

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: P826492

Luminaire Tested: **OHBL-18HE-A-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826492  
REPORT IS A COMBINATION OF REPORTS P826155 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-A-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

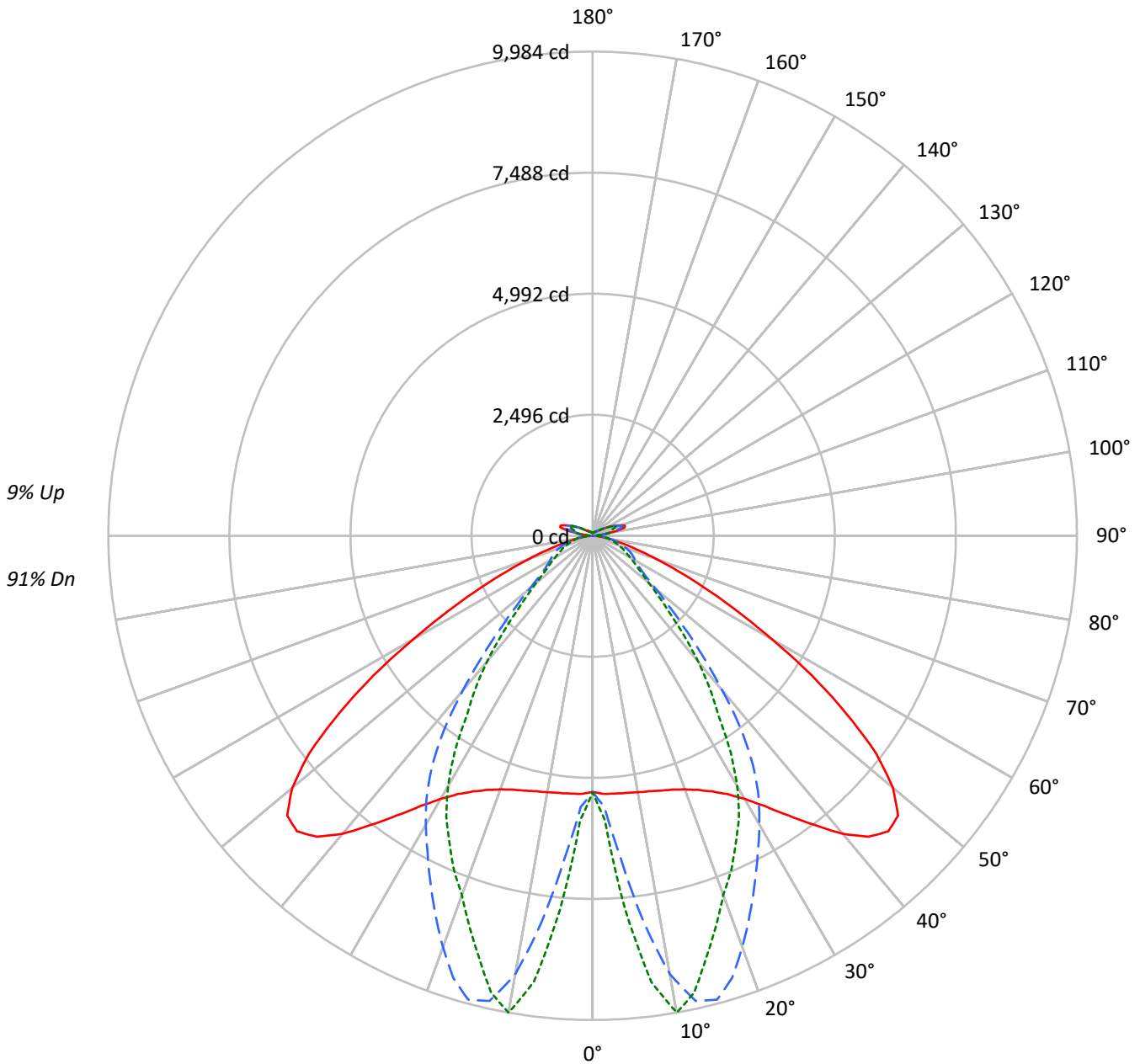
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18620.3 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 115.3  
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

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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	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	70																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	43	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

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

	0°	45°	90°
0°	9024	9024	9024
5°	9070	11350	13229
10°	9151	15648	17183
15°	9369	17046	15771
20°	9756	15817	14094
25°	10468	14225	12892
30°	11673	12808	11464
35°	13722	11210	9135
40°	16500	8537	7270
45°	18927	5816	5175
50°	19188	3990	3827
55°	16609	3140	3127
60°	12406	2938	2813
65°	8504	2947	2664
70°	5437	2843	2581
75°	3270	2631	2469
80°	1924	2312	2547
85°	925	1985	2362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.8	3.7
10°-20°	2434.5	13.1
20°-30°	3587.4	19.3
30°-40°	3769.8	20.2
40°-50°	2884.6	15.5
50°-60°	1741.9	9.4
60°-70°	1062.9	5.7
70°-80°	580.2	3.1
80°-90°	207.8	1.1
90°-100°	159.3	0.9
100°-110°	553.3	3.0
110°-120°	475.4	2.6
120°-130°	228.3	1.2
130°-140°	114.0	0.6
140°-150°	66.2	0.4
150°-160°	38.6	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	6711.7	36.0
0°-40°	10481.6	56.3
0°-60°	15108.0	81.1
0°-90°	16958.9	91.1
90°-120°	1188.1	6.4
90°-150°	1596.6	8.6
90°-180°	1661.0	8.9
0°-180°	18620.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5284	5284	5284	5284	5284	
5°	5337	5725	6679	7458	7746	510
15°	5441	8474	9904	9241	9024	1547
25°	5814	9835	7907	7158	6982	2717
35°	7042	7876	5760	4797	4516	4467
45°	8619	4494	2653	2335	2237	6512
55°	6374	1524	1208	1120	1116	5633
65°	2556	965	889	760	722	2618
75°	680	600	550	454	436	783
85°	101	186	219	200	181	125
90°	4	23	32	42	46	8
95°	35	76	120	155	178	111
105°	690	683	582	410	379	654
115°	477	483	482	476	476	482
125°	233	244	250	249	248	219
135°	138	140	145	147	148	109
145°	100	102	105	106	106	64
155°	80	82	83	84	84	38
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P826492

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5283.5	5283.5	5283.5	5283.5	5283.5
2.5°	5326.9	5381.2	5595.5	5818.0	5872.2
5°	5336.6	5725.3	6679.0	7457.7	7745.5
7.5°	5347.9	6282.9	8021.4	8974.7	9280.0
10°	5369.4	6988.0	9184.6	9869.0	9984.4
12.5°	5396.2	7735.1	9824.6	9799.7	9654.2
15°	5440.6	8473.8	9903.5	9241.4	9024.2
17.5°	5487.2	9099.0	9559.6	8633.8	8444.6
20°	5563.1	9562.9	9024.6	8093.7	7878.6
22.5°	5672.6	9818.1	8463.7	7605.2	7464.9
25°	5813.7	9834.6	7906.6	7158.2	6981.5
27.5°	6002.9	9606.5	7372.5	6720.2	6533.5
30°	6260.3	9169.6	6876.3	6192.1	5960.6
32.5°	6609.9	8540.9	6364.7	5554.5	5294.9
35°	7042.2	7875.7	5760.0	4796.9	4516.4
37.5°	7513.9	7137.1	5026.2	4126.0	3962.7
40°	8021.4	6376.1	4156.4	3498.2	3381.3
42.5°	8417.4	5548.6	3348.4	2907.1	2782.7
45°	8619.3	4493.9	2653.3	2334.8	2236.7
47.5°	8540.6	3488.5	2103.4	1855.2	1825.7
50°	8081.9	2575.9	1683.8	1528.2	1516.0
52.5°	7364.6	1919.9	1390.9	1294.6	1273.6
55°	6374.2	1523.9	1207.9	1119.5	1116.1
57.5°	5351.7	1294.6	1096.4	1027.9	1004.2
60°	4261.0	1154.4	1011.9	934.6	886.4
62.5°	3340.0	1056.3	949.7	844.9	799.8
65°	2555.5	964.7	888.6	760.4	721.6
67.5°	1904.9	877.5	813.9	671.6	648.9
70°	1387.9	788.0	728.6	597.2	579.4
72.5°	989.2	698.8	643.5	527.4	507.7
75°	680.4	599.9	550.3	454.0	435.7
77.5°	459.0	499.2	458.6	387.7	379.9
80°	306.5	395.9	370.9	328.5	323.7
82.5°	186.0	287.3	292.8	267.2	254.2
85°	101.2	186.0	219.3	199.8	181.3
87.5°	39.6	103.1	151.1	135.7	127.8
90°	3.7	23.3	31.6	41.9	46.5
92.5°	12.1	30.7	51.2	70.7	78.2
95°	35.4	76.3	120.0	155.4	177.7
97.5°	181.5	198.2	221.5	262.4	277.3
100°	374.1	392.7	329.4	345.2	350.8
102.5°	585.3	584.4	422.5	381.5	375.9
105°	689.5	683.0	582.5	410.4	378.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	560.2	563.9	552.8	537.9	514.6
115°	477.4	483.0	482.0	476.4	475.5
117.5°	406.7	409.4	411.3	409.4	410.4
120°	339.7	346.2	349.9	347.1	345.2
122.5°	283.8	292.2	296.8	294.1	292.2
125°	232.6	243.8	250.3	249.4	247.5
127.5°	197.3	205.7	214.0	213.1	211.2
130°	171.2	177.7	183.3	184.2	185.2
132.5°	153.5	156.3	161.9	162.8	164.7
135°	137.7	140.5	145.2	147.0	148.0
137.5°	125.6	128.4	132.1	134.0	134.9
140°	115.4	118.2	121.0	122.8	123.8
142.5°	107.0	109.8	112.6	113.5	114.5
145°	100.5	102.4	105.2	106.1	106.1
147.5°	94.0	95.8	97.7	99.6	99.6
150°	88.4	90.3	92.1	93.1	94.0
152.5°	84.7	85.6	87.5	88.4	88.4
155°	80.0	81.9	82.8	83.8	83.8
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	696.1	696.1	642.1	498.8	417.8
110°	637.4	644.9	617.0	561.1	496.9



(END OF REPORT)