

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: P828103

Luminaire Tested: **OHBL-36SE-MFL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828103  
REPORT IS A COMBINATION OF REPORTS P826175 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-36SE-MFL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

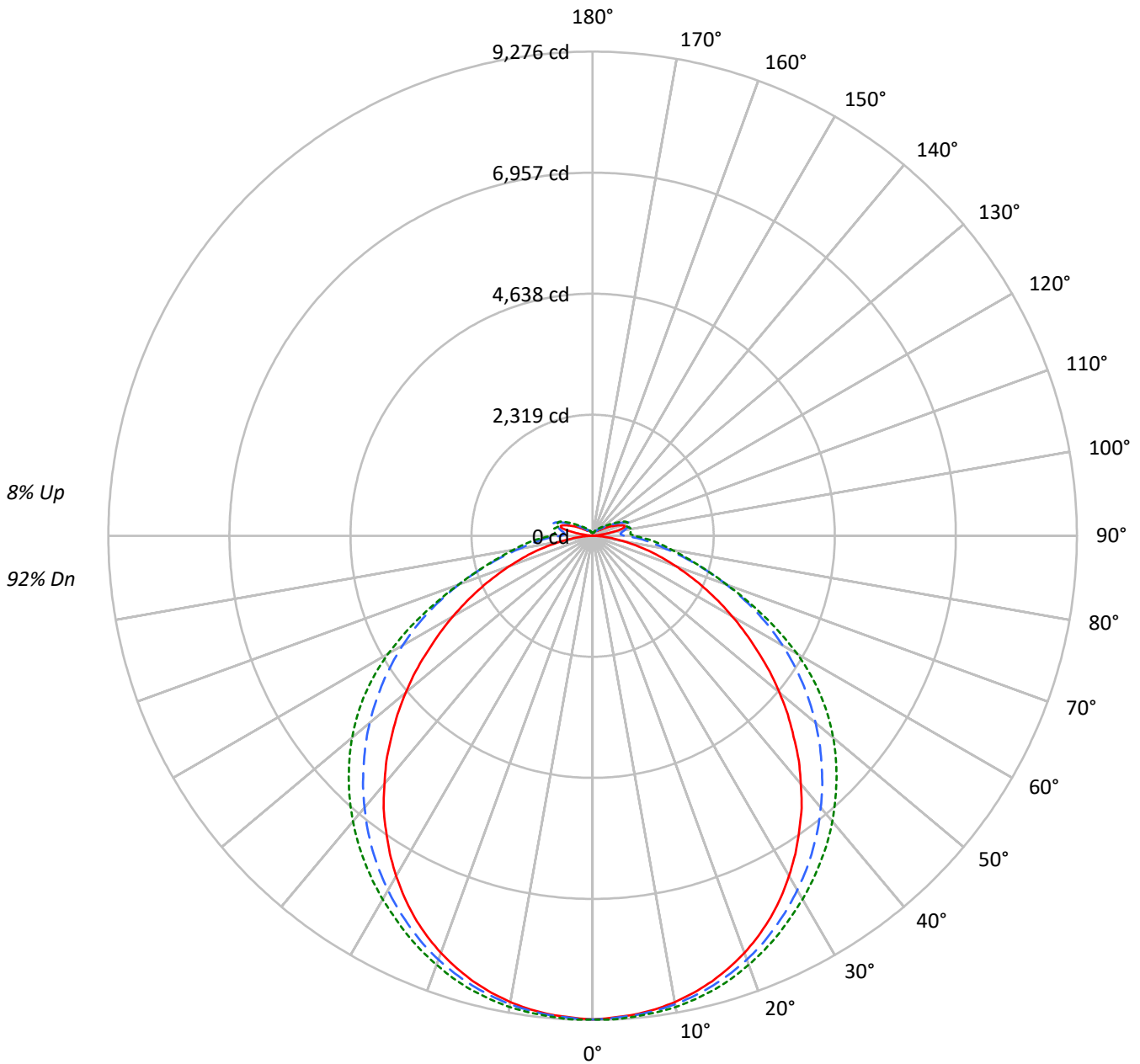
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29226.6 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
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	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	14656	14656	14656
5°	14501	14517	14623
10°	14338	14389	14608
15°	14117	14236	14570
20°	13843	14049	14486
25°	13498	13815	14402
30°	13045	13561	14322
35°	12509	13292	14268
40°	11878	12980	14223
45°	11147	12641	14152
50°	10353	12299	14060
55°	9395	11880	13843
60°	8414	11387	13296
65°	7350	10756	12313
70°	6203	9952	11262
75°	5036	9024	10710
80°	3616	8352	11220
85°	2039	8681	14066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.1	3.0
10°-20°	2519.2	8.6
20°-30°	3809.8	13.0
30°-40°	4573.7	15.6
40°-50°	4723.9	16.2
50°-60°	4250.1	14.5
60°-70°	3201.5	11.0
70°-80°	1933.2	6.6
80°-90°	949.2	3.2
90°-100°	540.7	1.8
100°-110°	722.7	2.5
110°-120°	559.1	1.9
120°-130°	279.9	1.0
130°-140°	141.8	0.5
140°-150°	78.6	0.3
150°-160°	41.8	0.1
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	7207.1	24.7
0°-40°	11780.8	40.3
0°-60°	20754.8	71.0
0°-90°	26838.7	91.8
90°-120°	1822.4	6.2
90°-150°	2322.8	7.9
90°-180°	2388.0	8.2
0°-180°	29226.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9267	9267	9267	9267	9267	
5°	9208	9233	9222	9258	9247	875
15°	8836	8879	8920	8995	9004	2491
25°	8070	8158	8274	8403	8423	3712
35°	6899	7060	7351	7573	7618	4313
45°	5446	5720	6198	6536	6607	4204
55°	3858	4257	4904	5273	5337	3459
65°	2354	2835	3470	3642	3602	2339
75°	1109	1592	2010	2062	2041	1183
85°	231	610	1007	1145	1166	267
90°	3	259	604	763	797	17
95°	43	229	538	688	728	109
105°	633	705	771	694	679	602
115°	446	485	586	633	641	450
125°	226	243	317	357	362	212
135°	139	146	178	213	223	110
145°	113	112	117	136	143	70
155°	94	98	97	95	98	41
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°	9267.2	9267.2	9267.2	9267.2	9267.2
2.5°	9239.9	9262.6	9249.0	9278.5	9276.2
5°	9208.2	9233.2	9221.8	9258.1	9246.8
7.5°	9153.8	9181.0	9178.7	9219.5	9215.0
10°	9074.3	9103.8	9112.9	9167.3	9167.3
12.5°	8965.5	9004.1	9026.8	9092.5	9094.8
15°	8836.2	8879.3	8920.2	8995.0	9004.1
17.5°	8679.8	8734.2	8790.8	8877.1	8888.4
20°	8502.8	8564.1	8641.2	8731.9	8745.5
22.5°	8298.7	8371.2	8471.1	8577.7	8593.6
25°	8069.7	8158.1	8273.8	8403.0	8423.4
27.5°	7808.8	7910.8	8067.3	8212.5	8230.7
30°	7525.3	7645.5	7840.6	8012.9	8042.4
32.5°	7225.9	7364.3	7604.7	7797.5	7838.2
35°	6899.3	7060.3	7350.7	7572.9	7618.3
37.5°	6577.2	6754.2	7083.0	7337.1	7391.5
40°	6200.8	6420.8	6797.2	7078.5	7144.3
42.5°	5847.0	6085.1	6511.5	6817.7	6881.2
45°	5445.5	5719.9	6198.5	6536.4	6606.8
47.5°	5069.0	5366.2	5896.8	6246.2	6318.8
50°	4672.2	4998.8	5574.8	5939.9	6014.8
52.5°	4275.2	4626.8	5241.4	5620.2	5690.5
55°	3857.9	4257.1	4903.5	5273.2	5336.7
57.5°	3470.1	3891.9	4556.5	4908.0	4946.6
60°	3086.8	3524.5	4202.7	4511.1	4524.7
62.5°	2712.6	3173.0	3839.8	4084.8	4066.6
65°	2354.2	2835.0	3470.1	3642.4	3601.6
67.5°	2009.5	2506.2	3091.3	3202.4	3148.0
70°	1682.8	2186.4	2723.9	2780.6	2730.7
72.5°	1394.8	1882.5	2351.9	2399.6	2363.2
75°	1109.1	1592.2	2009.5	2061.7	2041.2
77.5°	841.4	1310.9	1694.2	1762.2	1766.8
80°	605.6	1054.7	1419.8	1526.4	1540.0
82.5°	399.2	818.8	1190.8	1326.8	1347.2
85°	231.3	610.1	1007.0	1145.3	1165.8
87.5°	99.8	440.0	809.7	934.4	959.3
90°	3.3	259.0	604.4	763.2	796.9
92.5°	17.7	224.8	540.2	693.8	725.5
95°	43.0	229.3	538.4	688.0	728.4
97.5°	176.1	313.6	572.6	713.6	747.3
100°	348.6	469.6	619.3	728.8	751.9
102.5°	537.8	627.7	661.8	709.1	720.0
105°	633.4	704.7	771.2	694.1	679.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	519.8	566.2	667.3	713.0	701.2
115°	445.7	484.7	585.9	633.1	641.3
117.5°	384.6	412.0	504.4	552.7	560.2
120°	324.6	348.6	433.5	476.4	483.8
122.5°	274.6	293.4	372.4	413.0	418.2
125°	226.5	243.2	317.2	357.2	362.2
127.5°	192.6	204.6	271.1	311.0	316.2
130°	169.2	177.3	232.2	271.6	279.3
132.5°	153.4	160.4	201.7	238.8	249.6
135°	139.2	146.2	177.7	213.3	223.2
137.5°	128.4	135.4	156.9	190.3	200.3
140°	121.5	126.2	140.1	169.0	178.8
142.5°	116.2	118.8	125.8	151.6	159.2
145°	112.7	112.1	116.8	135.8	142.7
147.5°	106.8	108.5	110.2	120.9	127.8
150°	101.8	105.8	105.2	108.3	115.9
152.5°	98.5	101.6	101.0	99.6	104.1
155°	94.3	98.3	96.8	95.4	97.7
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°	639.2	705.0	795.0	737.0	675.8
110°	586.8	650.1	747.6	761.1	714.9



(END OF REPORT)