

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: P827959

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827959  
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-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

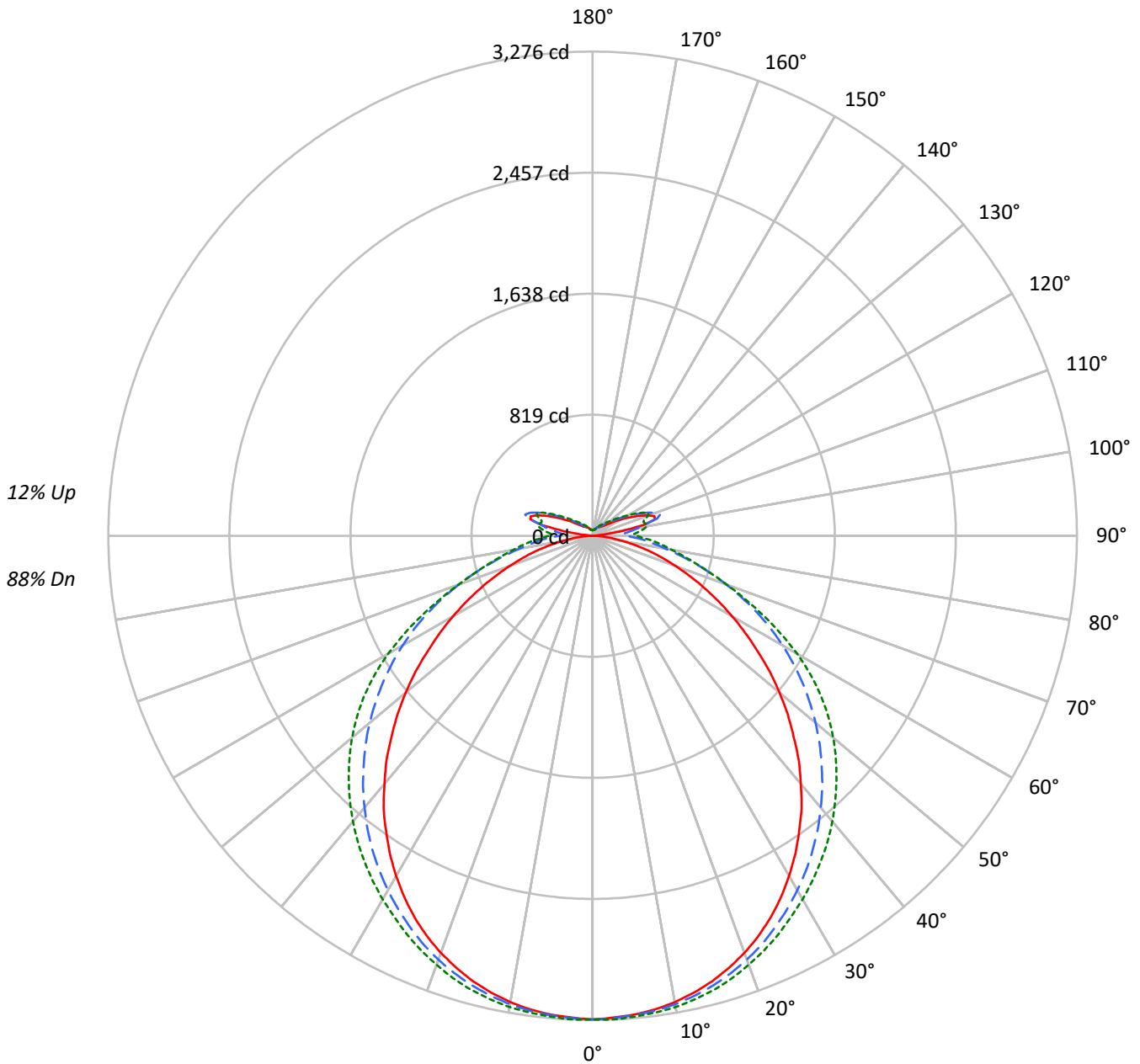
Lumens per Lamp: N/A  
Luminaire Lumens: 10832.8 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 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										
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	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	79	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	76	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	25													
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°	10647	10647	10647
5°	10446	10484	10624
10°	10243	10330	10613
15°	10000	10159	10585
20°	9722	9964	10524
25°	9395	9736	10463
30°	8995	9493	10405
35°	8538	9237	10366
40°	8018	8949	10333
45°	7432	8639	10282
50°	6806	8320	10214
55°	6075	7941	10057
60°	5334	7502	9660
65°	4544	6958	8946
70°	3711	6286	8182
75°	2878	5510	7781
80°	1925	4840	8150
85°	960	4585	10219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.1	2.9
10°-20°	889.7	8.2
20°-30°	1345.5	12.4
30°-40°	1615.3	14.9
40°-50°	1668.3	15.4
50°-60°	1501.0	13.9
60°-70°	1130.7	10.4
70°-80°	682.7	6.3
80°-90°	336.5	3.1
90°-100°	239.7	2.2
100°-110°	425.2	3.9
110°-120°	343.4	3.2
120°-130°	168.6	1.6
130°-140°	85.1	0.8
140°-150°	48.1	0.4
150°-160°	26.7	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	2545.3	23.5
0°-40°	4160.6	38.4
0°-60°	7329.8	67.7
0°-90°	9479.8	87.5
90°-120°	1008.2	9.3
90°-150°	1310.1	12.1
90°-180°	1353.0	12.5
0°-180°	10832.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3273	3273	3273	3273	3273	
5°	3252	3261	3257	3270	3266	309
15°	3121	3136	3150	3177	3180	880
25°	2850	2881	2922	2968	2975	1311
35°	2437	2494	2596	2674	2690	1523
45°	1923	2020	2189	2308	2333	1485
55°	1362	1503	1732	1862	1885	1222
65°	831	1001	1226	1286	1272	826
75°	392	562	710	728	721	418
85°	82	216	356	404	412	94
90°	2	99	223	282	296	7
95°	25	105	224	290	313	72
105°	436	459	451	373	357	413
115°	306	318	355	371	369	306
125°	153	161	189	201	205	142
135°	91	95	108	120	124	72
145°	70	71	73	80	84	44
155°	58	60	60	60	60	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°	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3263.2	3271.2	3266.4	3276.8	3276.0
5°	3252.0	3260.8	3256.8	3269.6	3265.6
7.5°	3232.8	3242.4	3241.6	3256.0	3254.4
10°	3204.8	3215.2	3218.3	3237.6	3237.6
12.5°	3166.2	3179.9	3187.9	3211.2	3211.9
15°	3120.7	3135.8	3150.3	3176.7	3179.9
17.5°	3065.3	3084.6	3104.6	3135.1	3139.1
20°	3002.9	3024.5	3051.8	3083.8	3088.6
22.5°	2930.8	2956.4	2991.7	3029.3	3034.9
25°	2849.9	2881.2	2922.0	2967.7	2974.8
27.5°	2757.8	2793.8	2849.1	2900.3	2906.8
30°	2657.7	2700.1	2769.0	2829.9	2840.3
32.5°	2551.9	2600.8	2685.7	2753.8	2768.2
35°	2436.6	2493.5	2596.0	2674.5	2690.5
37.5°	2322.8	2385.3	2501.5	2591.2	2610.4
40°	2189.9	2267.6	2400.6	2499.8	2523.1
42.5°	2064.9	2149.0	2299.7	2407.8	2430.2
45°	1923.2	2020.1	2189.1	2308.4	2333.2
47.5°	1790.2	1895.2	2082.6	2205.9	2231.6
50°	1650.0	1765.3	1968.8	2097.8	2124.2
52.5°	1509.8	1634.0	1851.1	1984.8	2009.7
55°	1362.5	1503.4	1731.8	1862.2	1884.8
57.5°	1225.5	1374.5	1609.2	1733.3	1746.9
60°	1090.2	1244.8	1484.2	1593.2	1598.0
62.5°	958.0	1120.6	1356.1	1442.6	1436.2
65°	831.4	1001.2	1225.5	1286.4	1272.0
67.5°	709.7	885.1	1091.8	1131.0	1111.8
70°	594.3	772.2	962.0	982.0	964.4
72.5°	492.6	664.8	830.6	847.4	834.7
75°	391.7	562.3	709.7	728.1	720.9
77.5°	297.2	463.0	598.3	622.3	624.0
80°	213.8	372.4	501.4	539.1	543.8
82.5°	141.0	289.2	420.5	468.6	475.8
85°	81.7	215.5	355.7	404.5	411.7
87.5°	35.2	155.4	285.9	330.0	338.8
90°	2.5	99.1	223.4	282.2	295.9
92.5°	9.9	88.8	206.2	267.7	280.7
95°	24.8	105.2	223.8	290.5	312.8
97.5°	117.3	170.6	270.5	332.3	347.9
100°	234.8	289.2	320.3	363.2	373.8
102.5°	370.7	397.7	363.4	368.1	369.5
105°	436.4	458.7	451.4	372.8	356.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	354.8	372.5	409.2	416.7	405.8
115°	306.4	318.4	355.3	371.2	369.4
117.5°	258.9	271.0	305.6	320.7	321.4
120°	218.1	229.4	259.9	272.7	275.8
122.5°	184.8	192.9	221.8	234.5	237.8
125°	153.1	161.3	188.7	201.4	204.7
127.5°	128.1	134.8	161.3	174.9	177.3
130°	112.2	116.4	138.2	152.7	155.1
132.5°	100.6	104.8	120.8	134.5	138.6
135°	90.6	94.8	107.7	120.5	123.7
137.5°	83.9	87.2	96.1	108.2	112.2
140°	78.1	81.4	87.1	97.5	100.7
142.5°	73.9	75.6	78.8	88.4	91.7
145°	70.5	71.4	73.0	80.2	83.5
147.5°	66.3	68.0	69.7	72.9	76.1
150°	63.8	65.5	65.5	67.2	69.6
152.5°	60.5	62.2	62.2	62.3	63.8
155°	58.0	59.7	59.7	59.8	60.5
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°	438.9	463.8	478.5	413.3	364.0
110°	402.2	428.2	453.1	441.3	402.8



(END OF REPORT)