

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: P828029

Luminaire Tested: **OHBL-24HE-A-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828029  
REPORT IS A COMBINATION OF REPORTS P826299 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-A-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

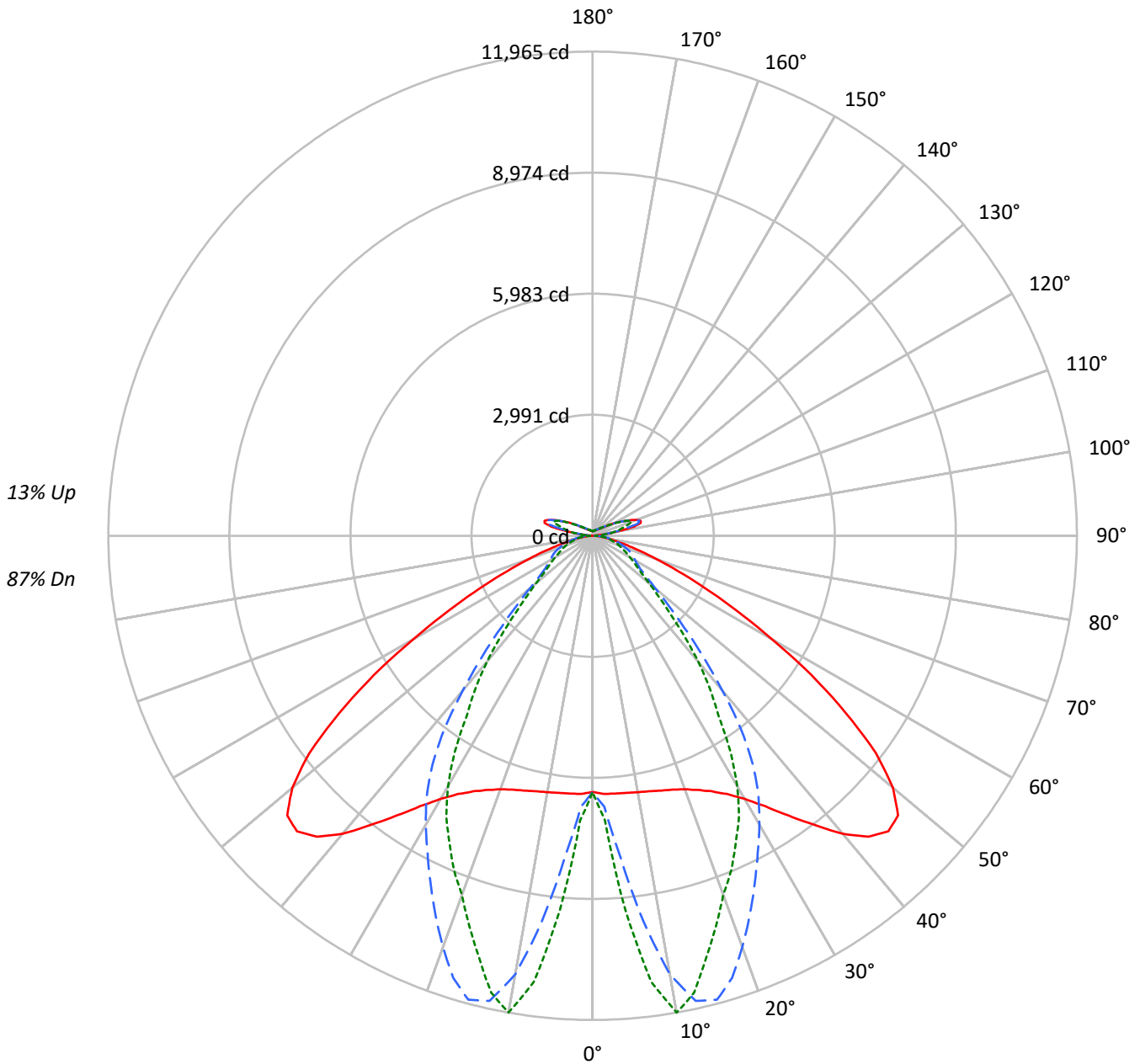
Lumens per Lamp: N/A  
Luminaire Lumens: 23302.6 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
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				20				
RC	80				70				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	90	90	90	87			87
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76			76
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67			67
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58			58
4	85	75	67	61	82	72	66	60	68	63	58	65	60	56	61	57	54	52			52
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46			46
6	73	61	54	48	71	60	53	47	57	51	46	54	49	45	52	47	43	41			41
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	48	43	39	37			37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34			34
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31			31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			28

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

	0°	45°	90°
0°	10013	10013	10013
5°	10071	12599	14678
10°	10167	17378	19066
15°	10416	18940	17499
20°	10854	17582	15638
25°	11654	15820	14305
30°	13004	14252	12720
35°	15300	12481	10136
40°	18413	9511	8067
45°	21143	6485	5741
50°	21459	4452	4247
55°	18601	3507	3469
60°	13918	3285	3121
65°	9561	3300	2957
70°	6131	3190	2863
75°	3702	2961	2739
80°	2193	2614	2827
85°	1069	2266	2621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.6	3.5
10°-20°	2917.4	12.5
20°-30°	4299.0	18.4
30°-40°	4517.5	19.4
40°-50°	3456.7	14.8
50°-60°	2087.3	9.0
60°-70°	1273.7	5.5
70°-80°	695.2	3.0
80°-90°	250.4	1.1
90°-100°	229.3	1.0
100°-110°	1038.4	4.5
110°-120°	859.4	3.7
120°-130°	406.7	1.7
130°-140°	205.9	0.9
140°-150°	120.4	0.5
150°-160°	70.6	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
0°-30°	8042.9	34.5
0°-40°	12560.5	53.9
0°-60°	18104.5	77.7
0°-90°	20323.9	87.2
90°-120°	2127.1	9.1
90°-150°	2860.1	12.3
90°-180°	2979.0	12.8
0°-180°	23302.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6332	6332	6332	6332	6332	
5°	6395	6861	8004	8937	9282	611
15°	6520	10154	11868	11074	10814	1854
25°	6967	11785	9475	8578	8366	3256
35°	8439	9438	6902	5748	5412	5353
45°	10329	5385	3180	2798	2680	7804
55°	7638	1826	1447	1342	1337	6750
65°	3062	1156	1065	911	865	3138
75°	815	719	660	544	522	938
85°	121	223	263	240	217	150
90°	7	41	52	60	61	11
95°	52	103	138	175	188	192
105°	1231	1228	1155	859	776	1170
115°	858	847	853	859	851	868
125°	422	438	448	440	432	398
135°	250	256	262	265	266	198
145°	182	186	190	192	193	116
155°	147	149	152	153	153	69
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6331.5	6331.5	6331.5	6331.5	6331.5
2.5°	6383.3	6448.5	6705.3	6972.0	7036.8
5°	6395.0	6860.9	8003.7	8936.8	9281.7
7.5°	6408.6	7529.1	9612.3	10754.8	11120.6
10°	6434.4	8374.0	11006.2	11826.5	11964.7
12.5°	6466.4	9269.2	11773.2	11743.4	11569.1
15°	6519.7	10154.5	11867.8	11074.4	10814.0
17.5°	6575.6	10903.6	11455.6	10346.2	10119.5
20°	6666.5	11459.7	10814.6	9698.9	9441.3
22.5°	6797.7	11765.4	10142.3	9113.6	8945.5
25°	6966.8	11785.2	9474.7	8577.9	8366.2
27.5°	7193.5	11511.8	8834.8	8053.1	7829.4
30°	7501.9	10988.3	8240.2	7420.2	7142.8
32.5°	7920.8	10234.9	7627.1	6656.2	6345.1
35°	8438.9	9437.8	6902.5	5748.3	5412.2
37.5°	9004.2	8552.7	6023.1	4944.3	4748.6
40°	9612.3	7640.7	4980.8	4192.0	4051.9
42.5°	10086.9	6649.2	4012.6	3483.7	3334.6
45°	10328.8	5385.3	3179.6	2797.8	2680.3
47.5°	10234.7	4180.3	2520.7	2223.1	2187.8
50°	9684.8	3086.8	2017.8	1831.3	1816.7
52.5°	8825.2	2300.8	1666.8	1551.4	1526.2
55°	7638.5	1826.2	1447.4	1341.5	1337.4
57.5°	6413.2	1551.4	1313.8	1231.8	1203.3
60°	5106.2	1383.3	1212.5	1119.9	1062.2
62.5°	4002.5	1265.8	1138.2	1012.4	958.4
65°	3062.3	1156.1	1064.8	911.2	864.8
67.5°	2282.8	1051.5	975.2	804.8	777.6
70°	1663.3	944.3	873.2	715.7	694.2
72.5°	1185.4	837.3	771.1	632.1	608.4
75°	815.3	718.9	659.5	544.1	522.1
77.5°	550.1	598.1	549.5	464.6	455.3
80°	367.3	474.3	444.4	393.7	388.0
82.5°	222.9	344.3	350.8	320.1	304.7
85°	121.3	222.9	262.8	239.5	217.2
87.5°	47.5	123.5	181.1	162.7	153.2
90°	6.7	40.8	52.5	60.0	60.8
92.5°	20.8	50.0	64.2	80.0	85.0
95°	51.7	103.3	137.5	175.0	188.3
97.5°	311.7	335.0	290.8	347.5	367.5
100°	669.2	686.7	532.5	536.7	553.3
102.5°	1048.3	1062.5	840.0	695.0	670.0
105°	1230.8	1228.3	1155.0	859.2	775.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1008.3	1010.8	1001.7	998.3	971.7
115°	858.3	846.7	853.3	859.2	850.8
117.5°	734.2	725.8	732.5	729.2	720.0
120°	617.5	617.5	625.8	614.2	607.5
122.5°	511.7	523.3	529.2	520.8	510.0
125°	422.5	437.5	447.5	440.0	431.7
127.5°	362.5	367.5	379.2	375.0	375.0
130°	311.7	318.3	327.5	329.2	327.5
132.5°	276.7	283.3	291.7	294.2	296.7
135°	250.0	255.8	262.5	265.0	265.8
137.5°	228.3	233.3	238.3	242.5	243.3
140°	210.0	215.0	220.0	223.3	223.3
142.5°	195.0	200.0	204.2	206.7	206.7
145°	181.7	185.8	190.0	192.5	193.3
147.5°	171.7	175.0	179.2	180.0	180.8
150°	162.5	165.0	168.3	170.0	170.8
152.5°	154.2	156.7	160.0	160.8	161.7
155°	146.7	149.2	151.7	153.3	153.3
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1242.5	1245.0	1215.0	1070.0	925.0
110°	1146.7	1157.5	1138.3	1090.8	1025.0



(END OF REPORT)