

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: P828112

Luminaire Tested: **OHBL-48HE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828112  
REPORT IS A COMBINATION OF REPORTS P826252 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MCL-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

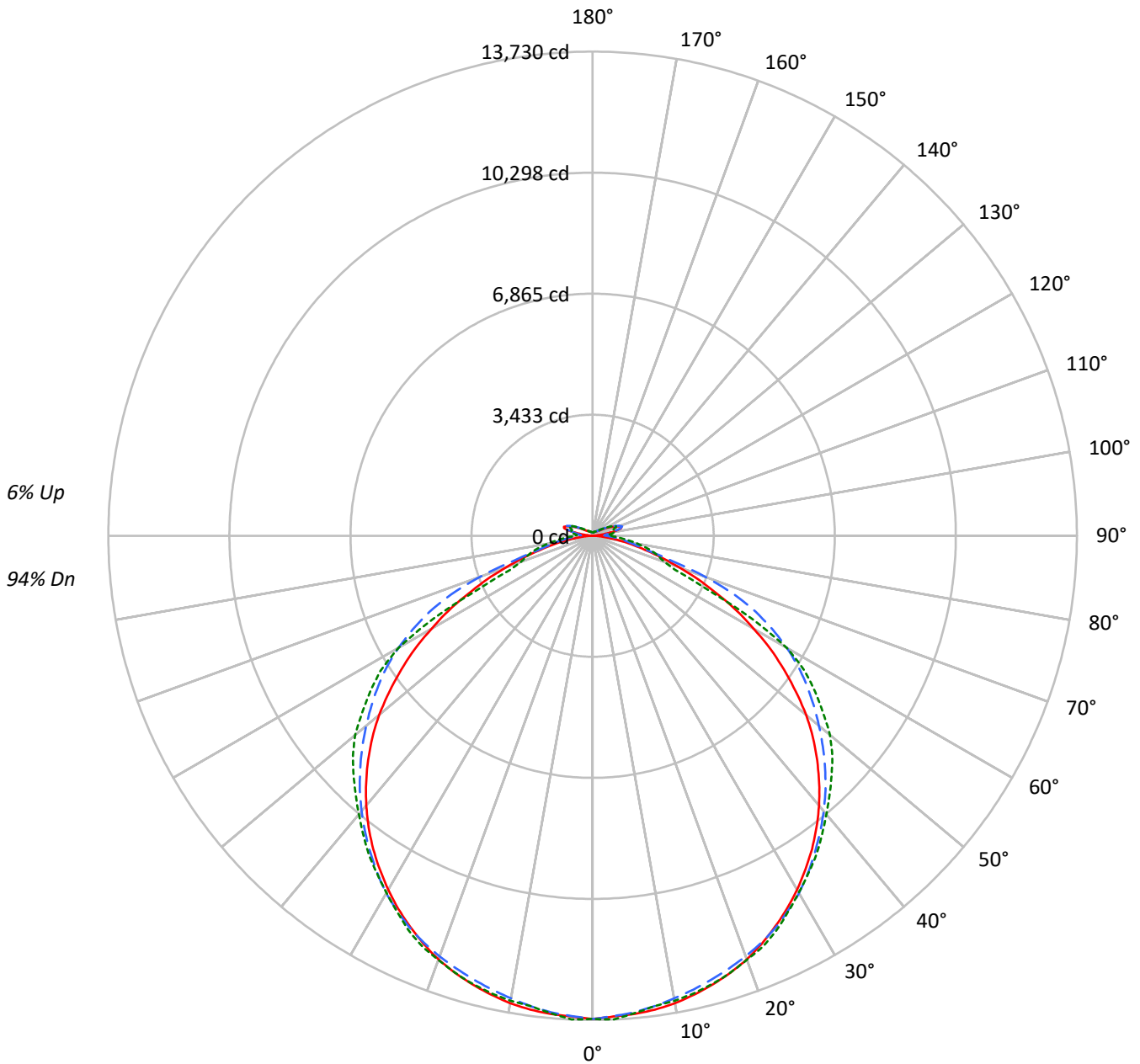
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40744.5 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	21669	21669	21669
5°	21437	21354	21490
10°	21268	21031	21341
15°	21042	20789	21290
20°	20814	20637	21196
25°	20467	20483	21107
30°	20094	20241	20812
35°	19663	19858	20704
40°	19128	19461	20526
45°	18424	19002	20532
50°	17507	18480	20534
55°	16128	17966	19960
60°	14370	17214	18676
65°	12136	15819	12023
70°	9566	12349	8907
75°	6945	7331	9335
80°	4579	6096	9412
85°	2323	5585	9896



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1292.0	3.2
10°-20°	3704.7	9.1
20°-30°	5658.3	13.9
30°-40°	6865.4	16.8
40°-50°	7195.6	17.7
50°-60°	6520.3	16.0
60°-70°	4371.6	10.7
70°-80°	1963.1	4.8
80°-90°	717.5	1.8
90°-100°	407.6	1.0
100°-110°	771.9	1.9
110°-120°	626.1	1.5
120°-130°	304.0	0.7
130°-140°	157.4	0.4
140°-150°	93.0	0.2
150°-160°	56.3	0.1
160°-170°	30.4	0.1
170°-180°	9.3	0.0
0°-30°	10654.9	26.2
0°-40°	17520.4	43.0
0°-60°	31236.3	76.7
0°-90°	38288.5	94.0
90°-120°	1805.7	4.4
90°-150°	2360.0	5.8
90°-180°	2456.0	6.0
0°-180°	40744.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13702	13702	13702	13702	13702	
5°	13613	13660	13565	13607	13589	###
15°	13171	13119	13026	13141	13157	3719
25°	12236	12182	12267	12380	12345	5640
35°	10845	10871	10982	11099	11055	6778
45°	9000	9147	9318	9555	9585	6933
55°	6623	6942	7416	7713	7695	5912
65°	3887	4495	5104	4307	3517	3873
75°	1530	2219	1632	1670	1779	1671
85°	264	505	648	783	820	322
90°	6	197	374	472	497	19
95°	46	198	373	469	502	140
105°	844	872	816	638	603	802
115°	592	606	640	654	653	596
125°	296	312	338	343	343	278
135°	184	190	198	209	213	146
145°	139	144	146	149	152	89
155°	116	120	122	123	121	54
165°	105	106	107	107	107	30
175°	97	98	96	94	94	9
180°	95	95	95	95	95	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13701.8	13701.8	13701.8	13701.8	<i>13701.8</i>
2.5°	<i>13646.3</i>	<i>13703.8</i>	<i>13632.5</i>	<i>13709.8</i>	<i>13729.6</i>
5°	13612.7	13660.2	13565.1	13606.8	<i>13588.9</i>
7.5°	13551.2	13567.1	13454.2	13487.8	<i>13452.2</i>
10°	13460.1	13452.2	13319.4	13384.8	<i>13392.8</i>
12.5°	13325.4	13301.6	13182.8	13281.8	<i>13283.8</i>
15°	13170.8	13119.3	13026.2	13141.2	<i>13157.0</i>
17.5°	12992.6	12925.2	12863.8	13012.3	<i>12988.6</i>
20°	12784.5	12705.2	12693.4	12855.8	<i>12796.4</i>
22.5°	12527.0	12465.6	12493.3	12647.8	<i>12610.2</i>
25°	12235.8	12182.3	12267.4	12380.4	<i>12344.8</i>
27.5°	11928.7	11897.0	11994.1	12081.2	<i>12011.9</i>
30°	11591.8	11574.0	11702.8	11774.2	<i>11687.0</i>
32.5°	11225.3	11231.3	11354.2	11451.2	<i>11370.0</i>
35°	10845.0	10870.8	10981.7	11098.6	<i>11055.0</i>
37.5°	10426.9	10484.4	10595.3	10728.1	<i>10682.5</i>
40°	9985.2	10068.3	10191.2	10351.7	<i>10310.1</i>
42.5°	9507.7	9612.7	9771.2	9949.5	<i>9945.5</i>
45°	9000.5	9147.1	9317.5	9555.2	<i>9584.9</i>
47.5°	8473.5	8637.9	8853.9	9170.8	<i>9216.4</i>
50°	7900.9	8107.0	8376.4	8756.8	<i>8784.5</i>
52.5°	7263.0	7544.3	7900.9	8265.5	<i>8231.8</i>
55°	6623.1	6942.1	7415.6	7712.8	<i>7694.9</i>
57.5°	5985.2	6343.8	6918.2	7130.2	<i>7128.2</i>
60°	5271.9	5725.6	6353.7	6514.1	<i>6355.6</i>
62.5°	4612.2	5099.6	5751.3	5634.5	<i>5091.7</i>
65°	3887.1	4495.2	5103.5	4307.1	<i>3516.6</i>
67.5°	3243.2	3877.2	4334.8	2950.0	<i>2526.0</i>
70°	2595.3	3294.7	3379.9	2189.2	<i>2159.5</i>
72.5°	2020.8	2765.8	2331.8	1874.2	<i>1969.2</i>
75°	1529.5	2218.9	1632.5	1670.2	<i>1779.1</i>
77.5°	1115.4	1703.8	1269.9	1464.1	<i>1553.3</i>
80°	766.8	1206.5	1036.2	1230.3	<i>1291.8</i>
82.5°	481.4	796.4	830.1	990.6	<i>1054.0</i>
85°	263.5	505.2	647.8	782.6	<i>820.2</i>
87.5°	109.0	305.1	495.3	604.2	<i>635.9</i>
90°	6.2	196.8	374.0	471.7	<i>497.3</i>
92.5°	16.2	166.2	333.4	423.8	<i>448.5</i>
95°	46.2	197.5	373.2	469.3	<i>502.3</i>
97.5°	228.2	325.8	453.0	547.7	<i>583.1</i>
100°	465.9	557.7	554.7	610.8	<i>624.2</i>
102.5°	718.8	762.2	649.8	624.1	<i>623.4</i>
105°	843.8	872.3	816.2	637.5	<i>602.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	687.2	711.1	737.3	736.0	713.3
115°	592.5	606.2	639.9	654.2	653.1
117.5°	509.2	514.0	547.0	558.1	562.9
120°	424.2	435.3	468.6	474.3	471.3
122.5°	358.3	368.3	395.2	403.4	400.3
125°	295.5	312.5	338.2	343.2	342.8
127.5°	254.2	265.0	289.2	296.0	297.1
130°	223.3	232.0	250.3	259.0	259.8
132.5°	202.0	209.8	221.6	232.8	232.0
135°	184.5	189.8	197.7	209.2	212.8
137.5°	172.3	174.8	179.8	192.2	194.2
140°	159.8	163.2	165.3	174.9	177.8
142.5°	147.0	152.3	153.7	161.2	163.2
145°	138.7	144.0	146.5	149.3	152.1
147.5°	133.2	136.5	138.2	139.8	141.8
150°	127.3	129.0	131.5	132.3	133.2
152.5°	121.5	123.2	125.7	126.5	126.5
155°	116.5	120.2	121.8	122.7	120.7
157.5°	112.3	116.0	117.7	118.5	118.5
160°	109.0	111.8	113.5	114.3	114.3
162.5°	107.7	108.5	109.3	110.2	110.2
165°	105.2	106.0	106.8	106.8	106.8
167.5°	102.7	104.6	103.5	104.3	104.3
170°	100.2	101.0	101.0	99.8	99.8
172.5°	98.5	99.3	99.3	97.3	98.2
175°	96.8	97.7	95.7	94.5	94.5
177.5°	98.8	96.8	94.8	92.8	90.8
180°	94.8	94.8	94.8	94.8	94.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	849.1	880.2	874.6	724.4	626.7
110°	786.1	813.3	825.4	779.1	701.3



(END OF REPORT)