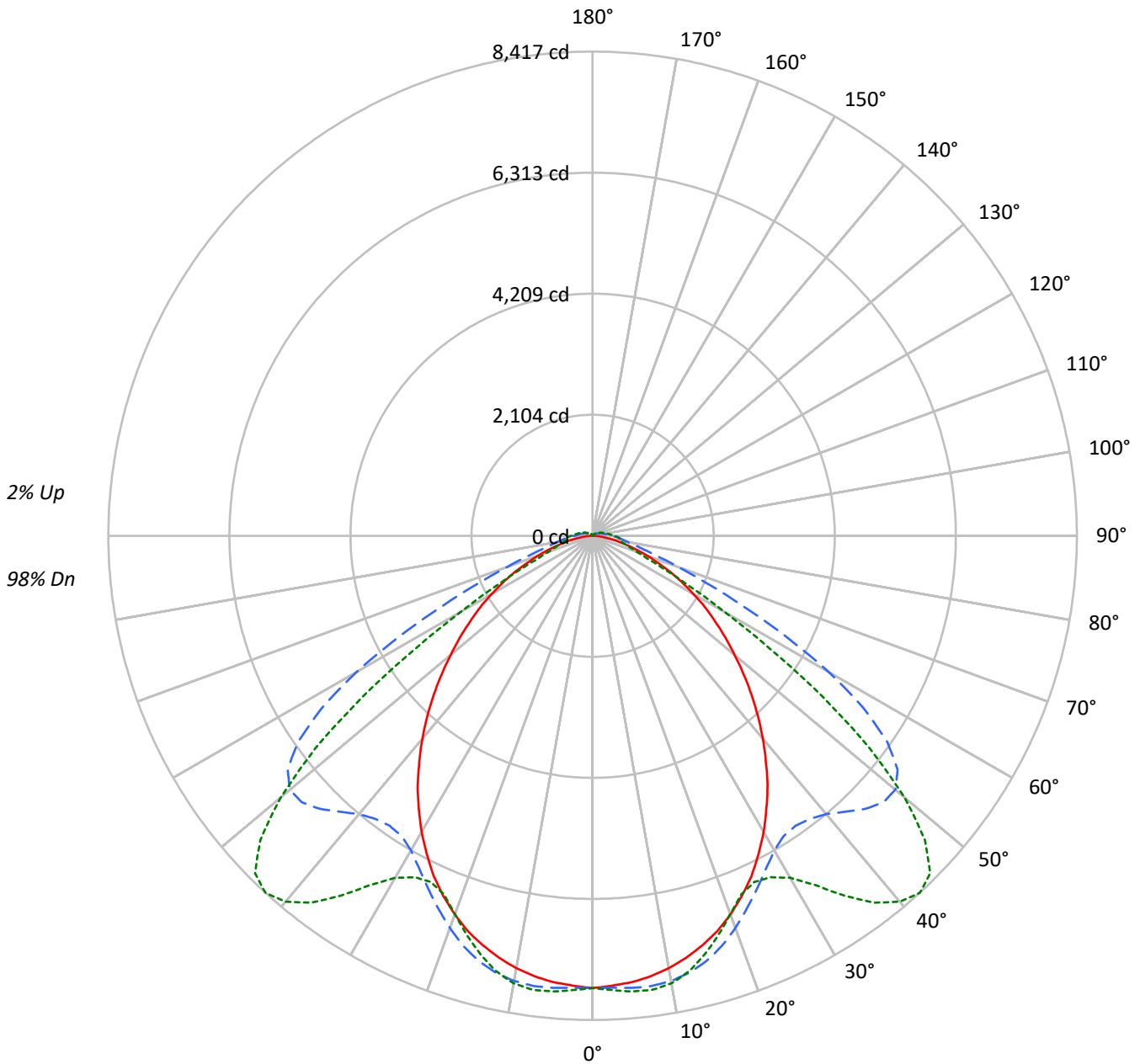
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23541.0 lumens  
Efficiency: N/A  
Efficacy: 170.6 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): 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	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°	13429	13429	13429
5°	13304	13410	13516
10°	13137	13389	13466
15°	12880	13168	12970
20°	12529	12715	12271
25°	12060	12167	11961
30°	11435	11760	12797
35°	10722	11977	14881
40°	9895	12972	17083
45°	9030	14714	18218
50°	8128	16270	16798
55°	7280	16249	12694
60°	6417	13746	7655
65°	5505	9491	4555
70°	4473	6135	3209
75°	3403	4396	2869
80°	2442	3859	3044
85°	1658	4239	4234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.3	3.2
10°-20°	2127.5	9.0
20°-30°	3113.3	13.2
30°-40°	4043.3	17.2
40°-50°	4937.3	21.0
50°-60°	4348.1	18.5
60°-70°	2265.8	9.6
70°-80°	971.7	4.1
80°-90°	466.6	2.0
90°-100°	219.2	0.9
100°-110°	136.3	0.6
110°-120°	80.6	0.3
120°-130°	43.8	0.2
130°-140°	22.0	0.1
140°-150°	10.6	0.0
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5992.1	25.5
0°-40°	10035.4	42.6
0°-60°	19320.8	82.1
0°-90°	23024.9	97.8
90°-120°	436.1	1.9
90°-150°	512.4	2.2
90°-180°	516.0	2.2
0°-180°	23541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7862	7862	7862	7862	7862	
5°	7789	7849	7891	7961	7952	739
15°	7370	7577	7650	7593	7532	2075
25°	6531	6880	6763	6636	6643	2997
35°	5301	5861	6154	7177	7637	3304
45°	3903	4911	6712	8127	8296	3010
55°	2599	4302	6251	5481	4872	2332
65°	1491	2980	2862	1591	1369	1475
75°	600	1394	919	629	597	655
85°	127	497	468	458	463	142
90°	2	180	309	353	361	9
95°	3	105	246	288	297	3
105°	7	59	160	192	195	7
115°	10	34	98	120	124	11
125°	12	17	58	75	76	10
135°	10	10	27	46	48	8
145°	14	10	12	22	25	8
155°	14	14	10	10	10	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°	7862.3	7862.3	7862.3	7862.3	7862.3
2.5°	7828.3	7862.3	7864.0	7911.5	7906.4
5°	7789.3	7848.7	7891.1	7960.6	7952.2
7.5°	7724.9	7818.2	7892.8	7969.1	7962.3
10°	7633.3	7760.5	7858.9	7921.6	7901.3
12.5°	7514.5	7682.5	7779.1	7792.7	7753.7
15°	7370.3	7577.3	7650.2	7592.6	7531.5
17.5°	7207.5	7450.1	7475.5	7350.0	7273.7
20°	7003.9	7280.4	7255.0	7082.0	6997.2
22.5°	6778.3	7093.8	7012.4	6830.9	6749.5
25°	6530.7	6880.1	6763.1	6635.9	6642.6
27.5°	6240.6	6637.5	6523.9	6581.6	6690.1
30°	5945.5	6383.1	6313.6	6649.4	6863.2
32.5°	5621.5	6121.9	6184.6	6847.9	7197.3
35°	5300.9	5860.7	6154.1	7177.0	7636.7
37.5°	4946.4	5596.0	6203.3	7556.9	8038.7
40°	4602.0	5338.2	6315.3	7897.9	8305.0
42.5°	4250.9	5107.5	6503.5	8099.7	8416.9
45°	3903.1	4910.7	6712.2	8126.9	8296.5
47.5°	3555.4	4744.5	6856.4	7911.5	7833.4
50°	3219.5	4596.9	6866.5	7394.1	7075.2
52.5°	2905.7	4461.2	6680.0	6569.7	6074.4
55°	2598.7	4301.8	6250.8	5480.7	4871.7
57.5°	2318.8	4081.3	5589.2	4310.3	3645.3
60°	2022.0	3782.7	4734.3	3153.4	2629.2
62.5°	1748.9	3411.2	3775.9	2195.0	1889.7
65°	1491.0	2980.4	2861.6	1591.1	1368.9
67.5°	1217.9	2534.2	2111.9	1160.3	1017.8
70°	1004.2	2120.4	1572.5	902.4	819.3
72.5°	785.4	1726.8	1175.5	732.8	687.0
75°	600.5	1394.3	919.4	629.3	597.1
77.5°	442.7	1102.6	739.6	556.4	525.8
80°	310.4	868.5	619.1	497.0	485.1
82.5°	208.6	671.7	527.5	473.3	475.0
85°	127.2	497.0	468.2	458.0	463.1
87.5°	61.1	352.8	402.0	417.3	422.4
90°	1.7	179.8	308.7	352.8	361.3
92.5°	0.0	137.4	271.4	315.5	324.0
95°	3.4	105.2	246.0	288.4	296.8
97.5°	3.4	86.5	220.5	264.6	269.7
100°	5.1	74.6	196.8	239.2	244.3
102.5°	5.1	66.2	176.4	213.7	217.1
105°	6.8	59.4	159.5	191.7	195.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.2	40.7	112.0	135.7	139.1
115°	10.2	33.9	98.4	120.4	123.8
117.5°	11.9	30.5	86.5	106.9	108.6
120°	11.9	25.4	74.6	95.0	96.7
122.5°	11.9	20.4	66.2	84.8	86.5
125°	11.9	17.0	57.7	74.6	76.3
127.5°	10.2	11.9	49.2	66.2	67.9
130°	10.2	10.2	40.7	57.7	61.1
132.5°	10.2	10.2	33.9	50.9	54.3
135°	10.2	10.2	27.1	45.8	47.5
137.5°	10.2	10.2	22.1	39.0	42.4
140°	10.2	10.2	17.0	33.9	35.6
142.5°	11.9	10.2	15.3	28.8	30.5
145°	13.6	10.2	11.9	22.1	25.4
147.5°	13.6	11.9	11.9	18.7	20.4
150°	13.6	13.6	10.2	13.6	17.0
152.5°	13.6	13.6	10.2	10.2	13.6
155°	13.6	13.6	10.2	10.2	10.2
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°	8.5	52.6	142.5	171.3	174.7
110°	8.5	45.8	125.5	152.7	156.1



(END OF REPORT)