

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: P827663

Luminaire Tested: **OHBL-12SE-NL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827663  
REPORT IS A COMBINATION OF REPORTS P826057 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-NL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

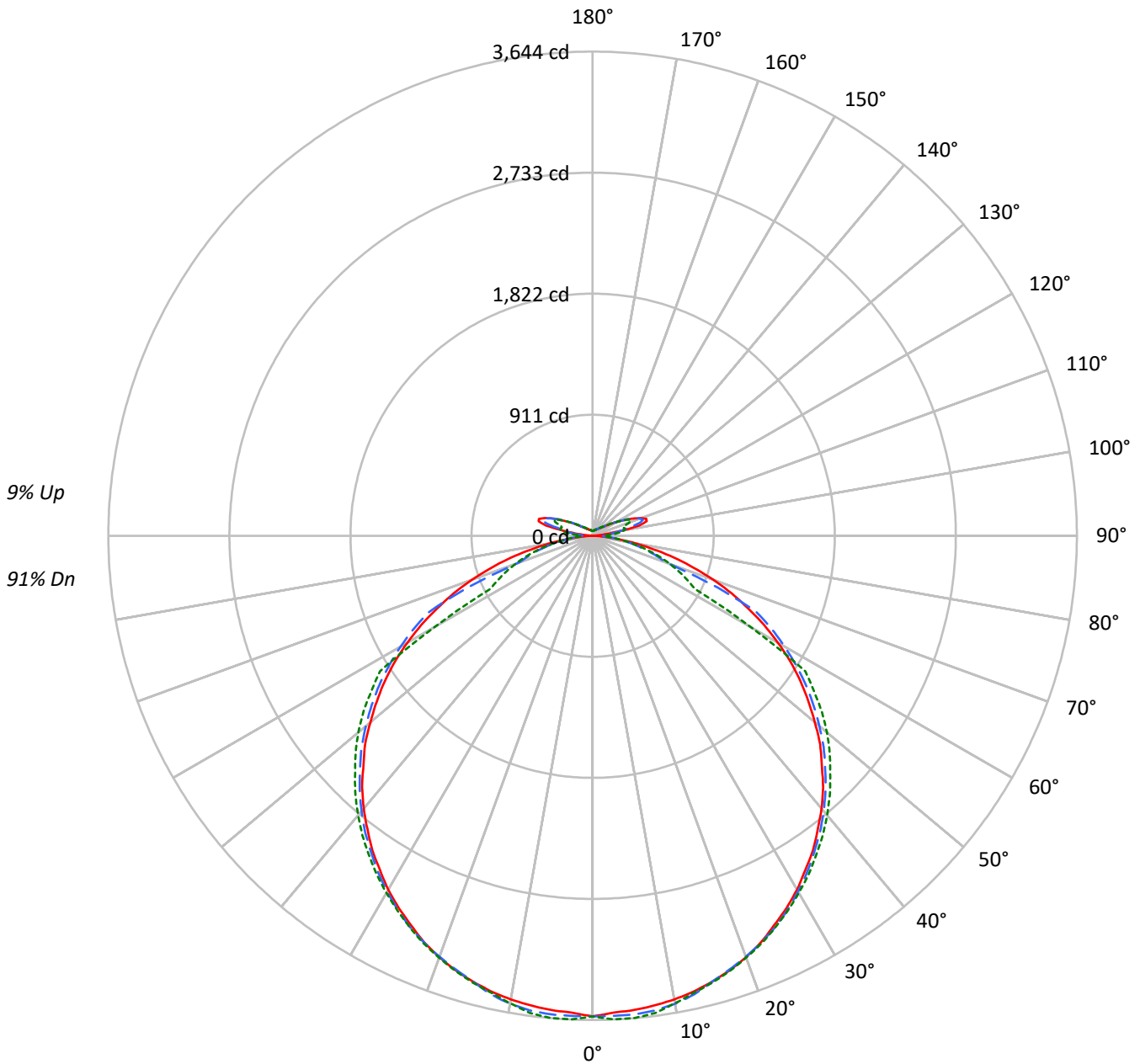
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11161.7 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')  
CIE Type: 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				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	99	99	99	93	93	93	93	93	93	91
1	107	103	99	95	103	99	96	92	93	90	88	88	86	83	83	81	79	79	79	79	77
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	67	67	67	64
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	37	37	37	35
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	22

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

	0°	45°	90°
0°	11767	11767	11767
5°	11586	11706	11870
10°	11474	11613	11747
15°	11356	11397	11644
20°	11221	11262	11587
25°	11021	11149	11534
30°	10839	10983	11483
35°	10628	10790	11438
40°	10384	10602	11404
45°	10065	10355	11334
50°	9723	10076	11289
55°	9315	9733	11097
60°	8742	9250	8573
65°	7958	8641	5710
70°	6975	4371	5459
75°	5603	3856	5090
80°	3730	3102	4456
85°	1345	2295	3855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.6	3.1
10°-20°	983.9	8.8
20°-30°	1497.1	13.4
30°-40°	1820.2	16.3
40°-50°	1913.9	17.1
50°-60°	1747.6	15.7
60°-70°	1120.3	10.0
70°-80°	529.2	4.7
80°-90°	149.3	1.3
90°-100°	135.0	1.2
100°-110°	345.2	3.1
110°-120°	290.3	2.6
120°-130°	137.7	1.2
130°-140°	68.9	0.6
140°-150°	40.1	0.4
150°-160°	23.4	0.2
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	2824.6	25.3
0°-40°	4644.8	41.6
0°-60°	8306.3	74.4
0°-90°	10105.2	90.5
90°-120°	770.6	6.9
90°-150°	1017.3	9.1
90°-180°	1057.0	9.5
0°-180°	11161.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3617	3617	3617	3617	3617	
5°	3583	3597	3616	3635	3643	341
15°	3475	3501	3474	3479	3482	981
25°	3234	3239	3250	3255	3253	1492
35°	2890	2873	2906	2942	2933	1806
45°	2438	2433	2475	2533	2528	1884
55°	1910	1896	1960	2025	2030	1704
65°	1287	1287	1362	781	784	1276
75°	636	648	421	443	445	670
85°	83	105	131	142	134	123
90°	2	50	78	94	96	5
95°	22	65	112	150	165	67
105°	421	420	363	260	239	399
115°	294	295	298	294	285	293
125°	142	148	151	150	150	133
135°	82	85	88	89	89	66
145°	61	62	63	64	65	38
155°	48	49	50	51	51	23
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3617.0	3617.0	3617.0	3617.0	3617.0
2.5°	3591.6	3603.7	3617.0	3634.1	3643.6
5°	3583.3	3597.3	3615.7	3635.4	3643.0
7.5°	3565.6	3585.2	3603.0	3617.0	3621.4
10°	3543.3	3566.9	3577.0	3575.7	3572.6
12.5°	3513.5	3538.3	3535.2	3520.5	3523.0
15°	3474.8	3500.8	3474.2	3479.2	3481.8
17.5°	3429.1	3454.5	3423.4	3433.6	3434.2
20°	3375.8	3394.8	3370.8	3379.0	3379.0
22.5°	3311.7	3325.0	3314.9	3320.6	3321.8
25°	3233.7	3238.7	3250.1	3255.2	3252.7
27.5°	3158.8	3152.4	3174.6	3186.7	3180.3
30°	3075.6	3065.4	3091.5	3111.1	3103.5
32.5°	2980.4	2974.1	3003.9	3027.4	3022.9
35°	2890.3	2873.1	2906.1	2941.7	2933.4
37.5°	2783.7	2773.5	2810.9	2848.4	2844.0
40°	2679.5	2662.4	2704.9	2749.4	2744.9
42.5°	2567.9	2547.5	2593.9	2647.2	2642.1
45°	2437.7	2433.3	2474.6	2532.9	2528.5
47.5°	2322.3	2300.0	2357.7	2414.2	2419.4
50°	2182.6	2174.4	2227.0	2295.6	2300.7
52.5°	2046.2	2040.5	2095.6	2164.9	2173.7
55°	1910.3	1895.7	1959.9	2025.2	2030.4
57.5°	1765.1	1749.8	1815.2	1886.2	1897.0
60°	1609.5	1594.9	1666.6	1732.7	1377.9
62.5°	1454.0	1443.8	1518.8	1075.8	867.0
65°	1287.1	1287.1	1362.0	781.3	783.8
67.5°	1131.0	1120.8	1015.5	701.9	701.9
70°	963.5	967.3	585.2	615.1	615.6
72.5°	795.2	809.2	505.2	529.3	530.6
75°	635.9	648.0	420.7	443.0	444.9
77.5°	467.1	359.2	338.3	355.4	356.1
80°	328.1	226.6	259.0	275.4	273.5
82.5°	191.7	158.7	189.7	201.8	201.2
85°	83.1	105.3	131.4	142.2	134.5
87.5°	26.6	65.4	81.8	88.2	87.5
90°	2.4	50.1	77.8	94.2	96.2
92.5°	7.3	46.5	81.5	107.2	111.8
95°	22.1	65.3	111.5	150.3	164.8
97.5°	110.4	132.2	164.0	202.8	212.2
100°	224.4	250.8	219.4	240.2	245.0
102.5°	358.0	358.9	267.5	251.5	248.1
105°	421.1	420.0	362.6	260.0	239.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	341.7	345.4	344.8	330.0	311.8
115°	294.2	295.4	298.1	293.8	285.1
117.5°	244.1	247.4	249.8	247.4	245.7
120°	204.5	209.4	211.0	207.7	207.7
122.5°	172.2	176.2	178.6	176.2	177.0
125°	142.3	147.9	151.2	149.5	150.4
127.5°	118.8	123.7	129.3	128.5	128.5
130°	103.5	106.7	110.7	111.6	111.6
132.5°	92.2	94.6	97.8	98.6	99.4
135°	82.4	84.9	88.1	88.9	88.9
137.5°	76.0	77.6	80.0	80.8	81.6
140°	69.5	71.9	73.6	74.4	74.4
142.5°	64.7	66.3	67.9	68.7	69.5
145°	60.6	62.2	63.0	63.9	64.7
147.5°	56.6	58.2	59.8	59.8	60.6
150°	54.2	55.0	55.8	56.6	56.6
152.5°	50.9	51.7	52.5	53.4	53.4
155°	48.5	49.3	50.1	50.9	50.9
157.5°	46.1	47.7	47.7	48.5	48.5
160°	44.5	45.3	46.1	46.1	46.1
162.5°	42.8	43.6	43.6	44.5	44.5
165°	42.0	42.0	42.8	42.8	42.8
167.5°	40.4	40.4	41.2	41.2	41.2
170°	39.6	39.6	39.6	40.4	40.4
172.5°	38.8	38.8	38.8	38.8	38.8
175°	38.0	38.0	38.0	38.0	38.0
177.5°	37.2	38.0	38.0	38.0	38.0
180°	37.2	37.2	37.2	37.2	37.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	423.5	428.3	397.7	307.2	251.6
110°	388.6	396.2	380.2	344.6	298.8



(END OF REPORT)