

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: P828104

Luminaire Tested: **OHBL-36SE-MFL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828104  
REPORT IS A COMBINATION OF REPORTS P826319 AND G3-2310-221-2  
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-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

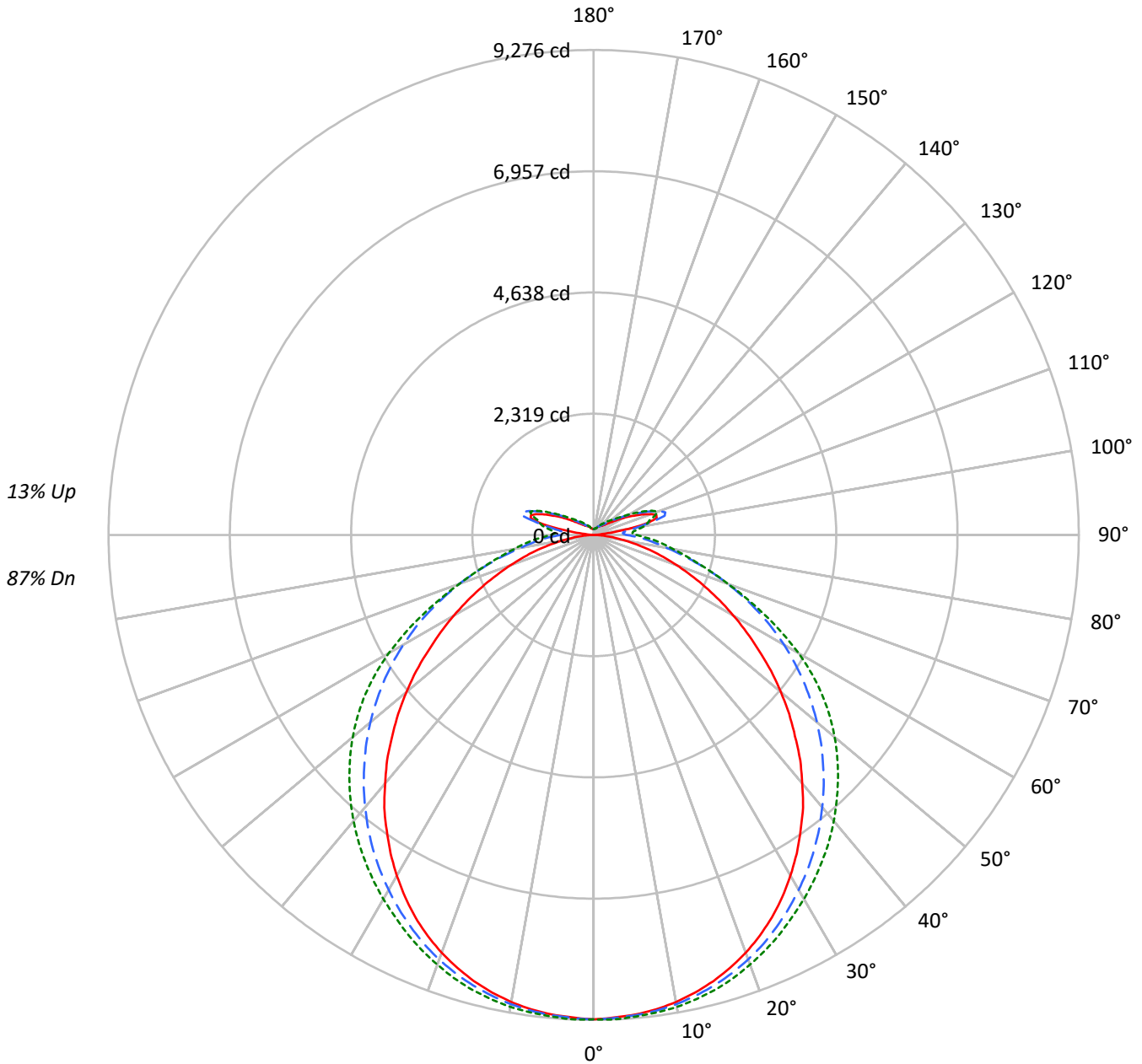
Lumens per Lamp: N/A  
Luminaire Lumens: 30720.2 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 239.8  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	69	66	69	66	62	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	27	25																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

**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	2.9
10°-20°	2519.2	8.2
20°-30°	3809.8	12.4
30°-40°	4573.7	14.9
40°-50°	4723.9	15.4
50°-60°	4250.1	13.8
60°-70°	3201.5	10.4
70°-80°	1933.2	6.3
80°-90°	951.9	3.1
90°-100°	627.2	2.0
100°-110°	1265.6	4.1
110°-120°	992.8	3.2
120°-130°	482.2	1.6
130°-140°	245.7	0.8
140°-150°	139.7	0.5
150°-160°	77.8	0.3
160°-170°	36.7	0.1
170°-180°	11.2	0.0
0°-30°	7207.1	23.5
0°-40°	11780.8	38.3
0°-60°	20754.8	67.6
0°-90°	26841.3	87.4
90°-120°	2885.6	9.4
90°-150°	3753.1	12.2
90°-180°	3879.0	12.6
0°-180°	30720.2	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°	7	279	629	786	816	19
95°	63	264	568	724	758	202
105°	1247	1321	1404	1186	1116	1186
115°	876	899	1008	1066	1066	886
125°	441	462	540	574	572	414
135°	266	276	310	347	357	210
145°	204	206	213	233	241	129
155°	169	174	174	174	176	76
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



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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°	6.7	279.0	628.6	785.8	816.1
92.5°	27.7	247.3	558.6	710.5	740.5
95°	63.0	264.3	568.4	723.8	757.6
97.5°	325.2	471.1	665.1	826.1	866.5
100°	682.8	804.6	856.8	956.2	991.1
102.5°	1061.9	1166.8	1123.5	1062.4	1053.3
105°	1246.8	1321.3	1404.5	1185.8	1116.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1026.5	1072.1	1174.0	1229.7	1212.1
115°	876.5	898.8	1007.6	1065.6	1066.3
117.5°	754.6	771.2	868.6	915.2	912.8
120°	637.9	656.1	746.0	779.8	782.2
122.5°	532.1	555.1	635.8	670.5	666.5
125°	440.7	462.4	540.5	573.8	572.3
127.5°	378.4	387.9	458.6	495.2	502.0
130°	327.6	336.5	395.5	435.8	440.9
132.5°	292.6	303.8	348.3	387.2	398.8
135°	265.9	276.2	310.2	346.7	356.6
137.5°	244.3	253.8	276.9	312.8	322.8
140°	228.2	235.4	251.8	282.3	291.3
142.5°	215.4	220.4	229.1	256.6	263.3
145°	204.3	206.2	212.7	233.3	241.0
147.5°	194.3	197.7	201.8	211.8	219.4
150°	185.2	189.9	191.0	194.9	202.6
152.5°	176.8	181.6	182.7	181.2	186.6
155°	169.3	174.1	174.3	173.8	176.0
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1258.4	1326.7	1435.0	1360.3	1226.7
110°	1162.6	1230.1	1333.4	1349.4	1294.9



(END OF REPORT)