

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: P830088

Luminaire Tested: **OHBL-24HE-W-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830088  
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-24HE-W-UNV-L935-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

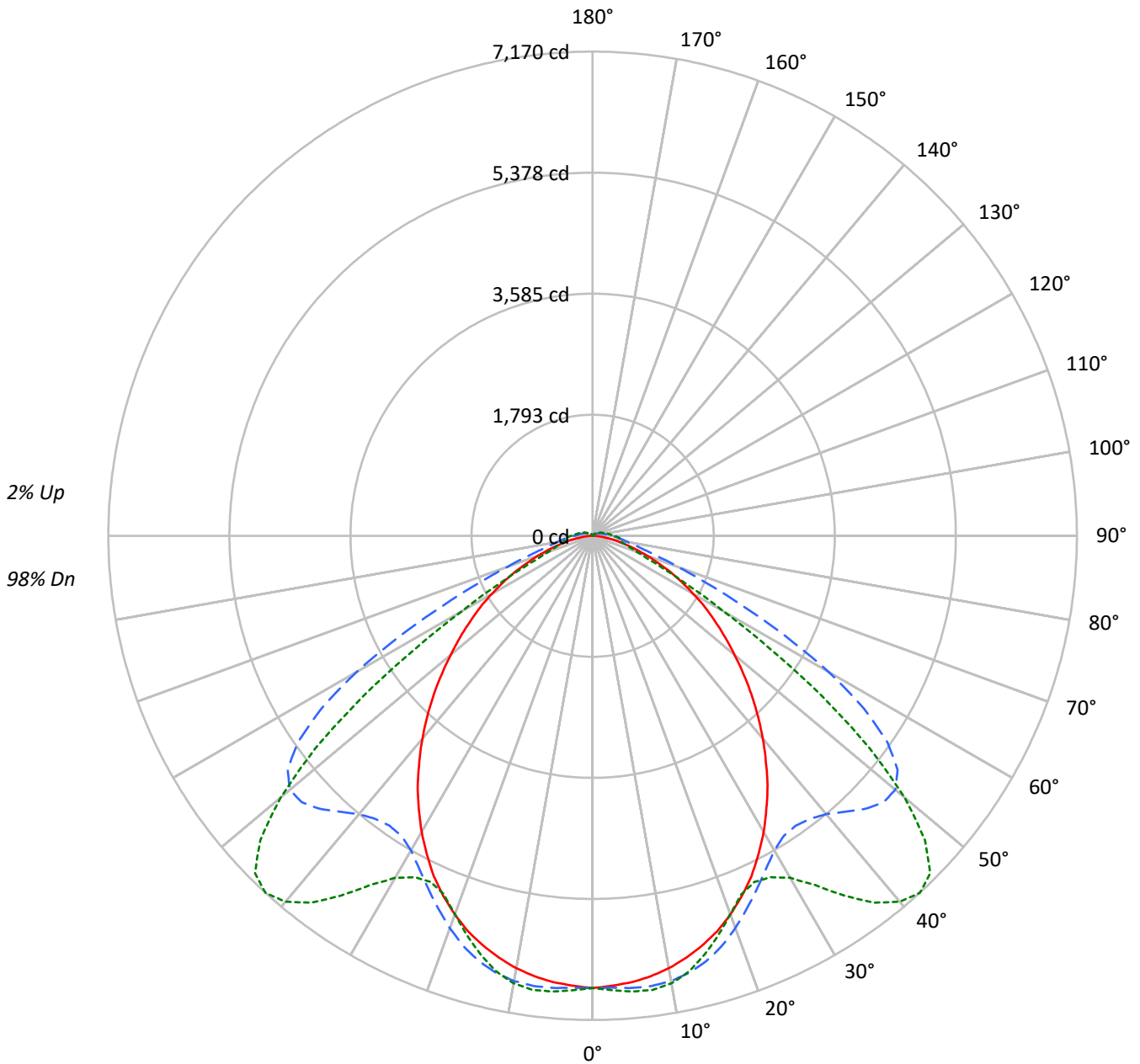
Lumens per Lamp: N/A  
Luminaire Lumens: 20054.0 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 133  
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				20				20
RC	80				70				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	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

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

	0°	45°	90°
0°	10592	10592	10592
5°	10493	10582	10668
10°	10362	10571	10635
15°	10160	10401	10250
20°	9883	10048	9705
25°	9512	9620	9465
30°	9019	9303	10135
35°	8457	9480	11795
40°	7805	10273	13553
45°	7123	11661	14467
50°	6411	12905	13355
55°	5742	12901	10106
60°	5062	10927	6105
65°	4343	7556	3641
70°	3528	4894	2572
75°	2684	3517	2309
80°	1926	3102	2468
85°	1308	3438	3477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.0	3.2
10°-20°	1812.4	9.0
20°-30°	2652.1	13.2
30°-40°	3444.3	17.2
40°-50°	4206.0	21.0
50°-60°	3704.0	18.5
60°-70°	1930.2	9.6
70°-80°	827.7	4.1
80°-90°	397.5	2.0
90°-100°	186.8	0.9
100°-110°	116.1	0.6
110°-120°	68.6	0.3
120°-130°	37.3	0.2
130°-140°	18.7	0.1
140°-150°	9.0	0.0
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5104.6	25.5
0°-40°	8548.9	42.6
0°-60°	16458.9	82.1
0°-90°	19614.4	97.8
90°-120°	371.5	1.9
90°-150°	436.5	2.2
90°-180°	440.0	2.2
0°-180°	20054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6698	6698	6698	6698	6698	
5°	6636	6686	6722	6782	6774	629
15°	6279	6455	6517	6468	6416	1768
25°	5563	5861	5761	5653	5659	2553
35°	4516	4992	5242	6114	6506	2815
45°	3325	4183	5718	6923	7068	2564
55°	2214	3665	5325	4669	4150	1987
65°	1270	2539	2438	1355	1166	1257
75°	512	1188	783	536	509	558
85°	108	423	399	390	394	121
90°	1	153	263	301	308	8
95°	3	90	210	246	253	2
105°	6	51	136	163	166	6
115°	9	29	84	103	106	9
125°	10	14	49	64	65	9
135°	9	9	23	39	40	7
145°	12	9	10	19	22	7
155°	12	12	9	9	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830088

CATALOG NUMBER: OHBL-24HE-W-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6697.7	6697.7	6697.7	6697.7	6697.7
2.5°	6668.8	6697.7	6699.1	6739.6	6735.2
5°	6635.5	6686.1	6722.2	6781.5	6774.3
7.5°	6580.6	6660.1	6723.7	6788.7	6782.9
10°	6502.6	6611.0	6694.8	6748.2	6730.9
12.5°	6401.4	6544.5	6626.9	6638.4	6605.2
15°	6278.6	6454.9	6517.0	6467.9	6415.9
17.5°	6139.9	6346.5	6368.2	6261.3	6196.2
20°	5966.5	6202.0	6180.4	6033.0	5960.7
22.5°	5774.3	6043.1	5973.7	5819.1	5749.7
25°	5563.3	5861.0	5761.3	5652.9	5658.7
27.5°	5316.2	5654.4	5557.5	5606.7	5699.2
30°	5064.8	5437.6	5378.4	5664.5	5846.6
32.5°	4788.8	5215.1	5268.5	5833.5	6131.2
35°	4515.7	4992.5	5242.5	6113.9	6505.5
37.5°	4213.7	4767.1	5284.4	6437.6	6848.0
40°	3920.3	4547.5	5379.8	6728.0	7074.8
42.5°	3621.2	4351.0	5540.2	6900.0	7170.2
45°	3325.0	4183.3	5717.9	6923.1	7067.6
47.5°	3028.8	4041.7	5840.8	6739.6	6673.1
50°	2742.6	3916.0	5849.4	6298.8	6027.2
52.5°	2475.3	3800.4	5690.5	5596.6	5174.6
55°	2213.8	3664.6	5324.9	4668.9	4150.1
57.5°	1975.3	3476.7	4761.3	3671.8	3105.3
60°	1722.5	3222.4	4033.1	2686.3	2239.8
62.5°	1489.8	2905.9	3216.6	1869.9	1609.8
65°	1270.2	2538.9	2437.7	1355.4	1166.1
67.5°	1037.5	2158.9	1799.1	988.4	867.0
70°	855.5	1806.3	1339.5	768.8	697.9
72.5°	669.0	1471.0	1001.4	624.2	585.2
75°	511.5	1187.8	783.2	536.1	508.6
77.5°	377.2	939.3	630.0	474.0	448.0
80°	264.4	739.9	527.4	423.4	413.3
82.5°	177.7	572.2	449.4	403.2	404.6
85°	108.4	423.4	398.8	390.2	394.5
87.5°	52.0	300.6	342.5	355.5	359.8
90°	1.4	153.2	263.0	300.6	307.8
92.5°	0.0	117.0	231.2	268.8	276.0
95°	2.9	89.6	209.5	245.7	252.9
97.5°	2.9	73.7	187.9	225.4	229.8
100°	4.3	63.6	167.6	203.7	208.1
102.5°	4.3	56.4	150.3	182.1	185.0
105°	5.8	50.6	135.8	163.3	166.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	34.7	95.4	115.6	118.5
115°	8.7	28.9	83.8	102.6	105.5
117.5°	10.1	26.0	73.7	91.0	92.5
120°	10.1	21.7	63.6	80.9	82.4
122.5°	10.1	17.3	56.4	72.3	73.7
125°	10.1	14.5	49.1	63.6	65.0
127.5°	8.7	10.1	41.9	56.4	57.8
130°	8.7	8.7	34.7	49.1	52.0
132.5°	8.7	8.7	28.9	43.4	46.2
135°	8.7	8.7	23.1	39.0	40.5
137.5°	8.7	8.7	18.8	33.2	36.1
140°	8.7	8.7	14.5	28.9	30.3
142.5°	10.1	8.7	13.0	24.6	26.0
145°	11.6	8.7	10.1	18.8	21.7
147.5°	11.6	10.1	10.1	15.9	17.3
150°	11.6	11.6	8.7	11.6	14.5
152.5°	11.6	11.6	8.7	8.7	11.6
155°	11.6	11.6	8.7	8.7	8.7
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°	7.2	44.8	121.4	145.9	148.8
110°	7.2	39.0	106.9	130.1	132.9



(END OF REPORT)