

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: P828346

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828346  
REPORT IS A COMBINATION OF REPORTS P826245 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-24SE-A-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

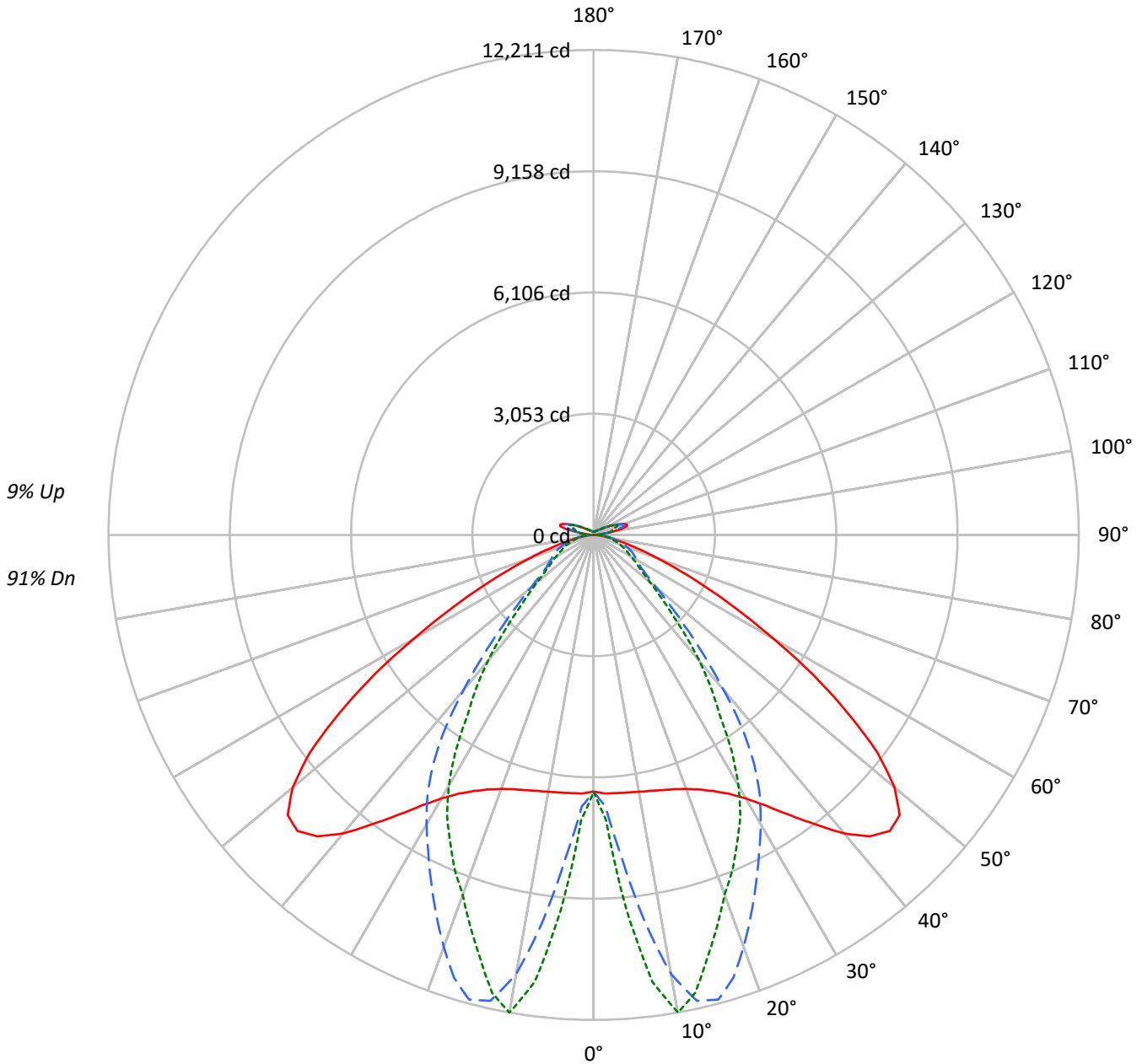
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22840.5 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 155.4  
Input Voltage (V): NR  
Input Current (Ain): 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					
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	91								
1	108	104	101	98	105	101	98	95	95	93	91	90	88	86	85	84	82	80								
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69								
3	93	84	77	71	90	81	75	70	77	72	68	73	69	65	70	66	63	61								
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54								
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48								
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43								
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39								
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35								
9	60	48	41	36	59	47	40	35	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	34	31	29								

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

	0°	45°	90°
0°	11037	11037	11037
5°	11093	13881	16179
10°	11192	19138	21015
15°	11459	20848	19288
20°	11932	19344	17238
25°	12803	17397	15767
30°	14276	15665	14020
35°	16783	13711	11173
40°	20180	10441	8891
45°	23148	7114	6328
50°	23467	4880	4681
55°	20313	3840	3824
60°	15173	3593	3440
65°	10400	3605	3259
70°	6650	3477	3156
75°	3999	3218	3020
80°	2353	2828	3115
85°	1133	2428	2889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.6	3.7
10°-20°	2977.5	13.0
20°-30°	4387.6	19.2
30°-40°	4610.6	20.2
40°-50°	3528.0	15.4
50°-60°	2130.3	9.3
60°-70°	1300.0	5.7
70°-80°	709.5	3.1
80°-90°	254.4	1.1
90°-100°	201.6	0.9
100°-110°	699.8	3.1
110°-120°	600.3	2.6
120°-130°	288.0	1.3
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°	8208.7	35.9
0°-40°	12819.3	56.1
0°-60°	18477.6	80.9
0°-90°	20741.6	90.8
90°-120°	1501.7	6.6
90°-150°	2017.3	8.8
90°-180°	2099.0	9.2
0°-180°	22840.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6462	6462	6462	6462	6462	
5°	6527	7002	8169	9121	9473	624
15°	6654	10364	12112	11303	11037	1892
25°	7110	12028	9670	8755	8539	3323
35°	8613	9632	7045	5867	5524	5464
45°	10542	5496	3245	2856	2736	7965
55°	7796	1864	1477	1369	1365	6889
65°	3125	1180	1087	930	883	3202
75°	832	734	673	555	533	957
85°	124	228	268	244	222	153
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6462.0	6462.0	6462.0	6462.0	6462.0
2.5°	6514.9	6581.4	6843.6	7115.6	7181.9
5°	6526.8	7002.3	8168.6	9121.0	9472.9
7.5°	6540.7	7684.2	9810.5	10976.5	11349.7
10°	6567.0	8546.6	11233.0	12070.2	12211.3
12.5°	6599.7	9460.2	12015.9	11985.4	11807.5
15°	6654.0	10363.9	12112.3	11302.6	11036.9
17.5°	6711.1	11128.4	11691.7	10559.5	10328.0
20°	6803.9	11695.9	11037.4	9898.9	9635.9
22.5°	6937.7	12007.9	10351.3	9301.4	9129.9
25°	7110.4	12028.1	9670.0	8754.7	8538.6
27.5°	7341.8	11749.1	9016.8	8219.0	7990.7
30°	7656.6	11214.8	8410.0	7573.1	7289.9
32.5°	8084.1	10445.9	7784.3	6793.4	6475.8
35°	8612.8	9632.3	7044.8	5866.8	5523.8
37.5°	9189.8	8729.0	6147.2	5046.3	4846.5
40°	9810.5	7798.1	5083.4	4278.4	4135.4
42.5°	10294.8	6786.2	4095.3	3555.5	3403.4
45°	10541.8	5496.3	3245.1	2855.5	2735.5
47.5°	10445.6	4266.5	2572.6	2268.9	2232.9
50°	9884.5	3150.3	2059.4	1869.0	1854.1
52.5°	9007.2	2348.1	1701.2	1583.3	1557.6
55°	7796.0	1863.7	1477.2	1369.1	1365.0
57.5°	6545.4	1583.3	1340.9	1257.2	1228.1
60°	5211.4	1411.8	1237.6	1143.1	1084.0
62.5°	4085.0	1291.8	1161.6	1033.3	978.1
65°	3125.4	1179.9	1086.8	930.0	882.6
67.5°	2329.9	1073.2	995.3	821.4	793.6
70°	1697.5	963.8	891.2	730.4	708.5
72.5°	1209.8	854.6	786.9	645.1	621.0
75°	832.1	733.7	673.0	555.3	532.9
77.5°	561.4	610.4	560.9	474.1	464.7
80°	374.9	484.1	453.6	401.8	395.9
82.5°	227.5	351.3	358.0	326.7	310.9
85°	123.9	227.5	268.2	244.4	221.7
87.5°	48.5	126.1	184.8	166.0	156.3
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)