

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: P826506

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826506  
REPORT IS A COMBINATION OF REPORTS P826064 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-W-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

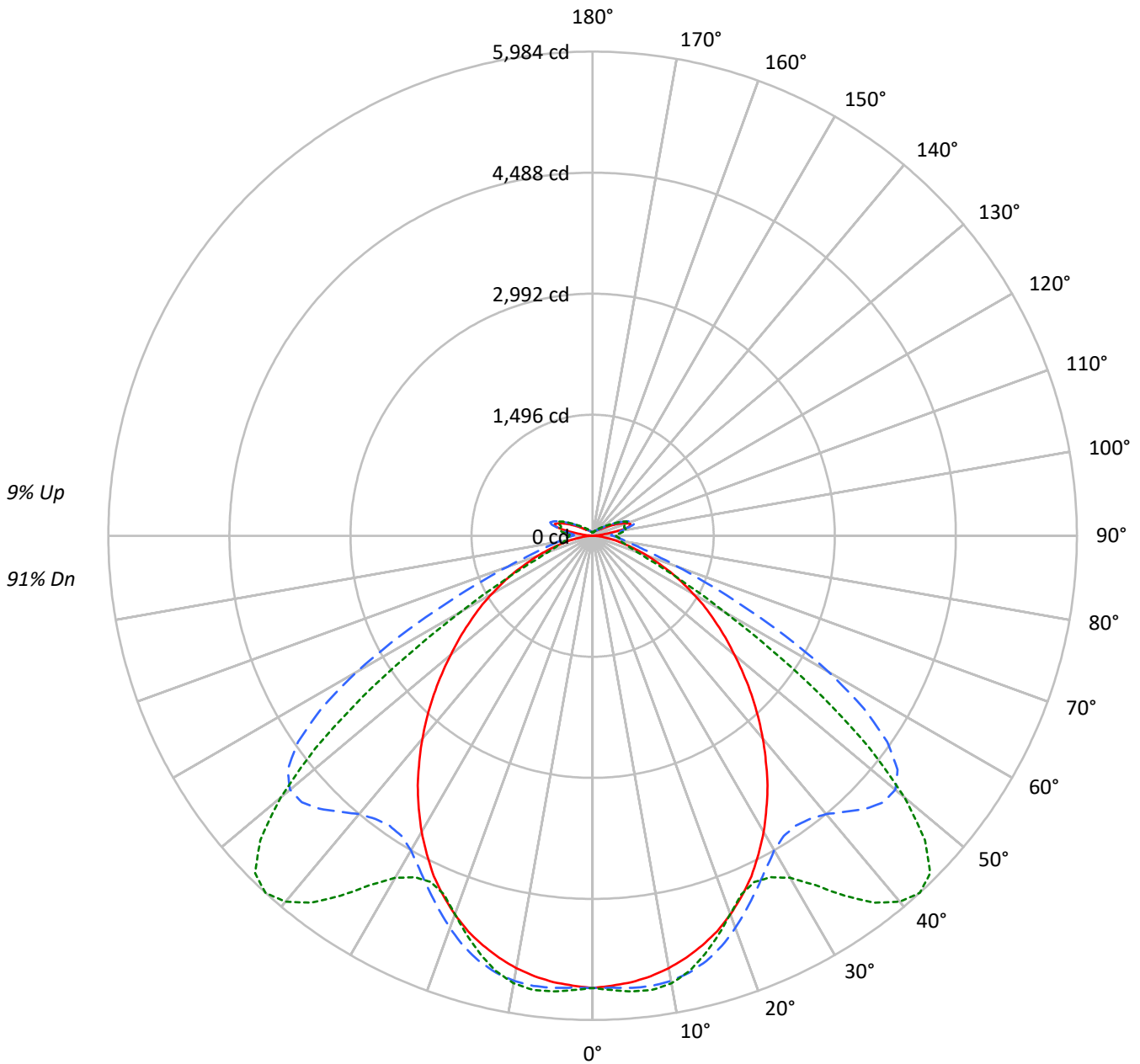
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17894.0 lumens  
Efficiency: N/A  
Efficacy: 160.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 111.4  
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	89	86	84	84	82	80	77																			
2	98	90	83	78	94	87	81	76	82	78	73	78	74	70	74	70	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	46	40	52	45	39	49	43	38	47	42	37	35																			
7	64	51	42	36	62	49	41	35	47	40	35	45	38	34	43	37	33	31																			
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22																			

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

	0°	45°	90°
0°	9546	9546	9546
5°	9412	9533	9655
10°	9248	9518	9666
15°	9023	9361	9357
20°	8732	9039	8898
25°	8359	8650	8720
30°	7881	8360	9384
35°	7343	8514	10981
40°	6730	9221	12694
45°	6093	10460	13645
50°	5434	11566	12698
55°	4814	11551	9702
60°	4185	9772	5932
65°	3527	6747	3593
70°	2797	4362	2594
75°	2051	3125	2405
80°	1384	2744	2714
85°	827	3014	4290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.1	3.0
10°-20°	1512.4	8.5
20°-30°	2213.2	12.4
30°-40°	2874.3	16.1
40°-50°	3509.9	19.6
50°-60°	3091.0	17.3
60°-70°	1610.8	9.0
70°-80°	690.7	3.9
80°-90°	334.7	1.9
90°-100°	266.6	1.5
100°-110°	482.1	2.7
110°-120°	388.1	2.2
120°-130°	189.7	1.1
130°-140°	95.0	0.5
140°-150°	53.7	0.3
150°-160°	29.5	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	4259.8	23.8
0°-40°	7134.1	39.9
0°-60°	13735.0	76.8
0°-90°	16371.1	91.5
90°-120°	1136.7	6.4
90°-150°	1475.1	8.2
90°-180°	1523.0	8.5
0°-180°	17894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5589	5589	5589	5589	5589	
5°	5537	5580	5610	5659	5653	525
15°	5240	5387	5438	5398	5354	1475
25°	4643	4891	4808	4717	4722	2131
35°	3768	4166	4375	5102	5429	2349
45°	2775	3491	4772	5777	5898	2139
55°	1847	3058	4444	3896	3463	1658
65°	1060	2119	2034	1131	973	1049
75°	427	991	654	447	424	465
85°	90	353	333	326	329	101
90°	4	145	242	280	289	8
95°	26	129	255	313	336	78
105°	486	518	519	424	403	460
115°	342	359	406	419	416	342
125°	172	182	215	225	227	160
135°	102	105	121	135	136	81
145°	80	79	81	89	92	50
155°	66	66	65	66	66	29
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5589.2	5589.2	5589.2	5589.2	5589.2
2.5°	5565.1	5589.2	5590.4	5624.2	5620.6
5°	5537.4	5579.6	5609.8	5659.2	5653.1
7.5°	5491.6	5557.8	5611.0	5665.2	5660.4
10°	5426.4	5516.9	5586.8	5631.4	5616.9
12.5°	5342.0	5461.4	5530.1	5539.8	5512.1
15°	5239.5	5386.6	5438.4	5397.5	5354.0
17.5°	5123.7	5296.2	5314.3	5225.1	5170.8
20°	4979.0	5175.6	5157.5	5034.5	4974.2
22.5°	4818.7	5043.0	4985.1	4856.0	4798.1
25°	4642.6	4891.0	4807.8	4717.4	4722.2
27.5°	4436.4	4718.6	4637.8	4678.8	4756.0
30°	4226.6	4537.7	4488.3	4727.0	4879.0
32.5°	3996.3	4352.0	4396.6	4868.1	5116.5
35°	3768.4	4166.3	4374.9	5102.0	5428.9
37.5°	3516.3	3978.2	4409.9	5372.2	5714.6
40°	3271.6	3794.9	4489.5	5614.5	5903.9
42.5°	3021.9	3630.8	4623.3	5758.0	5983.6
45°	2774.7	3491.0	4771.6	5777.4	5898.0
47.5°	2527.5	3372.8	4874.2	5624.2	5568.7
50°	2288.7	3267.9	4881.4	5256.4	5029.7
52.5°	2065.6	3171.4	4748.7	4670.4	4318.2
55°	1847.4	3058.1	4443.7	3896.1	3463.2
57.5°	1648.4	2901.3	3973.4	3064.1	2591.4
60°	1437.4	2689.1	3365.6	2241.7	1869.1
62.5°	1243.2	2425.0	2684.3	1560.4	1343.4
65°	1060.0	2118.7	2034.3	1131.1	973.2
67.5°	865.8	1801.6	1501.4	824.8	723.5
70°	713.9	1507.3	1117.9	641.5	582.4
72.5°	558.3	1227.6	835.6	520.9	488.4
75°	426.8	991.2	653.6	447.4	424.4
77.5°	314.7	783.8	525.8	395.5	373.8
80°	220.6	617.4	440.2	353.3	344.9
82.5°	148.3	477.6	375.0	336.4	337.6
85°	90.4	353.3	332.9	325.6	329.2
87.5°	43.5	250.8	285.8	296.7	300.3
90°	4.0	144.6	241.8	279.6	289.4
92.5°	8.4	119.1	228.3	274.5	285.2
95°	25.7	128.7	254.9	312.9	335.7
97.5°	128.0	198.3	311.3	370.5	383.4
100°	260.5	329.4	369.7	410.1	418.4
102.5°	412.1	449.9	419.5	418.1	415.9
105°	485.9	517.8	519.1	423.8	402.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	396.2	420.7	468.5	470.6	457.2
115°	342.3	359.1	405.9	418.8	415.6
117.5°	289.5	306.4	349.1	360.7	360.0
120°	243.9	259.1	295.9	306.7	307.9
122.5°	206.7	217.4	252.6	263.2	265.3
125°	172.2	182.4	215.1	225.2	227.3
127.5°	144.0	150.8	183.9	195.0	196.2
130°	126.4	130.1	156.4	169.5	171.9
132.5°	113.3	116.1	136.7	149.7	153.1
135°	102.2	105.0	120.7	134.9	136.1
137.5°	94.7	96.6	107.8	120.8	124.1
140°	87.3	90.1	96.8	109.7	110.9
142.5°	82.9	83.6	89.1	99.6	101.7
145°	79.5	78.9	81.1	89.1	92.5
147.5°	74.8	75.5	77.3	82.2	84.3
150°	72.0	73.0	71.5	74.8	77.2
152.5°	68.3	69.2	67.7	68.7	71.1
155°	65.5	66.4	65.0	65.9	65.9
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°	489.9	523.2	548.9	468.9	411.8
110°	449.0	482.0	518.2	499.3	454.3



(END OF REPORT)