

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: P828040

Luminaire Tested: **OHBL-24HE-NL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828040  
REPORT IS A COMBINATION OF REPORTS P826243 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-NL-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

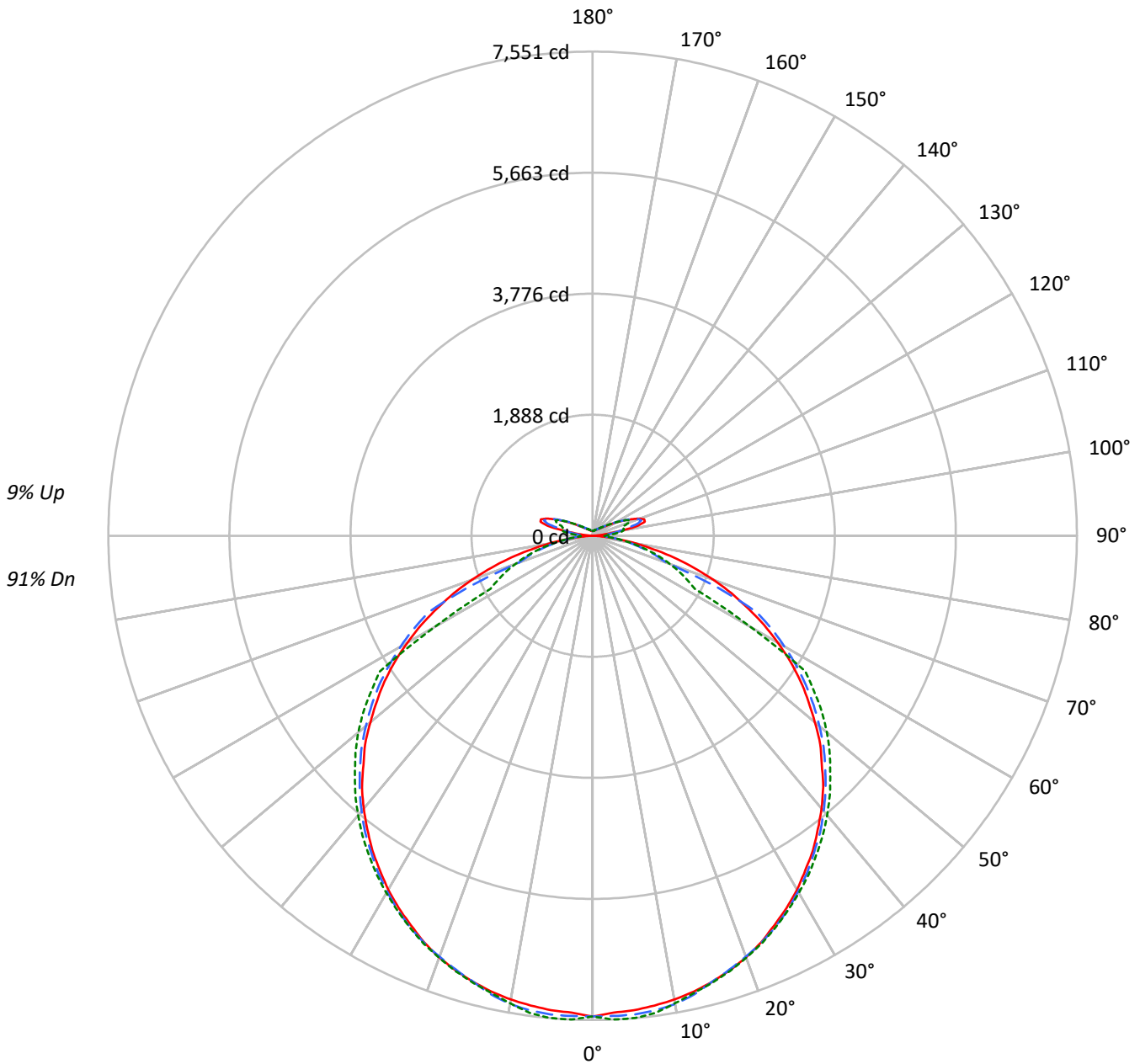
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23063.6 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 150.4  
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	80	80	80	77
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	67	67	67	65
3	89	79	71	65	86	77	70	64	72	66	61	69	63	59	65	61	57	57	57	57	55
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	38	38	38	35
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	23

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

	0°	45°	90°
0°	11855	11855	11855
5°	11733	11836	11958
10°	11679	11784	11835
15°	11618	11608	11732
20°	11542	11514	11673
25°	11399	11444	11620
30°	11279	11321	11569
35°	11132	11174	11524
40°	10954	11037	11490
45°	10705	10842	11418
50°	10438	10622	11373
55°	10114	10343	11180
60°	9625	9928	8637
65°	8920	9395	5753
70°	8010	4837	5500
75°	6670	4381	5128
80°	4709	3679	4490
85°	1911	2970	3885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	712.2	3.1
10°-20°	2039.2	8.8
20°-30°	3102.7	13.5
30°-40°	3772.5	16.4
40°-50°	3966.6	17.2
50°-60°	3622.0	15.7
60°-70°	2321.9	10.1
70°-80°	1096.8	4.8
80°-90°	309.3	1.3
90°-100°	273.8	1.2
100°-110°	692.8	3.0
110°-120°	581.5	2.5
120°-130°	276.0	1.2
130°-140°	138.1	0.6
140°-150°	80.1	0.3
150°-160°	46.7	0.2
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	5854.1	25.4
0°-40°	9626.6	41.7
0°-60°	17215.2	74.6
0°-90°	20943.1	90.8
90°-120°	1548.1	6.7
90°-150°	2042.3	8.9
90°-180°	2120.0	9.2
0°-180°	23063.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7496	7496	7496	7496	7496	
5°	7426	7456	7494	7534	7550	706
15°	7202	7256	7200	7211	7216	2033
25°	6702	6712	6736	6746	6741	3092
35°	5990	5955	6023	6097	6080	3743
45°	5052	5043	5129	5250	5240	3905
55°	3959	3929	4062	4197	4208	3531
65°	2668	2668	2823	1619	1624	2645
75°	1318	1343	872	918	922	1389
85°	172	218	272	295	279	255
90°	4	102	160	195	198	11
95°	48	131	230	307	332	139
105°	842	841	724	522	480	800
115°	583	592	596	590	577	586
125°	282	297	302	302	299	264
135°	167	170	176	178	179	132
145°	121	124	127	128	128	77
155°	97	98	100	101	101	45
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7496.2	7496.2	7496.2	7496.2	7496.2
2.5°	7443.7	7468.7	7496.2	7531.8	7551.4
5°	7426.5	7455.5	7493.7	7534.4	7550.2
7.5°	7389.8	7430.4	7467.3	7496.2	7505.5
10°	7343.7	7392.4	7413.4	7410.8	7404.3
12.5°	7281.8	7333.2	7326.7	7296.3	7301.6
15°	7201.6	7255.5	7200.3	7210.8	7216.1
17.5°	7106.9	7159.6	7095.1	7116.1	7117.5
20°	6996.5	7035.9	6985.9	7003.0	7003.0
22.5°	6863.6	6891.2	6870.2	6882.0	6884.7
25°	6701.8	6712.2	6735.9	6746.5	6741.2
27.5°	6546.7	6533.4	6579.5	6604.4	6591.2
30°	6374.3	6353.2	6407.1	6447.9	6432.2
32.5°	6176.9	6163.8	6225.7	6274.3	6265.1
35°	5990.2	5954.7	6023.0	6096.7	6079.6
37.5°	5769.2	5748.2	5825.7	5903.4	5894.3
40°	5553.4	5517.9	5606.1	5698.2	5688.9
42.5°	5322.0	5279.8	5375.9	5486.5	5475.9
45°	5052.2	5043.1	5128.6	5249.6	5240.4
47.5°	4813.0	4766.9	4886.5	5003.7	5014.3
50°	4523.5	4506.5	4615.7	4757.8	4768.2
52.5°	4240.8	4228.9	4343.2	4486.8	4505.1
55°	3959.2	3929.0	4061.8	4197.3	4207.9
57.5°	3658.1	3626.5	3762.0	3909.3	3931.6
60°	3335.8	3305.5	3454.1	3591.0	2855.7
62.5°	3013.5	2992.4	3147.8	2229.6	1796.9
65°	2667.6	2667.6	2822.7	1619.2	1624.5
67.5°	2344.0	2323.0	2104.7	1454.8	1454.8
70°	1996.8	2004.7	1212.7	1274.7	1275.9
72.5°	1648.2	1677.1	1047.1	1097.0	1099.6
75°	1318.0	1343.0	872.1	918.2	922.1
77.5°	968.2	744.5	701.0	736.7	737.9
80°	680.0	469.6	536.8	570.8	566.9
82.5°	397.2	328.8	393.2	418.3	416.9
85°	172.2	218.3	272.2	294.7	278.8
87.5°	55.2	135.5	169.6	182.8	181.4
90°	4.2	102.0	160.2	195.0	198.3
92.5°	14.2	95.3	165.3	216.6	228.7
95°	48.1	130.7	230.3	307.1	332.1
97.5°	226.8	270.1	322.7	407.9	438.0
100°	462.7	510.6	435.0	482.4	491.2
102.5°	717.4	725.1	539.9	503.8	498.4
105°	842.4	841.2	724.3	521.8	479.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	681.2	693.9	684.5	661.4	625.4
115°	583.2	591.7	595.6	590.0	577.1
117.5°	493.3	494.2	497.5	496.7	497.5
120°	408.3	417.5	425.0	420.8	415.8
122.5°	342.5	352.5	357.5	355.8	350.8
125°	281.7	296.7	302.5	301.7	299.2
127.5°	238.3	249.2	257.5	258.3	257.5
130°	207.5	214.2	222.5	223.3	224.2
132.5°	184.2	190.0	195.8	199.2	198.3
135°	166.7	170.0	175.8	177.5	179.2
137.5°	152.5	155.0	160.0	162.5	162.5
140°	140.0	143.3	147.5	149.2	150.0
142.5°	129.2	132.5	135.8	137.5	137.5
145°	120.8	124.2	126.7	127.5	128.3
147.5°	113.3	116.7	118.3	120.0	120.0
150°	107.5	109.2	111.7	112.5	113.3
152.5°	101.7	103.3	105.8	106.7	106.7
155°	96.7	98.3	100.0	100.8	100.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	845.8	855.6	795.9	619.3	509.8
110°	782.1	793.5	759.9	690.6	599.6



(END OF REPORT)