

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: P829927

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-NL-UNV-L830-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

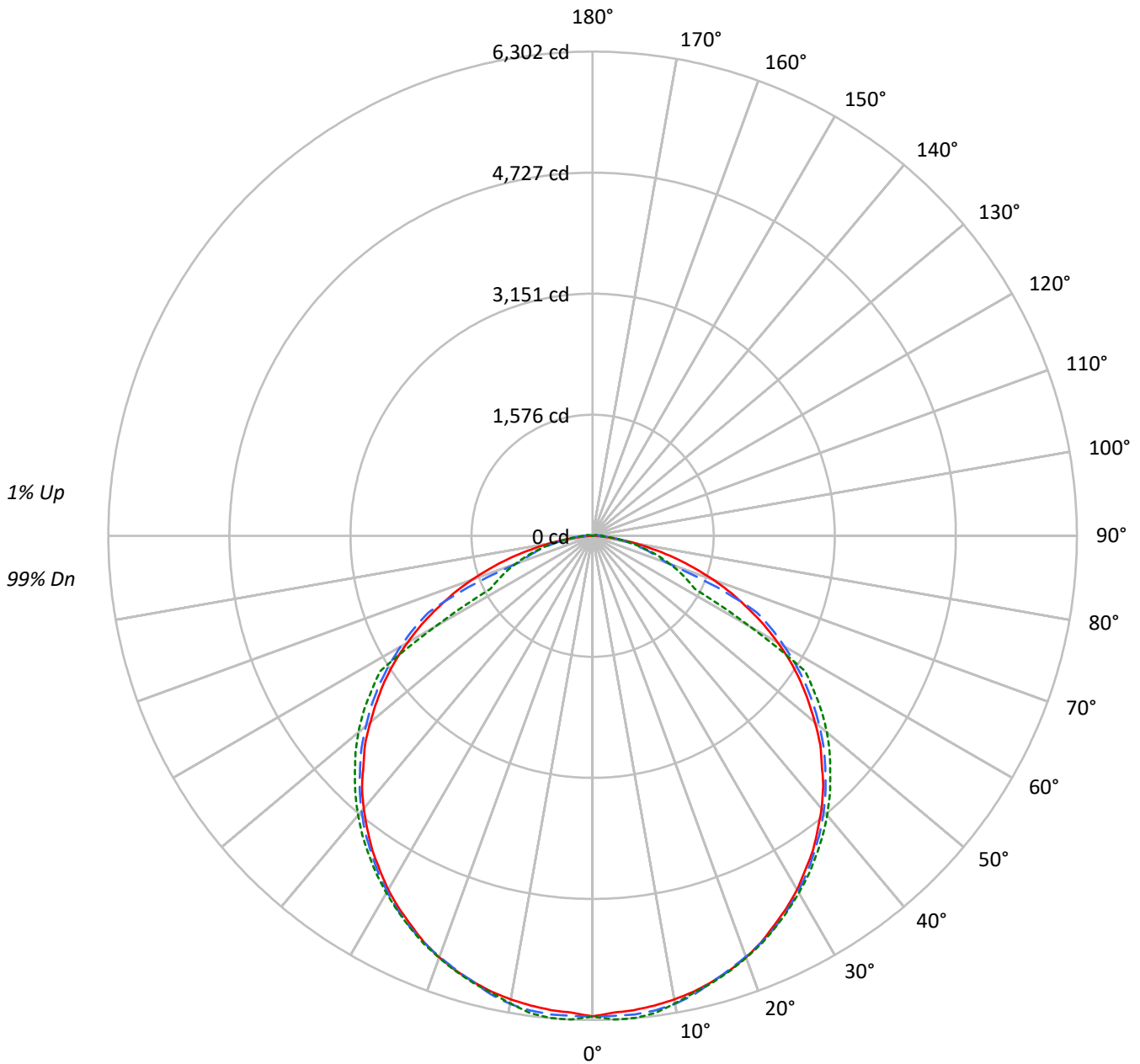
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17564.0 lumens  
Efficiency: N/A  
Efficacy: 170.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 103  
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

TEST NUMBER: P829927

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

### Luminous Intensity Polar Plot





TEST NUMBER: P829927

CATALOG NUMBER: OHBL-18HE-NL-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	10685	10685	10685
5°	10626	10722	10803
10°	10629	10730	10716
15°	10627	10625	10648
20°	10612	10596	10622
25°	10540	10594	10602
30°	10491	10545	10586
35°	10423	10480	10579
40°	10333	10431	10585
45°	10184	10338	10563
50°	10031	10235	10573
55°	9839	10094	10457
60°	9509	9847	8141
65°	8997	9520	5479
70°	8321	5054	5317
75°	7258	4803	5078
80°	5582	4406	4653
85°	2818	4452	4560



TEST NUMBER: P829927

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.3	3.4
10°-20°	1701.7	9.7
20°-30°	2589.3	14.7
30°-40°	3148.3	17.9
40°-50°	3310.2	18.8
50°-60°	3022.6	17.2
60°-70°	1937.7	11.0
70°-80°	915.3	5.2
80°-90°	253.8	1.4
90°-100°	67.2	0.4
100°-110°	18.4	0.1
110°-120°	5.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4885.4	27.8
0°-40°	8033.6	45.7
0°-60°	14366.5	81.8
0°-90°	17473.3	99.5
90°-120°	90.7	0.5
90°-150°	90.7	0.5
90°-180°	91.0	0.5
0°-180°	17564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6256	6256	6256	6256	6256	
5°	6198	6222	6254	6288	6301	589
15°	6010	6055	6009	6018	6022	1697
25°	5593	5602	5621	5630	5626	2581
35°	4999	4969	5026	5088	5074	3124
45°	4216	4209	4280	4381	4373	3259
55°	3304	3279	3390	3503	3512	2947
65°	2226	2226	2356	1351	1356	2207
75°	1100	1121	728	766	770	1159
85°	144	182	227	246	233	213
90°	0	62	101	120	118	6
95°	3	32	72	98	98	2
105°	6	12	18	18	16	6
115°	6	8	11	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829927

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6255.8	6255.8	6255.8	6255.8	6255.8
2.5°	6211.9	6232.8	6255.8	6285.5	6301.9
5°	6197.6	6221.8	6253.6	6287.7	6300.8
7.5°	6166.9	6200.9	6231.7	6255.8	6263.5
10°	6128.5	6169.1	6186.7	6184.5	6179.0
12.5°	6076.9	6119.8	6114.3	6089.0	6093.4
15°	6009.9	6054.9	6008.9	6017.6	6022.0
17.5°	5930.9	5974.8	5921.0	5938.6	5939.7
20°	5838.7	5871.6	5829.9	5844.2	5844.2
22.5°	5727.9	5750.9	5733.3	5743.2	5745.4
25°	5592.8	5601.5	5621.3	5630.1	5625.7
27.5°	5463.4	5452.3	5490.8	5511.6	5500.6
30°	5319.5	5301.9	5346.9	5381.0	5367.8
32.5°	5154.8	5143.9	5195.5	5236.0	5228.4
35°	4999.0	4969.3	5026.4	5087.9	5073.6
37.5°	4814.5	4797.0	4861.7	4926.6	4918.9
40°	4634.5	4604.9	4678.4	4755.3	4747.6
42.5°	4441.3	4406.1	4486.3	4578.6	4569.8
45°	4216.2	4208.6	4279.9	4380.9	4373.2
47.5°	4016.6	3978.1	4077.9	4175.7	4184.5
50°	3775.0	3760.8	3851.9	3970.4	3979.2
52.5°	3539.0	3529.2	3624.6	3744.3	3759.6
55°	3304.0	3278.8	3389.7	3502.8	3511.6
57.5°	3052.8	3026.4	3139.5	3262.4	3281.0
60°	2783.7	2758.5	2882.5	2996.8	2383.1
62.5°	2514.8	2497.3	2626.9	1860.6	1499.5
65°	2226.1	2226.1	2355.6	1351.3	1355.7
67.5°	1956.2	1938.6	1756.4	1214.0	1214.0
70°	1666.3	1672.9	1012.0	1063.7	1064.8
72.5°	1375.4	1399.6	873.8	915.4	917.6
75°	1099.9	1120.8	727.8	766.2	769.5
77.5°	807.9	621.3	585.0	614.8	615.8
80°	567.5	391.9	447.9	476.4	473.1
82.5°	331.5	274.4	328.2	349.1	348.0
85°	143.8	182.2	227.2	245.9	232.7
87.5°	46.0	113.1	141.6	152.6	151.4
90°	0.0	61.5	101.0	119.6	117.5
92.5°	0.0	48.2	87.9	109.8	110.9
95°	3.3	31.8	72.5	97.7	97.7
97.5°	2.2	23.0	51.6	76.8	79.0
100°	2.2	18.6	34.1	54.9	56.0
102.5°	5.5	15.3	20.8	35.1	36.3
105°	5.5	12.1	17.5	17.5	16.5



TEST NUMBER: P829927

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	8.8	12.1	8.8	1.0
115°	5.5	7.7	10.9	7.7	1.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.5	10.9	15.3	9.9	3.3
110°	6.6	9.9	13.1	8.8	1.0



(END OF REPORT)