

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: P828022

Luminaire Tested: **OHBL-18SE-NL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828022  
REPORT IS A COMBINATION OF REPORTS P826165 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-18SE-NL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

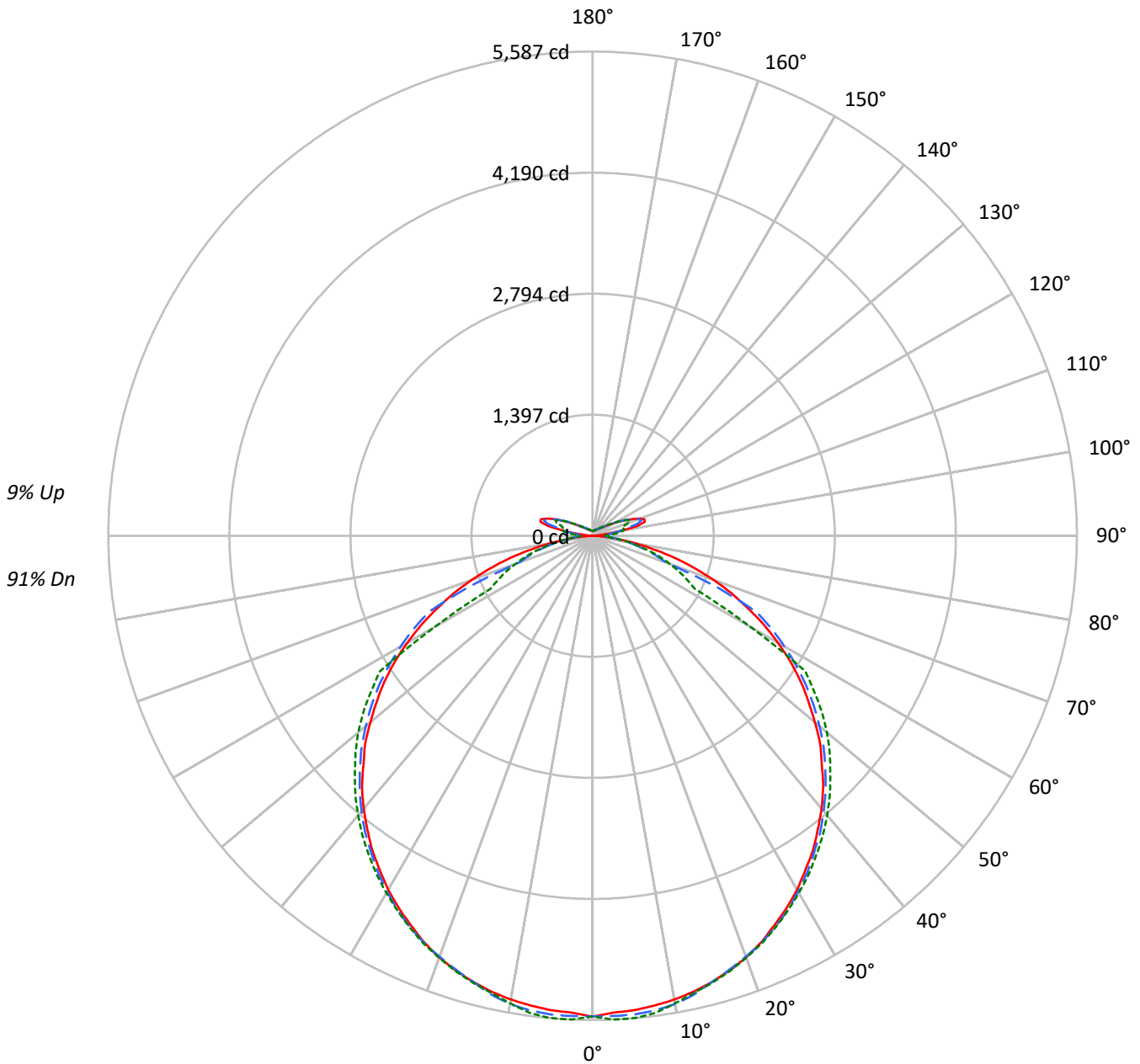
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17064.1 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 117.3  
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	72	66	61	69	63	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	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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

	0°	45°	90°
0°	9473	9473	9473
5°	9372	9456	9556
10°	9325	9412	9457
15°	9273	9269	9375
20°	9208	9191	9328
25°	9091	9132	9285
30°	8990	9031	9245
35°	8869	8911	9209
40°	8722	8797	9181
45°	8518	8638	9124
50°	8300	8459	9088
55°	8035	8231	8934
60°	7637	7894	6901
65°	7068	7462	4597
70°	6334	3837	4395
75°	5258	3467	4098
80°	3693	2900	3588
85°	1482	2323	3103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.9	3.1
10°-20°	1508.8	8.8
20°-30°	2295.7	13.5
30°-40°	2791.3	16.4
40°-50°	2934.9	17.2
50°-60°	2679.9	15.7
60°-70°	1718.0	10.1
70°-80°	811.5	4.8
80°-90°	228.7	1.3
90°-100°	202.3	1.2
100°-110°	511.8	3.0
110°-120°	430.3	2.5
120°-130°	204.5	1.2
130°-140°	102.1	0.6
140°-150°	59.3	0.3
150°-160°	34.6	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	4331.4	25.4
0°-40°	7122.7	41.7
0°-60°	12737.6	74.6
0°-90°	15495.8	90.8
90°-120°	1144.4	6.7
90°-150°	1510.2	8.9
90°-180°	1568.0	9.2
0°-180°	17064.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5546	5546	5546	5546	5546	
5°	5495	5516	5545	5575	5586	523
15°	5328	5368	5328	5335	5339	1504
25°	4959	4966	4984	4992	4988	2288
35°	4432	4406	4456	4511	4498	2770
45°	3738	3731	3795	3884	3877	2889
55°	2929	2907	3005	3106	3113	2613
65°	1974	1974	2088	1198	1202	1957
75°	975	994	645	679	682	1028
85°	128	162	201	218	206	188
90°	3	75	118	144	146	8
95°	35	97	172	226	246	101
105°	622	622	537	383	354	591
115°	432	439	441	434	427	435
125°	208	218	224	223	222	196
135°	123	126	130	132	132	98
145°	90	92	94	95	95	57
155°	72	73	74	75	75	34
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°	5546.5	5546.5	5546.5	5546.5	5546.5
2.5°	5507.6	5526.1	5546.5	5572.8	5587.3
5°	5494.9	5516.3	5544.6	5574.8	5586.4
7.5°	5467.7	5497.8	5525.1	5546.5	5553.3
10°	5433.6	5469.7	5485.2	5483.2	5478.4
12.5°	5387.8	5425.8	5421.0	5398.6	5402.5
15°	5328.5	5368.3	5327.6	5335.3	5339.2
17.5°	5258.4	5297.3	5249.7	5265.2	5266.2
20°	5176.8	5205.8	5168.9	5181.6	5181.6
22.5°	5078.4	5098.8	5083.2	5092.0	5094.0
25°	4958.7	4966.4	4983.9	4991.8	4987.8
27.5°	4843.9	4834.1	4868.2	4886.7	4876.8
30°	4716.3	4700.8	4740.7	4770.8	4759.2
32.5°	4570.3	4560.7	4606.4	4642.3	4635.6
35°	4432.2	4405.8	4456.5	4511.0	4498.3
37.5°	4268.7	4253.1	4310.5	4367.9	4361.2
40°	4109.0	4082.8	4148.0	4216.1	4209.3
42.5°	3937.8	3906.6	3977.7	4059.4	4051.6
45°	3738.2	3731.4	3794.7	3884.2	3877.4
47.5°	3561.2	3527.1	3615.6	3702.2	3710.1
50°	3346.9	3334.3	3415.2	3520.3	3528.0
52.5°	3137.8	3129.0	3213.6	3319.8	3333.3
55°	2929.4	2907.1	3005.3	3105.6	3113.4
57.5°	2706.7	2683.2	2783.5	2892.5	2909.0
60°	2468.1	2445.8	2555.7	2657.0	2112.9
62.5°	2229.7	2214.1	2329.0	1649.7	1329.5
65°	1973.8	1973.8	2088.5	1198.1	1201.9
67.5°	1734.3	1718.8	1557.2	1076.3	1076.3
70°	1477.4	1483.3	897.3	943.1	944.1
72.5°	1219.5	1240.9	774.8	811.7	813.6
75°	975.2	993.8	645.2	679.3	682.3
77.5°	716.3	550.8	518.7	545.1	546.0
80°	503.2	347.4	397.1	422.3	419.5
82.5°	293.8	243.2	291.0	309.5	308.5
85°	127.5	161.6	201.4	218.0	206.2
87.5°	40.8	100.2	125.5	135.3	134.2
90°	3.3	75.3	117.8	143.5	145.8
92.5°	10.8	70.2	123.8	160.7	168.3
95°	34.6	96.6	171.8	225.8	245.8
97.5°	164.4	197.9	244.1	303.1	318.4
100°	336.9	368.2	325.2	357.8	363.8
102.5°	529.0	536.9	396.8	372.8	368.8
105°	622.3	622.4	537.3	383.1	353.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	507.5	512.8	505.8	489.5	461.8
115°	432.3	439.3	441.3	433.5	426.8
117.5°	364.2	366.7	368.3	366.7	367.5
120°	304.2	310.0	313.3	310.8	309.2
122.5°	254.2	261.7	265.8	263.3	261.7
125°	208.3	218.3	224.2	223.3	221.7
127.5°	176.7	184.2	191.7	190.8	189.2
130°	153.3	159.2	164.2	165.0	165.8
132.5°	137.5	140.0	145.0	145.8	147.5
135°	123.3	125.8	130.0	131.7	132.5
137.5°	112.5	115.0	118.3	120.0	120.8
140°	103.3	105.8	108.3	110.0	110.8
142.5°	95.8	98.3	100.8	101.7	102.5
145°	90.0	91.7	94.2	95.0	95.0
147.5°	84.2	85.8	87.5	89.2	89.2
150°	79.2	80.8	82.5	83.3	84.2
152.5°	75.8	76.7	78.3	79.2	79.2
155°	71.7	73.3	74.2	75.0	75.0
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°	628.2	633.0	588.6	455.4	377.1
110°	576.7	586.2	564.2	510.3	445.9



(END OF REPORT)