

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: P826347

Luminaire Tested: **OHB-18HE-A-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826347  
REPORT IS A COMBINATION OF REPORTS P826023 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: OHB-18HE-A-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

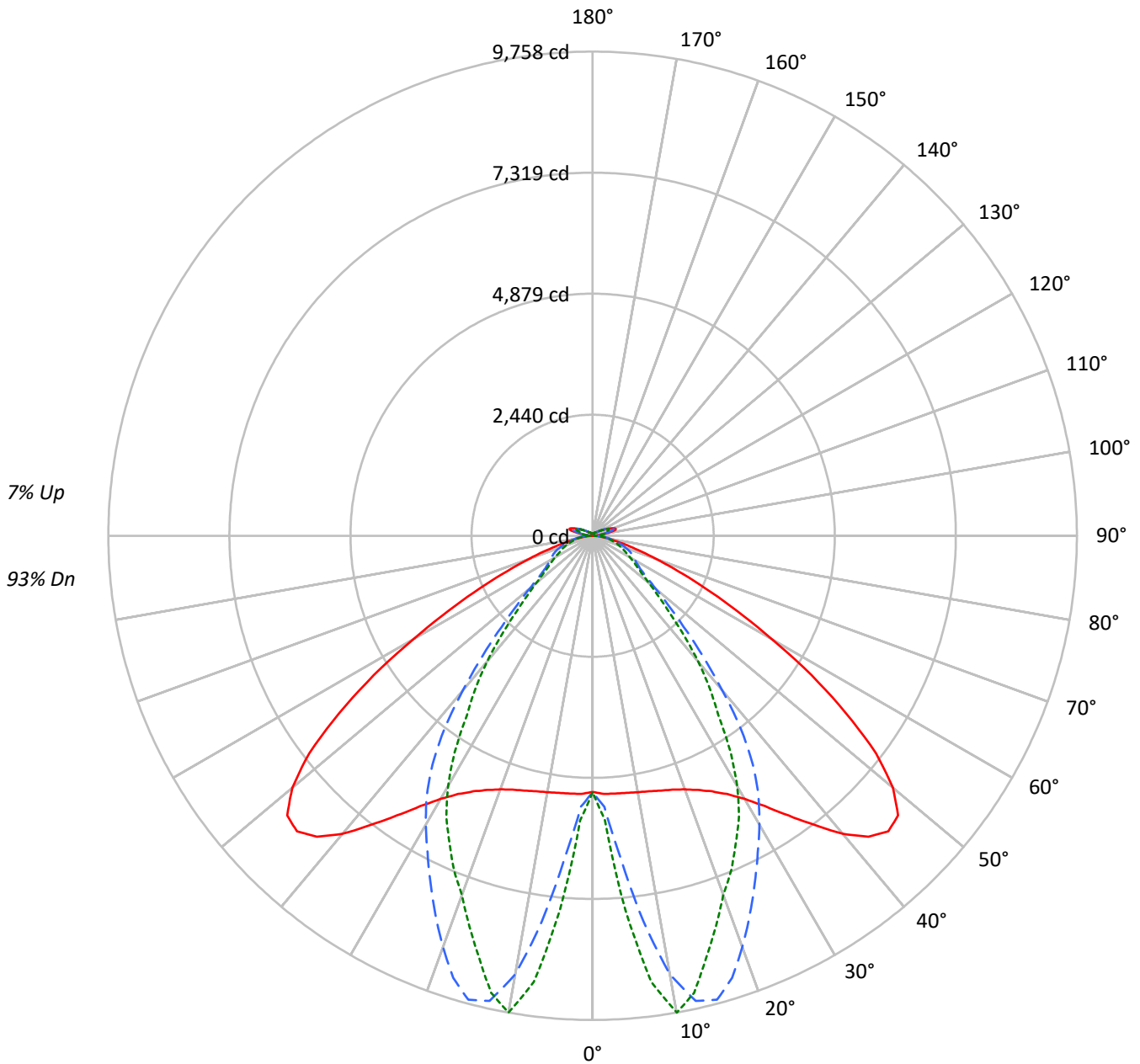
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17729.3 lumens  
Efficiency: N/A  
Efficacy: 156.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
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	114	114	114	114	107	107	107	102	102	102	96	96	96	93																			
1	109	105	101	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82																			
2	101	94	88	83	98	91	86	82	87	83	79	83	79	76	79	76	74	71																			
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63																			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55																			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49																			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44																			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	45	42	40																			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36																			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33																			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30																			

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

	0°	45°	90°
0°	17249	17249	17249
5°	17338	21640	25194
10°	17492	29757	32604
15°	17909	32333	29813
20°	18649	29920	26540
25°	20010	26834	24177
30°	22312	24091	21405
35°	26230	21019	16975
40°	31539	15951	13439
45°	36178	10825	9507
50°	36677	7392	6982
55°	31748	5786	5656
60°	23714	5380	5036
65°	16255	5353	4705
70°	10393	5108	4471
75°	6250	4655	4158
80°	3677	3992	4088
85°	1770	3279	3421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.1	3.8
10°-20°	2379.3	13.4
20°-30°	3506.1	19.8
30°-40°	3684.4	20.8
40°-50°	2819.2	15.9
50°-60°	1702.4	9.6
60°-70°	1038.8	5.9
70°-80°	567.0	3.2
80°-90°	201.9	1.1
90°-100°	110.7	0.6
100°-110°	385.2	2.2
110°-120°	330.9	1.9
120°-130°	158.6	0.9
130°-140°	79.3	0.4
140°-150°	46.1	0.3
150°-160°	26.9	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	6559.6	37.0
0°-40°	10244.0	57.8
0°-60°	14765.6	83.3
0°-90°	16573.4	93.5
90°-120°	826.7	4.7
90°-150°	1110.8	6.3
90°-180°	1156.0	6.5
0°-180°	17729.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5164	5164	5164	5164	5164	
5°	5216	5596	6528	7289	7570	499
15°	5317	8282	9679	9032	8820	1512
25°	5682	9612	7727	6996	6823	2656
35°	6883	7697	5630	4688	4414	4366
45°	8424	4392	2593	2282	2186	6365
55°	6230	1489	1180	1094	1091	5505
65°	2498	943	868	743	705	2559
75°	665	586	538	444	426	765
85°	99	182	214	195	177	122
90°	3	17	22	29	33	7
95°	23	54	80	108	125	76
105°	481	476	406	288	264	455
115°	335	335	336	333	328	335
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5163.7	5163.7	5163.7	5163.7	5163.7
2.5°	5206.1	5259.2	5468.7	5686.2	5739.1
5°	5215.6	5595.6	6527.6	7288.7	7569.9
7.5°	5226.7	6140.6	7839.6	8771.3	9069.7
10°	5247.7	6829.6	8976.4	9645.3	9758.1
12.5°	5273.8	7559.6	9601.9	9577.6	9435.5
15°	5317.2	8281.8	9679.0	9032.0	8819.6
17.5°	5362.9	8892.7	9342.9	8438.1	8253.2
20°	5437.0	9346.2	8820.1	7910.2	7700.1
22.5°	5544.0	9595.5	8271.8	7432.8	7295.7
25°	5682.0	9611.7	7727.3	6995.9	6823.2
27.5°	5866.9	9388.7	7205.4	6567.9	6385.5
30°	6118.4	8961.8	6720.5	6051.8	5825.5
32.5°	6460.0	8347.3	6220.5	5428.6	5174.8
35°	6882.6	7697.2	5629.5	4688.1	4414.0
37.5°	7343.6	6975.4	4912.2	4032.5	3872.9
40°	7839.6	6231.6	4062.2	3418.9	3304.7
42.5°	8226.7	5422.9	3272.6	2841.2	2719.6
45°	8423.9	4392.1	2593.2	2281.8	2186.0
47.5°	8347.1	3409.4	2055.8	1813.1	1784.3
50°	7898.6	2517.4	1645.7	1493.5	1481.6
52.5°	7197.7	1876.4	1359.4	1265.3	1244.7
55°	6229.8	1489.4	1180.4	1094.1	1090.8
57.5°	5230.5	1265.3	1071.5	1004.6	981.4
60°	4164.4	1128.2	988.9	913.4	866.3
62.5°	3264.4	1032.4	928.2	825.7	781.7
65°	2497.5	942.8	868.5	743.1	705.3
67.5°	1861.8	857.6	795.3	656.3	634.2
70°	1356.5	770.1	712.2	583.7	566.2
72.5°	966.8	682.9	628.9	515.5	496.3
75°	665.0	586.3	537.9	443.8	425.8
77.5°	448.6	487.8	448.2	378.8	371.4
80°	299.6	386.8	362.5	321.0	316.4
82.5°	181.8	280.7	286.1	261.1	248.5
85°	99.0	181.8	214.3	195.3	177.2
87.5°	38.7	100.8	147.7	132.6	124.9
90°	2.8	16.8	22.3	28.8	32.6
92.5°	8.4	21.4	35.4	50.2	54.9
95°	23.3	54.0	80.0	107.9	124.7
97.5°	125.6	136.8	154.5	182.4	191.7
100°	256.8	276.4	229.8	240.1	244.7
102.5°	408.5	402.9	294.1	266.1	261.5
105°	481.1	475.5	405.7	287.5	264.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	389.0	391.8	389.0	374.1	358.3
115°	335.0	335.0	335.9	333.1	327.6
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°	483.9	485.8	447.6	347.1	287.5
110°	442.9	449.5	429.0	390.8	343.4



(END OF REPORT)