

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: P828015

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828015  
REPORT IS A COMBINATION OF REPORTS P826067 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-MFL-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

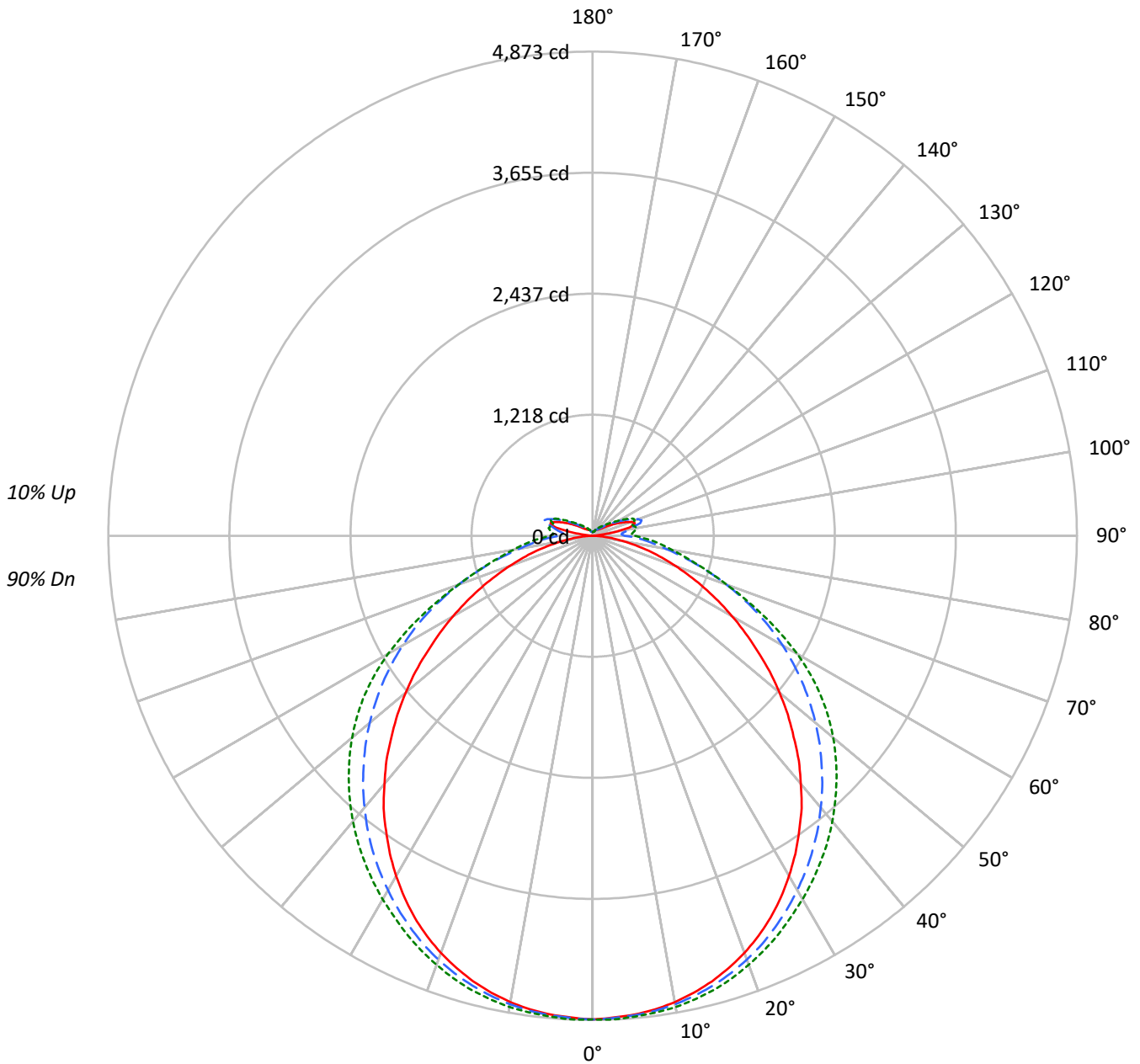
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15607.8 lumens  
Efficiency: N/A  
Efficacy: 137.6 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: Direct  
  
Input Watts (W): 113.4  
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	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	67	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	65	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°	8315	8315	8315
5°	8222	8233	8296
10°	8124	8156	8288
15°	7994	8066	8266
20°	7834	7956	8219
25°	7633	7819	8171
30°	7371	7672	8126
35°	7063	7515	8095
40°	6700	7334	8069
45°	6282	7138	8030
50°	5827	6939	7977
55°	5281	6696	7854
60°	4721	6410	7544
65°	4116	6046	6986
70°	3463	5583	6390
75°	2800	5047	6077
80°	1996	4649	6366
85°	1111	4789	7980



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.3	3.0
10°-20°	1323.4	8.5
20°-30°	2001.4	12.8
30°-40°	2402.7	15.4
40°-50°	2481.6	15.9
50°-60°	2232.7	14.3
60°-70°	1681.8	10.8
70°-80°	1015.6	6.5
80°-90°	499.3	3.2
90°-100°	308.2	2.0
100°-110°	464.3	3.0
110°-120°	366.3	2.3
120°-130°	181.6	1.2
130°-140°	91.9	0.6
140°-150°	51.5	0.3
150°-160°	27.9	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	3786.1	24.3
0°-40°	6188.8	39.7
0°-60°	10903.1	69.9
0°-90°	14099.8	90.3
90°-120°	1138.8	7.3
90°-150°	1463.8	9.4
90°-180°	1508.0	9.7
0°-180°	15607.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4868	4868	4868	4868	4868	
5°	4837	4850	4844	4864	4858	460
15°	4642	4665	4686	4725	4730	1309
25°	4239	4286	4346	4414	4425	1950
35°	3624	3709	3862	3978	4002	2266
45°	2861	3005	3256	3434	3471	2209
55°	2027	2236	2576	2770	2804	1817
65°	1237	1489	1823	1914	1892	1229
75°	583	836	1056	1083	1072	622
85°	122	320	529	602	612	140
90°	2	140	323	407	426	9
95°	27	133	298	385	411	73
105°	439	475	494	429	415	416
115°	310	327	382	407	406	310
125°	156	166	205	224	229	145
135°	93	98	116	135	139	74
145°	74	75	77	87	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4868.3	4868.3	4868.3	4868.3	4868.3
2.5°	4854.0	4865.9	4858.8	4874.3	4873.1
5°	4837.3	4850.4	4844.5	4863.5	4857.6
7.5°	4808.8	4823.0	4821.8	4843.2	4840.9
10°	4767.0	4782.5	4787.2	4815.9	4815.9
12.5°	4709.8	4730.1	4742.0	4776.6	4777.8
15°	4641.9	4664.6	4686.0	4725.3	4730.1
17.5°	4559.8	4588.3	4618.1	4663.3	4669.3
20°	4466.8	4498.9	4539.4	4587.1	4594.3
22.5°	4359.6	4397.7	4450.1	4506.1	4514.4
25°	4239.3	4285.7	4346.4	4414.3	4425.1
27.5°	4102.2	4155.8	4238.0	4314.3	4323.8
30°	3953.2	4016.4	4118.8	4209.4	4224.9
32.5°	3796.0	3868.7	3995.0	4096.2	4117.7
35°	3624.4	3709.0	3861.5	3978.2	4002.1
37.5°	3455.3	3548.2	3720.9	3854.3	3883.0
40°	3257.4	3373.0	3570.8	3718.6	3753.1
42.5°	3071.6	3196.7	3420.7	3581.5	3614.9
45°	2860.7	3004.8	3256.2	3433.8	3470.8
47.5°	2662.9	2819.0	3097.8	3281.2	3319.4
50°	2454.4	2626.0	2928.6	3120.4	3159.8
52.5°	2245.9	2430.6	2753.5	2952.4	2989.3
55°	2026.7	2236.3	2575.9	2770.2	2803.5
57.5°	1822.9	2044.6	2393.7	2578.3	2598.6
60°	1621.6	1851.5	2207.8	2369.8	2377.0
62.5°	1425.0	1666.8	2017.2	2145.8	2136.2
65°	1236.8	1489.3	1822.9	1913.5	1892.0
67.5°	1055.7	1316.6	1623.9	1682.3	1653.8
70°	884.1	1148.6	1430.9	1460.8	1434.5
72.5°	732.8	988.9	1235.6	1260.6	1241.5
75°	582.6	836.4	1055.7	1083.0	1072.3
77.5°	442.0	688.7	890.0	925.8	928.2
80°	318.1	554.0	745.8	801.8	809.0
82.5°	209.7	430.1	625.5	697.0	707.8
85°	121.5	320.5	529.0	601.7	612.4
87.5°	52.4	231.2	425.3	490.9	504.0
90°	2.5	140.1	322.7	407.1	425.9
92.5°	11.1	122.8	291.4	376.2	393.5
95°	26.8	132.9	298.1	385.0	410.8
97.5°	119.7	194.0	334.9	414.8	433.8
100°	237.2	309.4	376.2	435.4	449.1
102.5°	373.0	415.7	412.2	431.3	435.5
105°	439.2	474.7	494.4	429.1	415.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.8	383.0	438.9	456.5	447.2
115°	309.5	327.4	381.8	406.8	406.5
117.5°	262.4	278.8	329.0	352.7	354.6
120°	221.6	236.1	280.7	301.2	305.9
122.5°	188.2	198.3	240.2	260.3	264.8
125°	156.2	165.6	204.7	224.5	228.8
127.5°	130.8	138.2	175.0	195.7	199.2
130°	115.0	119.5	149.9	171.0	174.6
132.5°	103.3	108.3	130.6	150.5	156.1
135°	93.3	98.3	115.8	134.6	139.3
137.5°	86.7	90.8	102.8	120.3	125.8
140°	81.2	84.9	92.5	107.7	112.4
142.5°	77.4	79.1	83.1	97.1	101.4
145°	74.4	74.9	76.9	87.2	91.7
147.5°	70.2	71.9	73.6	78.3	82.8
150°	67.8	69.8	69.4	71.4	75.0
152.5°	64.4	66.4	66.1	65.8	68.1
155°	61.9	63.9	63.6	63.3	64.4
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°	441.7	477.9	516.4	463.3	416.0
110°	405.0	440.7	486.7	485.8	449.3



(END OF REPORT)