

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: P829915

Luminaire Tested: **OHBL-18HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829915  
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-18HE-N-UNV-L830-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

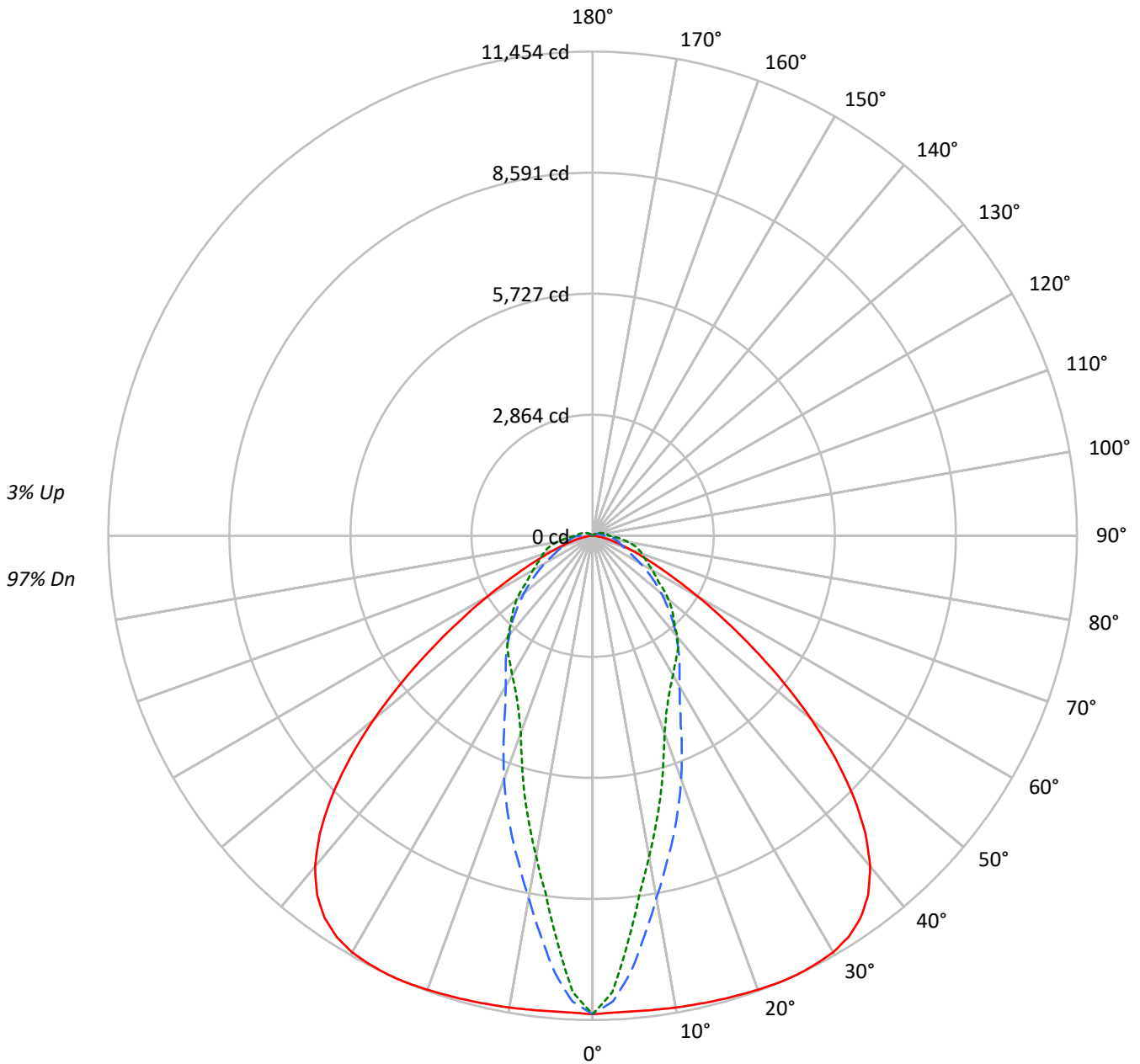
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16700.0 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 103  
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

TEST NUMBER: P829915

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P829915

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD

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

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

	0°	45°	90°
0°	19326	19326	19326
5°	19287	17600	16363
10°	19504	14825	13121
15°	19885	12679	10769
20°	20444	10721	8710
25°	21151	8874	7632
30°	21882	7644	7090
35°	22338	6967	6755
40°	21955	6293	6409
45°	20198	5687	5933
50°	17041	5024	5569
55°	12948	4401	4955
60°	9074	3774	4744
65°	6104	3250	4644
70°	4168	3050	4872
75°	2893	3146	5206
80°	1992	3484	5360
85°	1165	4358	5622



TEST NUMBER: P829915

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	952.5	5.7
10°-20°	2240.7	13.4
20°-30°	2808.7	16.8
30°-40°	2980.3	17.8
40°-50°	2694.7	16.1
50°-60°	1953.8	11.7
60°-70°	1226.1	7.3
70°-80°	811.4	4.9
80°-90°	467.4	2.8
90°-100°	226.5	1.4
100°-110°	156.3	0.9
110°-120°	96.5	0.6
120°-130°	46.7	0.3
130°-140°	21.5	0.1
140°-150°	11.7	0.1
150°-160°	5.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6001.9	35.9
0°-40°	8982.2	53.8
0°-60°	13630.7	81.6
0°-90°	16135.7	96.6
90°-120°	479.3	2.9
90°-150°	559.2	3.3
90°-180°	564.0	3.4
0°-180°	16700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11315	11315	11315	11315	11315	
5°	11292	11003	10357	9876	9628	###
15°	11379	9274	7366	6551	6254	3227
25°	11454	7171	4932	4378	4239	5292
35°	11044	4768	3580	3468	3467	6865
45°	8730	3020	2594	2657	2702	6651
55°	4622	1872	1693	1836	1902	4176
65°	1653	1086	980	1256	1396	1720
75°	510	585	658	1022	1083	569
85°	89	242	481	670	615	107
90°	0	101	279	393	396	6
95°	4	71	246	334	349	4
105°	9	47	179	237	243	9
115°	12	33	121	151	154	12
125°	13	17	61	78	76	11
135°	11	13	27	42	42	8
145°	13	14	16	25	24	8
155°	13	16	17	18	16	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829915

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11315.1	11315.1	11315.1	11315.1	11315.1
2.5°	11291.4	11226.8	11025.5	10902.7	10799.3
5°	11292.5	11002.8	10356.7	9876.4	9627.6
7.5°	11308.7	10664.7	9500.5	8799.5	8525.9
10°	11333.4	10245.8	8701.5	7954.1	7698.9
12.5°	11351.8	9774.1	7998.2	7230.4	6950.4
15°	11378.7	9274.4	7366.1	6550.9	6253.6
17.5°	11403.4	8803.8	6741.5	5889.6	5559.0
20°	11428.2	8296.5	6116.9	5239.2	4966.7
22.5°	11451.9	7761.3	5507.3	4734.1	4547.8
25°	11454.1	7171.2	4932.3	4377.7	4238.7
27.5°	11426.1	6559.5	4466.0	4079.4	3993.2
30°	11377.6	5966.1	4104.1	3864.0	3802.6
32.5°	11257.0	5360.9	3824.1	3656.1	3620.6
35°	11043.8	4767.5	3579.7	3467.7	3466.6
37.5°	10707.8	4240.9	3314.7	3295.4	3319.1
40°	10211.3	3780.0	3063.8	3115.5	3115.5
42.5°	9549.0	3379.4	2836.6	2889.4	2875.4
45°	8730.5	3019.7	2594.3	2656.7	2702.0
47.5°	7781.8	2703.1	2346.6	2467.2	2529.7
50°	6750.1	2401.5	2120.4	2274.4	2345.5
52.5°	5668.9	2122.6	1899.7	2076.3	2133.4
55°	4622.1	1871.7	1692.9	1836.1	1901.8
57.5°	3674.4	1632.6	1490.4	1626.1	1761.8
60°	2859.2	1426.9	1299.8	1493.7	1629.4
62.5°	2184.0	1243.8	1121.1	1369.8	1505.5
65°	1653.1	1085.5	980.0	1255.7	1395.7
67.5°	1246.0	948.8	870.1	1172.8	1309.5
70°	935.8	816.3	781.8	1121.1	1243.8
72.5°	691.4	694.6	711.8	1075.8	1169.5
75°	510.5	584.8	658.0	1022.0	1083.4
77.5°	365.1	484.6	609.5	957.4	978.9
80°	253.1	395.2	558.9	872.3	854.0
82.5°	158.3	316.6	513.7	778.6	728.0
85°	89.4	242.3	481.4	669.8	614.9
87.5°	39.8	180.9	421.1	522.3	487.8
90°	0.0	101.2	278.9	393.1	396.3
92.5°	2.2	84.0	257.4	359.7	370.5
95°	4.3	71.1	245.5	333.8	348.9
97.5°	5.4	62.5	230.5	310.2	323.1
100°	6.5	56.0	212.2	285.4	296.2
102.5°	7.5	51.7	194.9	259.5	268.2
105°	8.6	47.4	178.8	236.9	243.4



TEST NUMBER: P829915

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	36.6	134.6	170.2	175.5
115°	11.8	33.4	120.6	150.8	154.0
117.5°	12.9	29.1	105.5	132.5	133.5
120°	12.9	25.8	90.5	113.1	113.1
122.5°	12.9	21.5	75.4	93.7	92.6
125°	12.9	17.2	61.4	77.5	76.5
127.5°	11.8	14.0	49.5	64.6	63.5
130°	11.8	14.0	39.8	54.9	54.9
132.5°	10.8	12.9	32.3	47.4	47.4
135°	10.8	12.9	26.9	42.0	42.0
137.5°	10.8	14.0	22.6	36.6	36.6
140°	10.8	12.9	19.4	32.3	32.3
142.5°	11.8	12.9	17.2	28.0	28.0
145°	12.9	14.0	16.2	24.8	23.7
147.5°	12.9	15.1	16.2	21.5	20.5
150°	12.9	16.2	16.2	19.4	18.3
152.5°	12.9	16.2	16.2	18.3	17.2
155°	12.9	16.2	17.2	18.3	16.2
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°	8.6	44.2	163.7	212.2	219.7
110°	9.7	39.8	149.7	189.5	197.1



(END OF REPORT)