

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: P830041

Luminaire Tested: **OHBL-24HE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-MCL-UNV-L940-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

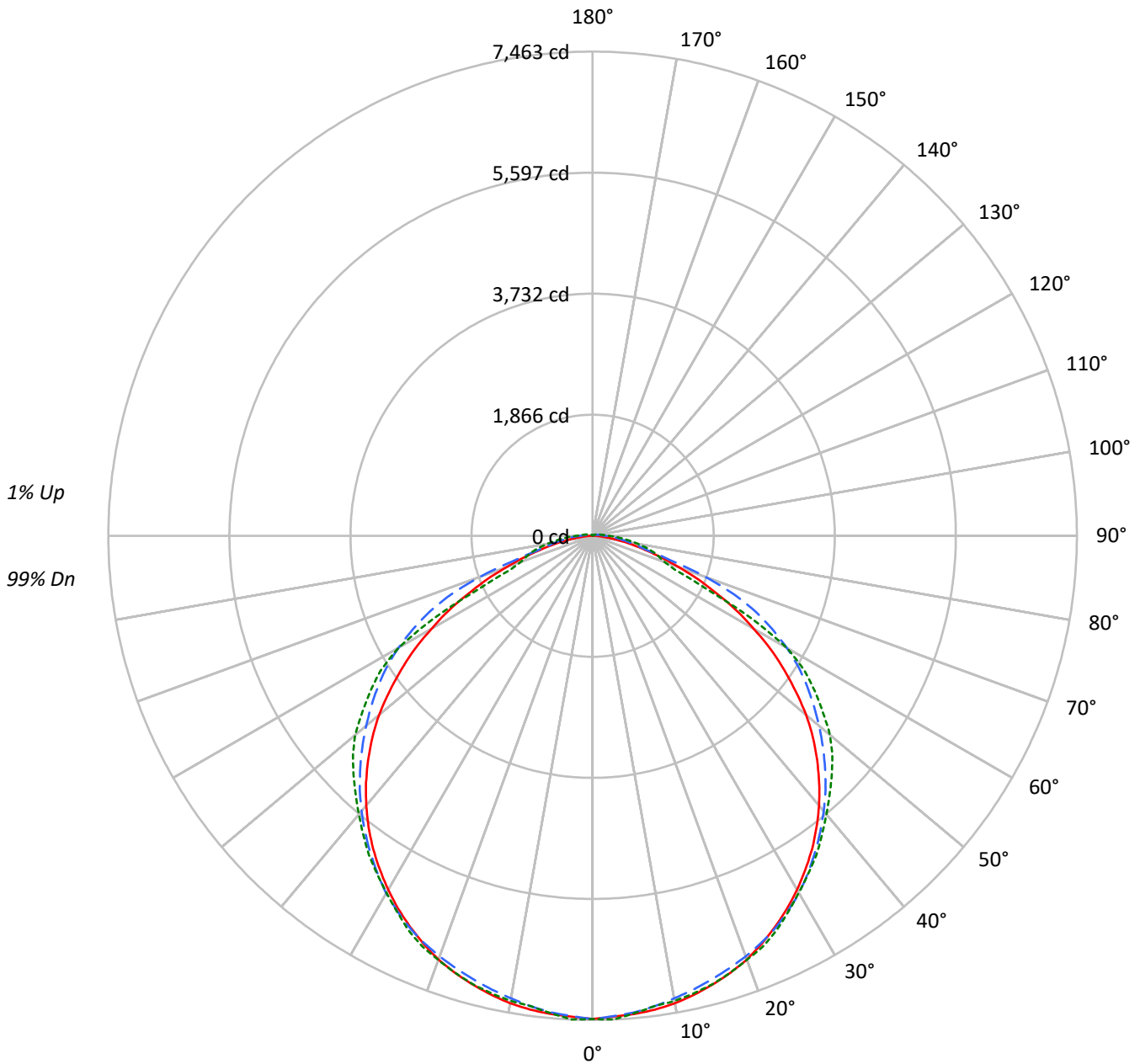
Lumens per Lamp: N/A  
Luminaire Lumens: 21052.0 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 133  
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

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

	0°	45°	90°
0°	11779	11779	11779
5°	11702	11608	11632
10°	11659	11432	11503
15°	11585	11301	11426
20°	11511	11218	11325
25°	11372	11134	11225
30°	11221	11003	11013
35°	11041	10794	10895
40°	10806	10579	10736
45°	10480	10329	10665
50°	10039	10046	10581
55°	9339	9766	10186
60°	8421	9358	9417
65°	7224	8599	5968
70°	5819	6713	4327
75°	4362	3985	4391
80°	3037	3313	4193
85°	1728	3036	3930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	702.3	3.3
10°-20°	2013.9	9.6
20°-30°	3075.8	14.6
30°-40°	3732.0	17.7
40°-50°	3911.5	18.6
50°-60°	3544.4	16.8
60°-70°	2376.4	11.3
70°-80°	1067.1	5.1
80°-90°	387.2	1.8
90°-100°	116.6	0.6
100°-110°	55.0	0.3
110°-120°	27.6	0.1
120°-130°	15.2	0.1
130°-140°	10.5	0.0
140°-150°	7.0	0.0
150°-160°	5.2	0.0
160°-170°	3.3	0.0
170°-180°	1.1	0.0
0°-30°	5792.0	27.5
0°-40°	9524.0	45.2
0°-60°	16979.8	80.7
0°-90°	20810.5	98.9
90°-120°	199.1	0.9
90°-150°	231.8	1.1
90°-180°	241.0	1.1
0°-180°	21052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7448	7448	7448	7448	7448	
5°	7400	7426	7374	7396	7387	704
15°	7160	7132	7081	7143	7152	2021
25°	6651	6622	6668	6730	6710	3066
35°	5895	5909	5970	6033	6009	3685
45°	4893	4972	5065	5194	5210	3769
55°	3600	3774	4031	4193	4183	3214
65°	2113	2444	2774	2341	1912	2105
75°	831	1206	887	908	967	909
85°	143	275	352	425	446	175
90°	1	92	182	228	239	9
95°	1	57	125	152	156	1
105°	4	25	61	74	78	5
115°	9	13	31	40	42	8
125°	8	9	19	23	24	7
135°	10	11	12	17	18	8
145°	10	11	11	12	13	6
155°	11	12	12	12	11	5
165°	12	12	12	12	12	3
175°	12	12	11	10	10	1
180°	11	11	11	11	11	



TEST NUMBER: P830041

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7448.2	7448.2	7448.2	7448.2	7448.2
2.5°	7418.1	7449.3	7410.5	7452.5	7463.3
5°	7399.8	7425.6	7373.9	7396.5	7386.8
7.5°	7366.4	7375.0	7313.6	7331.9	7312.5
10°	7316.8	7312.5	7240.4	7275.9	7280.2
12.5°	7243.6	7230.7	7166.1	7219.9	7221.0
15°	7159.6	7131.6	7081.0	7143.4	7152.1
17.5°	7062.7	7026.0	6992.7	7073.4	7060.5
20°	6949.6	6906.5	6900.0	6988.4	6956.0
22.5°	6809.6	6776.2	6791.3	6875.3	6854.8
25°	6651.3	6622.2	6668.5	6729.9	6710.5
27.5°	6484.3	6467.1	6519.9	6567.3	6529.6
30°	6301.3	6291.6	6361.6	6400.3	6353.0
32.5°	6102.0	6105.3	6172.0	6224.8	6180.6
35°	5895.2	5909.2	5969.6	6033.1	6009.4
37.5°	5668.0	5699.2	5759.6	5831.7	5806.9
40°	5427.8	5473.1	5539.9	5627.1	5604.5
42.5°	5168.3	5225.4	5311.5	5408.5	5406.3
45°	4892.6	4972.3	5064.9	5194.2	5210.3
47.5°	4606.1	4695.5	4812.9	4985.2	5010.0
50°	4294.9	4406.9	4553.4	4760.1	4775.2
52.5°	3948.1	4101.0	4294.9	4493.1	4474.7
55°	3600.3	3773.6	4031.0	4192.6	4182.9
57.5°	3253.5	3448.4	3760.7	3876.0	3874.9
60°	2865.8	3112.4	3453.8	3541.0	3454.9
62.5°	2507.1	2772.1	3126.4	3062.9	2767.8
65°	2113.0	2443.6	2774.2	2341.3	1911.6
67.5°	1763.0	2107.6	2356.4	1603.6	1373.1
70°	1410.8	1791.0	1837.3	1190.0	1173.9
72.5°	1098.5	1503.4	1267.6	1018.8	1070.5
75°	831.4	1206.2	887.4	907.9	967.1
77.5°	606.3	926.2	690.3	795.9	844.3
80°	416.8	655.9	563.2	668.8	702.2
82.5°	261.7	432.9	451.2	538.5	572.9
85°	143.2	274.6	352.2	425.4	445.9
87.5°	59.2	165.9	269.2	328.5	345.7
90°	1.1	91.5	182.0	228.3	239.1
92.5°	1.1	70.0	148.6	184.2	191.7
95°	1.1	57.1	124.9	151.9	156.2
97.5°	2.2	45.2	104.5	126.0	130.3
100°	3.2	37.7	87.2	105.5	108.8
102.5°	4.3	30.2	73.2	88.3	91.5
105°	4.3	24.8	61.4	74.3	77.5



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CATALOG NUMBER: OHBL-24HE-MCL-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	15.1	36.6	46.3	48.5
115°	8.6	12.9	31.2	39.8	42.0
117.5°	8.6	10.8	26.9	33.4	35.5
120°	8.6	9.7	23.7	29.1	30.2
122.5°	8.6	8.6	20.5	25.8	26.9
125°	7.5	8.6	19.4	22.6	23.7
127.5°	8.6	8.6	17.2	20.5	21.5
130°	8.6	9.7	15.1	19.4	19.4
132.5°	9.7	10.8	14.0	18.3	18.3
135°	9.7	10.8	11.8	17.2	18.3
137.5°	10.8	10.8	10.8	16.2	17.2
140°	10.8	10.8	9.7	14.0	15.1
142.5°	9.7	10.8	9.7	12.9	14.0
145°	9.7	10.8	10.8	11.8	12.9
147.5°	10.8	10.8	10.8	10.8	11.8
150°	10.8	10.8	10.8	10.8	10.8
152.5°	10.8	10.8	10.8	10.8	10.8
155°	10.8	11.8	11.8	11.8	10.8
157.5°	10.8	11.8	11.8	11.8	11.8
160°	10.8	11.8	11.8	11.8	11.8
162.5°	11.8	11.8	11.8	11.8	11.8
165°	11.8	11.8	11.8	11.8	11.8
167.5°	11.8	12.9	11.8	11.8	11.8
170°	11.8	11.8	11.8	10.8	10.8
172.5°	11.8	11.8	11.8	10.8	10.8
175°	11.8	11.8	10.8	9.7	9.7
177.5°	12.9	11.8	10.8	9.7	8.6
180°	10.8	10.8	10.8	10.8	10.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	5.4	20.5	52.8	63.5	65.7
110°	6.5	17.2	44.2	53.8	56.0



(END OF REPORT)