

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: P829807

Luminaire Tested: **OHBL-15SE-A-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-A-UNV-L830-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

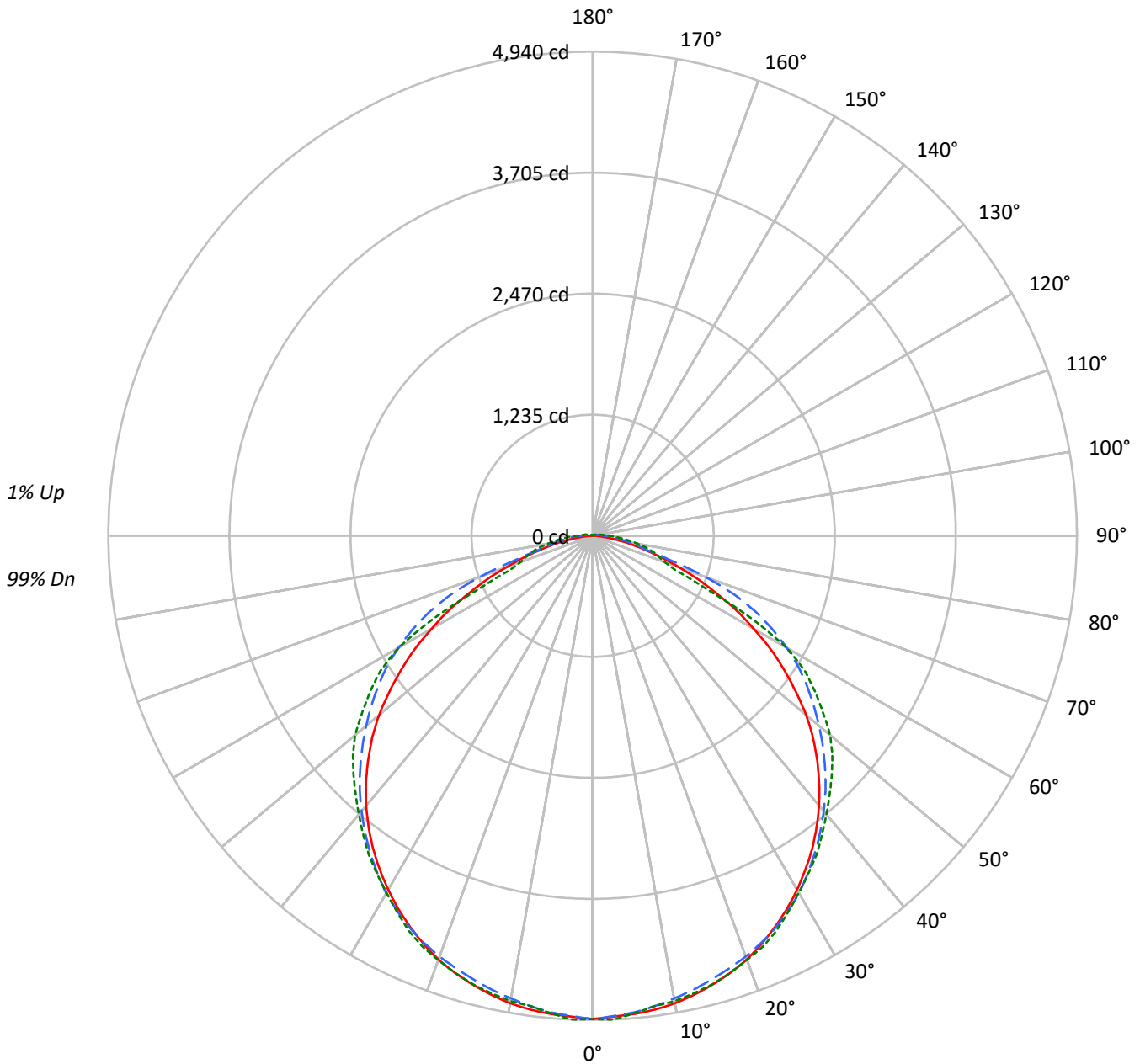
Lumens per Lamp: N/A  
Luminaire Lumens: 13935.9 lumens  
Efficiency: N/A  
Efficacy: 160.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 87  
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	16041	16041	16041
5°	15936	15713	15707
10°	15877	15384	15403
15°	15777	15116	15172
20°	15676	14913	14909
25°	15487	14708	14645
30°	15281	14437	14233
35°	15035	14061	13940
40°	14715	13672	13584
45°	14272	13231	13329
50°	13671	12738	13039
55°	12717	12237	12346
60°	11468	11556	11189
65°	9838	10428	6916
70°	7924	7947	4852
75°	5941	4560	4703
80°	4135	3600	4186
85°	2353	3004	3467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	3.3
10°-20°	1333.1	9.6
20°-30°	2036.1	14.6
30°-40°	2470.5	17.7
40°-50°	2589.3	18.6
50°-60°	2346.3	16.8
60°-70°	1573.1	11.3
70°-80°	706.4	5.1
80°-90°	256.3	1.8
90°-100°	77.2	0.6
100°-110°	36.4	0.3
110°-120°	18.2	0.1
120°-130°	10.1	0.1
130°-140°	6.9	0.0
140°-150°	4.6	0.0
150°-160°	3.4	0.0
160°-170°	2.2	0.0
170°-180°	0.7	0.0
0°-30°	3834.2	27.5
0°-40°	6304.7	45.2
0°-60°	11240.3	80.7
0°-90°	13776.1	98.9
90°-120°	131.8	0.9
90°-150°	153.4	1.1
90°-180°	160.0	1.1
0°-180°	13935.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4931	4931	4931	4931	4931	
5°	4898	4916	4881	4896	4890	466
15°	4740	4721	4688	4729	4734	1338
25°	4403	4384	4414	4455	4442	2030
35°	3902	3912	3952	3994	3978	2439
45°	3239	3292	3353	3438	3449	2495
55°	2383	2498	2668	2775	2769	2127
65°	1399	1618	1836	1550	1265	1394
75°	550	798	587	601	640	601
85°	95	182	233	282	295	116
90°	1	61	120	151	158	6
95°	1	38	83	100	103	1
105°	3	16	41	49	51	3
115°	6	9	21	26	28	5
125°	5	6	13	15	16	5
135°	6	7	8	11	12	5
145°	6	7	7	8	9	4
155°	7	8	8	8	7	3
165°	8	8	8	8	8	2
175°	8	8	7	6	6	1
180°	7	7	7	7	7	



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CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4930.6	4930.6	4930.6	4930.6	4930.6
2.5°	4910.6	4931.3	4905.6	4933.4	4940.5
5°	4898.5	4915.6	4881.4	4896.3	4889.9
7.5°	4876.4	4882.1	4841.5	4853.6	4840.7
10°	4843.6	4840.7	4793.0	4816.5	4819.4
12.5°	4795.1	4786.6	4743.8	4779.4	4780.1
15°	4739.5	4721.0	4687.5	4728.8	4734.5
17.5°	4675.3	4651.1	4629.0	4682.5	4673.9
20°	4600.5	4572.0	4567.7	4626.2	4604.8
22.5°	4507.8	4485.7	4495.7	4551.3	4537.7
25°	4403.0	4383.8	4414.4	4455.0	4442.2
27.5°	4292.5	4281.1	4316.0	4347.4	4322.4
30°	4171.3	4164.9	4211.2	4236.9	4205.5
32.5°	4039.4	4041.6	4085.8	4120.7	4091.5
35°	3902.5	3911.8	3951.7	3993.8	3978.1
37.5°	3752.1	3772.8	3812.7	3860.5	3844.1
40°	3593.1	3623.1	3667.3	3725.0	3710.0
42.5°	3421.3	3459.1	3516.1	3580.3	3578.9
45°	3238.8	3291.6	3352.9	3438.4	3449.1
47.5°	3049.2	3108.3	3186.0	3300.1	3316.5
50°	2843.1	2917.3	3014.2	3151.1	3161.1
52.5°	2613.6	2714.8	2843.1	2974.3	2962.2
55°	2383.3	2498.1	2668.5	2775.4	2769.0
57.5°	2153.7	2282.8	2489.5	2565.8	2565.1
60°	1897.1	2060.3	2286.3	2344.1	2287.1
62.5°	1659.7	1835.1	2069.6	2027.6	1832.2
65°	1398.8	1617.6	1836.5	1549.9	1265.4
67.5°	1167.1	1395.2	1559.9	1061.5	909.0
70°	933.9	1185.6	1216.2	787.8	777.1
72.5°	727.2	995.2	839.1	674.4	708.6
75°	550.4	798.5	587.4	601.0	640.2
77.5°	401.4	613.1	457.0	526.8	558.9
80°	275.9	434.2	372.9	442.7	464.8
82.5°	173.2	286.6	298.7	356.5	379.3
85°	94.8	181.8	233.1	281.6	295.1
87.5°	39.2	109.8	178.2	217.4	228.8
90°	0.7	60.6	120.5	151.1	158.3
92.5°	0.7	46.3	98.4	121.9	126.9
95°	0.7	37.8	82.7	100.5	103.4
97.5°	1.4	29.9	69.2	83.4	86.3
100°	2.1	25.0	57.7	69.9	72.0
102.5°	2.9	20.0	48.5	58.5	60.6
105°	2.9	16.4	40.6	49.2	51.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	10.0	24.2	30.7	32.1
115°	5.7	8.6	20.7	26.4	27.8
117.5°	5.7	7.1	17.8	22.1	23.5
120°	5.7	6.4	15.7	19.2	20.0
122.5°	5.7	5.7	13.5	17.1	17.8
125°	5.0	5.7	12.8	15.0	15.7
127.5°	5.7	5.7	11.4	13.5	14.3
130°	5.7	6.4	10.0	12.8	12.8
132.5°	6.4	7.1	9.3	12.1	12.1
135°	6.4	7.1	7.8	11.4	12.1
137.5°	7.1	7.1	7.1	10.7	11.4
140°	7.1	7.1	6.4	9.3	10.0
142.5°	6.4	7.1	6.4	8.6	9.3
145°	6.4	7.1	7.1	7.8	8.6
147.5°	7.1	7.1	7.1	7.1	7.8
150°	7.1	7.1	7.1	7.1	7.1
152.5°	7.1	7.1	7.1	7.1	7.1
155°	7.1	7.8	7.8	7.8	7.1
157.5°	7.1	7.8	7.8	7.8	7.8
160°	7.1	7.8	7.8	7.8	7.8
162.5°	7.8	7.8	7.8	7.8	7.8
165°	7.8	7.8	7.8	7.8	7.8
167.5°	7.8	8.6	7.8	7.8	7.8
170°	7.8	7.8	7.8	7.1	7.1
172.5°	7.8	7.8	7.8	7.1	7.1
175°	7.8	7.8	7.1	6.4	6.4
177.5°	8.6	7.8	7.1	6.4	5.7
180°	7.1	7.1	7.1	7.1	7.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	3.6	13.5	34.9	42.1	43.5
110°	4.3	11.4	29.2	35.6	37.1



(END OF REPORT)