

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: P827961

Luminaire Tested: **OHBL-12SE-N-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827961  
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-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

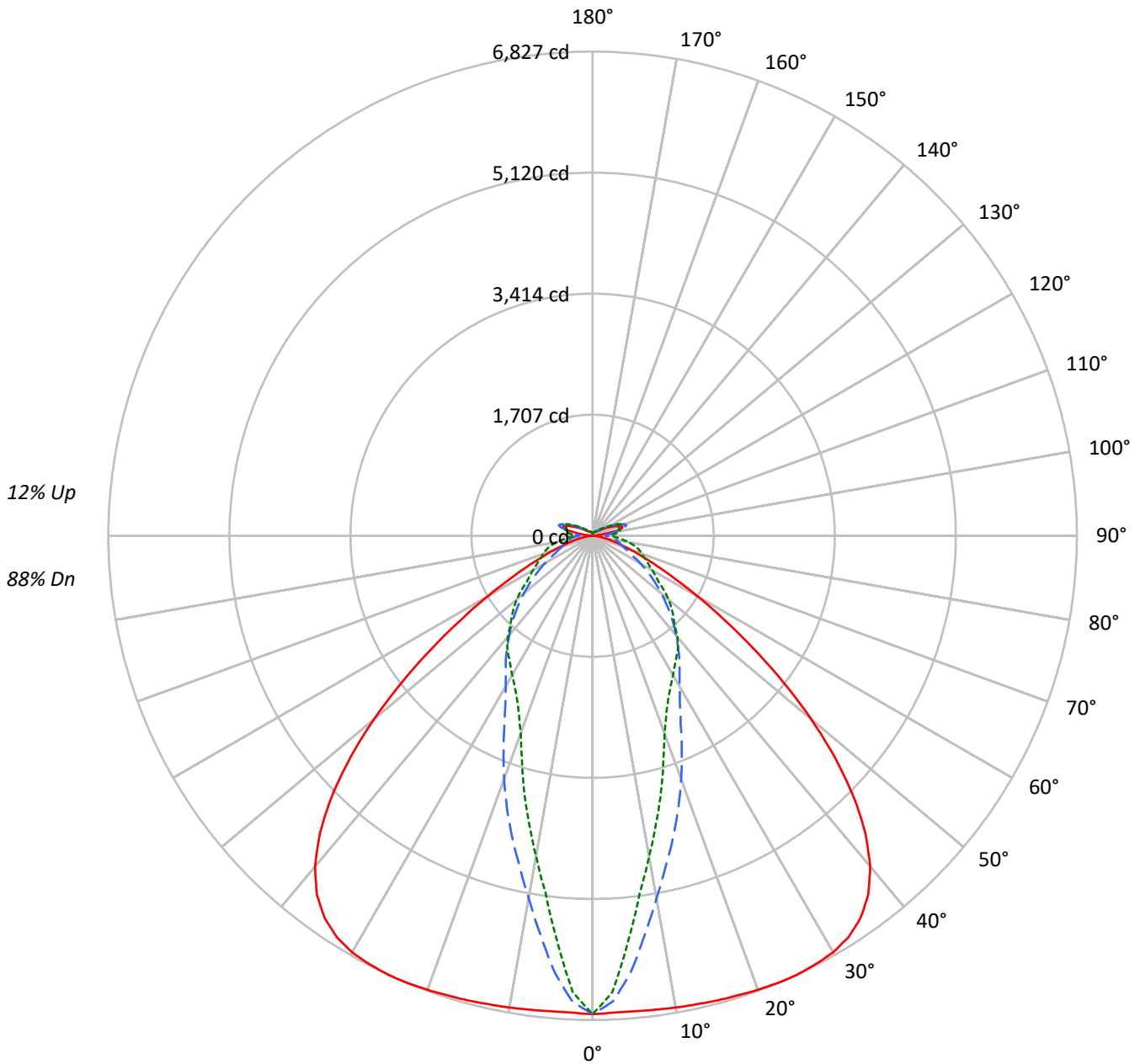
Lumens per Lamp: N/A  
Luminaire Lumens: 10991.9 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

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°	21942	21942	21942
5°	21621	19872	18669
10°	21591	16647	15043
15°	21734	14159	12408
20°	22054	11904	10088
25°	22508	9795	8887
30°	22952	8387	8303
35°	23067	7592	7960
40°	22286	6808	7605
45°	20111	6102	7097
50°	16596	5341	6723
55°	12285	4627	6049
60°	8337	3916	5871
65°	5385	3317	5851
70°	3483	3045	6290
75°	2236	3045	6971
80°	1358	3216	7629
85°	625	3698	9097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.7	5.2
10°-20°	1335.6	12.2
20°-30°	1674.1	15.2
30°-40°	1776.4	16.2
40°-50°	1606.2	14.6
50°-60°	1164.6	10.6
60°-70°	730.8	6.6
70°-80°	483.6	4.4
80°-90°	281.3	2.6
90°-100°	234.1	2.1
100°-110°	438.1	4.0
110°-120°	353.8	3.2
120°-130°	169.8	1.5
130°-140°	83.8	0.8
140°-150°	48.3	0.4
150°-160°	27.2	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	3577.5	32.5
0°-40°	5353.9	48.7
0°-60°	8124.7	73.9
0°-90°	9620.4	87.5
90°-120°	1026.0	9.3
90°-150°	1328.0	12.1
90°-180°	1371.0	12.5
0°-180°	10991.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6744	6744	6744	6744	6744	
5°	6731	6558	6173	5887	5739	643
15°	6782	5528	4391	3905	3728	1923
25°	6827	4274	2940	2609	2526	3154
35°	6583	2842	2134	2067	2066	4092
45°	5204	1800	1546	1584	1610	3964
55°	2755	1116	1009	1094	1134	2489
65°	985	647	584	748	832	1025
75°	304	349	392	609	646	339
85°	53	144	287	399	366	64
90°	2	75	186	260	265	5
95°	23	91	218	296	320	71
105°	436	454	470	399	382	413
115°	307	320	373	388	385	307
125°	154	163	192	200	201	143
135°	91	95	107	117	117	73
145°	70	72	75	81	81	44
155°	58	60	62	63	62	26
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6744.5	6744.5	6744.5	6744.5	6744.5
2.5°	6730.3	6691.8	6571.8	6498.7	6437.0
5°	6731.0	6558.3	6173.2	5886.9	5738.6
7.5°	6740.7	6356.8	5662.8	5245.0	5081.9
10°	6755.4	6107.1	5186.6	4741.1	4589.0
12.5°	6766.3	5825.9	4767.4	4309.8	4142.8
15°	6782.3	5528.1	4390.6	3904.7	3727.5
17.5°	6797.1	5247.6	4018.3	3510.6	3313.5
20°	6811.9	4945.2	3646.0	3122.8	2960.5
22.5°	6826.0	4626.2	3282.7	2821.8	2710.8
25°	6827.3	4274.4	2939.9	2609.3	2526.5
27.5°	6810.6	3909.8	2662.0	2431.5	2380.2
30°	6781.8	3556.2	2446.3	2303.2	2266.6
32.5°	6709.8	3195.4	2279.4	2179.2	2158.1
35°	6582.8	2841.7	2133.7	2066.9	2066.2
37.5°	6382.4	2527.8	1975.8	1964.2	1978.3
40°	6086.5	2253.1	1826.2	1857.0	1857.0
42.5°	5691.8	2014.3	1690.8	1722.2	1713.9
45°	5203.9	1799.9	1546.3	1583.6	1610.5
47.5°	4638.4	1611.2	1398.7	1470.6	1507.8
50°	4023.4	1431.4	1263.9	1355.7	1398.1
52.5°	3379.0	1265.2	1132.3	1237.6	1271.6
55°	2755.1	1115.7	1009.1	1094.4	1133.6
57.5°	2190.2	973.2	888.4	969.2	1050.2
60°	1704.2	850.5	774.8	890.3	971.2
62.5°	1301.8	741.4	668.2	816.5	897.4
65°	985.3	647.0	584.2	748.5	831.9
67.5°	742.7	565.5	518.7	699.0	780.6
70°	557.8	486.6	466.0	668.2	741.4
72.5°	412.1	414.0	424.3	641.2	697.1
75°	304.3	348.6	392.2	609.2	645.8
77.5°	217.6	288.8	363.3	570.7	583.5
80°	150.8	235.6	333.2	519.9	509.0
82.5°	94.3	188.8	306.2	464.1	433.9
85°	53.2	144.4	286.9	399.3	366.5
87.5°	23.8	107.8	251.0	311.3	290.8
90°	2.5	75.3	186.2	260.2	265.4
92.5°	8.8	69.2	185.1	259.4	270.0
95°	23.4	90.7	218.0	295.7	319.7
97.5°	115.8	159.8	275.7	348.2	364.3
100°	233.8	280.9	332.2	385.1	395.7
102.5°	370.3	391.7	379.5	393.0	394.0
105°	436.0	454.1	469.9	398.8	381.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	354.8	372.7	428.6	436.4	425.5
115°	307.1	319.9	372.8	388.2	385.2
117.5°	259.3	272.3	320.4	333.9	332.9
120°	218.5	231.2	271.4	281.6	281.6
122.5°	185.2	194.5	229.1	237.5	237.7
125°	154.3	162.8	192.4	200.4	200.6
127.5°	129.6	135.8	162.8	171.0	170.3
130°	113.8	118.3	137.9	147.8	147.8
132.5°	101.4	105.2	120.1	129.9	130.8
135°	91.4	95.2	106.9	116.7	116.7
137.5°	84.8	88.3	96.0	105.2	106.0
140°	78.1	81.8	87.4	95.9	95.9
142.5°	73.8	76.0	80.2	87.5	88.3
145°	70.2	72.5	74.7	80.6	80.8
147.5°	66.0	69.0	71.3	74.5	74.7
150°	63.5	66.3	67.2	69.9	69.2
152.5°	60.2	63.0	63.8	65.9	65.2
155°	57.7	60.5	61.9	63.4	62.2
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	438.5	461.3	498.4	437.3	388.4
110°	402.4	426.2	473.4	463.0	425.0



(END OF REPORT)