

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: P828333

Luminaire Tested: **OHBL-24HE-MFL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828333  
REPORT IS A COMBINATION OF REPORTS P826073 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-24HE-MFL-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

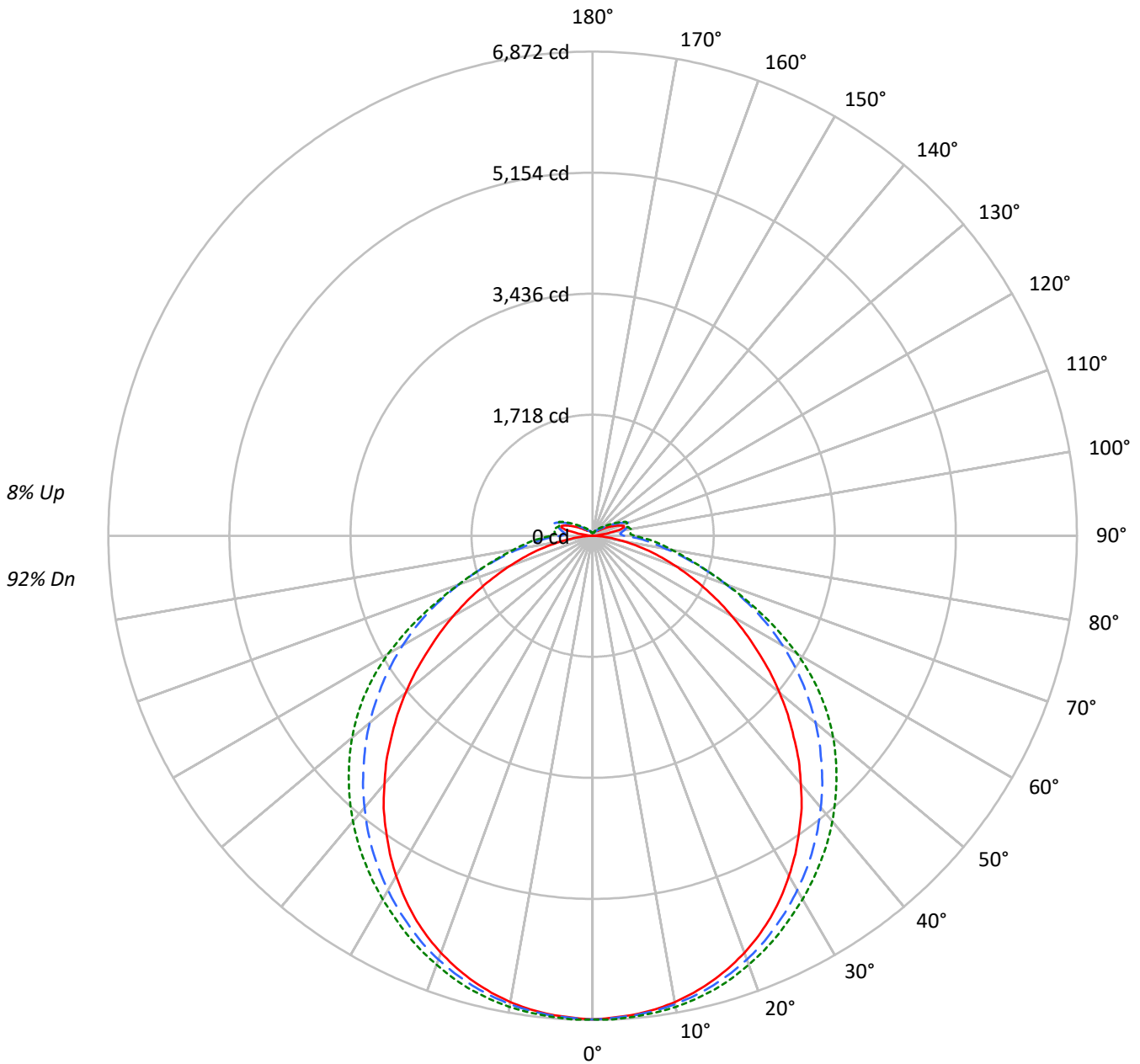
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21628.6 lumens  
Efficiency: N/A  
Efficacy: 153.0 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): 141.4  
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	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	93	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	69	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	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	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	27	36	30	26	24																			
10	52	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°	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	3.0
10°-20°	1866.2	8.6
20°-30°	2822.3	13.0
30°-40°	3388.2	15.7
40°-50°	3499.4	16.2
50°-60°	3148.4	14.6
60°-70°	2371.6	11.0
70°-80°	1432.1	6.6
80°-90°	703.2	3.3
90°-100°	398.2	1.8
100°-110°	528.2	2.4
110°-120°	407.9	1.9
120°-130°	204.0	0.9
130°-140°	103.5	0.5
140°-150°	57.4	0.3
150°-160°	30.5	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5339.0	24.7
0°-40°	8727.1	40.3
0°-60°	15374.9	71.1
0°-90°	19881.8	91.9
90°-120°	1334.3	6.2
90°-150°	1699.3	7.9
90°-180°	1747.0	8.1
0°-180°	21628.6	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°	3	192	448	565	590	13
95°	30	170	394	507	538	79
105°	461	513	564	511	499	437
115°	326	352	428	464	466	327
125°	166	178	231	260	266	155
135°	100	106	130	156	163	80
145°	82	82	85	99	105	51
155°	69	72	71	70	72	30
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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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°	2.6	192.1	447.6	<i>564.6</i>	589.9
92.5°	12.9	166.2	399.3	<i>514.0</i>	536.9
95°	30.2	169.7	394.0	<i>507.4</i>	538.2
97.5°	127.5	228.6	421.5	<i>524.9</i>	548.7
100°	250.1	345.6	455.0	<i>535.1</i>	553.0
102.5°	391.8	453.8	484.8	<i>520.9</i>	528.3
105°	461.2	513.1	563.9	<i>510.6</i>	499.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	376.9	411.4	491.1	520.9	512.8
115°	326.5	351.6	428.1	464.2	465.7
117.5°	277.7	299.6	369.4	403.9	407.2
120°	235.1	253.8	316.0	346.1	352.8
122.5°	200.3	213.1	271.1	300.4	306.3
125°	166.5	177.6	231.4	260.0	265.9
127.5°	139.5	148.2	197.9	227.3	232.3
130°	123.0	128.2	169.5	198.9	204.0
132.5°	110.9	116.9	147.2	174.9	182.6
135°	100.4	106.4	130.1	156.2	162.8
137.5°	93.5	98.6	114.7	139.0	146.6
140°	88.2	92.5	102.7	123.6	130.4
142.5°	84.7	86.4	91.6	110.9	116.8
145°	82.0	82.1	84.6	98.9	104.9
147.5°	77.6	79.4	81.1	87.9	93.8
150°	75.0	77.6	76.8	79.4	84.4
152.5°	71.6	74.2	73.3	72.5	75.9
155°	68.9	71.6	70.7	69.9	71.6
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	463.8	514.4	581.1	539.3	492.1
110°	425.6	473.7	545.3	556.7	520.8



(END OF REPORT)