

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: P826546

Luminaire Tested: **OHBL-24SE-A-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826546  
REPORT IS A COMBINATION OF REPORTS P826245 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-A-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

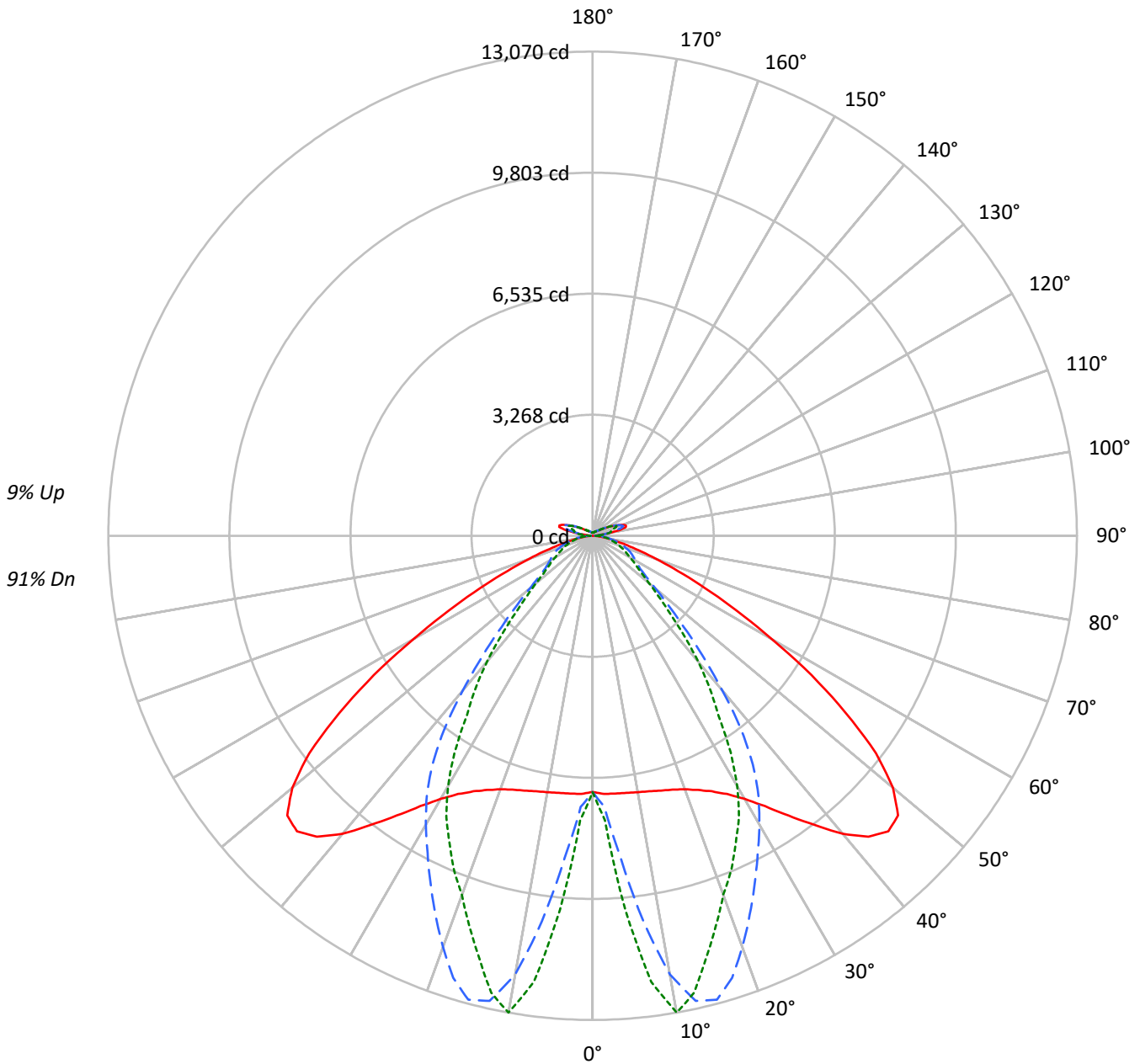
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24446.0 lumens  
Efficiency: N/A  
Efficacy: 157.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 155.4  
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	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	91	90	88	86	85	84	82	80																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	34	31	29																			

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

	0°	45°	90°
0°	11813	11813	11813
5°	11873	14857	17316
10°	11979	20483	22492
15°	12264	22314	20644
20°	12771	20704	18449
25°	13703	18620	16875
30°	15280	16766	15006
35°	17963	14674	11958
40°	21598	11175	9516
45°	24775	7614	6773
50°	25117	5222	5010
55°	21741	4110	4093
60°	16240	3846	3682
65°	11131	3858	3488
70°	7117	3721	3378
75°	4280	3444	3232
80°	2519	3026	3335
85°	1212	2599	3092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	902.9	3.7
10°-20°	3186.8	13.0
20°-30°	4695.9	19.2
30°-40°	4934.7	20.2
40°-50°	3776.0	15.4
50°-60°	2280.1	9.3
60°-70°	1391.4	5.7
70°-80°	759.4	3.1
80°-90°	272.3	1.1
90°-100°	215.8	0.9
100°-110°	749.0	3.1
110°-120°	642.5	2.6
120°-130°	308.2	1.3
130°-140°	154.2	0.6
140°-150°	89.4	0.4
150°-160°	52.1	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	8785.7	35.9
0°-40°	13720.4	56.1
0°-60°	19776.4	80.9
0°-90°	22199.5	90.8
90°-120°	1607.3	6.6
90°-150°	2159.2	8.8
90°-180°	2246.0	9.2
0°-180°	24446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6916	6916	6916	6916	6916	
5°	6986	7494	8743	9762	10139	668
15°	7122	11092	12964	12097	11813	2025
25°	7610	12874	10350	9370	9139	3557
35°	9218	10309	7540	6279	5912	5848
45°	11283	5883	3473	3056	2928	8525
55°	8344	1995	1581	1465	1461	7373
65°	3345	1263	1163	995	945	3428
75°	891	785	720	594	570	1025
85°	133	244	287	262	237	164
90°	5	32	44	58	64	11
95°	49	103	160	212	240	153
105°	933	923	785	559	514	886
115°	644	650	650	649	643	649
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6916.2	6916.2	6916.2	6916.2	6916.2
2.5°	6972.8	7044.0	7324.6	7615.8	7686.7
5°	6985.6	7494.5	8742.8	9762.1	10138.8
7.5°	7000.4	8224.3	10500.0	11748.0	12147.5
10°	7028.6	9147.4	12022.6	12918.6	13069.6
12.5°	7063.6	10125.1	12860.5	12827.8	12637.4
15°	7121.7	11092.3	12963.7	12097.0	11812.7
17.5°	7182.8	11910.6	12513.5	11301.7	11054.0
20°	7282.2	12517.9	11813.2	10594.7	10313.2
22.5°	7425.4	12851.9	11078.9	9955.2	9771.6
25°	7610.2	12873.5	10349.6	9370.0	9138.7
27.5°	7857.8	12574.9	9650.6	8796.7	8552.4
30°	8194.8	12003.0	9001.1	8105.4	7802.3
32.5°	8652.3	11180.1	8331.4	7270.9	6931.0
35°	9218.2	10309.3	7539.9	6279.1	5912.0
37.5°	9835.7	9342.5	6579.3	5400.9	5187.1
40°	10500.0	8346.2	5440.7	4579.2	4426.1
42.5°	11018.4	7263.2	4383.1	3805.4	3642.6
45°	11282.7	5882.6	3473.2	3056.2	2927.8
47.5°	11179.8	4566.4	2753.4	2428.4	2389.9
50°	10579.2	3371.8	2204.1	2000.4	1984.4
52.5°	9640.3	2513.2	1820.7	1694.6	1667.1
55°	8343.9	1994.7	1581.0	1465.3	1461.0
57.5°	7005.4	1694.6	1435.1	1345.6	1314.4
60°	5577.8	1511.0	1324.6	1223.4	1160.2
62.5°	4372.1	1382.6	1243.2	1106.0	1046.9
65°	3345.1	1262.9	1163.2	995.3	944.6
67.5°	2493.6	1148.7	1065.3	879.1	849.4
70°	1816.8	1031.5	953.8	781.8	758.3
72.5°	1294.9	914.6	842.2	690.5	664.6
75°	890.6	785.3	720.3	594.3	570.3
77.5°	600.9	653.3	600.3	507.4	497.4
80°	401.3	518.1	485.5	430.0	423.8
82.5°	243.5	376.0	383.2	349.7	332.8
85°	132.6	243.5	287.1	261.6	237.3
87.5°	51.9	134.9	197.8	177.6	167.3
90°	4.7	31.6	43.7	57.7	64.2
92.5°	15.8	41.9	67.0	94.9	107.0
95°	49.3	103.3	160.1	212.2	240.1
97.5°	250.3	270.8	291.3	352.7	383.4
100°	513.7	545.3	440.2	465.3	473.7
102.5°	793.8	789.1	575.1	515.5	508.1
105°	933.3	923.1	785.4	559.3	513.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	751.9	763.1	748.2	726.8	697.0
115°	643.9	650.5	650.5	648.6	643.0
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	937.1	940.8	868.2	678.4	564.8
110°	864.5	872.9	831.0	759.3	668.1



(END OF REPORT)