

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: P826455

Luminaire Tested: **OHBL-12SE-A-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826455  
REPORT IS A COMBINATION OF REPORTS P826053 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-A-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

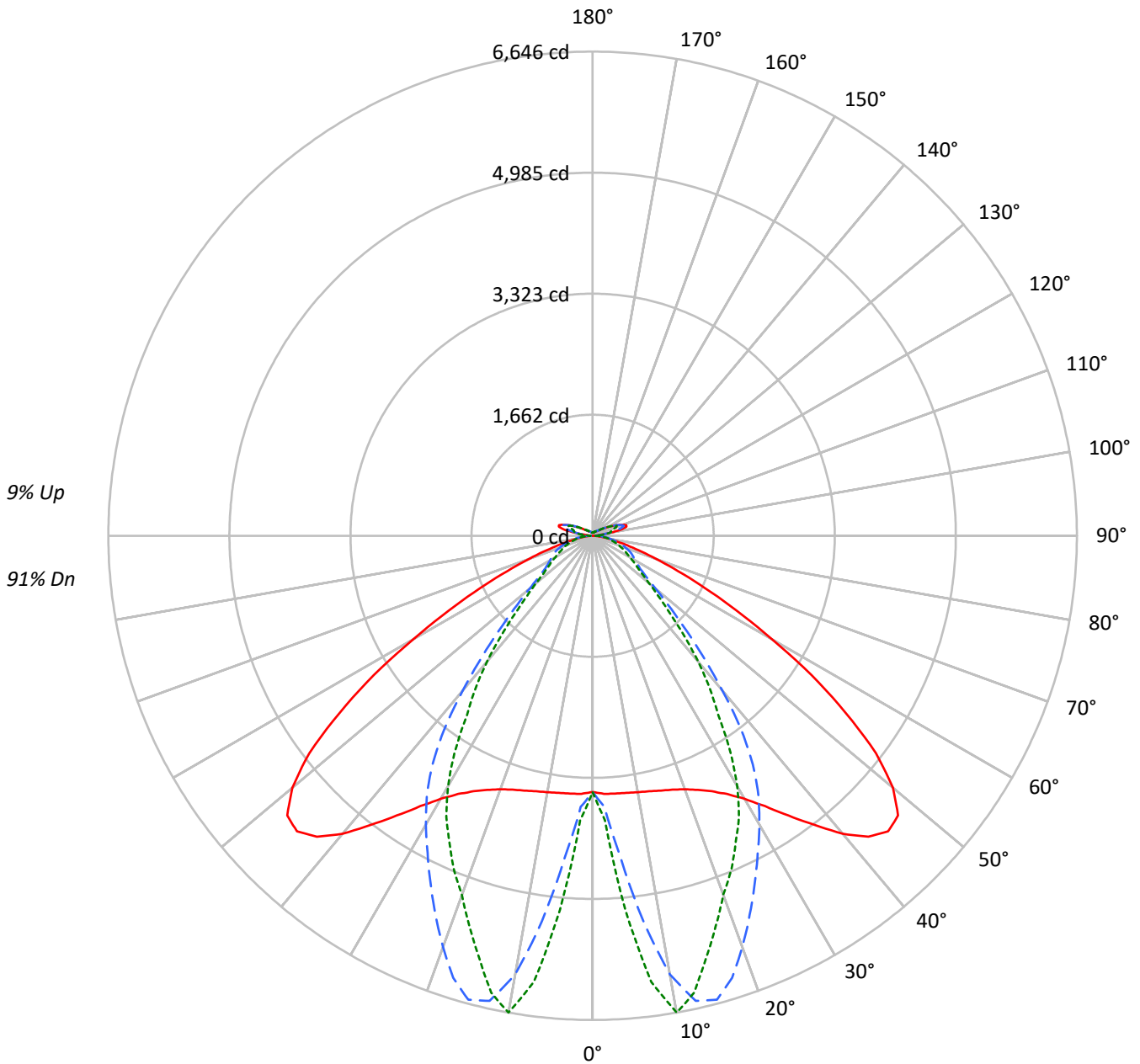
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12443.7 lumens  
Efficiency: N/A  
Efficacy: 158.7 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: 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

TEST NUMBER: P826455

CATALOG NUMBER: OHBL-12SE-A-UNV-L830-CD-UPL12

### 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	0
RCR																					
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	94	94	94	94	94	94	91
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	82	82	82	79
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	72	72	72	69
3	93	84	77	71	89	81	75	70	77	72	68	73	69	65	70	66	63	63	63	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	56	56	56	54
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	50	50	50	48
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	45	45	45	43
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	40	40	40	39
8	65	52	45	39	63	51	44	39	49	43	38	47	42	37	46	41	37	37	37	37	35
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	34	34	34	32
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	39	34	31	31	31	31	29

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

	0°	45°	90°
0°	11441	11441	11441
5°	11409	14310	16771
10°	11422	19621	21784
15°	11604	21256	19994
20°	11988	19611	17869
25°	12757	17534	16344
30°	14102	15690	14533
35°	16425	13642	11581
40°	19549	10313	9217
45°	22171	6969	6560
50°	22188	4736	4852
55°	18917	3686	3964
60°	13875	3404	3567
65°	9296	3359	3378
70°	5768	3169	3272
75°	3326	2844	3130
80°	1838	2383	3230
85°	792	1882	2993



TEST NUMBER: P826455

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.1	3.7
10°-20°	1620.4	13.0
20°-30°	2387.7	19.2
30°-40°	2509.2	20.2
40°-50°	1920.0	15.4
50°-60°	1159.3	9.3
60°-70°	707.5	5.7
70°-80°	386.1	3.1
80°-90°	138.5	1.1
90°-100°	110.7	0.9
100°-110°	385.2	3.1
110°-120°	330.9	2.7
120°-130°	158.6	1.3
130°-140°	79.3	0.6
140°-150°	46.1	0.4
150°-160°	26.9	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	4467.2	35.9
0°-40°	6976.4	56.1
0°-60°	10055.7	80.8
0°-90°	11287.8	90.7
90°-120°	826.7	6.6
90°-150°	1110.8	8.9
90°-180°	1156.0	9.3
0°-180°	12443.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3517	3517	3517	3517	3517	
5°	3552	3811	4445	4964	5155	340
15°	3621	5640	6592	6151	6006	1030
25°	3870	6546	5262	4764	4647	1808
35°	4687	5242	3834	3193	3006	2973
45°	5737	2991	1766	1554	1489	4335
55°	4243	1014	804	745	743	3749
65°	1701	642	592	506	480	1743
75°	453	399	366	302	290	521
85°	67	124	146	133	121	83
90°	3	17	22	29	33	6
95°	23	54	80	108	125	76
105°	481	476	406	288	264	455
115°	335	335	336	333	328	335
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826455

CATALOG NUMBER: OHBL-12SE-A-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3516.7	3516.7	3516.7	3516.7	3516.7
2.5°	3545.5	3581.6	3724.4	3872.4	3908.4
5°	3551.9	3810.7	4445.4	4963.8	5155.3
7.5°	3559.5	4181.8	5339.0	5973.5	6176.7
10°	3573.8	4651.1	6113.2	6568.7	6645.5
12.5°	3591.6	5148.3	6539.2	6522.5	6425.8
15°	3621.2	5640.1	6591.6	6151.0	6006.4
17.5°	3652.2	6056.1	6362.8	5746.6	5620.6
20°	3702.8	6365.0	6006.6	5387.1	5244.0
22.5°	3775.5	6534.8	5633.3	5061.9	4968.6
25°	3869.5	6545.8	5262.5	4764.4	4646.7
27.5°	3995.4	6393.9	4907.0	4472.9	4348.7
30°	4166.7	6103.2	4576.8	4121.3	3967.2
32.5°	4399.5	5684.8	4236.3	3697.0	3524.2
35°	4687.2	5242.0	3833.8	3192.7	3006.1
37.5°	5001.2	4750.4	3345.3	2746.3	2637.5
40°	5339.0	4243.8	2766.4	2328.3	2250.5
42.5°	5602.5	3693.1	2228.7	1934.9	1852.1
45°	5736.9	2991.1	1766.0	1554.0	1488.7
47.5°	5684.6	2321.8	1400.0	1234.8	1215.1
50°	5379.2	1714.5	1120.8	1017.2	1009.0
52.5°	4901.8	1277.8	925.8	861.7	847.6
55°	4242.6	1014.3	803.9	745.1	742.9
57.5°	3562.1	861.7	729.7	684.1	668.3
60°	2836.1	768.4	673.4	622.1	590.0
62.5°	2223.1	703.0	632.1	562.3	532.4
65°	1700.9	642.1	591.5	506.1	480.3
67.5°	1268.0	584.0	541.7	446.9	431.9
70°	923.8	524.5	485.0	397.5	385.6
72.5°	658.4	465.1	428.2	351.1	338.0
75°	452.8	399.3	366.3	302.2	290.0
77.5°	305.5	332.2	305.2	258.0	252.9
80°	204.1	263.4	246.9	218.7	215.5
82.5°	123.8	191.2	194.9	177.8	169.2
85°	67.4	123.8	146.0	133.0	120.6
87.5°	26.4	68.6	100.6	90.4	85.1
90°	2.8	16.8	22.3	28.8	32.6
92.5°	8.4	21.4	35.4	50.2	54.9
95°	23.3	54.0	80.0	107.9	124.7
97.5°	125.6	136.8	154.5	182.4	191.7
100°	256.8	276.4	229.8	240.1	244.7
102.5°	408.5	402.9	294.1	266.1	261.5
105°	481.1	475.5	405.7	287.5	264.3



TEST NUMBER: P826455

CATALOG NUMBER: OHBL-12SE-A-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	389.0	391.8	389.0	374.1	358.3
115°	335.0	335.0	335.9	333.1	327.6
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	483.9	485.8	447.6	347.1	287.5
110°	442.9	449.5	429.0	390.8	343.4



(END OF REPORT)