

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: P827701

Luminaire Tested: **OHBL-18HE-N-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827701  
REPORT IS A COMBINATION OF REPORTS P826158 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

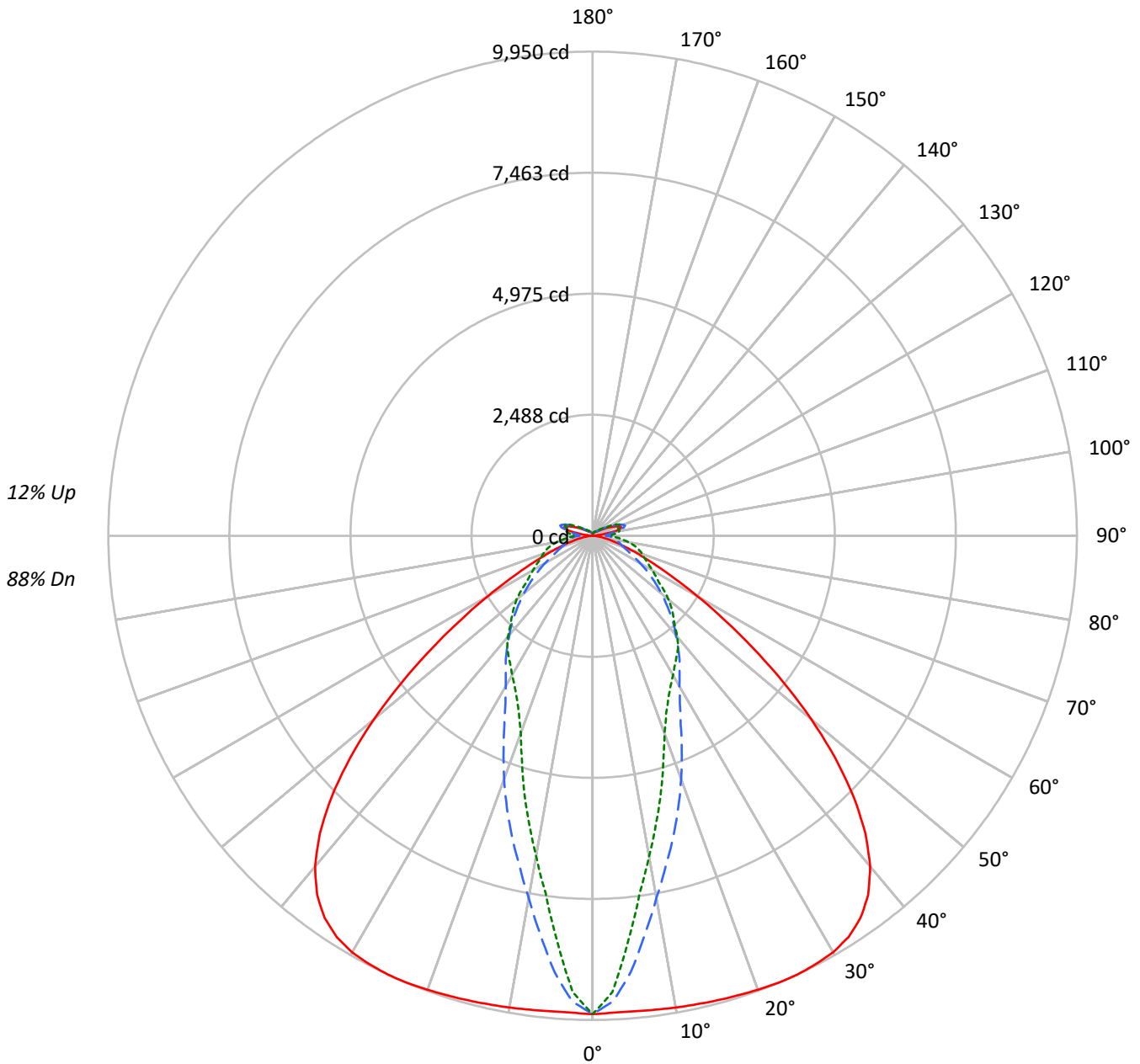
Lumens per Lamp: N/A  
Luminaire Lumens: 15954.0 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	65																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	55	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	49	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	39	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

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

	0°	45°	90°
0°	16788	16788	16788
5°	16673	15289	14284
10°	16779	12878	11510
15°	17022	11014	9494
20°	17411	9313	7718
25°	17916	7708	6799
30°	18429	6641	6353
35°	18694	6052	6091
40°	18246	5467	5819
45°	16654	4940	5430
50°	13921	4364	5144
55°	10462	3823	4628
60°	7232	3279	4492
65°	4779	2823	4477
70°	3184	2650	4813
75°	2131	2733	5333
80°	1380	3027	5838
85°	710	3786	6960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	5.2
10°-20°	1946.5	12.2
20°-30°	2439.9	15.3
30°-40°	2589.0	16.2
40°-50°	2340.9	14.7
50°-60°	1697.3	10.6
60°-70°	1065.1	6.7
70°-80°	704.9	4.4
80°-90°	409.7	2.6
90°-100°	335.1	2.1
100°-110°	616.5	3.9
110°-120°	496.8	3.1
120°-130°	238.9	1.5
130°-140°	117.7	0.7
140°-150°	67.7	0.4
150°-160°	38.0	0.2
160°-170°	17.4	0.1
170°-180°	5.3	0.0
0°-30°	5213.8	32.7
0°-40°	7802.8	48.9
0°-60°	11840.9	74.2
0°-90°	14020.6	87.9
90°-120°	1448.3	9.1
90°-150°	1872.7	11.7
90°-180°	1933.0	12.1
0°-180°	15954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9829	9829	9829	9829	9829	
5°	9810	9558	8997	8580	8363	938
15°	9884	8057	6399	5691	5432	2803
25°	9950	6230	4285	3803	3682	4597
35°	9594	4142	3110	3012	3011	5964
45°	7584	2623	2254	2308	2347	5778
55°	4015	1626	1471	1595	1652	3628
65°	1436	943	851	1091	1212	1494
75°	444	508	572	888	941	494
85°	78	210	418	582	534	93
90°	3	108	270	378	385	7
95°	34	128	318	425	458	100
105°	606	634	661	562	540	576
115°	425	448	524	545	547	428
125°	213	227	271	284	282	200
135°	129	133	150	164	165	102
145°	98	101	105	114	113	62
155°	81	85	87	89	87	36
165°	60	61	61	61	61	17
175°	54	54	55	55	55	5
180°	54	54	54	54	54	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9829.3	9829.3	9829.3	9829.3	9829.3
2.5°	9808.8	9752.6	9577.7	9471.1	9381.3
5°	9809.7	9558.1	8996.8	8579.6	8363.4
7.5°	9823.8	9264.3	8253.1	7644.0	7406.4
10°	9845.3	8900.4	7558.9	6909.6	6687.9
12.5°	9861.2	8490.7	6948.0	6281.0	6037.8
15°	9884.5	8056.6	6398.8	5690.7	5432.5
17.5°	9906.1	7647.8	5856.3	5116.3	4829.1
20°	9927.6	7207.2	5313.7	4551.2	4314.6
22.5°	9948.2	6742.2	4784.2	4112.5	3950.6
25°	9950.0	6229.5	4284.7	3802.8	3682.1
27.5°	9925.8	5698.2	3879.5	3543.7	3468.9
30°	9883.7	5182.7	3565.2	3356.6	3303.3
32.5°	9778.9	4657.0	3322.0	3176.0	3145.1
35°	9593.6	4141.5	3109.7	3012.3	3011.4
37.5°	9301.7	3684.1	2879.5	2862.6	2883.2
40°	8870.5	3283.6	2661.5	2706.5	2706.5
42.5°	8295.1	2935.6	2464.1	2510.0	2497.8
45°	7584.2	2623.1	2253.6	2307.9	2347.2
47.5°	6760.0	2348.1	2038.5	2143.2	2197.5
50°	5863.7	2086.1	1842.0	1975.8	2037.6
52.5°	4924.5	1843.9	1650.2	1803.6	1853.3
55°	4015.2	1625.9	1470.6	1595.0	1652.1
57.5°	3191.9	1418.2	1294.7	1412.6	1530.5
60°	2483.8	1239.6	1129.2	1297.5	1415.4
62.5°	1897.2	1080.5	973.9	1189.9	1307.8
65°	1436.0	943.0	851.3	1090.8	1212.4
67.5°	1082.4	824.2	755.9	1018.7	1137.6
70°	812.9	709.2	679.2	973.9	1080.5
72.5°	600.6	603.4	618.4	934.6	1016.0
75°	443.5	508.0	571.6	887.8	941.1
77.5°	317.1	421.0	529.5	831.7	850.4
80°	219.9	343.3	485.6	757.7	741.9
82.5°	137.5	275.1	446.2	676.3	632.4
85°	77.7	210.5	418.2	581.9	534.1
87.5°	34.6	157.1	365.8	453.7	423.8
90°	3.2	108.2	269.7	377.8	384.7
92.5°	12.4	99.7	268.0	373.9	389.7
95°	34.4	128.0	317.6	425.0	457.5
97.5°	162.3	226.4	392.6	497.4	521.5
100°	330.5	389.8	470.4	547.8	562.0
102.5°	515.0	552.6	536.3	556.9	559.5
105°	606.5	634.5	661.3	562.3	540.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	496.0	521.6	597.1	615.1	599.5
115°	424.9	448.5	523.5	544.8	546.8
117.5°	364.5	380.9	448.9	470.8	472.5
120°	306.3	323.2	382.5	399.7	398.1
122.5°	257.8	272.5	323.3	336.8	334.2
125°	213.3	226.7	270.8	284.0	281.5
127.5°	181.6	190.8	228.9	241.2	238.7
130°	159.0	166.5	193.8	207.7	208.6
132.5°	142.8	147.0	168.7	182.6	184.2
135°	129.0	133.3	149.5	164.2	165.0
137.5°	118.5	123.7	134.4	148.2	149.0
140°	109.6	113.9	121.9	134.7	135.6
142.5°	103.2	106.6	112.8	122.9	123.8
145°	98.5	101.0	105.4	113.7	112.8
147.5°	92.9	96.4	98.9	105.2	104.3
150°	88.0	92.5	94.1	97.6	97.6
152.5°	84.8	88.4	90.0	92.7	91.7
155°	80.8	85.2	86.9	88.7	86.8
157.5°	67.1	67.9	68.7	69.5	69.5
160°	64.7	64.7	65.5	66.3	66.3
162.5°	62.2	62.2	63.0	63.9	63.9
165°	59.8	60.6	60.6	61.4	61.4
167.5°	58.2	58.2	59.0	59.0	59.8
170°	56.6	56.6	57.4	57.4	57.4
172.5°	55.0	55.8	55.8	55.8	55.8
175°	54.2	54.2	55.0	55.0	55.0
177.5°	53.4	54.2	54.2	54.2	54.2
180°	54.2	54.2	54.2	54.2	54.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	612.2	643.0	699.9	617.6	553.8
110°	562.1	594.8	666.0	652.1	602.9



(END OF REPORT)