

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: P830047

Luminaire Tested: **OHBL-24HE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-MFL-UNV-L830-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

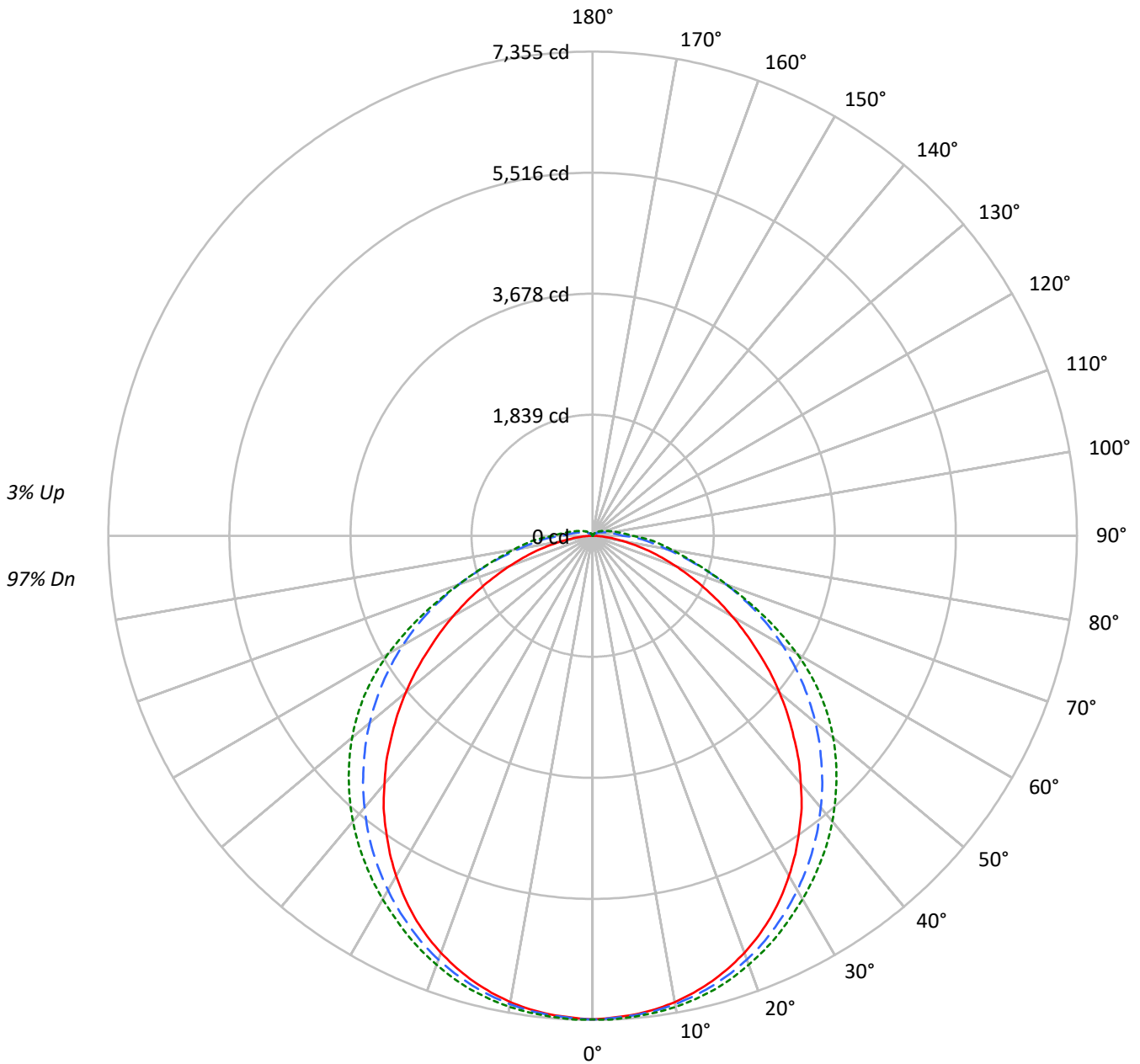
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21990.0 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	11620	11620	11620
5°	11546	11510	11545
10°	11465	11408	11485
15°	11337	11287	11405
20°	11167	11139	11289
25°	10940	10953	11171
30°	10625	10752	11053
35°	10245	10539	10951
40°	9788	10291	10851
45°	9249	10023	10722
50°	8659	9751	10567
55°	7934	9419	10304
60°	7192	9028	9779
65°	6382	8528	8915
70°	5503	7891	7981
75°	4614	7154	7349
80°	3498	6622	7291
85°	2213	6883	8147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.2	3.2
10°-20°	1997.4	9.1
20°-30°	3020.6	13.7
30°-40°	3626.3	16.5
40°-50°	3745.4	17.0
50°-60°	3369.7	15.3
60°-70°	2538.3	11.5
70°-80°	1532.7	7.0
80°-90°	749.6	3.4
90°-100°	315.5	1.4
100°-110°	180.1	0.8
110°-120°	105.7	0.5
120°-130°	59.8	0.3
130°-140°	31.5	0.1
140°-150°	15.3	0.1
150°-160°	5.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5714.2	26.0
0°-40°	9340.6	42.5
0°-60°	16455.6	74.8
0°-90°	21276.4	96.8
90°-120°	601.4	2.7
90°-150°	708.0	3.2
90°-180°	714.0	3.2
0°-180°	21990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7348	7348	7348	7348	7348	
5°	7301	7321	7312	7340	7331	694
15°	7006	7040	7072	7132	7139	1975
25°	6398	6468	6560	6662	6679	2943
35°	5470	5598	5828	6004	6040	3420
45°	4318	4535	4915	5182	5238	3333
55°	3059	3375	3888	4181	4231	2742
65°	1867	2248	2751	2888	2856	1854
75°	879	1262	1593	1635	1618	938
85°	183	484	798	908	924	212
90°	0	189	457	575	599	12
95°	9	128	342	435	451	8
105°	13	74	198	259	270	13
115°	14	41	122	164	171	15
125°	14	20	74	106	112	13
135°	13	16	38	65	72	10
145°	18	16	18	32	38	11
155°	18	20	18	16	18	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830047

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7347.6	7347.6	7347.6	7347.6	7347.6
2.5°	7326.0	7344.0	7333.2	7356.5	7354.8
5°	7300.8	7320.6	7311.6	7340.4	7331.4
7.5°	7257.6	7279.2	7277.4	7309.8	7306.2
10°	7194.7	7218.1	7225.3	7268.4	7268.4
12.5°	7108.4	7139.0	7156.9	7209.1	7210.9
15°	7005.9	7040.1	7072.4	7131.8	7139.0
17.5°	6881.8	6925.0	6969.9	7038.3	7047.3
20°	6741.6	6790.1	6851.2	6923.2	6934.0
22.5°	6579.7	6637.3	6716.4	6800.9	6813.5
25°	6398.1	6468.2	6559.9	6662.4	6678.6
27.5°	6191.3	6272.2	6396.3	6511.4	6525.8
30°	5966.5	6061.8	6216.5	6353.1	6376.5
32.5°	5729.2	5838.8	6029.5	6182.3	6214.7
35°	5470.2	5597.9	5828.1	6004.3	6040.2
37.5°	5214.9	5355.1	5615.9	5817.3	5860.4
40°	4916.4	5090.8	5389.3	5612.3	5664.4
42.5°	4635.8	4824.6	5162.7	5405.5	5455.8
45°	4317.5	4535.1	4914.6	5182.5	5238.2
47.5°	4019.0	4254.6	4675.4	4952.3	5009.9
50°	3704.3	3963.3	4420.0	4709.6	4768.9
52.5°	3389.7	3668.4	4155.7	4456.0	4511.8
55°	3058.8	3375.3	3887.8	4180.9	4231.2
57.5°	2751.3	3085.8	3612.6	3891.4	3921.9
60°	2447.4	2794.4	3332.1	3576.7	3587.5
62.5°	2150.7	2515.7	3044.4	3238.6	3224.2
65°	1866.6	2247.8	2751.3	2888.0	2855.6
67.5°	1593.2	1987.0	2451.0	2539.1	2495.9
70°	1334.3	1733.5	2159.7	2204.6	2165.1
72.5°	1105.9	1492.5	1864.8	1902.5	1873.8
75°	879.3	1262.4	1593.2	1634.6	1618.4
77.5°	667.1	1039.4	1343.3	1397.2	1400.8
80°	480.1	836.2	1125.7	1210.2	1221.0
82.5°	316.5	649.2	944.1	1052.0	1068.1
85°	183.4	483.7	798.4	908.1	924.3
87.5°	79.1	348.9	642.0	740.9	760.7
90°	0.0	188.8	456.7	575.4	598.8
92.5°	5.4	156.4	392.0	499.9	519.7
95°	9.0	127.7	341.7	435.2	451.4
97.5°	10.8	107.9	296.7	379.4	395.6
100°	10.8	93.5	257.1	332.7	347.1
102.5°	10.8	82.7	224.8	291.3	303.9
105°	12.6	73.7	197.8	258.9	269.7



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CATALOG NUMBER: OHBL-24HE-MFL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.4	48.6	136.7	183.4	190.6
115°	14.4	41.4	122.3	163.6	170.8
117.5°	16.2	36.0	107.9	147.5	152.8
120°	16.2	30.6	95.3	131.3	138.5
122.5°	16.2	25.2	84.5	118.7	124.1
125°	14.4	19.8	73.7	106.1	111.5
127.5°	12.6	16.2	62.9	95.3	100.7
130°	12.6	14.4	53.9	84.5	89.9
132.5°	12.6	16.2	45.0	73.7	80.9
135°	12.6	16.2	37.8	64.7	71.9
137.5°	12.6	16.2	30.6	55.7	62.9
140°	14.4	16.2	25.2	46.8	53.9
142.5°	16.2	16.2	19.8	39.6	45.0
145°	18.0	16.2	18.0	32.4	37.8
147.5°	18.0	18.0	18.0	25.2	30.6
150°	18.0	19.8	18.0	19.8	25.2
152.5°	18.0	19.8	18.0	16.2	19.8
155°	18.0	19.8	18.0	16.2	18.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.6	64.7	174.4	230.2	239.2
110°	12.6	57.5	154.6	205.0	214.0



(END OF REPORT)