

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: P826463

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826463  
REPORT IS A COMBINATION OF REPORTS P826057 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-NL-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

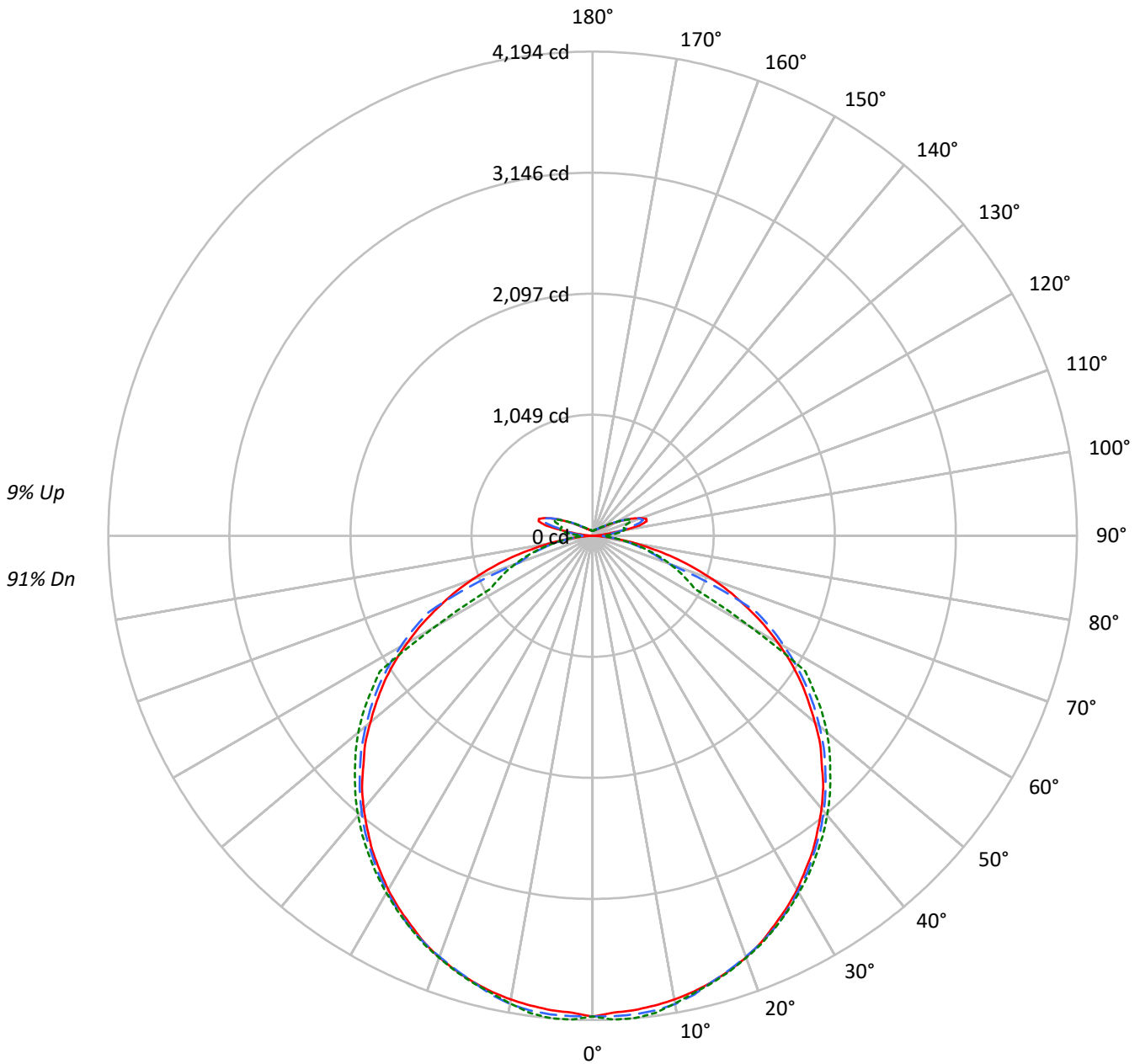
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12849.4 lumens  
Efficiency: N/A  
Efficacy: 163.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')  
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

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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	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	90	88	88	86	83	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	13547	13547	13547
5°	13338	13476	13664
10°	13209	13369	13524
15°	13073	13121	13405
20°	12917	12965	13339
25°	12687	12835	13278
30°	12478	12643	13220
35°	12235	12421	13168
40°	11954	12205	13129
45°	11587	11920	13048
50°	11193	11600	12995
55°	10724	11205	12775
60°	10063	10648	9869
65°	9161	9947	6574
70°	8029	5032	6285
75°	6451	4440	5860
80°	4293	3571	5130
85°	1549	2641	4437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	3.1
10°-20°	1132.7	8.8
20°-30°	1723.4	13.4
30°-40°	2095.5	16.3
40°-50°	2203.3	17.1
50°-60°	2011.9	15.7
60°-70°	1289.7	10.0
70°-80°	609.2	4.7
80°-90°	171.9	1.3
90°-100°	155.5	1.2
100°-110°	397.4	3.1
110°-120°	334.2	2.6
120°-130°	158.6	1.2
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°	3251.7	25.3
0°-40°	5347.2	41.6
0°-60°	9562.3	74.4
0°-90°	11633.1	90.5
90°-120°	887.1	6.9
90°-150°	1171.2	9.1
90°-180°	1216.0	9.5
0°-180°	12849.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4164	4164	4164	4164	4164	
5°	4125	4141	4162	4185	4194	392
15°	4000	4030	4000	4005	4008	1129
25°	3723	3728	3742	3747	3744	1718
35°	3327	3308	3346	3386	3377	2079
45°	2806	2801	2849	2916	2911	2169
55°	2199	2182	2256	2331	2337	1961
65°	1482	1482	1568	899	902	1469
75°	732	746	484	510	512	772
85°	96	121	151	164	155	141
90°	3	58	90	108	111	6
95°	25	75	128	173	190	78
105°	485	484	417	299	275	459
115°	339	340	343	338	328	337
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: P826463

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4163.9	4163.9	4163.9	4163.9	4163.9
2.5°	4134.6	4148.6	4163.9	4183.6	4194.5
5°	4125.2	4141.3	4162.4	4185.1	4193.8
7.5°	4104.7	4127.3	4147.8	4163.9	4169.0
10°	4079.1	4106.2	4117.9	4116.4	4112.8
12.5°	4044.8	4073.3	4069.7	4052.8	4055.7
15°	4000.2	4030.1	3999.5	4005.3	4008.3
17.5°	3947.6	3976.8	3941.0	3952.7	3953.5
20°	3886.3	3908.1	3880.4	3889.9	3889.9
22.5°	3812.5	3827.7	3816.1	3822.6	3824.1
25°	3722.6	3728.4	3741.5	3747.4	3744.5
27.5°	3636.4	3629.1	3654.7	3668.5	3661.2
30°	3540.7	3528.9	3558.9	3581.5	3572.8
32.5°	3431.1	3423.8	3458.1	3485.1	3480.0
35°	3327.3	3307.6	3345.5	3386.5	3377.0
37.5°	3204.6	3192.8	3235.9	3279.1	3274.0
40°	3084.7	3065.0	3113.9	3165.1	3160.0
42.5°	2956.2	2932.7	2986.1	3047.5	3041.6
45°	2806.3	2801.3	2848.7	2915.9	2910.9
47.5°	2673.4	2647.8	2714.2	2779.3	2785.2
50°	2512.6	2503.2	2563.8	2642.7	2648.5
52.5°	2355.6	2349.0	2412.5	2492.2	2502.4
55°	2199.2	2182.3	2256.2	2331.4	2337.4
57.5°	2032.0	2014.4	2089.7	2171.5	2183.8
60°	1852.8	1836.1	1918.6	1994.6	1586.2
62.5°	1673.9	1662.2	1748.4	1238.5	998.1
65°	1481.7	1481.7	1567.9	899.4	902.4
67.5°	1302.0	1290.3	1169.1	808.0	808.0
70°	1109.1	1113.5	673.6	708.1	708.7
72.5°	915.5	931.6	581.6	609.3	610.8
75°	732.1	746.0	484.4	510.0	512.2
77.5°	537.8	413.5	389.4	409.2	409.9
80°	377.7	260.8	298.2	317.0	314.9
82.5°	220.6	182.7	218.4	232.4	231.6
85°	95.7	121.3	151.2	163.7	154.8
87.5°	30.6	75.3	94.2	101.5	100.8
90°	2.8	57.7	89.5	108.4	110.7
92.5°	8.4	53.5	93.8	123.4	128.7
95°	25.4	75.2	128.3	173.0	189.7
97.5°	127.1	152.1	188.8	233.5	244.3
100°	258.3	288.8	252.6	276.6	282.1
102.5°	412.1	413.2	307.9	289.5	285.6
105°	484.7	483.5	417.4	299.3	275.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	393.3	397.6	397.0	379.9	358.9
115°	338.6	340.1	343.2	338.3	328.2
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°	487.5	493.0	457.8	353.7	289.7
110°	447.3	456.1	437.7	396.7	344.0



(END OF REPORT)