

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: P827998

Luminaire Tested: **OHBL-18HE-MFL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827998  
REPORT IS A COMBINATION OF REPORTS P826157 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-MFL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

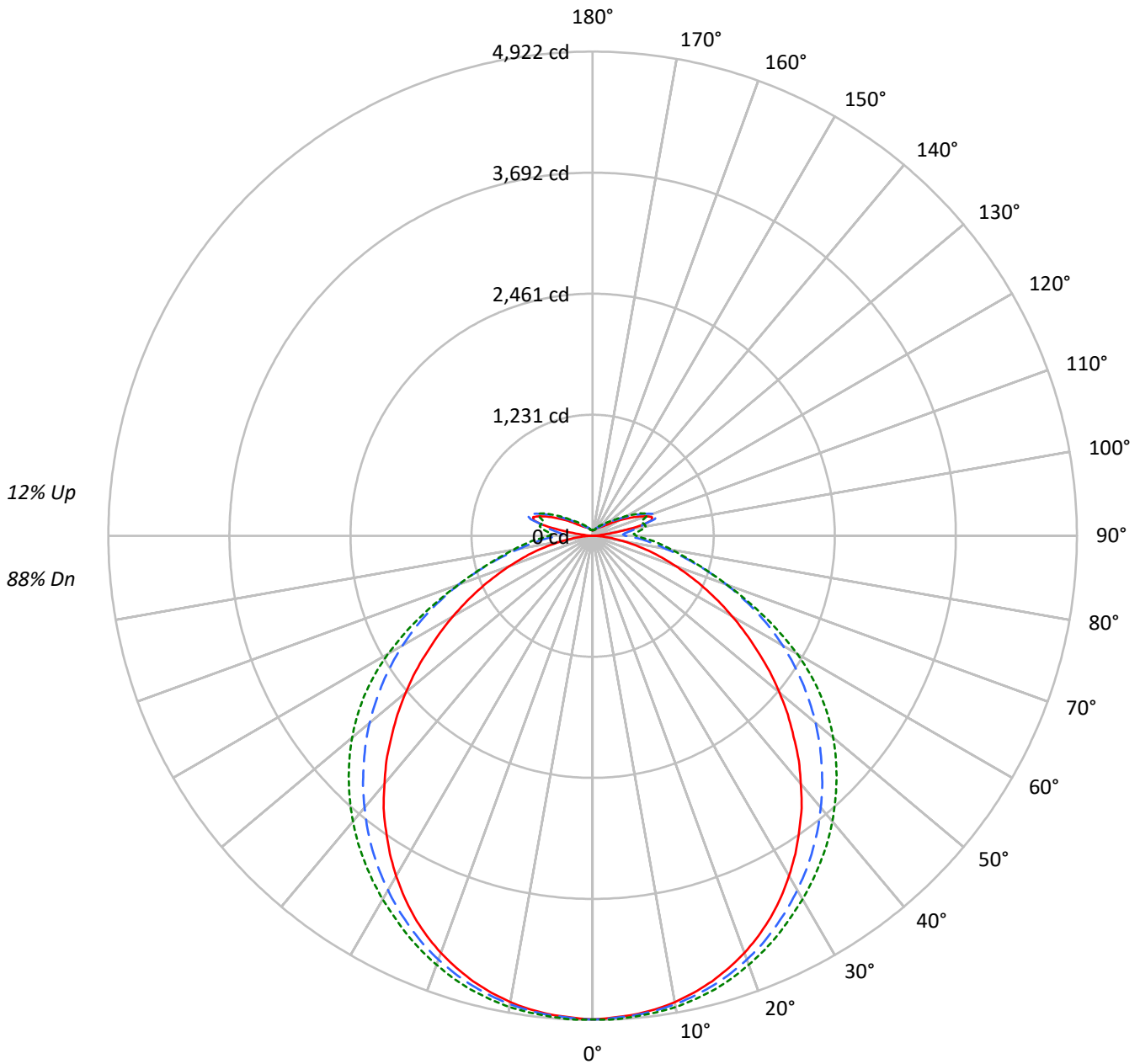
Lumens per Lamp: N/A  
Luminaire Lumens: 16208.3 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	105	101	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72																			
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	41	35	31	29																			
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	29	24	33	28	23	32	27	23	21																			

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

	0°	45°	90°
0°	8399	8399	8399
5°	8304	8315	8380
10°	8206	8238	8371
15°	8074	8147	8349
20°	7913	8036	8301
25°	7710	7898	8254
30°	7445	7749	8207
35°	7134	7591	8176
40°	6768	7408	8151
45°	6345	7210	8110
50°	5886	7009	8057
55°	5334	6763	7933
60°	4769	6475	7620
65°	4157	6107	7056
70°	3498	5639	6454
75°	2828	5098	6138
80°	2016	4696	6430
85°	1123	4837	8061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	2.9
10°-20°	1336.7	8.2
20°-30°	2021.6	12.5
30°-40°	2426.9	15.0
40°-50°	2506.6	15.5
50°-60°	2255.1	13.9
60°-70°	1698.8	10.5
70°-80°	1025.8	6.3
80°-90°	505.4	3.1
90°-100°	353.9	2.2
100°-110°	616.1	3.8
110°-120°	496.5	3.1
120°-130°	244.5	1.5
130°-140°	123.2	0.8
140°-150°	69.5	0.4
150°-160°	38.4	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	3824.2	23.6
0°-40°	6251.1	38.6
0°-60°	11012.8	67.9
0°-90°	14242.8	87.9
90°-120°	1466.4	9.0
90°-150°	1903.7	11.7
90°-180°	1965.0	12.1
0°-180°	16208.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4917	4917	4917	4917	4917	
5°	4886	4899	4893	4912	4906	464
15°	4689	4712	4733	4773	4778	1322
25°	4282	4329	4390	4459	4470	1970
35°	3661	3746	3900	4018	4042	2289
45°	2890	3035	3289	3468	3506	2231
55°	2047	2259	2602	2798	2832	1835
65°	1249	1504	1841	1933	1911	1241
75°	588	845	1066	1094	1083	628
85°	123	324	534	608	619	142
90°	3	147	334	423	442	10
95°	38	154	336	430	461	105
105°	626	661	654	541	520	594
115°	437	460	514	536	540	441
125°	218	232	274	294	296	205
135°	132	137	155	175	181	104
145°	102	102	106	117	120	64
155°	84	87	86	86	87	37
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4917.3	4917.3	4917.3	4917.3	4917.3
2.5°	4902.8	4914.9	4907.7	4923.3	4922.1
5°	4886.0	4899.3	4893.2	4912.5	4906.5
7.5°	4857.2	4871.6	4870.3	4892.0	4889.7
10°	4815.0	4830.7	4835.5	4864.3	4864.3
12.5°	4757.2	4777.7	4789.8	4824.7	4825.8
15°	4688.7	4711.5	4733.2	4772.9	4777.7
17.5°	4605.6	4634.5	4664.6	4710.3	4716.3
20°	4511.8	4544.3	4585.2	4633.3	4640.5
22.5°	4403.4	4441.9	4494.9	4551.4	4559.9
25°	4281.9	4328.8	4390.2	4458.8	4469.6
27.5°	4143.5	4197.7	4280.7	4357.7	4367.3
30°	3993.1	4056.8	4160.3	4251.8	4267.4
32.5°	3834.2	3907.6	4035.2	4137.5	4159.2
35°	3660.9	3746.3	3900.4	4018.3	4042.4
37.5°	3490.0	3583.9	3758.4	3893.2	3922.1
40°	3290.3	3407.0	3606.8	3756.0	3790.9
42.5°	3102.5	3228.8	3455.1	3617.6	3651.2
45°	2889.5	3035.1	3289.0	3468.3	3505.7
47.5°	2689.8	2847.3	3129.0	3314.3	3352.8
50°	2479.1	2652.4	2958.1	3151.8	3191.6
52.5°	2268.5	2455.1	2781.2	2982.2	3019.5
55°	2047.1	2258.9	2601.8	2798.0	2831.8
57.5°	1841.2	2065.1	2417.8	2604.2	2624.8
60°	1637.9	1870.2	2230.0	2393.7	2400.9
62.5°	1439.3	1683.7	2037.4	2167.4	2157.8
65°	1249.2	1504.3	1841.2	1932.8	1911.1
67.5°	1066.2	1329.8	1640.3	1699.2	1670.4
70°	893.0	1160.2	1445.3	1475.4	1448.9
72.5°	740.1	998.8	1248.0	1273.3	1254.0
75°	588.5	844.8	1066.2	1093.9	1083.1
77.5°	446.5	695.6	899.0	935.1	937.5
80°	321.3	559.6	753.3	809.9	817.2
82.5°	211.8	434.4	631.8	704.0	714.8
85°	122.8	323.8	534.3	607.8	618.6
87.5°	52.9	233.5	429.7	495.8	509.1
90°	3.3	147.2	334.0	422.6	442.4
92.5°	14.4	132.2	308.2	397.9	417.8
95°	37.7	153.8	336.2	430.4	461.2
97.5°	169.8	249.7	396.9	488.9	513.1
100°	342.2	414.3	467.1	531.8	546.4
102.5°	531.4	578.7	528.8	536.7	540.1
105°	625.9	661.0	654.1	540.8	519.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	511.3	537.5	586.5	604.4	588.4
115°	437.2	460.2	513.5	536.2	540.2
117.5°	375.0	390.8	440.5	465.3	469.8
120°	315.0	330.5	377.1	398.7	401.8
122.5°	265.0	278.5	322.4	342.8	344.7
125°	218.0	231.6	273.5	294.3	296.2
127.5°	185.1	195.0	233.8	254.6	256.6
130°	161.8	168.8	200.3	221.6	226.0
132.5°	145.9	150.8	175.1	195.2	201.7
135°	131.8	136.7	155.3	175.0	180.7
137.5°	120.9	125.8	138.8	157.3	162.9
140°	113.0	116.7	125.2	141.2	146.9
142.5°	106.7	109.2	114.1	128.2	132.6
145°	102.0	102.5	106.2	116.7	120.3
147.5°	96.2	97.8	99.5	106.0	109.7
150°	91.2	94.1	94.5	96.6	101.0
152.5°	87.8	89.9	90.3	90.0	92.4
155°	83.7	86.6	86.2	85.8	87.0
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	631.8	666.7	691.8	600.8	534.2
110°	579.2	616.0	656.0	639.7	588.2



(END OF REPORT)