

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: P829951

Luminaire Tested: **OHBL-18SE-A-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829951  
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-18SE-A-UNV-L830-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

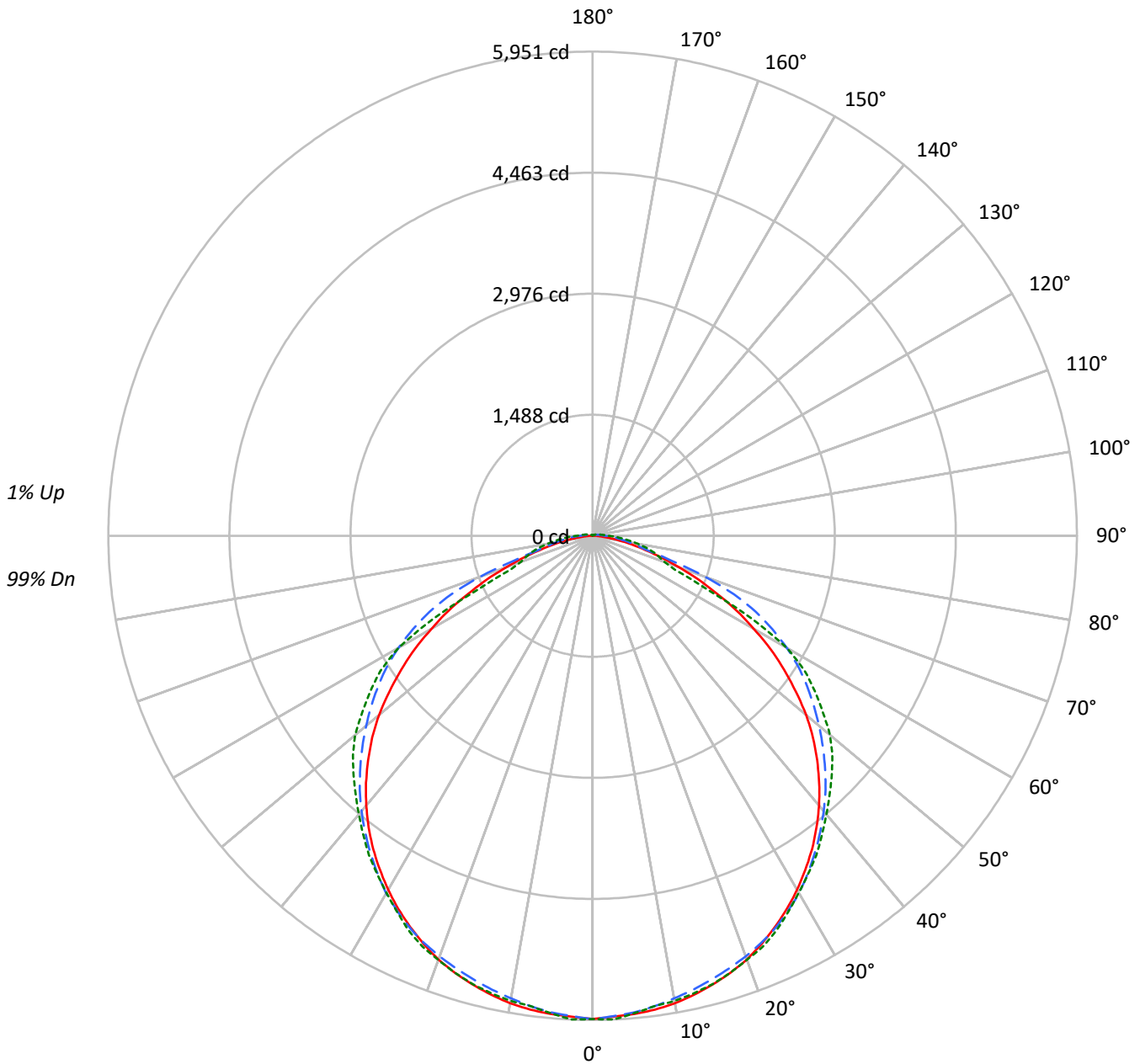
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16787.0 lumens  
Efficiency: N/A  
Efficacy: 159.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 105  
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°	10144	10144	10144
5°	10078	9992	10011
10°	10041	9836	9894
15°	9977	9719	9821
20°	9913	9643	9728
25°	9794	9567	9635
30°	9664	9449	9446
35°	9508	9264	9338
40°	9306	9074	9193
45°	9026	8853	9123
50°	8646	8603	9040
55°	8043	8356	8691
60°	7252	7997	8021
65°	6221	7337	5072
70°	5011	5716	3667
75°	3757	3383	3706
80°	2615	2800	3514
85°	1488	2542	3251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.0	3.3
10°-20°	1605.9	9.6
20°-30°	2452.7	14.6
30°-40°	2975.9	17.7
40°-50°	3119.0	18.6
50°-60°	2826.3	16.8
60°-70°	1894.9	11.3
70°-80°	850.9	5.1
80°-90°	308.8	1.8
90°-100°	92.9	0.6
100°-110°	43.9	0.3
110°-120°	22.0	0.1
120°-130°	12.1	0.1
130°-140°	8.3	0.0
140°-150°	5.6	0.0
150°-160°	4.2	0.0
160°-170°	2.7	0.0
170°-180°	0.8	0.0
0°-30°	4618.5	27.5
0°-40°	7594.5	45.2
0°-60°	13539.8	80.7
0°-90°	16594.4	98.9
90°-120°	158.8	0.9
90°-150°	184.9	1.1
90°-180°	193.0	1.1
0°-180°	16787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5939	5939	5939	5939	5939	
5°	5901	5921	5880	5898	5890	561
15°	5709	5687	5646	5696	5703	1612
25°	5304	5281	5318	5366	5351	2445
35°	4701	4712	4760	4811	4792	2938
45°	3901	3965	4039	4142	4155	3005
55°	2871	3009	3214	3343	3336	2563
65°	1685	1948	2212	1867	1524	1679
75°	663	962	708	724	771	725
85°	114	219	281	339	356	139
90°	1	73	145	182	191	7
95°	1	46	100	121	124	1
105°	3	20	49	59	62	4
115°	7	10	25	32	34	6
125°	6	7	16	18	19	6
135°	8	9	9	14	15	6
145°	8	9	9	9	10	5
155°	9	9	9	9	9	4
165°	9	9	9	9	9	3
175°	9	9	9	8	8	1
180°	9	9	9	9	9	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5939.3	5939.3	5939.3	5939.3	5939.3
2.5°	5915.2	5940.1	5909.2	5942.7	5951.3
5°	5900.6	5921.2	5880.0	5898.0	5890.3
7.5°	5874.0	5880.9	5831.9	5846.5	5831.0
10°	5834.5	5831.0	5773.5	5801.9	5805.3
12.5°	5776.1	5765.8	5714.3	5757.2	5758.1
15°	5709.1	5686.8	5646.4	5696.2	5703.1
17.5°	5631.8	5602.6	5576.0	5640.4	5630.1
20°	5541.6	5507.3	5502.1	5572.6	5546.8
22.5°	5430.0	5403.4	5415.4	5482.4	5466.1
25°	5303.8	5280.6	5317.5	5366.5	5351.0
27.5°	5170.7	5156.9	5199.0	5236.8	5206.7
30°	5024.7	5016.9	5072.8	5103.7	5065.9
32.5°	4865.8	4868.4	4921.6	4963.7	4928.5
35°	4700.9	4712.1	4760.2	4810.8	4791.9
37.5°	4519.7	4544.6	4592.7	4650.2	4630.5
40°	4328.2	4364.3	4417.5	4487.1	4469.0
42.5°	4121.2	4166.8	4235.5	4312.7	4311.0
45°	3901.4	3964.9	4038.8	4141.8	4154.7
47.5°	3673.0	3744.2	3837.8	3975.2	3995.0
50°	3424.8	3514.1	3630.9	3795.8	3807.8
52.5°	3148.3	3270.2	3424.8	3582.8	3568.2
55°	2870.9	3009.1	3214.4	3343.2	3335.5
57.5°	2594.3	2749.8	2998.8	3090.7	3089.9
60°	2285.2	2481.8	2754.1	2823.6	2754.9
62.5°	1999.2	2210.5	2493.0	2442.3	2207.0
65°	1684.9	1948.5	2212.2	1867.0	1524.3
67.5°	1405.8	1680.6	1879.0	1278.7	1094.9
70°	1125.0	1428.1	1465.1	948.9	936.1
72.5°	875.9	1198.8	1010.8	812.4	853.6
75°	663.0	961.8	707.6	723.9	771.2
77.5°	483.5	738.5	550.5	634.6	673.3
80°	332.3	523.0	449.1	533.3	559.9
82.5°	208.7	345.2	359.8	429.4	456.9
85°	114.2	219.0	280.8	339.2	355.5
87.5°	47.2	132.3	214.7	261.9	275.7
90°	0.9	73.0	145.1	182.1	190.6
92.5°	0.9	55.8	118.5	146.8	152.9
95°	0.9	45.5	99.6	121.1	124.5
97.5°	1.7	36.1	83.3	100.5	103.9
100°	2.6	30.1	69.6	84.2	86.7
102.5°	3.4	24.0	58.4	70.4	73.0
105°	3.4	19.8	48.9	59.3	61.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	12.0	29.2	36.9	38.6
115°	6.9	10.3	24.9	31.8	33.5
117.5°	6.9	8.6	21.5	26.6	28.3
120°	6.9	7.7	18.9	23.2	24.0
122.5°	6.9	6.9	16.3	20.6	21.5
125°	6.0	6.9	15.5	18.0	18.9
127.5°	6.9	6.9	13.7	16.3	17.2
130°	6.9	7.7	12.0	15.5	15.5
132.5°	7.7	8.6	11.2	14.6	14.6
135°	7.7	8.6	9.4	13.7	14.6
137.5°	8.6	8.6	8.6	12.9	13.7
140°	8.6	8.6	7.7	11.2	12.0
142.5°	7.7	8.6	7.7	10.3	11.2
145°	7.7	8.6	8.6	9.4	10.3
147.5°	8.6	8.6	8.6	8.6	9.4
150°	8.6	8.6	8.6	8.6	8.6
152.5°	8.6	8.6	8.6	8.6	8.6
155°	8.6	9.4	9.4	9.4	8.6
157.5°	8.6	9.4	9.4	9.4	9.4
160°	8.6	9.4	9.4	9.4	9.4
162.5°	9.4	9.4	9.4	9.4	9.4
165°	9.4	9.4	9.4	9.4	9.4
167.5°	9.4	10.3	9.4	9.4	9.4
170°	9.4	9.4	9.4	8.6	8.6
172.5°	9.4	9.4	9.4	8.6	8.6
175°	9.4	9.4	8.6	7.7	7.7
177.5°	10.3	9.4	8.6	7.7	6.9
180°	8.6	8.6	8.6	8.6	8.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.3	16.3	42.1	50.7	52.4
110°	5.2	13.7	35.2	42.9	44.7



(END OF REPORT)