

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: P828018

Luminaire Tested: **OHBL-18SE-N-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828018  
REPORT IS A COMBINATION OF REPORTS P826068 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-18SE-N-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

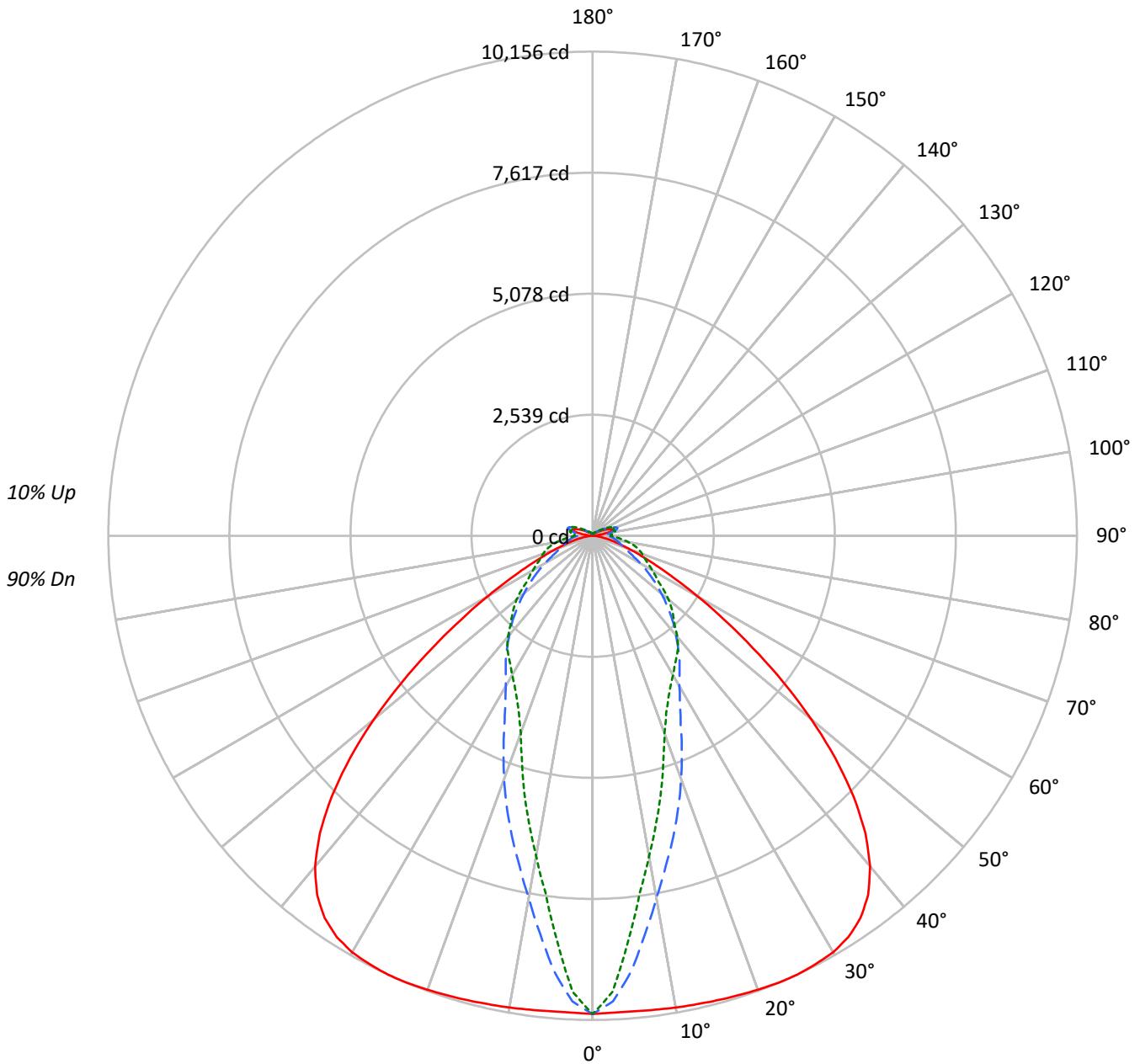
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15844.5 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
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: P828018

CATALOG NUMBER: OHBL-18SE-N-UNV-L935-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P828018

CATALOG NUMBER: OHBL-18SE-N-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	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	83	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	61	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	49	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

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

	0°	45°	90°
0°	17135	17135	17135
5°	17017	15604	14579
10°	17125	13144	11747
15°	17374	11241	9690
20°	17770	9505	7878
25°	18286	7868	6940
30°	18809	6778	6484
35°	19080	6177	6217
40°	18623	5580	5939
45°	16998	5042	5542
50°	14209	4455	5250
55°	10678	3902	4724
60°	7381	3346	4585
65°	4877	2882	4569
70°	3251	2705	4912
75°	2175	2789	5444
80°	1408	3089	5958
85°	724	3864	7104



TEST NUMBER: P828018

CATALOG NUMBER: OHBL-18SE-N-UNV-L935-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.5	5.3
10°-20°	1986.7	12.5
20°-30°	2490.3	15.7
30°-40°	2642.4	16.7
40°-50°	2389.2	15.1
50°-60°	1732.3	10.9
60°-70°	1087.1	6.9
70°-80°	719.4	4.5
80°-90°	417.1	2.6
90°-100°	299.9	1.9
100°-110°	483.5	3.1
110°-120°	381.8	2.4
120°-130°	183.4	1.2
130°-140°	90.1	0.6
140°-150°	51.7	0.3
150°-160°	28.6	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
<hr/>		
0°-30°	5321.4	33.6
0°-40°	7963.9	50.3
0°-60°	12085.4	76.3
0°-90°	14309.0	90.3
90°-120°	1165.3	7.4
90°-150°	1490.5	9.4
90°-180°	1535.0	9.7
0°-180°	15844.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10032	10032	10032	10032	10032	
5°	10012	9755	9182	8757	8536	957
15°	10089	8223	6531	5808	5545	2861
25°	10156	6358	4373	3881	3758	4692
35°	9792	4227	3174	3074	3074	6087
45°	7741	2677	2300	2356	2396	5897
55°	4098	1660	1501	1628	1686	3703
65°	1466	962	869	1113	1237	1525
75°	453	518	583	906	961	505
85°	79	215	427	594	545	95
90°	2	105	267	374	380	7
95°	25	111	289	393	421	72
105°	438	468	522	468	452	415
115°	310	330	408	432	430	310
125°	158	168	210	223	223	147
135°	95	99	115	129	129	75
145°	74	77	79	88	88	47
155°	61	65	67	69	67	27
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



TEST NUMBER: P828018

CATALOG NUMBER: OHBL-18SE-N-UNV-L935-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10032.3	10032.3	10032.3	10032.3	10032.3
2.5°	10011.3	9954.0	9775.5	9666.6	9574.9
5°	10012.3	9755.4	9182.5	8756.7	8536.1
7.5°	10026.6	9455.6	8423.4	7801.8	7559.3
10°	10048.5	9084.2	7714.9	7052.3	6826.0
12.5°	10064.8	8665.9	7091.4	6410.7	6162.4
15°	10088.7	8222.9	6531.0	5808.2	5544.7
17.5°	10110.6	7805.7	5977.2	5221.9	4928.8
20°	10132.6	7355.9	5423.4	4645.2	4403.7
22.5°	10153.6	6881.4	4882.9	4197.4	4032.2
25°	10155.5	6358.2	4373.1	3881.3	3758.2
27.5°	10130.7	5815.8	3959.7	3616.8	3540.5
30°	10087.7	5289.8	3638.8	3425.9	3371.5
32.5°	9980.8	4753.1	3390.6	3241.6	3210.1
35°	9791.7	4227.0	3173.8	3074.5	3073.6
37.5°	9493.8	3760.1	2938.9	2921.8	2942.8
40°	9053.6	3351.4	2716.5	2762.3	2762.3
42.5°	8466.4	2996.2	2515.0	2561.8	2549.3
45°	7740.8	2677.3	2300.2	2355.6	2395.7
47.5°	6899.5	2396.6	2080.6	2187.5	2242.8
50°	5984.8	2129.2	1880.1	2016.6	2079.6
52.5°	5026.2	1881.9	1684.3	1840.9	1891.5
55°	4098.1	1659.5	1501.0	1628.0	1686.2
57.5°	3257.8	1447.5	1321.5	1441.8	1562.1
60°	2535.1	1265.2	1152.5	1324.3	1444.7
62.5°	1936.4	1102.8	994.0	1214.5	1334.8
65°	1465.7	962.5	868.9	1113.3	1237.4
67.5°	1104.8	841.2	771.5	1039.8	1161.1
70°	829.8	723.8	693.2	994.0	1102.8
72.5°	613.0	615.8	631.2	953.8	1036.9
75°	452.6	518.5	583.4	906.2	960.6
77.5°	323.7	429.7	540.4	848.8	867.9
80°	224.4	350.4	495.6	773.4	757.2
82.5°	140.3	280.8	455.4	690.3	645.5
85°	79.2	214.8	426.8	593.9	545.2
87.5°	35.3	160.4	373.3	463.1	432.5
90°	2.5	104.8	267.3	374.3	380.5
92.5°	9.4	93.7	259.8	363.9	377.7
95°	24.7	111.3	289.3	392.7	421.0
97.5°	117.2	177.9	342.7	438.3	458.1
100°	235.8	297.2	393.9	468.0	481.8
102.5°	372.5	406.7	436.2	468.4	471.9
105°	438.5	467.8	521.8	467.6	452.4



TEST NUMBER: P828018

CATALOG NUMBER: OHBL-18SE-N-UNV-L935-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	383.3	467.7	485.8	476.5
115°	310.5	329.6	407.8	432.0	429.8
117.5°	263.1	280.8	351.1	372.4	371.8
120°	222.2	238.8	297.7	314.4	314.4
122.5°	188.9	200.8	251.0	264.8	264.6
125°	158.1	167.8	210.3	222.9	222.8
127.5°	133.0	139.9	177.2	189.8	188.8
130°	117.2	122.4	149.5	163.7	163.7
132.5°	104.6	108.9	129.5	143.7	144.5
135°	94.6	98.9	114.7	128.9	128.9
137.5°	87.9	92.4	102.6	115.8	116.7
140°	81.2	85.6	93.0	105.3	105.3
142.5°	77.2	79.8	85.2	95.7	96.5
145°	73.9	76.6	79.3	87.8	87.7
147.5°	69.8	73.3	76.0	80.8	80.7
150°	67.2	71.0	71.8	75.5	74.6
152.5°	63.9	67.7	68.5	71.2	70.2
155°	61.4	65.2	66.9	68.8	66.8
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°	441.0	474.2	546.0	498.9	452.3
110°	405.2	437.8	516.9	518.1	482.3



(END OF REPORT)