

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: P827658

Luminaire Tested: **OHBL-12SE-MCL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827658  
REPORT IS A COMBINATION OF REPORTS P826150 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-MCL-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

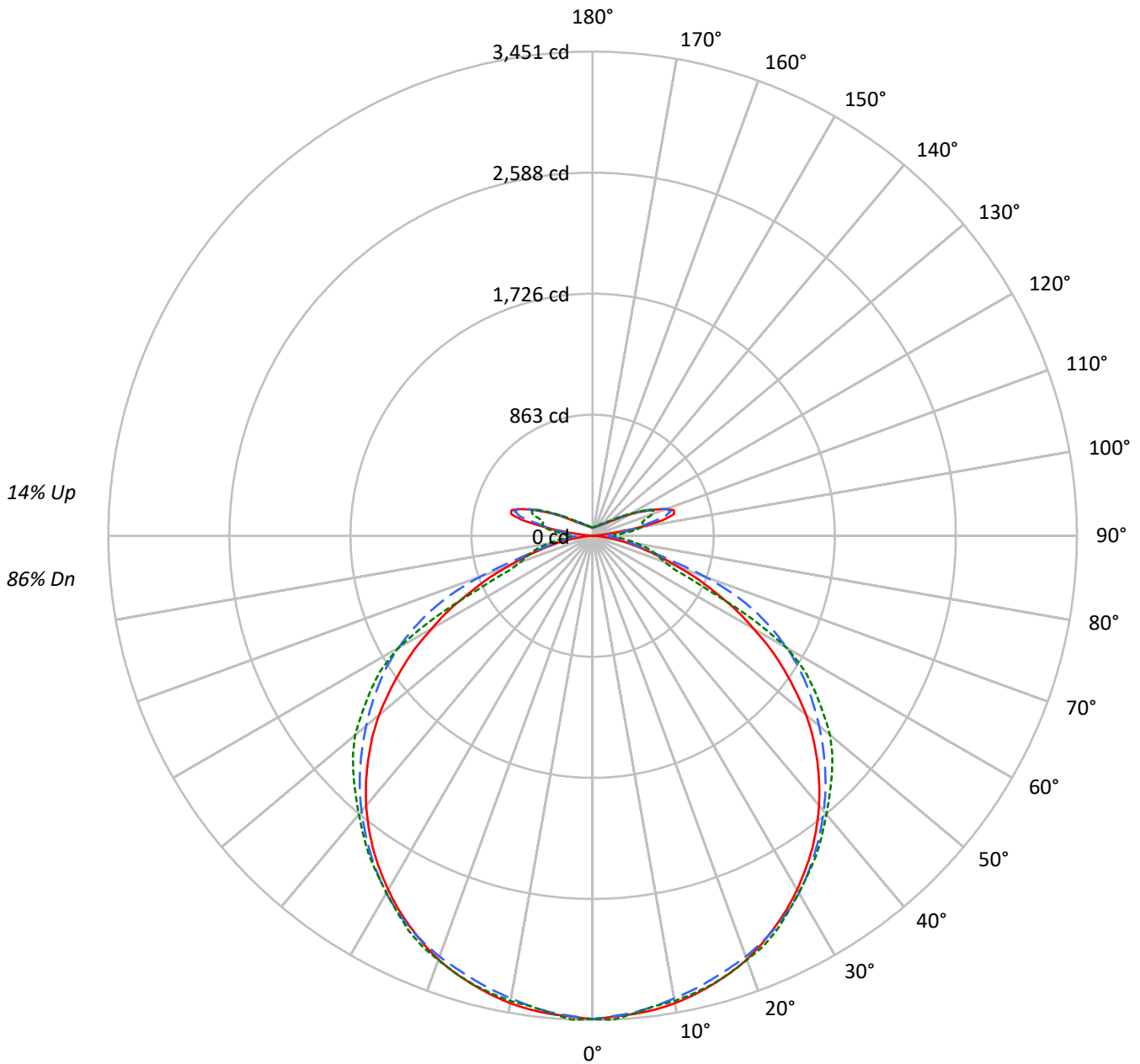
Lumens per Lamp: N/A  
Luminaire Lumens: 11182.4 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 82.3  
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				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	111	111	111	111	103	103	103	96	96	96	89	89	89	86				86
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73				73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61				61
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	52				52
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44				44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	49	45	41	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29				29
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	36	31	26	35	29	25	24				24
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21				21

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

	0°	45°	90°
0°	11206	11206	11206
5°	10992	10977	11113
10°	10815	10747	11036
15°	10610	10560	11010
20°	10405	10419	10961
25°	10141	10275	10915
30°	9862	10086	10763
35°	9553	9823	10706
40°	9191	9551	10614
45°	8744	9243	10618
50°	8193	8898	10619
55°	7423	8548	10322
60°	6484	8073	9659
65°	5341	7285	6217
70°	4073	5551	4606
75°	2825	3186	4828
80°	1735	2514	4867
85°	778	2100	5118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	2.9
10°-20°	931.3	8.3
20°-30°	1422.4	12.7
30°-40°	1725.9	15.4
40°-50°	1808.9	16.2
50°-60°	1639.1	14.7
60°-70°	1099.0	9.8
70°-80°	493.5	4.4
80°-90°	182.7	1.6
90°-100°	192.3	1.7
100°-110°	506.1	4.5
110°-120°	425.7	3.8
120°-130°	205.3	1.8
130°-140°	103.9	0.9
140°-150°	60.8	0.5
150°-160°	36.0	0.3
160°-170°	19.0	0.2
170°-180°	5.8	0.1
0°-30°	2678.5	24.0
0°-40°	4404.4	39.4
0°-60°	7852.4	70.2
0°-90°	9627.5	86.1
90°-120°	1124.1	10.1
90°-150°	1494.1	13.4
90°-180°	1555.0	13.9
0°-180°	11182.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3444	3444	3444	3444	3444	
5°	3422	3434	3410	3420	3416	325
15°	3311	3298	3275	3304	3308	935
25°	3076	3062	3084	3112	3103	1418
35°	2726	2733	2761	2790	2779	1704
45°	2263	2300	2342	2402	2410	1743
55°	1665	1745	1864	1939	1934	1486
65°	977	1130	1283	1083	884	974
75°	384	558	410	420	447	420
85°	66	127	163	197	206	81
90°	4	63	112	142	151	6
95°	31	93	162	205	227	97
105°	601	605	534	391	365	571
115°	419	426	433	432	432	422
125°	206	216	226	227	226	194
135°	124	127	132	136	137	98
145°	92	94	96	98	98	58
155°	74	77	77	78	78	35
165°	65	66	66	67	67	19
175°	60	60	60	59	59	6
180°	59	59	59	59	59	



TEST NUMBER: P827658

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3430.5	3445.0	3427.0	3446.4	3451.4
5°	3422.1	3434.0	3410.1	3420.5	3416.1
7.5°	3406.6	3410.6	3382.2	3390.6	3381.7
10°	3383.7	3381.7	3348.4	3364.8	3366.8
12.5°	3349.8	3343.8	3314.0	3338.9	3339.4
15°	3311.0	3298.0	3274.6	3303.5	3307.5
17.5°	3266.2	3249.3	3233.8	3271.2	3265.2
20°	3213.9	3194.0	3191.0	3231.8	3216.8
22.5°	3149.1	3133.7	3140.6	3179.5	3170.0
25°	3075.9	3062.5	3083.9	3112.2	3103.3
27.5°	2998.7	2990.8	3015.2	3037.1	3019.6
30°	2914.0	2909.6	2941.9	2959.9	2938.0
32.5°	2821.9	2823.4	2854.3	2878.7	2858.3
35°	2726.3	2732.7	2760.6	2790.0	2779.0
37.5°	2621.2	2635.7	2663.5	2696.9	2685.4
40°	2510.1	2531.1	2561.9	2602.3	2591.8
42.5°	2390.1	2416.5	2456.4	2501.1	2500.2
45°	2262.6	2299.5	2342.3	2402.0	2409.6
47.5°	2130.1	2171.4	2225.7	2305.4	2316.9
50°	1986.2	2038.0	2105.7	2201.3	2208.3
52.5°	1825.8	1896.5	1986.2	2077.8	2069.3
55°	1664.9	1745.1	1864.2	1938.9	1934.4
57.5°	1504.6	1594.8	1739.1	1792.5	1791.9
60°	1325.3	1439.3	1597.2	1637.5	1597.8
62.5°	1159.5	1281.9	1445.8	1416.4	1280.0
65°	977.2	1130.0	1283.0	1082.8	884.0
67.5°	815.3	974.7	1089.7	741.6	635.0
70°	652.4	828.2	849.6	550.3	542.9
72.5°	508.0	695.2	586.2	471.2	495.0
75°	384.5	557.8	410.4	419.8	447.3
77.5°	280.4	428.3	319.2	368.0	390.4
80°	192.7	303.3	260.4	309.3	324.7
82.5°	121.0	200.2	208.7	249.0	265.0
85°	66.2	127.0	162.9	196.7	206.2
87.5°	27.4	76.7	124.5	151.9	159.9
90°	3.7	62.6	111.6	141.9	151.0
92.5°	11.0	59.0	113.2	146.6	156.6
95°	31.2	92.7	162.1	205.2	226.6
97.5°	158.6	193.1	240.7	286.2	301.2
100°	326.4	358.6	326.5	348.7	355.0
102.5°	510.5	521.6	400.9	372.2	368.9
105°	601.0	604.8	534.4	390.8	364.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	496.8	497.0	488.6	469.4
115°	418.6	425.5	433.2	432.3	432.5
117.5°	357.2	360.7	369.7	371.1	372.9
120°	299.0	305.1	314.9	314.9	313.9
122.5°	250.5	257.8	267.3	267.4	266.3
125°	205.6	215.7	226.4	227.1	226.0
127.5°	175.3	182.6	193.9	194.6	193.4
130°	152.7	158.8	166.2	169.0	169.8
132.5°	137.8	140.8	147.1	149.9	151.6
135°	124.1	127.1	131.6	135.7	137.0
137.5°	114.1	116.6	119.8	123.8	125.2
140°	105.2	107.7	109.5	113.2	114.5
142.5°	97.4	100.4	102.3	104.6	105.9
145°	91.7	93.9	96.4	97.6	98.1
147.5°	86.7	88.3	89.9	91.5	92.0
150°	81.8	83.4	85.0	85.8	86.7
152.5°	78.6	79.4	81.0	81.8	81.8
155°	74.5	76.6	77.4	78.2	77.8
157.5°	72.1	73.4	74.2	75.0	75.0
160°	69.7	70.2	71.0	71.8	71.8
162.5°	67.7	67.7	68.5	69.4	69.4
165°	65.3	66.1	66.1	66.9	66.9
167.5°	63.7	64.2	64.5	64.5	65.3
170°	62.1	62.1	62.9	62.4	62.4
172.5°	60.5	61.3	61.3	60.8	60.8
175°	59.7	59.7	60.0	59.4	59.4
177.5°	59.3	59.7	59.2	58.6	58.1
180°	59.2	59.2	59.2	59.2	59.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	607.1	614.1	582.2	462.7	393.3
110°	556.7	568.2	556.4	512.3	457.5



(END OF REPORT)