

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: P827659

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827659  
REPORT IS A COMBINATION OF REPORTS P826055 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-MFL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

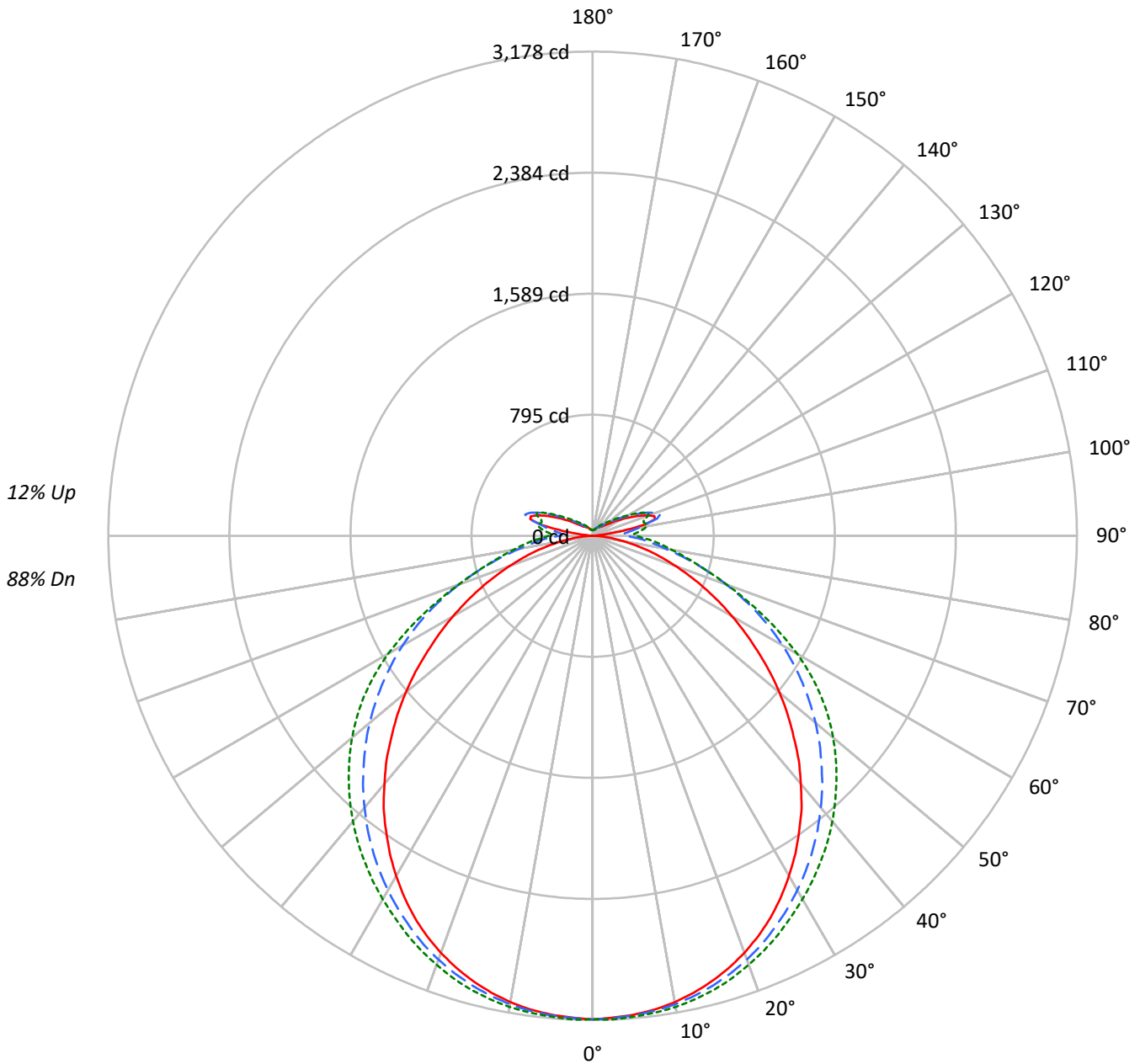
Lumens per Lamp: N/A  
Luminaire Lumens: 10507.8 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 78.4  
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	112	112	112	112	104	104	104	97	97	97	91	91	91	88				88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72				72
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60				60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50				50
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43				43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37				37
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32				32
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29				29
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25				25
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23				23
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21				21

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

	0°	45°	90°
0°	10328	10328	10328
5°	10133	10169	10305
10°	9936	10020	10295
15°	9700	9854	10268
20°	9431	9665	10208
25°	9114	9444	10150
30°	8725	9208	10093
35°	8282	8960	10055
40°	7778	8681	10023
45°	7209	8379	9974
50°	6602	8070	9908
55°	5893	7703	9755
60°	5174	7277	9370
65°	4408	6750	8677
70°	3600	6097	7937
75°	2791	5344	7548
80°	1868	4695	7906
85°	930	4447	9911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.8	2.9
10°-20°	863.0	8.2
20°-30°	1305.1	12.4
30°-40°	1566.8	14.9
40°-50°	1618.3	15.4
50°-60°	1455.9	13.9
60°-70°	1096.7	10.4
70°-80°	662.2	6.3
80°-90°	326.4	3.1
90°-100°	232.5	2.2
100°-110°	412.4	3.9
110°-120°	333.1	3.2
120°-130°	163.6	1.6
130°-140°	82.5	0.8
140°-150°	46.7	0.4
150°-160°	25.8	0.2
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	2468.9	23.5
0°-40°	4035.7	38.4
0°-60°	7109.9	67.7
0°-90°	9195.3	87.5
90°-120°	978.0	9.3
90°-150°	1270.7	12.1
90°-180°	1312.0	12.5
0°-180°	10507.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3175	3175	3175	3175	3175	
5°	3154	3163	3159	3172	3168	300
15°	3027	3042	3056	3081	3084	853
25°	2764	2795	2834	2879	2886	1272
35°	2364	2419	2518	2594	2610	1478
45°	1866	1960	2123	2239	2263	1440
55°	1322	1458	1680	1806	1828	1185
65°	806	971	1189	1248	1234	801
75°	380	545	688	706	699	405
85°	79	209	345	392	399	92
90°	2	96	217	274	287	7
95°	24	102	217	282	303	70
105°	423	445	438	362	346	401
115°	297	309	345	360	358	297
125°	148	156	183	195	198	138
135°	88	92	104	117	120	70
145°	68	69	71	78	81	43
155°	56	58	58	58	59	25
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



TEST NUMBER: P827659

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3174.6	3174.6	3174.6	3174.6	3174.6
2.5°	3165.4	3173.1	3168.4	3178.5	3177.7
5°	3154.4	3163.0	3159.1	3171.5	3167.6
7.5°	3135.8	3145.1	3144.3	3158.3	3156.8
10°	3108.6	3118.7	3121.8	3140.5	3140.5
12.5°	3071.3	3084.5	3092.3	3114.8	3115.6
15°	3027.0	3041.8	3055.7	3081.4	3084.5
17.5°	2973.4	2992.0	3011.4	3041.0	3044.9
20°	2912.8	2933.8	2960.2	2991.2	2995.9
22.5°	2842.9	2867.7	2901.9	2938.5	2943.9
25°	2764.4	2794.7	2834.3	2878.6	2885.6
27.5°	2675.0	2710.0	2763.6	2813.3	2819.5
30°	2577.9	2619.1	2685.9	2745.0	2755.0
32.5°	2475.4	2522.8	2605.1	2671.1	2685.1
35°	2363.5	2418.7	2518.1	2594.3	2609.8
37.5°	2253.1	2313.8	2426.5	2513.4	2532.1
40°	2124.2	2199.6	2328.6	2424.8	2447.4
42.5°	2003.0	2084.5	2230.7	2335.5	2357.3
45°	1865.5	1959.5	2123.4	2239.2	2263.3
47.5°	1736.5	1838.3	2020.1	2139.7	2164.6
50°	1600.5	1712.4	1909.8	2034.8	2060.5
52.5°	1464.5	1585.0	1795.6	1925.3	1949.4
55°	1321.6	1458.3	1679.8	1806.4	1828.2
57.5°	1188.7	1333.3	1560.9	1681.3	1694.5
60°	1057.5	1207.4	1439.7	1545.4	1550.1
62.5°	929.3	1087.0	1315.4	1399.3	1393.1
65°	806.5	971.2	1188.7	1247.8	1233.8
67.5°	688.4	858.5	1059.0	1097.1	1078.4
70°	576.5	749.0	933.1	952.5	935.5
72.5°	477.8	644.9	805.7	822.0	809.6
75°	379.9	545.4	688.4	706.2	699.3
77.5°	288.3	449.1	580.4	603.7	605.3
80°	207.4	361.2	486.4	522.9	527.5
82.5°	136.8	280.5	407.9	454.5	461.5
85°	79.2	209.0	345.0	392.4	399.3
87.5°	34.2	150.8	277.3	320.1	328.7
90°	2.4	96.1	216.7	273.7	287.0
92.5°	9.6	86.2	200.1	259.6	272.2
95°	24.1	102.0	217.1	281.8	303.4
97.5°	113.8	165.5	262.4	322.4	337.5
100°	227.8	280.5	310.7	352.3	362.5
102.5°	359.5	385.7	352.5	357.0	358.4
105°	423.3	444.9	437.9	361.6	346.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	344.1	361.3	396.9	404.2	393.6
115°	297.2	308.9	344.7	360.1	358.3
117.5°	251.1	262.9	296.4	311.0	311.8
120°	211.5	222.5	252.1	264.5	267.6
122.5°	179.2	187.1	215.2	227.5	230.6
125°	148.5	156.5	183.0	195.4	198.5
127.5°	124.2	130.7	156.5	169.7	172.0
130°	108.9	112.9	134.0	148.1	150.4
132.5°	97.6	101.6	117.2	130.5	134.4
135°	87.9	91.9	104.4	116.9	120.0
137.5°	81.4	84.6	93.2	104.9	108.8
140°	75.7	79.0	84.5	94.6	97.6
142.5°	71.7	73.3	76.5	85.8	88.9
145°	68.4	69.3	70.8	77.8	81.0
147.5°	64.3	66.0	67.6	70.7	73.8
150°	61.9	63.5	63.5	65.2	67.5
152.5°	58.7	60.3	60.3	60.4	61.9
155°	56.3	57.9	57.9	58.0	58.7
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°	425.7	449.9	464.1	400.9	353.1
110°	390.2	415.3	439.5	428.1	390.7



(END OF REPORT)