

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: P828046

Luminaire Tested: **OHBL-24SE-A-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828046  
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-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

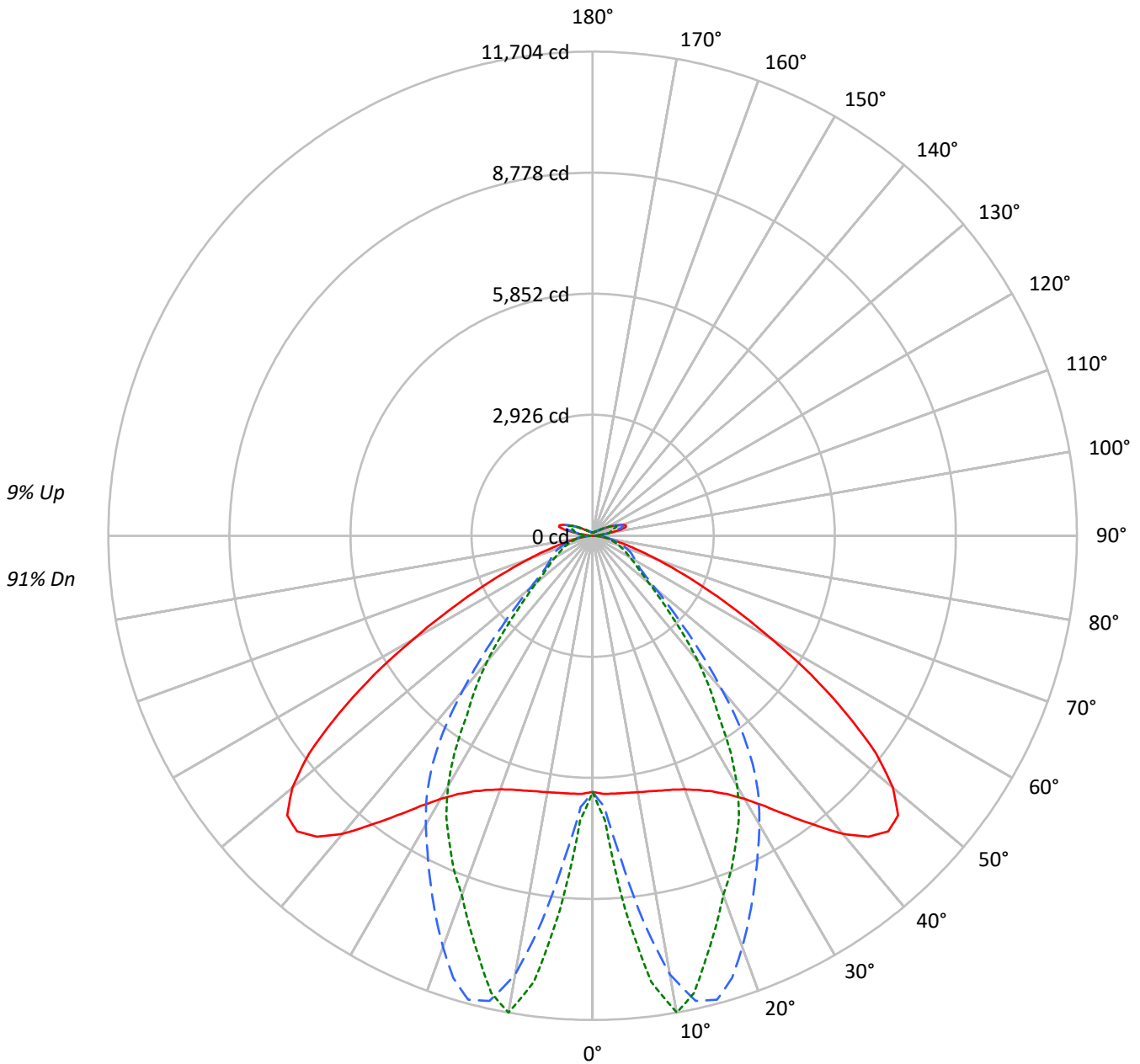
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21891.9 lumens  
Efficiency: N/A  
Efficacy: 140.9 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 (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	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°	10579	10579	10579
5°	10633	13305	15507
10°	10727	18343	20142
15°	10983	19982	18487
20°	11437	18541	16522
25°	12271	16674	15112
30°	13683	15014	13438
35°	16086	13141	10708
40°	19342	10007	8522
45°	22186	6818	6066
50°	22493	4677	4486
55°	19470	3680	3665
60°	14543	3444	3297
65°	9968	3455	3123
70°	6374	3333	3025
75°	3833	3084	2895
80°	2255	2710	2986
85°	1086	2328	2769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.6	3.7
10°-20°	2853.9	13.0
20°-30°	4205.3	19.2
30°-40°	4419.1	20.2
40°-50°	3381.5	15.4
50°-60°	2041.9	9.3
60°-70°	1246.0	5.7
70°-80°	680.1	3.1
80°-90°	243.9	1.1
90°-100°	193.2	0.9
100°-110°	670.8	3.1
110°-120°	575.4	2.6
120°-130°	276.0	1.3
130°-140°	138.1	0.6
140°-150°	80.1	0.4
150°-160°	46.7	0.2
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	7867.8	35.9
0°-40°	12286.9	56.1
0°-60°	17710.2	80.9
0°-90°	19880.2	90.8
90°-120°	1439.3	6.6
90°-150°	1933.5	8.8
90°-180°	2012.0	9.2
0°-180°	21891.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6194	6194	6194	6194	6194	
5°	6256	6712	7829	8742	9080	598
15°	6378	9933	11609	10833	10578	1813
25°	6815	11528	9268	8391	8184	3185
35°	8255	9232	6752	5623	5294	5237
45°	10104	5268	3110	2737	2622	7634
55°	7472	1786	1416	1312	1308	6603
65°	2996	1131	1042	891	846	3069
75°	798	703	645	532	511	918
85°	119	218	257	234	212	147
90°	4	28	39	52	58	9
95°	44	92	143	190	215	137
105°	836	827	703	501	460	793
115°	577	582	582	581	576	582
125°	282	297	302	302	299	264
135°	167	170	176	178	179	132
145°	121	124	127	128	128	77
155°	97	98	100	101	101	45
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6193.6	6193.6	6193.6	6193.6	6193.6
2.5°	6244.3	6308.1	6559.3	6820.1	6883.6
5°	6255.8	6711.5	7829.3	8742.2	9079.5
7.5°	6269.0	7365.1	9403.0	10520.6	10878.3
10°	6294.3	8191.7	10766.5	11568.9	11704.1
12.5°	6325.6	9067.3	11516.8	11487.6	11317.1
15°	6377.7	9933.4	11609.2	10833.2	10578.5
17.5°	6432.3	10666.2	11206.1	10120.9	9899.1
20°	6521.3	11210.1	10579.0	9487.8	9235.7
22.5°	6649.6	11509.2	9921.4	8915.1	8750.7
25°	6815.1	11528.5	9268.3	8391.1	8183.9
27.5°	7036.8	11261.1	8642.3	7877.7	7658.8
30°	7338.6	10749.0	8060.7	7258.6	6987.2
32.5°	7748.3	10012.0	7461.0	6511.2	6206.8
35°	8255.1	9232.3	6752.2	5623.1	5294.3
37.5°	8808.1	8366.4	5891.9	4836.7	4645.2
40°	9403.0	7474.3	4872.2	4100.8	3963.7
42.5°	9867.3	6504.3	3925.2	3407.8	3262.0
45°	10103.9	5268.0	3110.3	2736.9	2621.9
47.5°	10011.8	4089.3	2465.8	2174.7	2140.2
50°	9473.9	3019.5	1973.8	1791.4	1777.1
52.5°	8633.1	2250.6	1630.5	1517.6	1492.9
55°	7472.2	1786.3	1415.8	1312.2	1308.3
57.5°	6273.5	1517.6	1285.2	1205.0	1177.1
60°	4995.0	1353.2	1186.2	1095.6	1039.0
62.5°	3915.3	1238.2	1113.3	990.4	937.5
65°	2995.6	1130.9	1041.7	891.3	845.9
67.5°	2233.1	1028.7	954.0	787.3	760.7
70°	1627.0	923.8	854.2	700.1	679.1
72.5°	1159.6	819.1	754.2	618.3	595.2
75°	797.6	703.2	645.1	532.3	510.8
77.5°	538.1	585.1	537.6	454.4	445.4
80°	359.3	464.0	434.8	385.1	379.5
82.5°	218.1	336.8	343.2	313.2	298.0
85°	118.8	218.1	257.1	234.3	212.5
87.5°	46.5	120.8	177.2	159.1	149.8
90°	4.2	28.3	39.2	51.7	57.5
92.5°	14.2	37.5	60.0	85.0	95.8
95°	44.2	92.5	143.3	190.0	215.0
97.5°	224.2	242.5	260.8	315.8	343.3
100°	460.0	488.3	394.2	416.7	424.2
102.5°	710.8	706.7	515.0	461.7	455.0
105°	835.8	826.7	703.3	500.8	460.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	673.3	683.3	670.0	650.8	624.2
115°	576.7	582.5	582.5	580.8	575.8
117.5°	493.3	494.2	497.5	496.7	497.5
120°	408.3	417.5	425.0	420.8	415.8
122.5°	342.5	352.5	357.5	355.8	350.8
125°	281.7	296.7	302.5	301.7	299.2
127.5°	238.3	249.2	257.5	258.3	257.5
130°	207.5	214.2	222.5	223.3	224.2
132.5°	184.2	190.0	195.8	199.2	198.3
135°	166.7	170.0	175.8	177.5	179.2
137.5°	152.5	155.0	160.0	162.5	162.5
140°	140.0	143.3	147.5	149.2	150.0
142.5°	129.2	132.5	135.8	137.5	137.5
145°	120.8	124.2	126.7	127.5	128.3
147.5°	113.3	116.7	118.3	120.0	120.0
150°	107.5	109.2	111.7	112.5	113.3
152.5°	101.7	103.3	105.8	106.7	106.7
155°	96.7	98.3	100.0	100.8	100.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	839.2	842.5	777.5	607.5	505.8
110°	774.2	781.7	744.2	680.0	598.3



(END OF REPORT)