

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: P830071

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-NL-UNV-L830-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

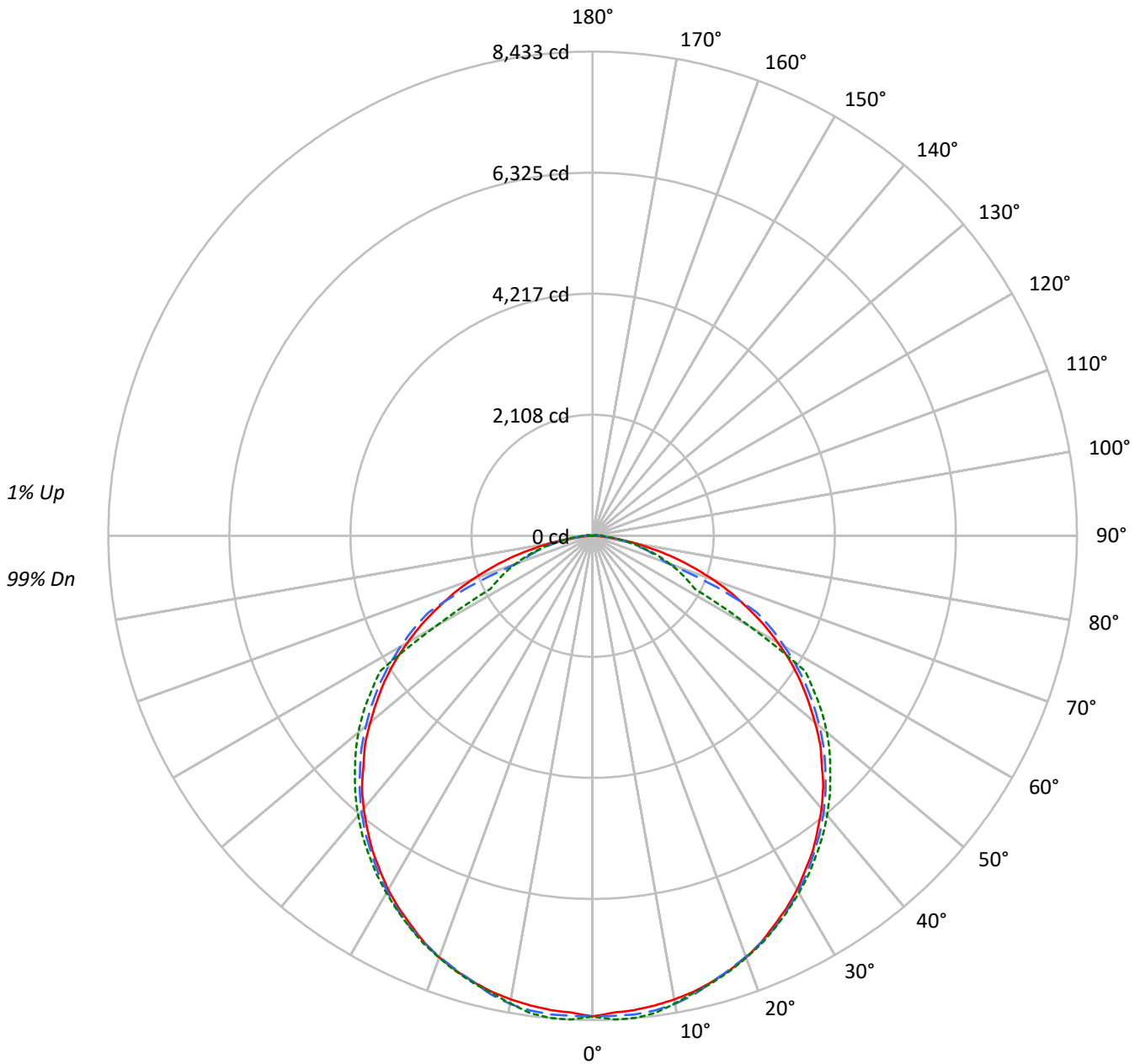
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23503.0 lumens
Efficiency: N/A
Efficacy: 176.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13239	13239	13239
5°	13166	13285	13385
10°	13169	13294	13278
15°	13167	13165	13194
20°	13149	13129	13161
25°	13059	13126	13136
30°	12999	13066	13117
35°	12915	12985	13107
40°	12803	12924	13115
45°	12618	12809	13088
50°	12428	12682	13100
55°	12190	12506	12956
60°	11782	12200	10087
65°	11147	11795	6789
70°	10310	6262	6588
75°	8993	5950	6292
80°	6916	5459	5766
85°	3491	5516	5649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.3	3.4
10°-20°	2277.1	9.7
20°-30°	3464.9	14.7
30°-40°	4212.8	17.9
40°-50°	4429.5	18.8
50°-60°	4044.7	17.2
60°-70°	2592.9	11.0
70°-80°	1224.8	5.2
80°-90°	339.6	1.4
90°-100°	89.9	0.4
100°-110°	24.6	0.1
110°-120°	6.8	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6537.3	27.8
0°-40°	10750.1	45.7
0°-60°	19224.3	81.8
0°-90°	23381.6	99.5
90°-120°	121.4	0.5
90°-150°	121.4	0.5
90°-180°	121.0	0.5
0°-180°	23503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8371	8371	8371	8371	8371	
5°	8293	8326	8368	8414	8431	789
15°	8042	8102	8041	8052	8058	2270
25°	7484	7496	7522	7534	7528	3453
35°	6689	6650	6726	6808	6789	4180
45°	5642	5632	5727	5862	5852	4361
55°	4421	4388	4536	4687	4699	3943
65°	2979	2979	3152	1808	1814	2953
75°	1472	1500	974	1025	1030	1551
85°	192	244	304	329	311	284
90°	0	82	135	160	157	8
95°	4	43	97	131	131	2
105°	7	16	24	24	22	7
115°	7	10	15	10	1	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8371.2	8371.2	8371.2	8371.2	8371.2
2.5°	8312.4	8340.4	8371.2	8410.8	8432.7
5°	8293.3	8325.6	8368.2	8413.8	8431.3
7.5°	8252.2	8297.6	8338.8	8371.2	8381.4
10°	8200.7	8255.2	8278.6	8275.7	8268.4
12.5°	8131.7	8189.1	8181.7	8147.8	8153.8
15°	8042.1	8102.3	8040.7	8052.4	8058.3
17.5°	7936.3	7995.1	7923.1	7946.6	7948.2
20°	7813.0	7857.0	7801.2	7820.3	7820.3
22.5°	7664.7	7695.5	7672.0	7685.2	7688.1
25°	7484.0	7495.6	7522.1	7533.9	7528.0
27.5°	7310.7	7295.9	7347.4	7375.3	7360.5
30°	7118.2	7094.7	7154.9	7200.5	7182.9
32.5°	6897.8	6883.2	6952.3	7006.5	6996.3
35°	6689.3	6649.6	6726.0	6808.2	6789.1
37.5°	6442.5	6419.0	6505.6	6592.4	6582.1
40°	6201.6	6161.9	6260.4	6363.2	6352.9
42.5°	5943.1	5896.0	6003.3	6126.8	6115.0
45°	5641.9	5631.6	5727.1	5862.3	5852.0
47.5°	5374.7	5323.2	5456.8	5587.6	5599.4
50°	5051.4	5032.4	5154.4	5313.0	5324.6
52.5°	4735.7	4722.5	4850.2	5010.4	5030.9
55°	4421.3	4387.5	4535.9	4687.2	4699.0
57.5°	4085.0	4049.7	4201.1	4365.6	4390.5
60°	3725.0	3691.3	3857.2	4010.1	3189.0
62.5°	3365.2	3341.7	3515.1	2489.8	2006.6
65°	2978.9	2978.9	3152.1	1808.2	1814.1
67.5°	2617.6	2594.1	2350.3	1624.5	1624.5
70°	2229.8	2238.6	1354.2	1423.4	1424.8
72.5°	1840.5	1872.9	1169.3	1225.0	1227.9
75°	1471.8	1499.8	973.8	1025.3	1029.7
77.5°	1081.1	831.4	782.9	822.7	824.1
80°	759.4	524.4	599.4	637.5	633.1
82.5°	443.5	367.2	439.2	467.2	465.6
85°	192.4	243.8	304.0	329.1	311.3
87.5°	61.6	151.3	189.4	204.2	202.6
90°	0.0	82.3	135.1	160.0	157.2
92.5°	0.0	64.5	117.6	147.0	148.4
95°	4.4	42.6	97.0	130.8	130.8
97.5°	3.0	30.8	69.0	102.8	105.7
100°	3.0	24.9	45.6	73.4	75.0
102.5°	7.3	20.5	27.8	47.0	48.5
105°	7.3	16.2	23.5	23.5	22.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.9	11.8	16.2	11.8	1.4
115°	7.3	10.3	14.6	10.3	1.4
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	7.3	14.6	20.5	13.2	4.4
110°	8.9	13.2	17.6	11.8	1.4



(END OF REPORT)