

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: P828024

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828024  
REPORT IS A COMBINATION OF REPORTS P826070 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-W-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

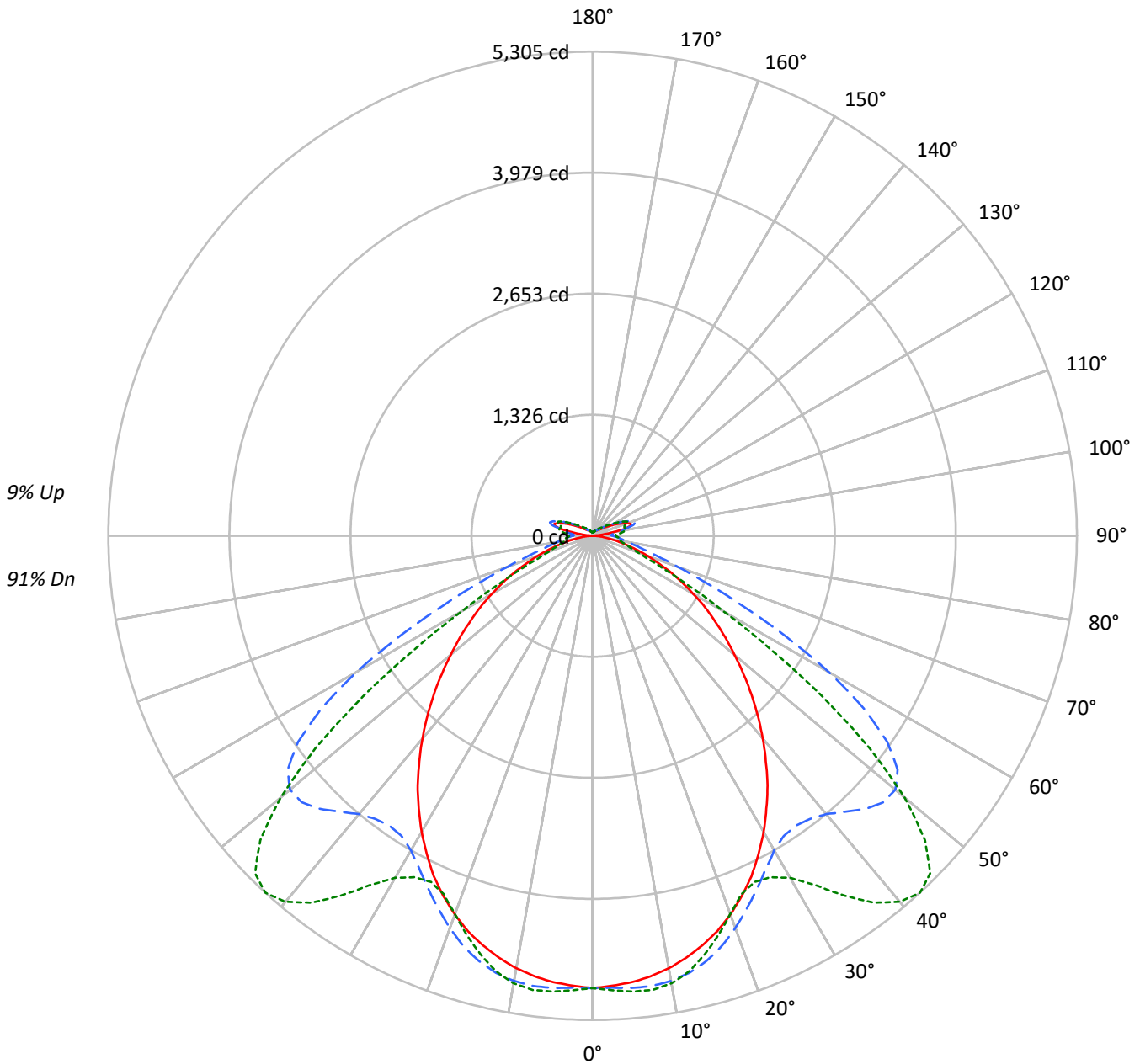
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15875.2 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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

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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	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	84	82	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	74	70	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	46	40	52	45	39	49	43	38	47	42	37	35																			
7	64	50	42	36	62	49	41	35	47	40	35	45	38	34	43	37	33	31																			
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22																			

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

	0°	45°	90°
0°	8464	8464	8464
5°	8344	8452	8560
10°	8199	8439	8571
15°	8000	8299	8296
20°	7742	8014	7889
25°	7412	7669	7731
30°	6987	7412	8320
35°	6510	7549	9735
40°	5966	8176	11255
45°	5402	9274	12098
50°	4818	10254	11258
55°	4268	10241	8602
60°	3711	8664	5259
65°	3127	5982	3186
70°	2479	3867	2300
75°	1819	2771	2132
80°	1228	2432	2406
85°	733	2672	3802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.5	3.0
10°-20°	1341.0	8.4
20°-30°	1962.3	12.4
30°-40°	2548.4	16.1
40°-50°	3111.9	19.6
50°-60°	2740.5	17.3
60°-70°	1428.1	9.0
70°-80°	612.4	3.9
80°-90°	296.7	1.9
90°-100°	237.3	1.5
100°-110°	430.8	2.7
110°-120°	347.1	2.2
120°-130°	169.6	1.1
130°-140°	84.9	0.5
140°-150°	48.0	0.3
150°-160°	26.4	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	3776.8	23.8
0°-40°	6325.1	39.8
0°-60°	12177.6	76.7
0°-90°	14514.8	91.4
90°-120°	1015.2	6.4
90°-150°	1317.7	8.3
90°-180°	1360.0	8.6
0°-180°	15875.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4955	4955	4955	4955	4955	
5°	4910	4947	4974	5018	5012	466
15°	4645	4776	4822	4786	4747	1308
25°	4116	4336	4263	4182	4187	1889
35°	3341	3694	3879	4524	4813	2082
45°	2460	3095	4231	5122	5229	1897
55°	1638	2711	3940	3454	3071	1470
65°	940	1878	1804	1003	863	930
75°	378	879	580	397	376	413
85°	80	313	295	289	292	89
90°	4	128	215	248	257	7
95°	23	115	227	278	299	70
105°	435	463	464	378	360	412
115°	306	321	363	374	371	307
125°	154	163	192	201	203	143
135°	91	94	108	120	122	73
145°	71	71	72	80	83	45
155°	59	59	58	59	59	26
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



TEST NUMBER: P828024

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4955.4	4955.4	4955.4	4955.4	4955.4
2.5°	4934.1	4955.4	4956.5	4986.5	4983.2
5°	4909.5	4946.9	4973.7	5017.5	5012.1
7.5°	4868.8	4927.7	4974.7	5022.8	5018.5
10°	4811.1	4891.3	4953.3	4992.8	4980.1
12.5°	4736.2	4842.2	4903.1	4911.6	4887.0
15°	4645.4	4775.8	4821.8	4785.5	4747.0
17.5°	4542.8	4695.7	4711.7	4632.6	4584.5
20°	4414.5	4588.8	4572.7	4463.7	4410.2
22.5°	4272.2	4471.2	4419.8	4305.4	4254.1
25°	4116.2	4336.4	4262.7	4182.5	4186.8
27.5°	3933.3	4183.5	4111.9	4148.2	4216.7
30°	3747.3	4023.2	3979.3	4191.0	4325.8
32.5°	3543.1	3858.5	3898.1	4316.1	4536.3
35°	3341.1	3693.8	3878.8	4523.5	4813.2
37.5°	3117.6	3527.1	3909.8	4763.0	5066.7
40°	2900.6	3364.6	3980.4	4977.9	5234.5
42.5°	2679.2	3219.2	4099.1	5105.2	5305.1
45°	2460.1	3095.2	4230.6	5122.2	5229.2
47.5°	2240.9	2990.4	4321.4	4986.5	4937.2
50°	2029.2	2897.3	4327.8	4660.3	4459.3
52.5°	1831.4	2811.8	4210.2	4140.8	3828.6
55°	1637.9	2711.3	3939.8	3454.4	3070.6
57.5°	1461.5	2572.3	3522.8	2716.7	2297.6
60°	1274.4	2384.2	2984.0	1987.5	1657.2
62.5°	1102.2	2150.0	2379.9	1383.5	1191.0
65°	939.8	1878.5	1803.7	1002.8	862.8
67.5°	767.7	1597.3	1331.1	731.2	641.5
70°	632.9	1336.4	991.1	568.8	516.4
72.5°	495.0	1088.4	740.9	461.8	433.0
75°	378.5	878.8	579.5	396.7	376.3
77.5°	279.1	694.9	466.2	350.7	331.4
80°	195.7	547.4	390.2	313.2	305.8
82.5°	131.5	423.4	332.5	298.2	299.3
85°	80.2	313.2	295.1	288.7	291.8
87.5°	38.5	222.4	253.4	263.0	266.2
90°	3.6	128.3	214.6	248.2	256.9
92.5°	7.5	105.8	202.8	243.8	253.3
95°	23.0	114.6	226.7	278.4	298.8
97.5°	114.7	177.0	277.3	330.1	341.7
100°	233.2	294.6	329.8	365.8	373.1
102.5°	369.0	402.5	374.5	373.1	371.0
105°	435.1	463.2	463.8	378.3	359.6



TEST NUMBER: P828024

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	354.8	376.5	418.9	420.5	408.5
115°	306.4	321.4	362.8	374.3	371.4
117.5°	259.2	274.3	312.0	322.3	321.8
120°	218.3	231.8	264.6	274.0	275.1
122.5°	185.0	194.5	225.8	235.1	237.0
125°	154.2	163.2	192.2	201.2	203.1
127.5°	128.9	135.0	164.3	174.2	175.3
130°	113.1	116.4	139.8	151.3	153.5
132.5°	101.4	103.9	122.2	133.8	136.8
135°	91.4	93.9	107.9	120.5	121.6
137.5°	84.8	86.4	96.4	107.9	110.9
140°	78.1	80.6	86.5	98.1	99.1
142.5°	74.2	74.8	79.6	89.0	90.9
145°	71.1	70.6	72.5	79.8	82.7
147.5°	66.9	67.5	69.2	73.4	75.3
150°	64.4	65.2	63.9	66.9	69.0
152.5°	61.1	61.9	60.6	61.4	63.6
155°	58.6	59.4	58.1	58.9	58.9
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°	438.7	468.2	490.7	418.8	367.6
110°	402.0	431.3	463.2	446.2	405.8



(END OF REPORT)