

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: P827683

Luminaire Tested: **OHBL-15SE-MFL-UNV-L930-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827683  
REPORT IS A COMBINATION OF REPORTS P826115 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-MFL-UNV-L930-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

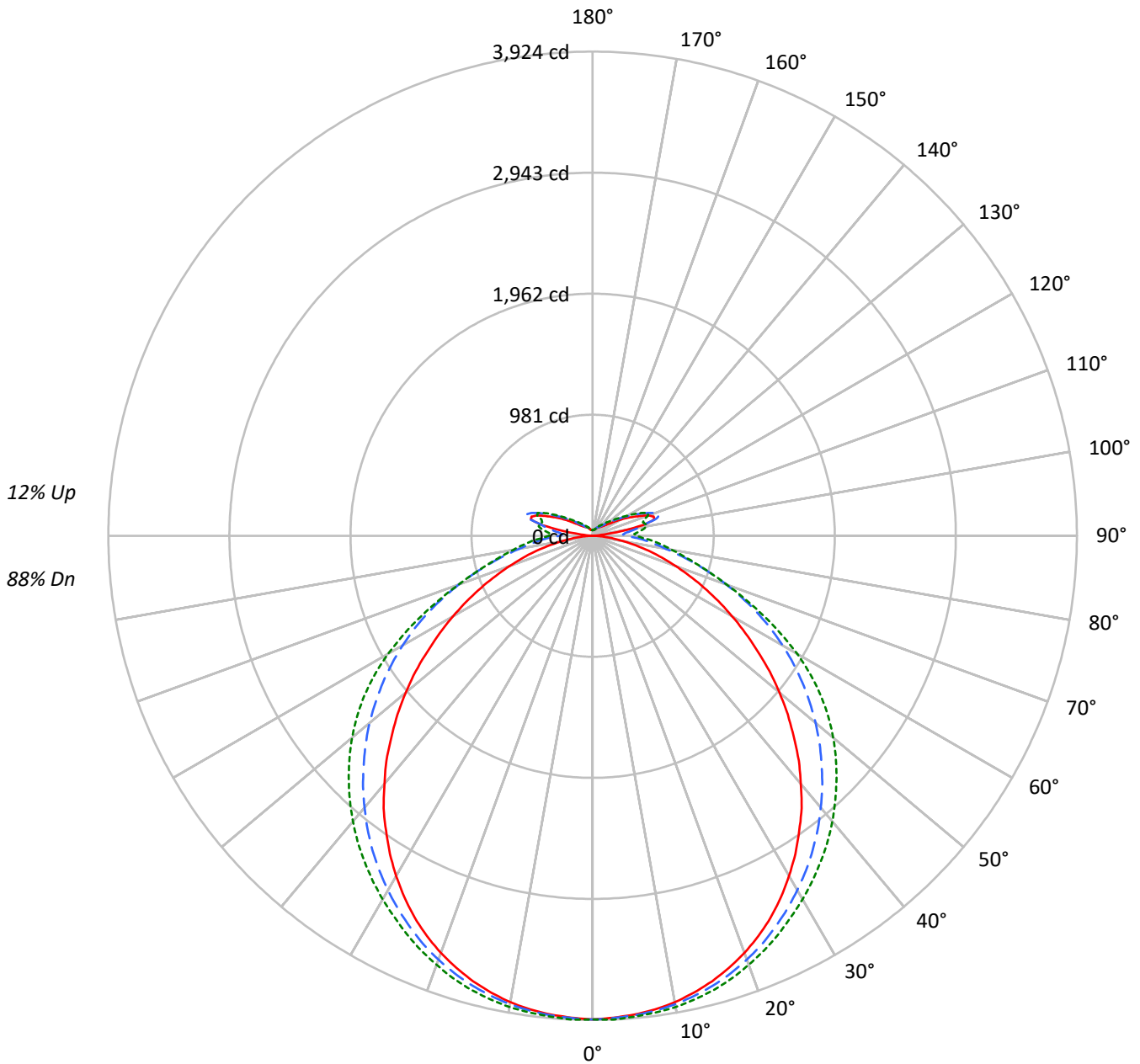
Lumens per Lamp: N/A  
Luminaire Lumens: 12961.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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	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°	12754	12754	12754
5°	12513	12558	12726
10°	12269	12373	12713
15°	11979	12169	12679
20°	11646	11935	12606
25°	11254	11662	12534
30°	10774	11371	12464
35°	10227	11065	12416
40°	9605	10720	12378
45°	8903	10348	12316
50°	8153	9966	12236
55°	7277	9512	12047
60°	6389	8986	11571
65°	5443	8335	10716
70°	4445	7529	9801
75°	3447	6599	9321
80°	2307	5798	9763
85°	1150	5491	12241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.5	2.9
10°-20°	1065.7	8.2
20°-30°	1611.7	12.4
30°-40°	1934.9	14.9
40°-50°	1998.4	15.4
50°-60°	1797.9	13.9
60°-70°	1354.3	10.4
70°-80°	817.8	6.3
80°-90°	403.1	3.1
90°-100°	286.1	2.2
100°-110°	504.0	3.9
110°-120°	406.9	3.1
120°-130°	200.1	1.5
130°-140°	100.9	0.8
140°-150°	57.0	0.4
150°-160°	31.5	0.2
160°-170°	14.8	0.1
170°-180°	4.5	0.0
0°-30°	3048.9	23.5
0°-40°	4983.7	38.5
0°-60°	8780.1	67.7
0°-90°	11355.3	87.6
90°-120°	1197.0	9.2
90°-150°	1554.9	12.0
90°-180°	1606.0	12.4
0°-180°	12961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3920	3920	3920	3920	3920	
5°	3895	3906	3901	3916	3912	370
15°	3738	3756	3774	3805	3809	1054
25°	3414	3451	3500	3555	3564	1570
35°	2919	2987	3110	3204	3223	1825
45°	2304	2420	2622	2765	2795	1778
55°	1632	1801	2074	2231	2258	1463
65°	996	1199	1468	1541	1524	989
75°	469	674	850	872	864	501
85°	98	258	426	484	493	113
90°	2	118	267	338	354	8
95°	27	126	269	347	374	85
105°	518	544	536	442	423	491
115°	360	374	421	441	438	364
125°	178	191	224	240	242	168
135°	108	113	127	143	148	85
145°	83	84	86	96	98	53
155°	69	70	71	70	72	31
165°	51	51	52	52	52	15
175°	46	46	46	47	47	4
180°	46	46	46	46	46	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3920.3	3920.3	3920.3	3920.3	3920.3
2.5°	3908.9	3918.4	3912.7	3925.2	3924.2
5°	3895.4	3905.9	3901.2	3916.5	3911.7
7.5°	3872.4	3883.9	3882.9	3900.2	3898.3
10°	3838.8	3851.3	3855.1	3878.1	3878.1
12.5°	3792.8	3809.0	3818.6	3846.5	3847.4
15°	3738.1	3756.3	3773.5	3805.2	3809.0
17.5°	3671.9	3694.9	3718.9	3755.4	3760.1
20°	3597.0	3623.0	3655.5	3693.9	3699.7
22.5°	3510.7	3541.4	3583.6	3628.7	3635.4
25°	3413.8	3451.2	3500.1	3554.8	3563.5
27.5°	3303.4	3346.6	3412.8	3474.2	3481.9
30°	3183.5	3234.3	3316.8	3389.7	3402.3
32.5°	3056.9	3115.4	3217.1	3298.6	3315.9
35°	2918.6	2986.8	3109.6	3203.7	3222.8
37.5°	2782.4	2857.3	2996.4	3103.8	3126.9
40°	2623.2	2716.2	2875.5	2994.5	3022.3
42.5°	2473.5	2574.2	2754.6	2884.1	2911.0
45°	2303.7	2419.7	2622.2	2765.1	2794.9
47.5°	2144.4	2270.1	2494.6	2642.4	2673.1
50°	1976.5	2114.7	2358.4	2512.9	2544.5
52.5°	1808.6	1957.3	2217.3	2377.6	2407.3
55°	1632.0	1800.9	2074.3	2230.8	2257.6
57.5°	1468.0	1646.4	1927.6	2076.3	2092.6
60°	1305.9	1491.0	1777.8	1908.4	1914.1
62.5°	1147.5	1342.3	1624.3	1728.0	1720.3
65°	995.9	1199.3	1468.0	1540.9	1523.6
67.5°	850.0	1060.2	1307.7	1354.8	1331.7
70°	711.9	924.9	1152.3	1176.3	1155.2
72.5°	590.1	796.4	995.0	1015.1	999.7
75°	469.2	673.5	850.0	872.1	863.5
77.5°	356.0	554.6	716.7	745.5	747.4
80°	256.2	446.1	600.6	645.7	651.4
82.5°	168.9	346.4	503.8	561.3	570.0
85°	97.9	258.1	426.0	484.5	493.2
87.5°	42.2	186.2	342.5	395.3	405.9
90°	2.4	118.5	267.2	337.7	354.3
92.5°	11.0	106.1	246.4	318.5	337.1
95°	27.4	126.3	268.8	346.9	374.2
97.5°	139.9	208.7	323.2	392.4	415.6
100°	278.1	344.1	378.9	431.3	444.7
102.5°	443.9	467.7	432.8	436.7	438.6
105°	518.4	543.8	535.6	442.1	422.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	419.1	443.0	482.7	493.2	482.4
115°	360.1	374.5	420.9	441.4	438.0
117.5°	311.0	319.9	361.5	381.0	382.3
120°	260.8	271.8	307.1	324.6	327.7
122.5°	217.2	228.4	264.2	279.9	282.0
125°	178.2	190.8	224.5	240.1	242.2
127.5°	152.2	159.8	191.2	208.5	209.8
130°	132.8	137.8	163.8	180.9	183.7
132.5°	119.1	124.2	143.6	159.8	164.4
135°	107.8	112.9	126.8	142.8	147.5
137.5°	99.7	103.2	114.1	128.4	133.0
140°	92.6	95.9	103.1	115.5	120.1
142.5°	87.9	89.5	93.0	105.2	108.1
145°	83.2	83.8	86.4	95.7	98.5
147.5°	79.1	80.8	82.4	86.2	89.9
150°	75.1	77.7	77.5	79.3	82.1
152.5°	71.9	73.6	74.3	73.3	76.1
155°	68.6	70.4	71.1	70.1	71.9
157.5°	56.6	57.4	58.2	59.0	59.0
160°	54.2	55.0	55.8	55.8	56.6
162.5°	52.5	53.4	53.4	54.2	54.2
165°	50.9	50.9	51.7	51.7	51.7
167.5°	49.3	49.3	50.1	50.1	50.9
170°	47.7	48.5	48.5	48.5	49.3
172.5°	46.9	46.9	47.7	47.7	47.7
175°	46.1	46.1	46.1	46.9	46.9
177.5°	45.3	46.1	46.1	46.1	46.1
180°	46.1	46.1	46.1	46.1	46.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	518.4	547.0	567.5	488.2	434.0
110°	478.8	506.8	537.6	523.2	477.9



(END OF REPORT)