

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: P826616

Luminaire Tested: **OHBL-48HE-W-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826616  
REPORT IS A COMBINATION OF REPORTS P826256 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-W-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

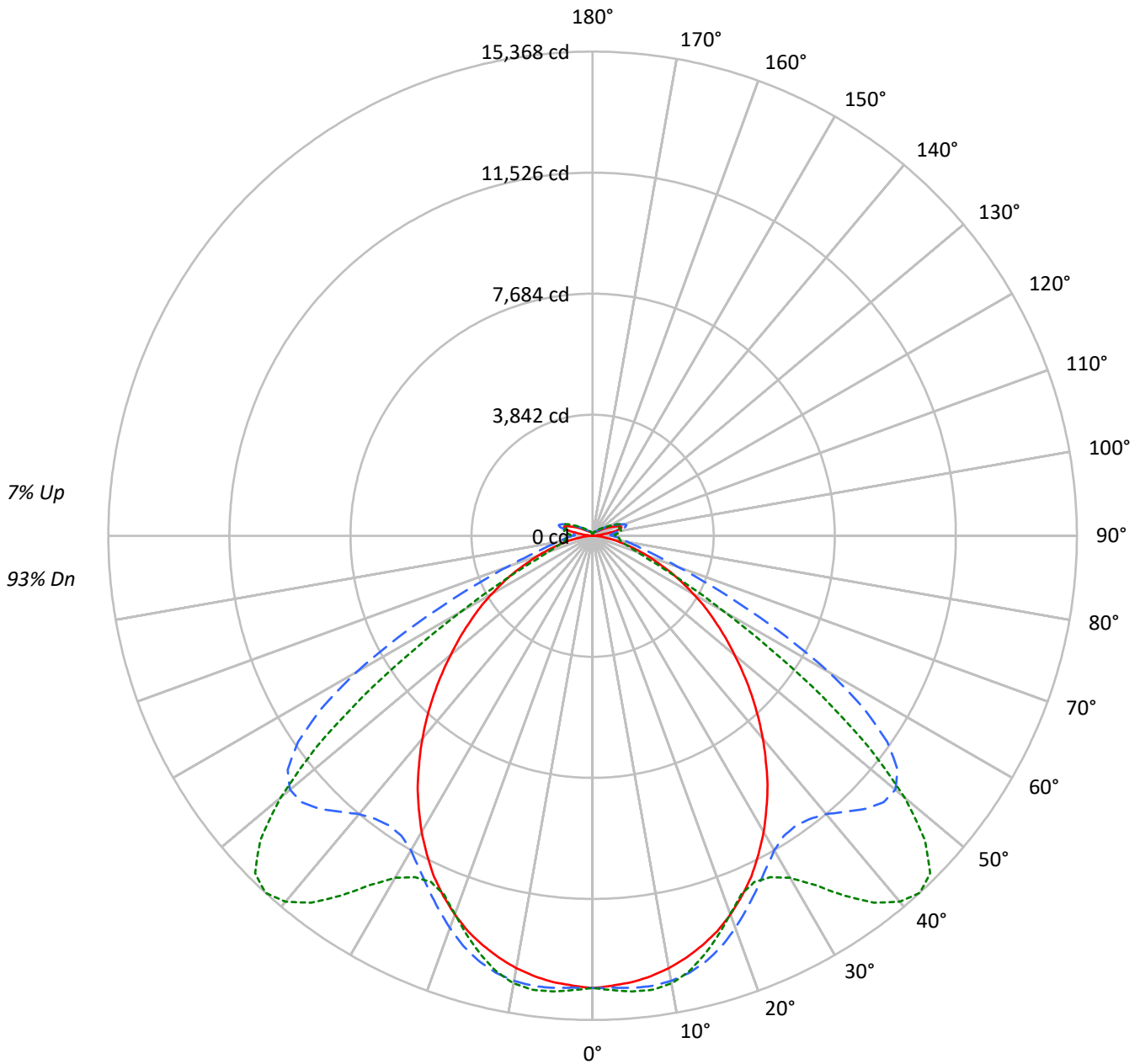
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45233.6 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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

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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	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	22702	22702	22702
5°	22396	22681	22961
10°	22021	22656	22988
15°	21499	22292	22251
20°	20820	21535	21161
25°	19945	20618	20737
30°	18817	19938	22315
35°	17547	20318	26113
40°	16096	22018	30187
45°	14588	24993	32448
50°	13025	27659	30196
55°	11554	27651	23072
60°	10063	23420	14107
65°	8499	16195	8545
70°	6758	10490	6170
75°	4979	7538	5720
80°	3384	6650	6454
85°	2048	7369	10201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1371.8	3.0
10°-20°	3884.5	8.6
20°-30°	5684.3	12.6
30°-40°	7382.2	16.3
40°-50°	9014.6	19.9
50°-60°	7938.8	17.6
60°-70°	4136.9	9.1
70°-80°	1774.1	3.9
80°-90°	857.7	1.9
90°-100°	616.0	1.4
100°-110°	997.8	2.2
110°-120°	789.6	1.7
120°-130°	388.2	0.9
130°-140°	194.4	0.4
140°-150°	108.7	0.2
150°-160°	58.8	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	10940.5	24.2
0°-40°	18322.8	40.5
0°-60°	35276.1	78.0
0°-90°	42044.9	93.0
90°-120°	2403.4	5.3
90°-150°	3094.7	6.8
90°-180°	3189.0	7.1
0°-180°	45233.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14355	14355	14355	14355	14355	
5°	14222	14330	14408	14535	14519	###
15°	13457	13835	13968	13863	13751	3789
25°	11924	12562	12348	12116	12128	5472
35°	9678	10700	11236	13104	13943	6032
45°	7126	8966	12255	14838	15148	5495
55°	4745	7854	11413	10007	8895	4258
65°	2722	5442	5225	2905	2499	2693
75°	1096	2546	1679	1149	1090	1196
85°	232	908	855	836	846	259
90°	8	360	607	702	724	20
95°	56	295	609	739	782	158
105°	946	1032	1077	909	870	899
115°	663	712	830	868	869	669
125°	336	362	443	473	474	314
135°	205	208	246	282	287	162
145°	160	157	163	183	190	100
155°	133	135	130	131	131	58
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14355.0	14355.0	14355.0	14355.0	14355.0
2.5°	14293.1	14355.0	14358.1	14444.8	14435.5
5°	14221.9	14330.3	14407.7	14534.6	14519.2
7.5°	14104.2	14274.4	14410.8	14550.2	14537.7
10°	13936.9	14169.2	14348.8	14463.4	14426.2
12.5°	13720.1	14026.7	14203.3	14228.0	14156.8
15°	13456.9	13834.7	13967.9	13862.6	13751.1
17.5°	13159.5	13602.4	13648.8	13419.7	13280.3
20°	12787.9	13292.7	13246.3	12930.3	12775.5
22.5°	12376.0	12952.0	12803.3	12472.0	12323.3
25°	11923.8	12561.8	12348.1	12115.8	12128.2
27.5°	11394.2	12118.9	11911.4	12016.7	12214.9
30°	10855.3	11654.4	11527.4	12140.6	12530.9
32.5°	10263.7	11177.4	11292.0	12502.9	13140.9
35°	9678.4	10700.5	11236.3	13103.8	13943.1
37.5°	9031.1	10217.3	11326.1	13797.5	14677.1
40°	8402.5	9746.5	11530.4	14420.1	15163.3
42.5°	7761.3	9325.4	11874.3	14788.6	15367.8
45°	7126.4	8966.1	12255.2	14838.2	15147.9
47.5°	6491.5	8662.5	12518.5	14444.8	14302.4
50°	5878.3	8393.1	12537.0	13500.2	12918.0
52.5°	5305.3	8145.3	12196.3	11995.0	11090.6
55°	4744.7	7854.3	11412.8	10006.7	8894.8
57.5°	4233.7	7451.6	10204.9	7869.7	6655.6
60°	3691.7	6906.5	8644.0	5757.5	4800.5
62.5°	3193.1	6228.2	6894.1	4007.6	3450.1
65°	2722.3	5441.6	5224.8	2905.1	2499.4
67.5°	2223.7	4627.1	3855.8	2118.4	1858.2
70°	1833.5	3871.4	2871.0	1647.6	1495.9
72.5°	1434.0	3152.8	2146.3	1338.0	1254.3
75°	1096.4	2545.8	1678.6	1149.0	1090.1
77.5°	808.4	2013.1	1350.3	1015.9	960.1
80°	566.8	1585.7	1130.4	907.5	885.8
82.5°	381.0	1226.5	963.2	864.1	867.2
85°	232.3	907.5	854.8	836.2	845.5
87.5°	111.5	644.2	734.0	761.8	771.2
90°	7.7	359.9	607.4	701.9	723.9
92.5°	15.8	292.8	562.5	670.9	698.6
95°	55.6	295.3	609.1	738.7	782.0
97.5°	256.6	428.7	693.9	835.8	875.8
100°	523.0	681.5	799.4	902.0	919.7
102.5°	803.1	909.9	897.1	905.8	904.5
105°	945.7	1031.5	1076.6	909.2	869.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	770.5	837.4	952.6	974.6	950.9
115°	662.6	712.4	830.1	868.5	869.1
117.5°	572.6	607.6	713.5	749.7	753.8
120°	477.7	512.6	610.8	643.4	640.9
122.5°	404.1	430.8	520.0	552.2	549.7
125°	336.2	362.3	443.1	473.1	473.5
127.5°	284.8	299.9	377.3	409.3	411.4
130°	250.3	257.8	322.8	354.7	361.8
132.5°	224.3	230.8	280.7	315.3	320.6
135°	204.7	208.4	245.9	281.9	286.8
137.5°	188.9	191.7	219.0	252.6	258.9
140°	174.9	178.7	195.7	228.5	232.5
142.5°	165.9	166.6	179.6	206.2	209.3
145°	159.7	157.3	163.1	182.7	189.7
147.5°	151.3	152.0	153.8	168.1	171.1
150°	144.8	146.7	143.3	150.4	157.5
152.5°	138.3	140.1	136.8	137.7	143.9
155°	132.7	134.6	130.3	131.2	131.2
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	952.5	1036.8	1128.4	991.1	883.8
110°	879.9	956.5	1060.2	1038.0	953.1



(END OF REPORT)