

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: P826503

Luminaire Tested: **OHBL-18HE-NL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826503  
REPORT IS A COMBINATION OF REPORTS P826063 AND G3-2310-221-12  
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-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

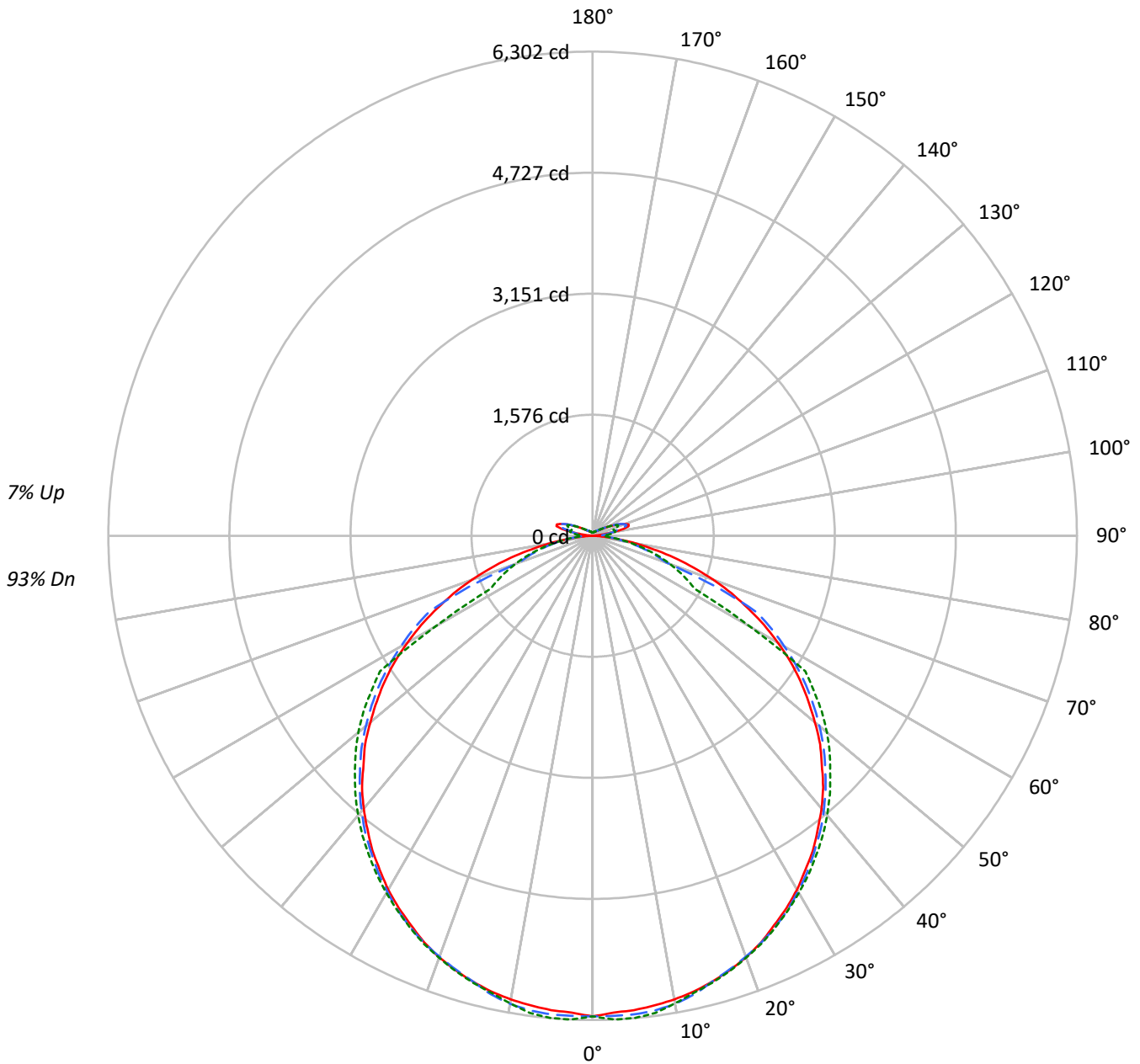
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18722.2 lumens  
Efficiency: N/A  
Efficacy: 168.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 111.4  
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: P826503

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P826503

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL12

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	10685	10685	10685
5°	10570	10665	10778
10°	10517	10615	10666
15°	10458	10454	10573
20°	10385	10365	10521
25°	10253	10300	10472
30°	10139	10185	10427
35°	10003	10050	10386
40°	9838	9922	10355
45°	9607	9742	10291
50°	9361	9540	10250
55°	9062	9283	10076
60°	8614	8904	7784
65°	7971	8416	5185
70°	7144	4327	4957
75°	5930	3910	4622
80°	4165	3271	4046
85°	1672	2621	3500



TEST NUMBER: P826503

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.3	3.2
10°-20°	1701.7	9.1
20°-30°	2589.2	13.8
30°-40°	3148.1	16.8
40°-50°	3310.1	17.7
50°-60°	3022.5	16.1
60°-70°	1937.6	10.3
70°-80°	915.3	4.9
80°-90°	256.7	1.4
90°-100°	177.9	1.0
100°-110°	403.6	2.2
110°-120°	335.9	1.8
120°-130°	158.6	0.8
130°-140°	79.3	0.4
140°-150°	46.1	0.2
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	4885.2	26.1
0°-40°	8033.3	42.9
0°-60°	14365.9	76.7
0°-90°	17475.5	93.3
90°-120°	917.5	4.9
90°-150°	1201.5	6.4
90°-180°	1247.0	6.7
0°-180°	18722.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6256	6256	6256	6256	6256	
5°	6197	6222	6253	6288	6301	589
15°	6010	6055	6009	6017	6022	1697
25°	5593	5601	5621	5630	5626	2581
35°	4999	4969	5026	5088	5073	3124
45°	4216	4208	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°	3	78	123	148	150	8
95°	26	86	152	206	222	78
105°	487	488	423	305	281	461
115°	340	343	347	341	329	339
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826503

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	6211.6	6232.6	6255.6	6285.3	6301.6
5°	6197.4	6221.5	6253.4	6287.5	6300.6
7.5°	6166.7	6200.7	6231.5	6255.6	6263.3
10°	6128.3	6168.9	6186.4	6184.3	6178.8
12.5°	6076.6	6119.5	6114.0	6088.7	6093.1
15°	6009.7	6054.7	6008.7	6017.3	6021.8
17.5°	5930.7	5974.6	5920.8	5938.3	5939.5
20°	5838.5	5871.4	5829.7	5844.0	5844.0
22.5°	5727.7	5750.6	5733.2	5743.0	5745.2
25°	5592.6	5601.3	5621.1	5630.0	5625.5
27.5°	5463.1	5452.1	5490.6	5511.4	5500.3
30°	5319.2	5301.7	5346.7	5380.8	5367.6
32.5°	5154.6	5143.6	5195.3	5235.9	5228.1
35°	4998.8	4969.2	5026.2	5087.6	5073.4
37.5°	4814.3	4796.8	4861.5	4926.4	4918.7
40°	4634.4	4604.7	4678.3	4755.0	4747.4
42.5°	4441.2	4406.0	4486.1	4578.4	4569.6
45°	4216.1	4208.4	4279.7	4380.8	4373.1
47.5°	4016.4	3977.9	4077.8	4175.5	4184.3
50°	3774.8	3760.7	3851.8	3970.3	3979.0
52.5°	3538.9	3529.0	3624.4	3744.1	3759.4
55°	3303.9	3278.7	3389.5	3502.6	3511.5
57.5°	3052.7	3026.3	3139.3	3262.3	3281.0
60°	2783.7	2758.4	2882.4	2996.7	2383.1
62.5°	2514.7	2497.1	2626.8	1860.6	1499.5
65°	2226.1	2226.1	2355.5	1351.2	1355.6
67.5°	1956.1	1938.5	1756.3	1213.9	1213.9
70°	1666.3	1672.9	1012.0	1063.7	1064.7
72.5°	1375.4	1399.6	873.8	915.4	917.6
75°	1099.8	1120.8	727.7	766.2	769.5
77.5°	807.9	621.2	585.0	614.7	615.8
80°	567.5	391.9	447.9	476.4	473.1
82.5°	331.5	274.4	328.2	349.1	347.9
85°	143.8	182.2	227.2	245.9	232.6
87.5°	46.1	113.1	141.5	152.6	151.4
90°	2.8	78.3	123.3	148.4	150.1
92.5°	8.4	69.6	123.2	160.1	165.7
95°	26.5	85.8	152.5	205.7	222.4
97.5°	127.9	159.8	206.0	259.2	270.7
100°	259.1	295.0	263.9	294.9	300.8
102.5°	414.0	418.3	314.9	301.2	297.8
105°	486.6	487.6	423.3	305.1	280.7



TEST NUMBER: P826503

CATALOG NUMBER: OHBL-18HE-NL-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	395.6	400.6	401.1	382.9	359.3
115°	340.5	342.6	346.8	340.8	328.6
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	489.4	496.6	463.0	357.0	290.8
110°	449.6	459.3	442.1	399.7	344.4



(END OF REPORT)