

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: P827754

Luminaire Tested: **OHBL-24SE-N-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827754  
REPORT IS A COMBINATION OF REPORTS P826080 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-24SE-N-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

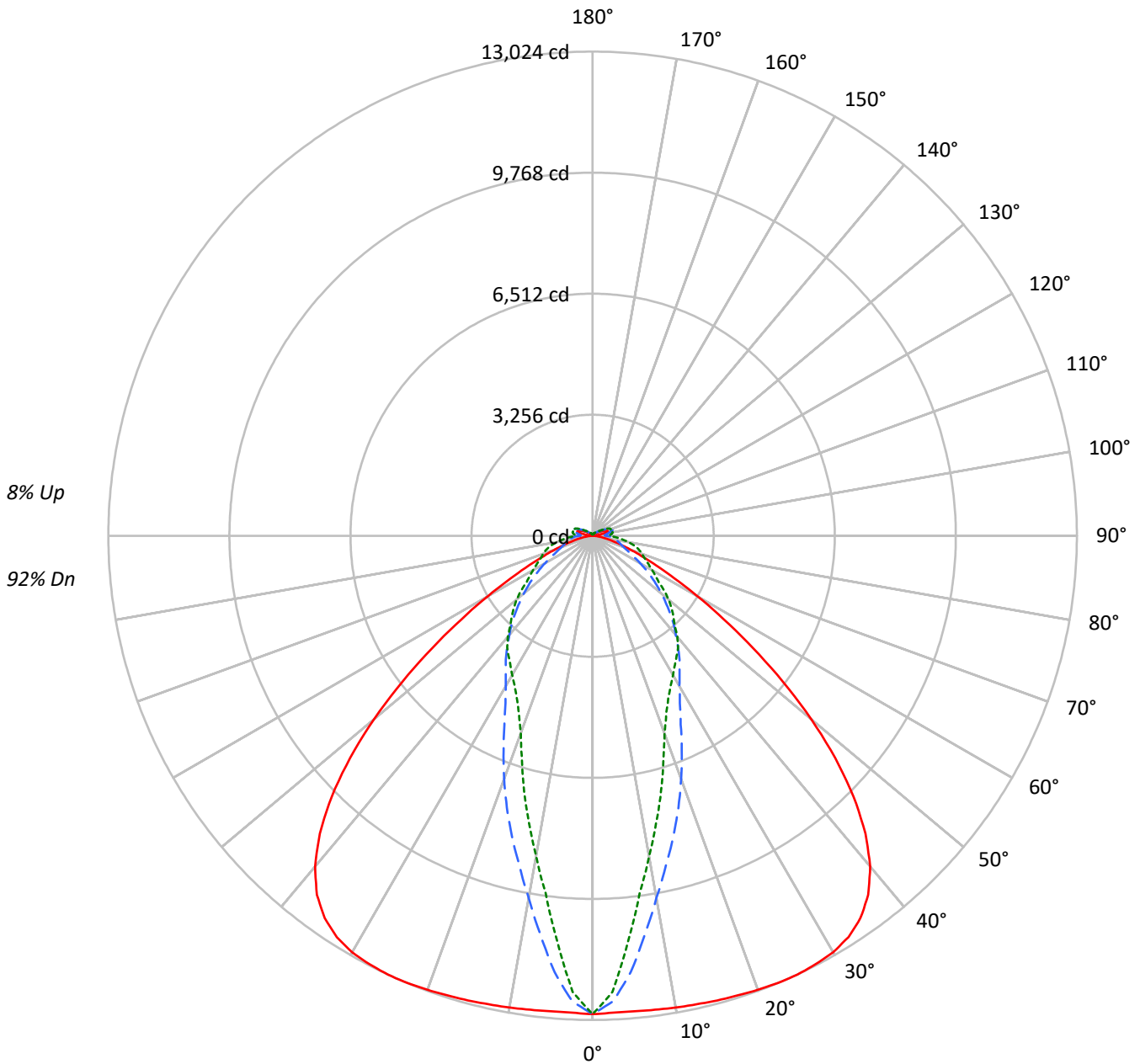
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19996.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 146.4  
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									
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	75	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

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

	0°	45°	90°
0°	21976	21976	21976
5°	21824	20012	18697
10°	21963	16857	15066
15°	22281	14417	12427
20°	22790	12190	10103
25°	23451	10090	8900
30°	24122	8693	8316
35°	24470	7922	7973
40°	23884	7156	7617
45°	21799	6466	7108
50°	18223	5713	6733
55°	13694	5004	6058
60°	9466	4291	5880
65°	6255	3696	5860
70°	4169	3468	6300
75°	2790	3577	6981
80°	1806	3961	7641
85°	929	4956	9111



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1083.1	5.4
10°-20°	2547.9	12.7
20°-30°	3193.7	16.0
30°-40°	3388.9	16.9
40°-50°	3064.1	15.3
50°-60°	2221.7	11.1
60°-70°	1394.2	7.0
70°-80°	922.6	4.6
80°-90°	534.1	2.7
90°-100°	353.7	1.8
100°-110°	512.3	2.6
110°-120°	397.1	2.0
120°-130°	190.9	1.0
130°-140°	93.3	0.5
140°-150°	53.4	0.3
150°-160°	29.2	0.1
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	6824.7	34.1
0°-40°	10213.6	51.1
0°-60°	15499.3	77.5
0°-90°	18350.3	91.8
90°-120°	1263.1	6.3
90°-150°	1600.7	8.0
90°-180°	1646.0	8.2
0°-180°	19996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12866	12866	12866	12866	12866	
5°	12841	12511	11776	11230	10947	###
15°	12939	10546	8376	7449	7111	3669
25°	13024	8154	5608	4978	4820	6017
35°	12558	5421	4070	3943	3942	7806
45°	9927	3434	2950	3021	3072	7563
55°	5256	2128	1925	2088	2162	4749
65°	1880	1234	1114	1428	1587	1956
75°	580	665	748	1162	1232	647
85°	102	276	547	762	699	122
90°	2	130	337	472	479	8
95°	25	128	349	473	505	71
105°	428	467	556	519	506	405
115°	304	329	429	461	460	304
125°	157	168	221	238	237	145
135°	95	100	119	137	137	75
145°	75	78	81	92	92	47
155°	63	68	70	72	69	27
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12866.3	12866.3	12866.3	12866.3	12866.3
2.5°	12839.4	12765.9	12536.9	12397.3	12279.7
5°	12840.6	12511.2	11776.4	11230.3	10947.4
7.5°	12859.0	12126.7	10803.0	10005.8	9694.7
10°	12887.1	11650.3	9894.3	9044.5	8754.2
12.5°	12908.0	11114.0	9094.7	8221.6	7903.2
15°	12938.6	10545.8	8375.9	7449.0	7110.9
17.5°	12966.7	10010.6	7665.7	6697.0	6321.1
20°	12994.8	9433.9	6955.4	5957.4	5647.6
22.5°	13021.8	8825.3	6262.3	5383.1	5171.2
25°	13024.3	8154.2	5608.5	4977.8	4819.8
27.5°	12992.4	7458.7	5078.2	4638.6	4540.7
30°	12937.3	6784.0	4666.8	4393.7	4323.9
32.5°	12800.2	6095.8	4348.3	4157.3	4116.9
35°	12557.7	5421.1	4070.4	3943.0	3941.8
37.5°	12175.7	4822.3	3769.2	3747.1	3774.0
40°	11611.1	4298.2	3483.8	3542.6	3542.6
42.5°	10858.0	3842.7	3225.5	3285.5	3269.5
45°	9927.4	3433.6	2949.9	3021.0	3072.4
47.5°	8848.6	3073.6	2668.3	2805.4	2876.5
50°	7675.4	2730.7	2411.1	2586.3	2667.1
52.5°	6446.0	2413.6	2160.1	2360.9	2425.8
55°	5255.8	2128.3	1925.0	2087.8	2162.5
57.5°	4178.1	1856.4	1694.8	1849.1	2003.4
60°	3251.2	1622.5	1478.0	1698.5	1852.7
62.5°	2483.4	1414.3	1274.7	1557.7	1711.9
65°	1879.7	1234.3	1114.4	1427.8	1587.0
67.5°	1416.8	1078.8	989.4	1333.5	1489.0
70°	1064.2	928.2	889.0	1274.7	1414.3
72.5°	786.2	789.8	809.5	1223.3	1329.9
75°	580.5	664.9	748.2	1162.1	1231.9
77.5°	415.2	551.0	693.1	1088.6	1113.1
80°	287.8	449.4	635.5	991.9	971.1
82.5°	180.0	360.0	584.1	885.4	827.8
85°	101.6	275.6	547.4	761.7	699.2
87.5°	45.3	205.7	478.8	593.9	554.8
90°	2.4	129.7	336.6	472.0	478.9
92.5°	9.7	114.1	323.4	452.7	468.9
95°	25.1	127.7	348.7	473.4	505.0
97.5°	115.3	189.9	396.2	511.1	533.9
100°	230.5	303.8	440.9	533.0	549.3
102.5°	363.4	408.8	477.1	526.3	532.0
105°	427.7	467.0	555.7	519.2	506.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	350.1	381.9	491.0	518.5	510.8
115°	304.5	329.0	429.0	460.8	459.6
117.5°	258.8	280.4	369.8	397.9	397.5
120°	219.2	238.8	313.9	336.3	336.3
122.5°	186.9	200.7	264.3	282.8	282.4
125°	157.0	167.5	220.9	237.7	237.3
127.5°	132.3	139.6	185.7	202.0	200.8
130°	117.0	122.6	156.1	174.0	174.0
132.5°	104.4	109.3	134.5	152.5	153.3
135°	94.7	99.6	118.7	136.7	136.7
137.5°	88.2	93.5	105.7	122.5	123.3
140°	81.7	86.7	95.6	111.1	111.1
142.5°	78.2	81.0	87.5	100.6	101.4
145°	75.3	78.2	81.4	92.0	91.6
147.5°	71.3	75.3	78.2	84.3	83.9
150°	68.9	73.3	74.1	78.7	77.4
152.5°	65.6	70.1	70.9	74.2	72.9
155°	63.2	67.7	69.7	71.8	69.3
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°	430.1	472.1	575.0	542.7	499.6
110°	395.8	435.8	542.9	555.0	522.3



(END OF REPORT)