

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: P828184

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828184  
REPORT IS A COMBINATION OF REPORTS P826203 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: OHB-24HE-A-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

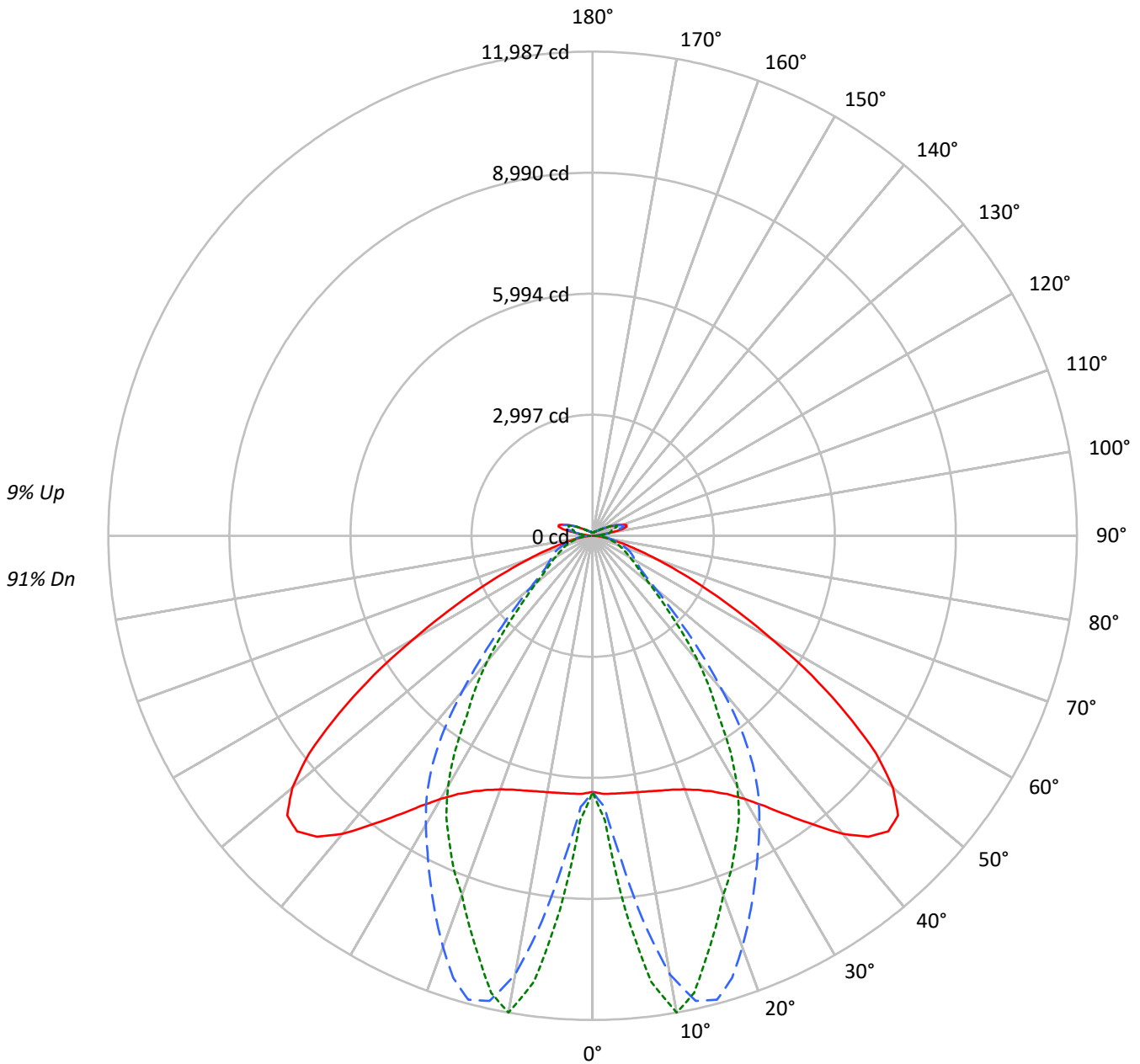
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22459.7 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 147.4  
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	99	99	99	93	93	93	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	89	81	75	70	77	72	67	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	52	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	38																			
8	64	52	45	39	63	51	44	39	49	43	38	47	42	37	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	37	33	55	44	37	32	42	36	32	41	35	31	39	34	31	29																			

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

	0°	45°	90°
0°	19620	19620	19620
5°	19733	24624	28656
10°	19922	33878	37085
15°	20410	36826	33910
20°	21268	34094	30187
25°	22835	30592	27500
30°	25481	27479	24346
35°	29980	23988	19309
40°	36081	18216	15285
45°	41429	12370	10814
50°	42049	8454	7942
55°	36448	6624	6433
60°	27272	6165	5727
65°	18734	6142	5351
70°	12013	5871	5086
75°	7254	5364	4730
80°	4298	4618	4650
85°	2095	3821	3889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.1	3.7
10°-20°	2922.8	13.0
20°-30°	4307.0	19.2
30°-40°	4526.0	20.2
40°-50°	3463.2	15.4
50°-60°	2091.2	9.3
60°-70°	1276.1	5.7
70°-80°	696.5	3.1
80°-90°	249.8	1.1
90°-100°	201.6	0.9
100°-110°	699.8	3.1
110°-120°	600.3	2.7
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°	8057.9	35.9
0°-40°	12583.9	56.0
0°-60°	18138.3	80.8
0°-90°	20360.8	90.7
90°-120°	1501.7	6.7
90°-150°	2017.3	9.0
90°-180°	2099.0	9.3
0°-180°	22459.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6343	6343	6343	6343	6343	
5°	6407	6874	8019	8954	9299	613
15°	6532	10174	11890	11095	10834	1857
25°	6980	11807	9492	8594	8382	3262
35°	8455	9455	6915	5759	5422	5363
45°	10348	5395	3186	2803	2685	7819
55°	7653	1830	1450	1344	1340	6762
65°	3068	1158	1067	913	866	3144
75°	817	720	661	545	523	940
85°	122	223	263	240	218	150
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°	6343.3	6343.3	6343.3	6343.3	6343.3
2.5°	6395.3	6460.6	6717.8	6984.9	7050.0
5°	6406.9	6873.7	8018.6	8953.5	9299.0
7.5°	6420.6	7543.1	9630.3	10774.9	11141.3
10°	6446.4	8389.6	11026.8	11848.5	11987.0
12.5°	6478.5	9286.4	11795.2	11765.3	11590.7
15°	6531.8	10173.5	11889.9	11095.1	10834.2
17.5°	6587.9	10924.0	11477.0	10365.5	10138.4
20°	6679.0	11481.1	10834.8	9717.1	9458.9
22.5°	6810.4	11787.3	10161.3	9130.6	8962.2
25°	6979.8	11807.2	9492.4	8593.9	8381.8
27.5°	7206.9	11533.3	8851.3	8068.1	7844.0
30°	7515.9	11008.8	8255.5	7434.1	7156.0
32.5°	7935.7	10254.1	7641.4	6668.6	6356.9
35°	8454.7	9455.4	6915.4	5759.0	5422.3
37.5°	9021.0	8568.6	6034.3	4953.6	4757.5
40°	9630.3	7654.9	4990.1	4199.9	4059.5
42.5°	10105.7	6661.6	4020.1	3490.2	3340.8
45°	10348.1	5395.3	3185.6	2803.1	2685.3
47.5°	10253.7	4188.2	2525.4	2227.3	2191.9
50°	9702.9	3092.5	2021.6	1834.7	1820.0
52.5°	8841.7	2305.0	1669.9	1554.3	1529.0
55°	7652.8	1829.6	1450.1	1344.0	1339.9
57.5°	6425.2	1554.3	1316.3	1234.1	1205.6
60°	5115.7	1385.9	1214.8	1122.0	1064.1
62.5°	4010.0	1268.1	1140.3	1014.3	960.2
65°	3068.0	1158.2	1066.8	912.8	866.3
67.5°	2287.1	1053.5	977.1	806.2	779.0
70°	1666.4	946.0	874.7	717.0	695.6
72.5°	1187.6	838.8	772.5	633.2	609.6
75°	816.8	720.2	660.7	545.1	523.1
77.5°	551.1	599.2	550.5	465.4	456.2
80°	368.0	475.2	445.2	394.4	388.7
82.5°	223.4	344.9	351.4	320.7	305.2
85°	121.5	223.4	263.3	239.9	217.6
87.5°	47.6	123.7	181.5	162.9	153.5
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)