

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: P828352

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828352  
REPORT IS A COMBINATION OF REPORTS P826247 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-MFL-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

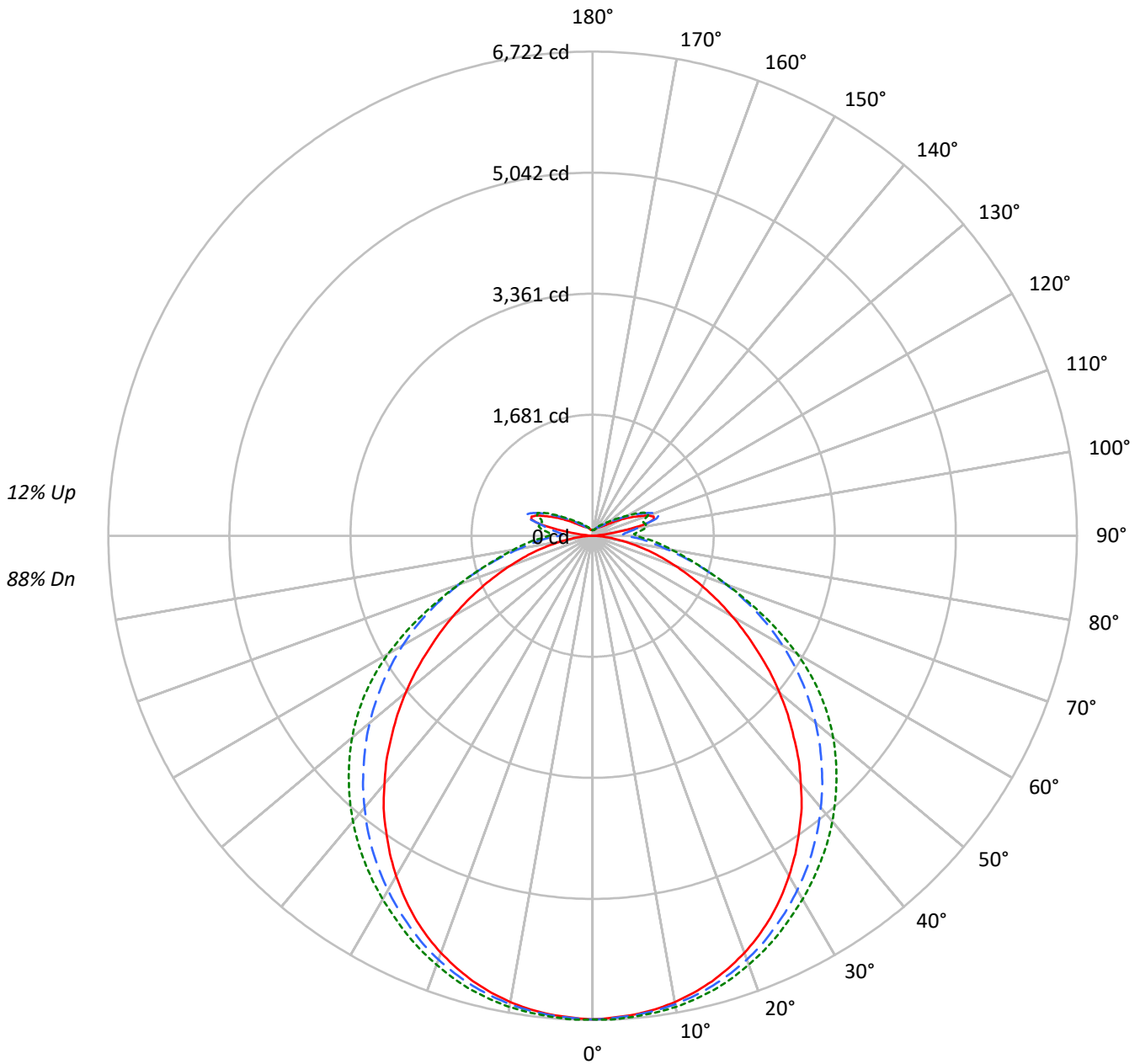
Lumens per Lamp: N/A  
Luminaire Lumens: 22202.3 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 155.4  
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					
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88								
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72								
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60								
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50								
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43								
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37								
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32								
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29								
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26								
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23								
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21								

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

	0°	45°	90°
0°	11470	11470	11470
5°	11341	11356	11444
10°	11207	11251	11433
15°	11027	11126	11403
20°	10806	10974	11337
25°	10529	10786	11272
30°	10168	10583	11209
35°	9742	10367	11166
40°	9243	10117	11131
45°	8665	9846	11076
50°	8038	9572	11003
55°	7284	9237	10834
60°	6513	8842	10406
65°	5677	8340	9637
70°	4777	7701	8814
75°	3862	6962	8382
80°	2754	6413	8781
85°	1532	6606	11008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.3	2.9
10°-20°	1825.5	8.2
20°-30°	2760.8	12.4
30°-40°	3314.3	14.9
40°-50°	3423.2	15.4
50°-60°	3079.8	13.9
60°-70°	2319.9	10.4
70°-80°	1400.9	6.3
80°-90°	690.5	3.1
90°-100°	490.0	2.2
100°-110°	864.4	3.9
110°-120°	697.0	3.1
120°-130°	342.6	1.5
130°-140°	172.9	0.8
140°-150°	97.5	0.4
150°-160°	53.9	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5222.6	23.5
0°-40°	8536.9	38.5
0°-60°	15039.9	67.7
0°-90°	19451.1	87.6
90°-120°	2051.4	9.2
90°-150°	2664.4	12.0
90°-180°	2751.0	12.4
0°-180°	22202.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6715	6715	6715	6715	6715	
5°	6673	6691	6683	6709	6701	634
15°	6403	6434	6464	6518	6525	1805
25°	5848	5912	5996	6089	6104	2690
35°	5000	5116	5327	5488	5520	3125
45°	3946	4145	4492	4737	4788	3046
55°	2796	3085	3553	3821	3867	2506
65°	1706	2054	2515	2640	2610	1695
75°	804	1154	1456	1494	1479	857
85°	168	442	730	830	845	194
90°	4	202	458	580	607	14
95°	54	213	462	596	637	150
105°	884	930	915	759	726	839
115°	615	646	720	756	757	620
125°	307	328	383	412	414	288
135°	185	192	218	244	253	147
145°	142	144	149	163	168	90
155°	117	121	121	120	122	52
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°	6715.4	6715.4	6715.4	6715.4	6715.4
2.5°	6695.7	6712.1	6702.3	6723.6	6722.0
5°	6672.6	6690.7	6682.6	6708.8	6700.6
7.5°	6633.3	6653.0	6651.3	6680.9	6677.6
10°	6575.7	6597.1	6603.7	6643.1	6643.1
12.5°	6496.8	6524.7	6541.2	6588.8	6590.5
15°	6403.1	6434.3	6464.0	6518.2	6524.7
17.5°	6289.7	6329.2	6370.2	6432.8	6440.9
20°	6161.6	6205.9	6261.8	6327.6	6337.4
22.5°	6013.6	6066.2	6138.5	6215.7	6227.3
25°	5847.6	5911.7	5995.5	6089.2	6104.0
27.5°	5658.6	5732.6	5846.0	5951.2	5964.3
30°	5453.2	5540.3	5681.6	5806.6	5827.9
32.5°	5236.2	5336.5	5510.7	5650.4	5680.0
35°	4999.6	5116.2	5326.7	5487.7	5520.5
37.5°	4766.2	4894.4	5132.7	5316.7	5356.2
40°	4493.4	4652.8	4925.6	5129.4	5177.1
42.5°	4237.0	4409.6	4718.6	4940.4	4986.4
45°	3946.1	4145.0	4491.7	4736.6	4787.6
47.5°	3673.2	3888.6	4273.1	4526.2	4578.8
50°	3385.6	3622.3	4039.8	4304.4	4358.6
52.5°	3098.0	3352.8	3798.2	4072.7	4123.6
55°	2795.6	3084.9	3553.2	3821.2	3867.2
57.5°	2514.6	2820.3	3301.8	3556.5	3584.5
60°	2236.8	2554.0	3045.4	3268.9	3278.8
62.5°	1965.6	2299.2	2782.5	2959.9	2946.8
65°	1705.9	2054.4	2514.6	2639.5	2609.9
67.5°	1456.1	1816.1	2240.1	2320.6	2281.2
70°	1219.5	1584.4	1973.9	2014.9	1978.8
72.5°	1010.7	1364.2	1704.3	1738.8	1712.5
75°	803.7	1153.8	1456.1	1494.0	1479.2
77.5°	609.7	950.0	1227.7	1277.0	1280.3
80°	438.8	764.2	1028.8	1106.1	1115.9
82.5°	289.3	593.3	862.8	961.4	976.2
85°	167.6	442.1	729.7	830.0	844.8
87.5°	72.3	318.8	586.7	677.1	695.2
90°	4.3	202.1	458.3	579.8	607.3
92.5°	19.7	182.1	420.9	545.6	575.0
95°	54.3	213.2	461.8	596.0	636.9
97.5°	243.7	351.6	543.3	676.3	719.8
100°	489.8	595.0	646.3	738.8	759.7
102.5°	751.5	812.9	742.8	747.9	752.5
105°	883.5	929.9	914.6	759.2	726.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	715.6	757.3	824.0	846.7	825.5
115°	614.8	645.6	719.5	755.5	756.9
117.5°	529.5	548.4	617.7	653.0	658.8
120°	440.8	463.5	530.5	559.1	560.4
122.5°	372.1	390.8	450.2	479.8	479.4
125°	307.0	327.6	383.0	411.7	414.0
127.5°	260.1	274.7	326.2	356.6	360.7
130°	228.0	236.6	281.4	310.2	316.0
132.5°	203.6	213.0	245.4	275.2	280.9
135°	185.4	192.1	218.0	244.4	252.7
137.5°	170.6	176.5	194.8	220.5	227.1
140°	159.2	164.3	176.9	198.3	205.8
142.5°	149.5	153.0	159.8	179.6	184.6
145°	142.5	144.3	148.6	162.6	168.4
147.5°	134.7	138.2	139.9	148.2	153.1
150°	128.6	132.0	132.9	135.5	141.3
152.5°	122.5	125.9	126.9	126.1	129.4
155°	117.3	120.7	120.8	120.0	121.6
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°	887.0	938.2	970.6	844.2	746.3
110°	819.2	868.1	917.8	896.8	819.8



(END OF REPORT)