

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: P828335

Luminaire Tested: **OHBL-24HE-MFL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828335  
REPORT IS A COMBINATION OF REPORTS P826301 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-24HE-MFL-UNV-L940-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

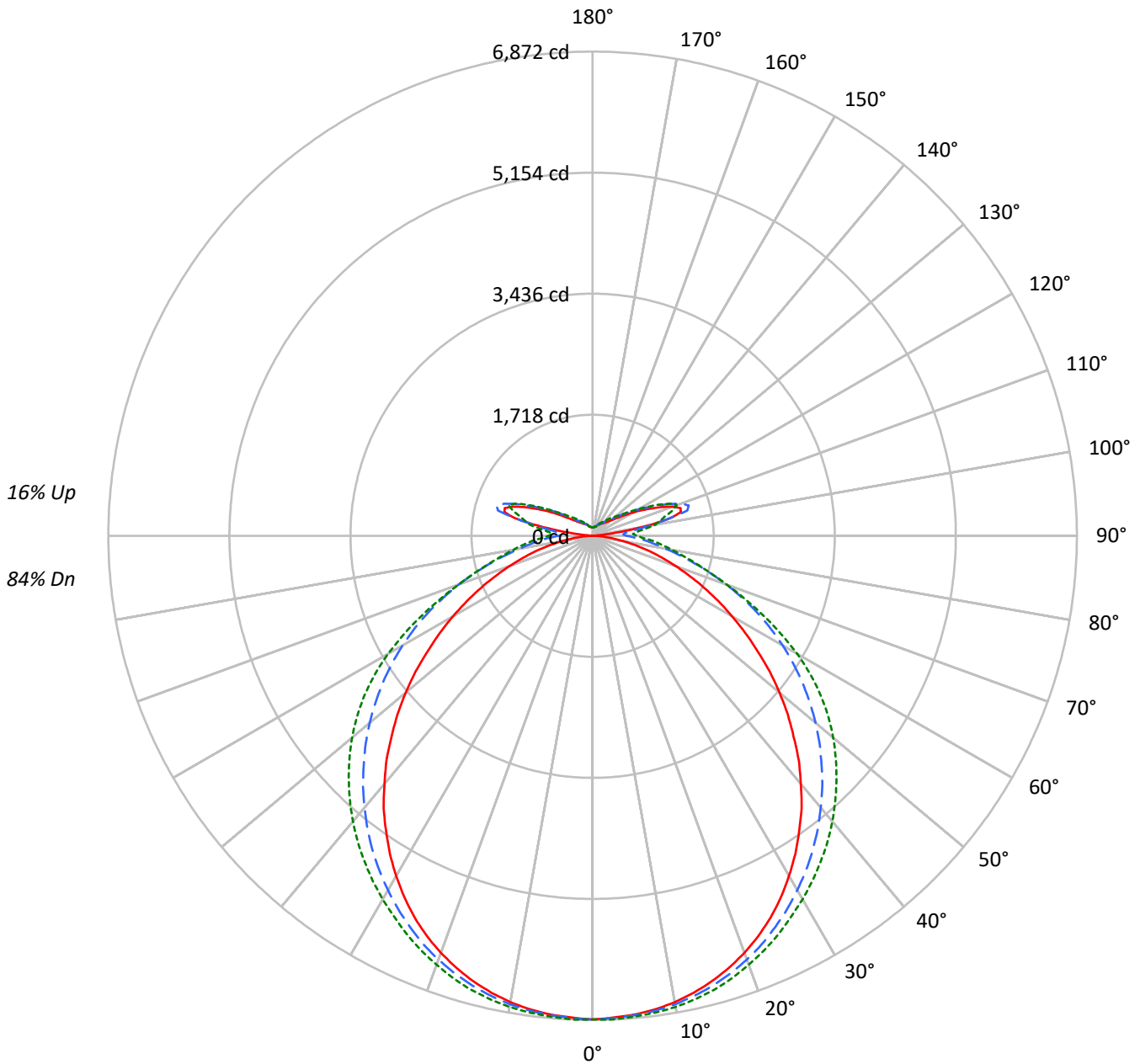
Lumens per Lamp: N/A  
Luminaire Lumens: 23660.3 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
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				20				20
RC	80				70				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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69			
2	95	87	80	74	91	84	77	72	77	72	68	72	68	64	67	63	60	57			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41			
5	73	60	51	45	70	58	50	44	54	47	42	50	45	40	47	42	38	36			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31			
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22			
10	51	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20			

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

	0°	45°	90°
0°	10857	10857	10857
5°	10742	10754	10833
10°	10622	10659	10822
15°	10458	10546	10793
20°	10255	10407	10731
25°	10000	10234	10669
30°	9663	10046	10610
35°	9266	9846	10569
40°	8799	9616	10536
45°	8257	9365	10484
50°	7669	9111	10415
55°	6959	8801	10255
60°	6233	8435	9850
65°	5445	7968	9122
70°	4595	7372	8343
75°	3731	6685	7934
80°	2679	6187	8312
85°	1511	6431	10420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.5	2.7
10°-20°	1866.2	7.9
20°-30°	2822.3	11.9
30°-40°	3388.2	14.3
40°-50°	3499.4	14.8
50°-60°	3148.4	13.3
60°-70°	2371.6	10.0
70°-80°	1432.1	6.1
80°-90°	707.1	3.0
90°-100°	534.0	2.3
100°-110°	1251.7	5.3
110°-120°	995.5	4.2
120°-130°	480.3	2.0
130°-140°	244.3	1.0
140°-150°	139.9	0.6
150°-160°	79.0	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	5339.0	22.6
0°-40°	8727.1	36.9
0°-60°	15374.9	65.0
0°-90°	19885.7	84.0
90°-120°	2781.1	11.8
90°-150°	3645.6	15.4
90°-180°	3775.0	16.0
0°-180°	23660.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6865	6865	6865	6865	6865	
5°	6821	6840	6831	6858	6850	648
15°	6546	6578	6608	6663	6670	1845
25°	5978	6043	6129	6225	6240	2750
35°	5111	5230	5445	5610	5644	3195
45°	4034	4237	4592	4842	4894	3114
55°	2858	3154	3632	3906	3953	2562
65°	1744	2100	2571	2698	2668	1733
75°	822	1180	1489	1527	1512	876
85°	171	452	746	848	864	198
90°	7	219	482	600	623	16
95°	62	227	463	589	618	208
105°	1296	1350	1390	1138	1062	1232
115°	909	922	1005	1049	1047	919
125°	454	475	536	558	554	427
135°	273	282	309	337	345	216
145°	206	209	215	231	237	131
155°	170	174	175	175	177	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6865.0	6865.0	6865.0	<i>6865.0</i>	6865.0
2.5°	<i>6844.9</i>	<i>6861.7</i>	<i>6851.6</i>	<i>6873.4</i>	<i>6871.7</i>
5°	6821.3	6839.8	6831.4	<i>6858.3</i>	6849.9
7.5°	6781.0	6801.1	6799.5	<i>6829.7</i>	6826.4
10°	6722.2	6744.0	6750.8	<i>6791.1</i>	6791.1
12.5°	6641.6	6670.1	6686.9	<i>6735.7</i>	6737.3
15°	6545.8	6577.7	6608.0	<i>6663.4</i>	6670.1
17.5°	6429.9	6470.2	6512.2	<i>6576.0</i>	6584.5
20°	6298.8	6344.2	6401.3	<i>6468.5</i>	6478.6
22.5°	6147.6	6201.4	6275.3	<i>6354.2</i>	6366.0
25°	5978.0	6043.4	6129.1	<i>6224.9</i>	6240.0
27.5°	5784.7	5860.3	5976.2	<i>6083.8</i>	6097.2
30°	5574.7	5663.7	5808.2	<i>5935.9</i>	5957.8
32.5°	5352.9	5455.4	5633.5	<i>5776.3</i>	5806.5
35°	5110.9	5230.2	5445.3	<i>5610.0</i>	5643.6
37.5°	4872.4	5003.4	5247.0	<i>5435.2</i>	5475.6
40°	4593.4	4756.5	5035.4	<i>5243.7</i>	5292.4
42.5°	4331.4	4507.8	4823.7	<i>5050.5</i>	5097.6
45°	4034.0	4237.3	4591.8	<i>4842.1</i>	4894.2
47.5°	3755.1	3975.2	4368.3	<i>4627.1</i>	4680.8
50°	3461.1	3703.1	4129.8	<i>4400.3</i>	4455.7
52.5°	3167.0	3427.4	3882.8	<i>4163.3</i>	4215.4
55°	2857.9	3153.6	3632.5	<i>3906.3</i>	3953.4
57.5°	2570.6	2883.1	3375.4	<i>3635.8</i>	3664.4
60°	2286.6	2610.9	3113.3	<i>3341.8</i>	3351.9
62.5°	2009.5	2350.5	2844.5	<i>3025.9</i>	3012.5
65°	1744.0	2100.1	2570.6	<i>2698.3</i>	2668.1
67.5°	1488.6	1856.5	2290.0	<i>2372.4</i>	2332.0
70°	1246.7	1619.7	2017.8	<i>2059.8</i>	2022.8
72.5°	1033.2	1394.5	1742.3	<i>1777.6</i>	1750.7
75°	821.6	1179.5	1488.6	<i>1527.3</i>	1512.1
77.5°	623.3	971.1	1255.0	<i>1305.5</i>	1308.9
80°	448.6	781.3	1051.8	<i>1130.7</i>	1140.8
82.5°	295.7	606.5	882.1	<i>982.9</i>	998.0
85°	171.4	451.9	746.0	<i>848.5</i>	863.6
87.5°	73.9	326.0	599.8	<i>692.3</i>	710.7
90°	7.0	219.0	481.5	<i>600.3</i>	623.0
92.5°	26.8	198.3	433.2	<i>550.5</i>	574.3
95°	62.3	227.1	462.7	<i>589.1</i>	618.2
97.5°	335.3	450.3	580.6	<i>717.0</i>	753.0
100°	708.2	803.8	795.8	<i>870.7</i>	901.6
102.5°	1103.8	1185.8	1086.5	<i>997.3</i>	983.0
105°	1295.9	1350.4	1389.9	<i>1138.4</i>	1061.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1065.5	1100.0	1172.8	1213.0	1191.8
115°	909.0	922.0	1004.6	1049.3	1047.3
117.5°	781.1	790.8	865.0	898.6	894.0
120°	659.4	672.9	742.0	763.5	763.2
122.5°	549.0	569.6	631.0	654.3	648.0
125°	454.3	475.0	535.8	558.2	554.5
127.5°	389.9	398.6	454.4	480.3	485.3
130°	336.9	345.6	392.1	422.4	425.7
132.5°	300.4	310.7	346.3	375.8	385.2
135°	272.6	282.0	309.2	337.0	344.6
137.5°	250.0	258.6	277.3	305.1	312.7
140°	232.6	239.4	253.1	276.7	283.4
142.5°	218.6	223.8	231.5	252.6	257.6
145°	206.3	209.0	215.0	231.1	237.0
147.5°	195.9	199.4	203.7	211.4	217.3
150°	186.3	190.7	192.4	195.9	201.8
152.5°	177.6	182.0	183.7	182.9	187.2
155°	169.8	174.1	175.0	175.1	176.8
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1308.1	1359.5	1430.6	1331.4	1188.5
110°	1208.1	1261.4	1332.2	1329.6	1269.4



(END OF REPORT)