

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: P828261

Luminaire Tested: **OHBL-12SE-N-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828261  
REPORT IS A COMBINATION OF REPORTS P826056 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-N-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

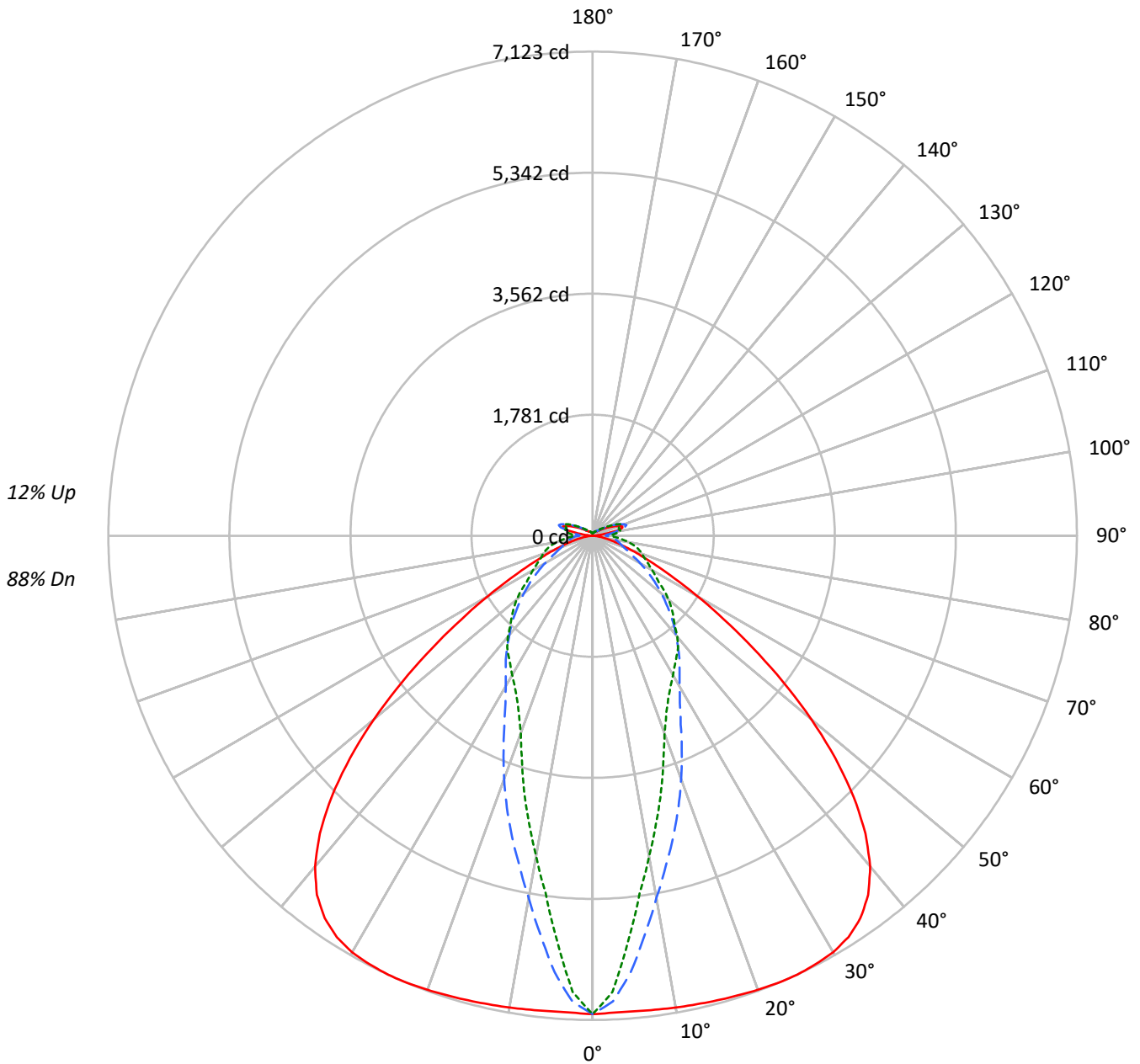
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11468.2 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 78.4  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	73	70	72	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	60	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

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

	0°	45°	90°
0°	22893	22893	22893
5°	22558	20733	19478
10°	22527	17368	15695
15°	22676	14772	12946
20°	23010	12420	10525
25°	23483	10220	9272
30°	23946	8750	8663
35°	24066	7921	8306
40°	23252	7103	7935
45°	20983	6366	7404
50°	17315	5573	7014
55°	12817	4828	6311
60°	8699	4085	6125
65°	5618	3461	6105
70°	3634	3177	6563
75°	2332	3177	7272
80°	1417	3355	7960
85°	653	3858	9491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.3	5.2
10°-20°	1393.5	12.2
20°-30°	1746.7	15.2
30°-40°	1853.4	16.2
40°-50°	1675.8	14.6
50°-60°	1215.1	10.6
60°-70°	762.5	6.6
70°-80°	504.6	4.4
80°-90°	293.4	2.6
90°-100°	244.3	2.1
100°-110°	457.1	4.0
110°-120°	369.1	3.2
120°-130°	177.2	1.5
130°-140°	87.5	0.8
140°-150°	50.4	0.4
150°-160°	28.3	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	3732.5	32.5
0°-40°	5585.9	48.7
0°-60°	8476.8	73.9
0°-90°	10037.3	87.5
90°-120°	1070.5	9.3
90°-150°	1385.6	12.1
90°-180°	1431.0	12.5
0°-180°	11468.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7037	7037	7037	7037	7037	
5°	7023	6842	6441	6142	5987	671
15°	7076	5768	4581	4074	3889	2007
25°	7123	4460	3067	2722	2636	3291
35°	6868	2965	2226	2156	2156	4269
45°	5429	1878	1613	1652	1680	4136
55°	2874	1164	1053	1142	1183	2597
65°	1028	675	610	781	868	1070
75°	317	364	409	636	674	354
85°	56	151	299	417	382	67
90°	3	79	194	271	277	5
95°	24	95	227	308	334	74
105°	455	474	490	416	398	431
115°	320	334	389	405	402	320
125°	161	170	201	209	209	150
135°	95	99	112	122	122	76
145°	73	76	78	84	84	46
155°	60	63	65	66	65	27
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7036.8	7036.8	7036.8	7036.8	7036.8
2.5°	7022.0	6981.8	6856.6	6780.3	6715.9
5°	7022.7	6842.5	6440.7	6142.0	5987.3
7.5°	7032.8	6632.2	5908.2	5472.3	5302.1
10°	7048.2	6371.7	5411.3	4946.5	4787.9
12.5°	7059.5	6078.4	4974.0	4496.5	4322.4
15°	7076.2	5767.6	4580.8	4073.9	3889.0
17.5°	7091.6	5475.0	4192.5	3662.7	3457.1
20°	7107.1	5159.5	3804.0	3258.2	3088.8
22.5°	7121.8	4826.6	3424.9	2944.1	2828.2
25°	7123.1	4459.6	3067.3	2722.4	2636.0
27.5°	7105.7	4079.3	2777.4	2536.9	2483.3
30°	7075.6	3710.3	2552.3	2403.0	2364.8
32.5°	7000.6	3333.9	2378.2	2273.7	2251.6
35°	6868.0	2964.8	2226.1	2156.5	2155.8
37.5°	6659.0	2637.4	2061.4	2049.4	2064.1
40°	6350.2	2350.7	1905.4	1937.5	1937.5
42.5°	5938.4	2101.6	1764.0	1796.9	1788.2
45°	5429.4	1877.9	1613.3	1652.2	1680.3
47.5°	4839.4	1681.0	1459.3	1534.3	1573.2
50°	4197.8	1493.4	1318.7	1414.4	1458.7
52.5°	3525.4	1320.0	1181.4	1291.2	1326.7
55°	2874.5	1164.0	1052.8	1141.8	1182.7
57.5°	2285.1	1015.3	926.9	1011.3	1095.7
60°	1778.1	887.4	808.3	928.9	1013.3
62.5°	1358.2	773.5	697.2	851.9	936.3
65°	1028.0	675.0	609.5	780.9	868.0
67.5°	774.8	590.0	541.1	729.3	814.4
70°	582.0	507.7	486.2	697.2	773.5
72.5°	429.9	431.9	442.7	669.0	727.3
75°	317.4	363.7	409.2	635.6	673.7
77.5°	227.0	301.3	379.1	595.4	608.8
80°	157.4	245.8	347.6	542.4	531.1
82.5°	98.4	196.9	319.4	484.2	452.7
85°	55.6	150.7	299.3	416.6	382.4
87.5°	24.8	112.5	261.9	324.8	303.3
90°	2.6	78.6	194.3	271.4	276.9
92.5°	9.1	72.3	193.1	270.7	281.7
95°	24.4	94.6	227.4	308.5	333.5
97.5°	120.8	166.7	287.6	363.3	380.0
100°	244.0	293.1	346.6	401.8	412.8
102.5°	386.4	408.6	395.9	410.0	411.1
105°	454.9	473.8	490.3	416.0	398.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	370.1	388.8	447.2	455.3	443.9
115°	320.4	333.8	388.9	405.0	401.9
117.5°	270.6	284.1	334.3	348.4	347.3
120°	228.0	241.3	283.2	293.8	293.8
122.5°	193.2	202.9	239.0	247.8	248.0
125°	161.0	169.8	200.8	209.1	209.3
127.5°	135.2	141.7	169.9	178.4	177.7
130°	118.7	123.5	143.9	154.2	154.2
132.5°	105.8	109.7	125.3	135.5	136.4
135°	95.4	99.3	111.5	121.7	121.7
137.5°	88.4	92.2	100.2	109.7	110.6
140°	81.5	85.4	91.2	100.1	100.1
142.5°	76.9	79.3	83.7	91.3	92.2
145°	73.2	75.6	77.9	84.1	84.2
147.5°	68.9	72.0	74.4	77.7	77.9
150°	66.3	69.2	70.1	72.9	72.3
152.5°	62.8	65.7	66.6	68.8	68.1
155°	60.2	63.1	64.6	66.2	64.9
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	457.5	481.3	520.0	456.2	405.2
110°	419.9	444.7	493.9	483.1	443.4



(END OF REPORT)