

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: P827997

Luminaire Tested: **OHBL-18HE-MFL-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827997  
REPORT IS A COMBINATION OF REPORTS P826061 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: OHBL-18HE-MFL-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

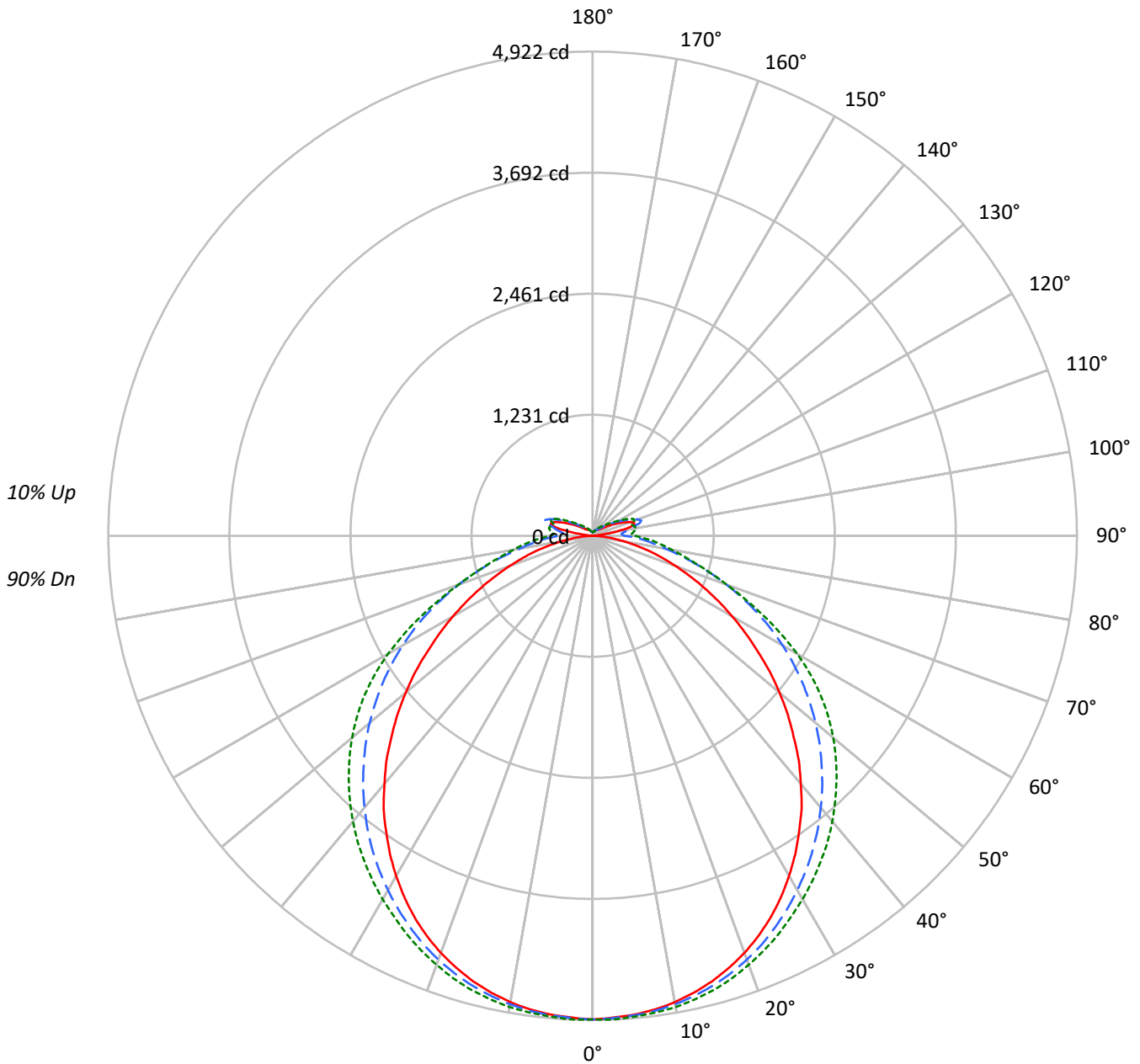
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15754.5 lumens  
Efficiency: N/A  
Efficacy: 141.4 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: Direct  
  
Input Watts (W): 111.4  
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

TEST NUMBER: P827997

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P827997

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD-UPL12

**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	99	99	99	93	93	93	90																			
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	68	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	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



TEST NUMBER: P827997

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	3.0
10°-20°	1336.7	8.5
20°-30°	2021.6	12.8
30°-40°	2426.9	15.4
40°-50°	2506.6	15.9
50°-60°	2255.1	14.3
60°-70°	1698.8	10.8
70°-80°	1025.8	6.5
80°-90°	504.3	3.2
90°-100°	310.3	2.0
100°-110°	465.5	3.0
110°-120°	367.0	2.3
120°-130°	182.0	1.2
130°-140°	92.1	0.6
140°-150°	51.6	0.3
150°-160°	27.9	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	3824.2	24.3
0°-40°	6251.1	39.7
0°-60°	11012.8	69.9
0°-90°	14241.7	90.4
90°-120°	1142.9	7.3
90°-150°	1468.5	9.3
90°-180°	1513.0	9.6
0°-180°	15754.5	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°	2	141	326	411	430	9
95°	27	134	300	388	414	74
105°	439	475	496	431	417	416
115°	310	328	383	408	408	310
125°	156	166	205	225	230	145
135°	93	98	116	135	140	74
145°	74	75	77	88	92	47
155°	62	64	64	63	64	27
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



TEST NUMBER: P827997

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD-UPL12

**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°	2.5	141.3	325.7	410.9	429.9
92.5°	11.1	123.8	294.0	379.6	397.0
95°	26.8	133.8	300.3	387.9	413.8
97.5°	119.8	194.7	336.9	417.2	436.4
100°	237.2	310.1	377.9	437.7	451.4
102.5°	373.1	416.2	413.8	433.3	437.6
105°	439.3	475.2	495.8	430.8	417.2



TEST NUMBER: P827997

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	358.0	383.3	439.8	457.8	448.4
115°	309.7	327.7	382.7	407.8	407.7
117.5°	262.5	279.1	329.7	353.7	355.7
120°	221.7	236.3	281.2	302.0	306.8
122.5°	188.3	198.5	240.8	261.1	265.5
125°	156.3	165.8	205.2	225.2	229.6
127.5°	130.9	138.3	175.4	196.2	199.9
130°	115.1	119.7	150.3	171.6	175.2
132.5°	103.4	108.3	130.9	151.0	156.7
135°	93.4	98.3	116.1	135.0	139.8
137.5°	86.8	90.8	103.0	120.7	126.2
140°	81.3	85.0	92.7	107.9	112.8
142.5°	77.5	79.2	83.3	97.3	101.8
145°	74.5	75.0	77.0	87.5	91.9
147.5°	70.3	72.0	73.7	78.5	83.0
150°	67.8	69.9	69.5	71.6	75.2
152.5°	64.5	66.6	66.2	65.8	68.3
155°	62.0	64.1	63.7	63.3	64.5
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	441.8	478.3	517.6	464.9	417.6
110°	405.1	441.0	487.7	487.2	450.8



(END OF REPORT)