

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: P829771

Luminaire Tested: **OHBL-12SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-N-UNV-L830-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

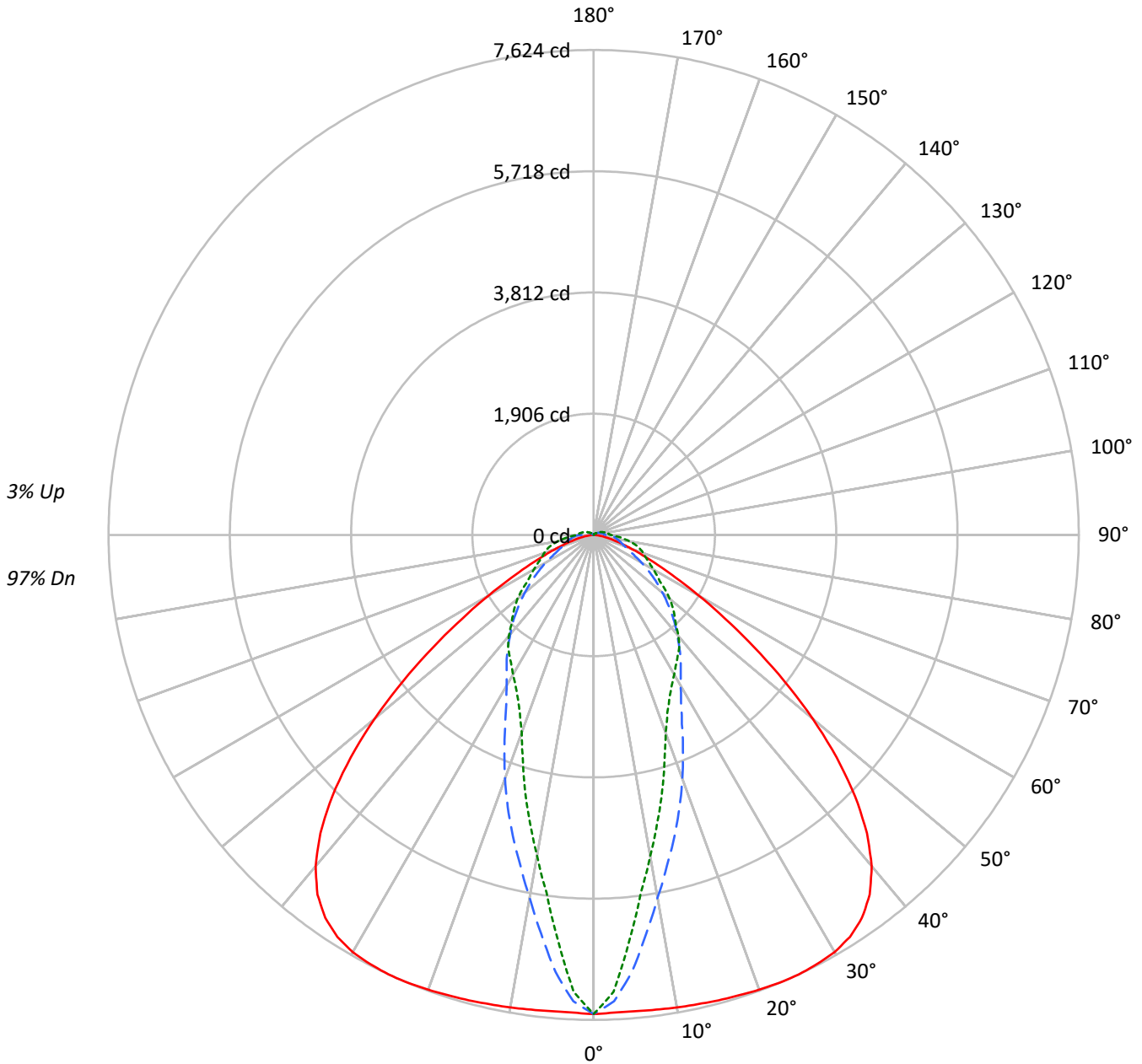
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11116.0 lumens  
Efficiency: N/A  
Efficacy: 158.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97																
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82																
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71																
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62																
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54																
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48																
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43																
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39																
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35																
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32																
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30																

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

	0°	45°	90°
0°	24503	24503	24503
5°	24453	22191	20585
10°	24729	18590	16379
15°	25212	15811	13339
20°	25920	13294	10704
25°	26817	10939	9301
30°	27744	9365	8566
35°	28321	8478	8086
40°	27836	7603	7593
45°	25608	6814	6951
50°	21606	5964	6440
55°	16417	5167	5644
60°	11505	4373	5306
65°	7739	3704	5077
70°	5285	3400	5169
75°	3668	3400	5298
80°	2525	3591	5119
85°	1477	4130	4808



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.0	5.7
10°-20°	1491.5	13.4
20°-30°	1869.5	16.8
30°-40°	1983.8	17.8
40°-50°	1793.7	16.1
50°-60°	1300.5	11.7
60°-70°	816.1	7.3
70°-80°	540.1	4.9
80°-90°	311.2	2.8
90°-100°	150.7	1.4
100°-110°	104.0	0.9
110°-120°	64.2	0.6
120°-130°	31.1	0.3
130°-140°	14.3	0.1
140°-150°	7.8	0.1
150°-160°	3.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	3995.0	35.9
0°-40°	5978.8	53.8
0°-60°	9073.0	81.6
0°-90°	10740.4	96.6
90°-120°	319.0	2.9
90°-150°	372.2	3.3
90°-180°	376.0	3.4
0°-180°	11116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7532	7532	7532	7532	7532	
5°	7517	7324	6894	6574	6408	718
15°	7574	6173	4903	4360	4163	2148
25°	7624	4773	3283	2914	2821	3522
35°	7351	3173	2383	2308	2308	4570
45°	5811	2010	1727	1768	1798	4427
55°	3077	1246	1127	1222	1266	2780
65°	1100	723	652	836	929	1145
75°	340	389	438	680	721	379
85°	60	161	320	446	409	71
90°	0	67	186	262	264	4
95°	3	47	163	222	232	3
105°	6	32	119	158	162	6
115°	8	22	80	100	102	8
125°	9	12	41	52	51	7
135°	7	9	18	28	28	6
145°	9	9	11	16	16	5
155°	9	11	12	12	11	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7531.7	7531.7	7531.7	7531.7	7531.7
2.5°	7515.9	7472.9	7338.9	7257.1	7188.3
5°	7516.6	7323.8	6893.7	6574.0	6408.4
7.5°	7527.4	7098.7	6323.8	5857.2	5675.1
10°	7543.9	6819.9	5791.9	5294.5	5124.6
12.5°	7556.1	6505.9	5323.9	4812.8	4626.4
15°	7574.0	6173.3	4903.1	4360.4	4162.6
17.5°	7590.5	5860.0	4487.3	3920.3	3700.3
20°	7606.9	5522.4	4071.6	3487.4	3306.0
22.5°	7622.7	5166.2	3665.8	3151.2	3027.2
25°	7624.2	4773.3	3283.1	2913.9	2821.4
27.5°	7605.5	4366.2	2972.7	2715.3	2658.0
30°	7573.3	3971.2	2731.8	2572.0	2531.1
32.5°	7493.0	3568.4	2545.4	2433.6	2410.0
35°	7351.0	3173.4	2382.7	2308.2	2307.5
37.5°	7127.4	2822.9	2206.4	2193.5	2209.3
40°	6796.9	2516.1	2039.4	2073.8	2073.8
42.5°	6356.1	2249.4	1888.1	1923.2	1913.9
45°	5811.3	2010.0	1726.8	1768.4	1798.5
47.5°	5179.8	1799.2	1562.0	1642.2	1683.8
50°	4493.1	1598.5	1411.4	1513.9	1561.2
52.5°	3773.4	1412.9	1264.5	1382.0	1420.0
55°	3076.6	1245.8	1126.8	1222.2	1265.9
57.5°	2445.8	1086.7	992.1	1082.4	1172.7
60°	1903.2	949.8	865.2	994.2	1084.6
62.5°	1453.7	827.9	746.2	911.8	1002.1
65°	1100.3	722.6	652.3	835.8	929.0
67.5°	829.4	631.5	579.2	780.6	871.7
70°	622.9	543.4	520.4	746.2	827.9
72.5°	460.2	462.4	473.8	716.1	778.5
75°	339.8	389.2	438.0	680.3	721.1
77.5°	243.0	322.6	405.7	637.3	651.6
80°	168.5	263.1	372.0	580.6	568.4
82.5°	105.4	210.7	341.9	518.3	484.6
85°	59.5	161.3	320.4	445.9	409.3
87.5°	26.5	120.4	280.3	347.7	324.7
90°	0.0	67.4	185.7	261.6	263.8
92.5°	1.4	55.9	171.3	239.4	246.6
95°	2.9	47.3	163.4	222.2	232.3
97.5°	3.6	41.6	153.4	206.4	215.0
100°	4.3	37.3	141.2	190.0	197.1
102.5°	5.0	34.4	129.7	172.8	178.5
105°	5.7	31.5	119.0	157.7	162.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	24.4	89.6	113.3	116.8
115°	7.9	22.2	80.3	100.4	102.5
117.5°	8.6	19.4	70.2	88.2	88.9
120°	8.6	17.2	60.2	75.3	75.3
122.5°	8.6	14.3	50.2	62.4	61.6
125°	8.6	11.5	40.9	51.6	50.9
127.5°	7.9	9.3	33.0	43.0	42.3
130°	7.9	9.3	26.5	36.6	36.6
132.5°	7.2	8.6	21.5	31.5	31.5
135°	7.2	8.6	17.9	28.0	28.0
137.5°	7.2	9.3	15.1	24.4	24.4
140°	7.2	8.6	12.9	21.5	21.5
142.5°	7.9	8.6	11.5	18.6	18.6
145°	8.6	9.3	10.8	16.5	15.8
147.5°	8.6	10.0	10.8	14.3	13.6
150°	8.6	10.8	10.8	12.9	12.2
152.5°	8.6	10.8	10.8	12.2	11.5
155°	8.6	10.8	11.5	12.2	10.8
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	5.7	29.4	109.0	141.2	146.2
110°	6.5	26.5	99.6	126.2	131.2



(END OF REPORT)