

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: P828334

Luminaire Tested: **OHBL-24HE-MFL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828334
REPORT IS A COMBINATION OF REPORTS P826241 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-24HE-MFL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

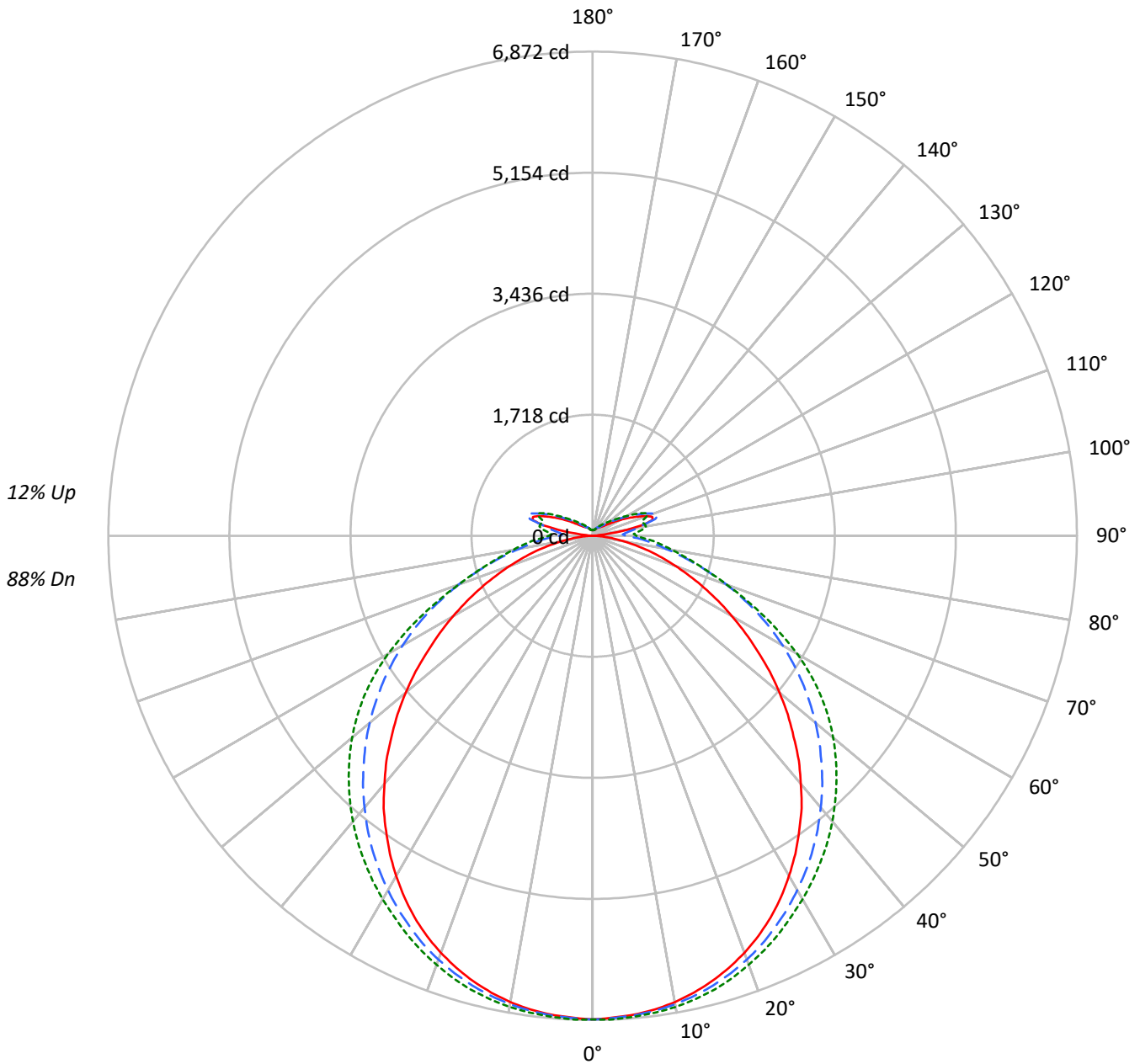
Lumens per Lamp: N/A
Luminaire Lumens: 22650.1 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
Input Voltage (V): NR
Input Current (A_{in}): 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	91	91	91	88																			
1	105	100	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72																			
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	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	37	32	40	35	31	29																			
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
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	29	24	33	27	23	32	26	23	21																			

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	2.9
10°-20°	1866.2	8.2
20°-30°	2822.3	12.5
30°-40°	3388.2	15.0
40°-50°	3499.4	15.4
50°-60°	3148.4	13.9
60°-70°	2371.6	10.5
70°-80°	1432.1	6.3
80°-90°	705.8	3.1
90°-100°	496.4	2.2
100°-110°	868.1	3.8
110°-120°	699.1	3.1
120°-130°	343.9	1.5
130°-140°	173.5	0.8
140°-150°	97.8	0.4
150°-160°	54.0	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5339.0	23.6
0°-40°	8727.1	38.5
0°-60°	15374.9	67.9
0°-90°	19884.4	87.8
90°-120°	2063.6	9.1
90°-150°	2678.8	11.8
90°-180°	2766.0	12.2
0°-180°	22650.1	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°	4	206	468	592	620	14
95°	54	216	469	605	646	150
105°	884	931	919	764	732	839
115°	615	646	722	759	760	621
125°	307	328	384	414	416	288
135°	186	192	219	246	254	147
145°	143	145	149	163	169	90
155°	118	121	121	120	122	52
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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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°	4.3	206.0	467.6	<i>591.6</i>	619.5
92.5°	19.8	185.3	428.9	<i>555.7</i>	585.6
95°	54.5	215.8	468.8	<i>604.8</i>	646.0
97.5°	244.0	353.8	549.3	<i>684.0</i>	727.8
100°	490.0	596.9	651.5	<i>745.5</i>	766.8
102.5°	751.7	814.6	747.4	<i>753.9</i>	758.7
105°	883.8	931.3	918.7	<i>764.5</i>	732.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	716.0	758.3	826.8	850.4	829.3
115°	615.1	646.3	722.0	758.9	760.4
117.5°	529.8	549.1	619.8	656.0	661.9
120°	441.2	464.2	532.4	561.7	563.2
122.5°	372.5	391.3	451.9	482.1	481.9
125°	307.3	328.0	384.5	413.9	416.3
127.5°	260.4	275.1	327.4	358.6	362.7
130°	228.2	236.9	282.6	312.0	317.9
132.5°	203.9	213.4	246.3	276.7	282.6
135°	185.6	192.5	218.8	245.7	254.1
137.5°	170.8	176.8	195.5	221.6	228.3
140°	159.5	164.7	177.5	199.3	206.9
142.5°	149.9	153.4	160.2	180.4	185.5
145°	142.8	144.7	148.9	163.3	169.2
147.5°	135.0	138.5	140.2	148.8	153.8
150°	128.9	132.4	133.3	135.9	141.8
152.5°	122.9	126.3	127.2	126.4	129.8
155°	117.6	121.1	121.1	120.3	122.0
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	887.3	939.5	974.1	848.8	751.2
110°	819.5	869.3	920.9	901.0	824.2



(END OF REPORT)