

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: P828328

Luminaire Tested: **OHBL-24HE-A-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828328  
REPORT IS A COMBINATION OF REPORTS P826239 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-A-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

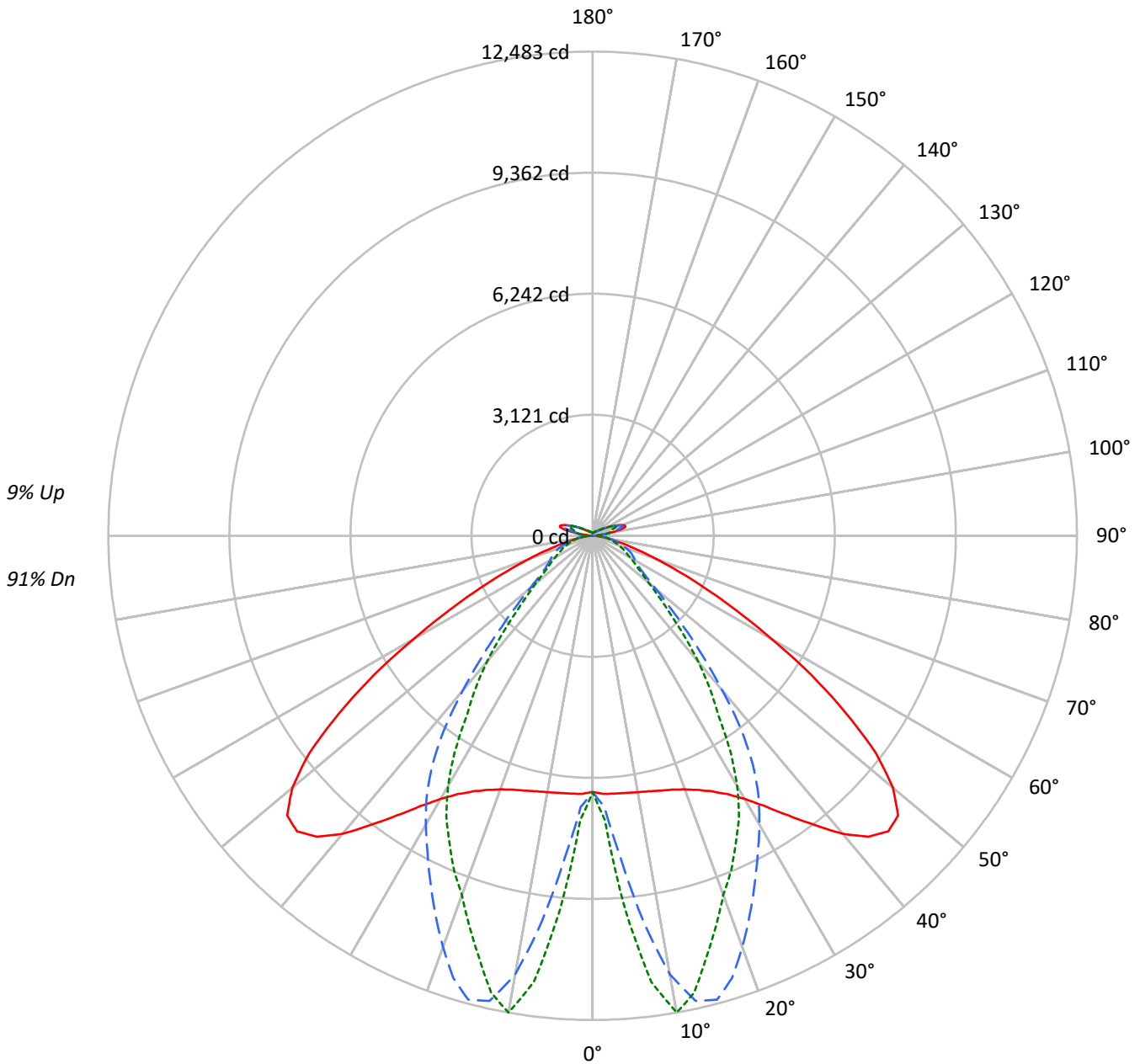
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23302.2 lumens  
Efficiency: N/A  
Efficacy: 154.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
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									
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

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

	0°	45°	90°
0°	10447	10447	10447
5°	10507	13145	15314
10°	10607	18132	19892
15°	10867	19761	18257
20°	11324	18344	16316
25°	12159	16505	14924
30°	13568	14870	13271
35°	15963	13022	10575
40°	19211	9923	8416
45°	22059	6766	5990
50°	22389	4645	4431
55°	19407	3659	3620
60°	14521	3427	3257
65°	9975	3444	3084
70°	6396	3328	2987
75°	3863	3090	2858
80°	2289	2728	2949
85°	1116	2364	2734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.4	3.7
10°-20°	3043.8	13.1
20°-30°	4485.2	19.2
30°-40°	4713.3	20.2
40°-50°	3606.5	15.5
50°-60°	2177.8	9.3
60°-70°	1328.9	5.7
70°-80°	725.4	3.1
80°-90°	260.0	1.1
90°-100°	201.6	0.9
100°-110°	699.8	3.0
110°-120°	600.3	2.6
120°-130°	288.0	1.2
130°-140°	144.1	0.6
140°-150°	83.5	0.4
150°-160°	48.7	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	8391.5	36.0
0°-40°	13104.7	56.2
0°-60°	18889.0	81.1
0°-90°	21203.3	91.0
90°-120°	1501.7	6.4
90°-150°	2017.3	8.7
90°-180°	2099.0	9.0
0°-180°	23302.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6606	6606	6606	6606	6606	
5°	6672	7158	8350	9324	9684	638
15°	6802	10594	12382	11554	11283	1934
25°	7269	12296	9885	8950	8729	3397
35°	8805	9847	7202	5997	5647	5585
45°	10776	5619	3317	2919	2796	8142
55°	7970	1905	1510	1400	1395	7042
65°	3195	1206	1111	951	902	3274
75°	851	750	688	568	545	979
85°	127	233	274	250	227	156
90°	4	30	41	54	60	10
95°	46	96	150	198	224	143
105°	872	862	734	522	480	827
115°	602	608	608	606	601	607
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828328

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6605.9	6605.9	6605.9	6605.9	6605.9
2.5°	6659.9	6727.9	6995.9	7274.1	7341.8
5°	6672.1	7158.2	8350.5	9324.1	9683.9
7.5°	6686.3	7855.3	10028.9	11220.9	11602.5
10°	6713.2	8736.9	11483.2	12339.0	12483.1
12.5°	6746.6	9670.8	12283.4	12252.3	12070.4
15°	6802.2	10594.5	12382.0	11554.3	11282.6
17.5°	6860.5	11376.1	11952.0	10794.6	10558.0
20°	6955.4	11956.3	11283.2	10119.2	9850.5
22.5°	7092.2	12275.3	10581.8	9508.5	9333.1
25°	7268.7	12295.9	9885.2	8949.6	8728.7
27.5°	7505.2	12010.6	9217.6	8402.1	8168.7
30°	7827.0	11464.5	8597.2	7741.8	7452.3
32.5°	8264.1	10678.4	7957.6	6944.6	6620.0
35°	8804.6	9846.7	7201.6	5997.4	5646.7
37.5°	9394.3	8923.3	6284.1	5158.6	4954.4
40°	10028.9	7971.8	5196.6	4373.7	4227.5
42.5°	10524.0	6937.3	4186.5	3634.6	3479.1
45°	10776.4	5618.7	3317.4	2919.1	2796.5
47.5°	10678.2	4361.5	2629.9	2319.4	2282.6
50°	10104.5	3220.5	2105.3	1910.7	1895.4
52.5°	9207.7	2400.4	1739.0	1618.6	1592.3
55°	7969.5	1905.3	1510.1	1399.6	1395.4
57.5°	6691.1	1618.6	1370.8	1285.2	1255.5
60°	5327.4	1443.3	1265.0	1168.4	1108.2
62.5°	4175.9	1320.6	1187.5	1056.3	999.9
65°	3195.0	1206.2	1111.0	950.7	902.2
67.5°	2381.8	1097.1	1017.5	839.6	811.3
70°	1735.3	985.3	911.0	746.7	724.3
72.5°	1236.8	873.6	804.5	659.5	634.8
75°	850.7	750.1	688.1	567.7	544.7
77.5°	573.9	624.0	573.3	484.7	475.1
80°	383.3	494.9	463.7	410.7	404.8
82.5°	232.6	359.2	365.9	334.0	317.9
85°	126.6	232.6	274.2	249.9	226.6
87.5°	49.6	128.9	188.9	169.7	159.8
90°	4.3	29.6	40.9	53.9	60.0
92.5°	14.8	39.1	62.6	88.7	100.0
95°	46.1	96.5	149.5	198.2	224.3
97.5°	233.9	253.0	272.1	329.5	358.2
100°	479.9	509.5	411.2	434.7	442.5
102.5°	741.6	737.3	537.3	481.7	474.7
105°	872.1	862.5	733.8	522.5	479.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	702.5	712.9	699.0	679.0	651.2
115°	601.7	607.7	607.7	606.0	600.8
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	875.5	879.0	811.2	633.8	527.8
110°	807.7	815.5	776.4	709.5	624.3



(END OF REPORT)