

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: P829190

Luminaire Tested: **OHB-24HE-MFL-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829190  
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: OHB-24HE-MFL-UNV-L950-CD  
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

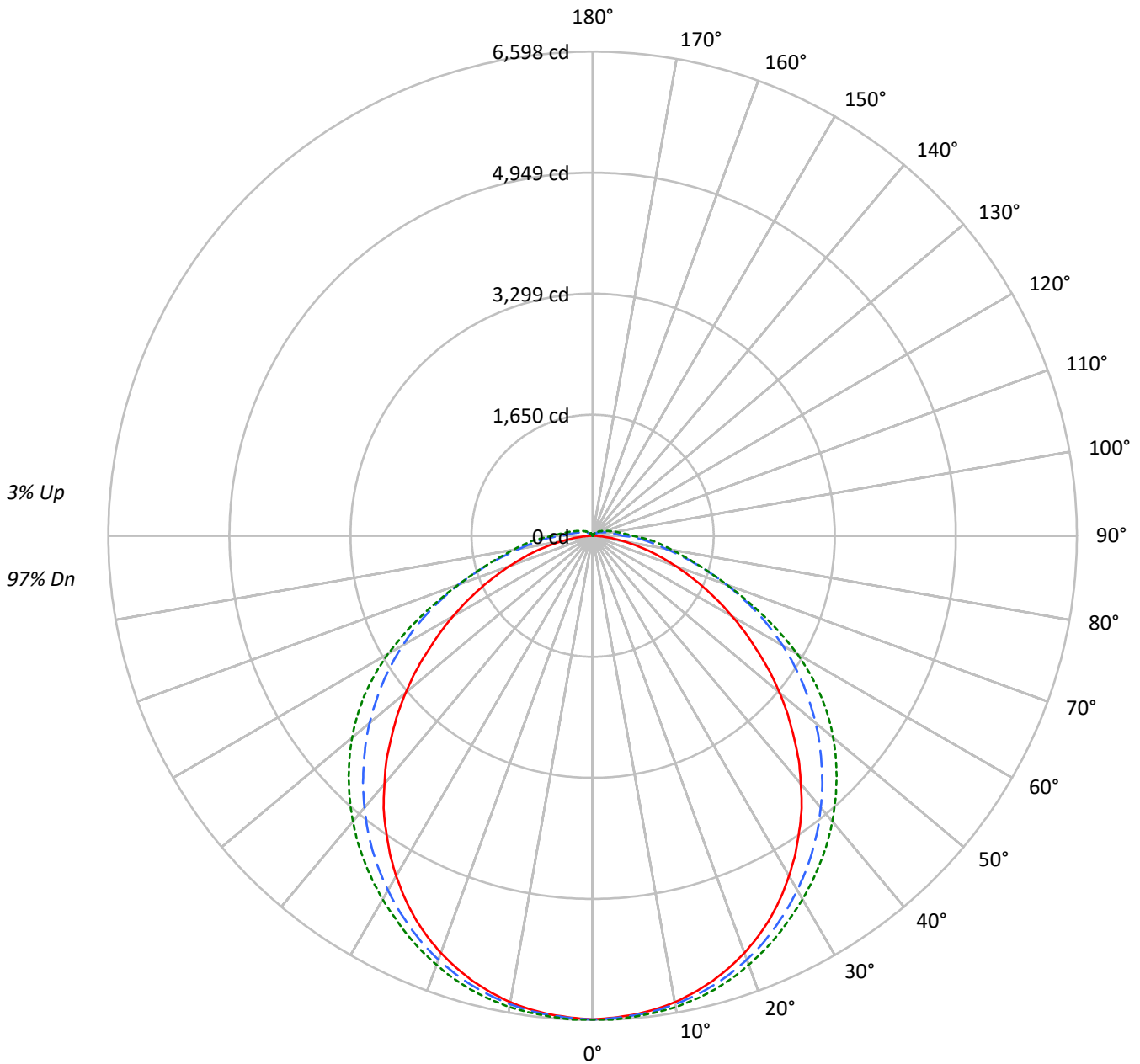
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19729.0 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 130  
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°	20390	20390	20390
5°	20185	20145	20259
10°	19970	19916	20152
15°	19673	19653	20013
20°	19303	19342	19809
25°	18833	18967	19603
30°	18212	18564	19396
35°	17476	18138	19217
40°	16608	17650	19040
45°	15599	17122	18815
50°	14502	16583	18542
55°	13176	15932	18080
60°	11818	15171	17158
65°	10344	14212	15644
70°	8753	13005	14004
75°	7133	11605	12895
80°	5153	10476	12794
85°	2942	10395	14297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.6	3.2
10°-20°	1792.0	9.1
20°-30°	2710.1	13.7
30°-40°	3253.5	16.5
40°-50°	3360.3	17.0
50°-60°	3023.2	15.3
60°-70°	2277.3	11.5
70°-80°	1375.1	7.0
80°-90°	672.6	3.4
90°-100°	283.1	1.4
100°-110°	161.6	0.8
110°-120°	94.9	0.5
120°-130°	53.6	0.3
130°-140°	28.2	0.1
140°-150°	13.7	0.1
150°-160°	5.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5126.7	26.0
0°-40°	8380.2	42.5
0°-60°	14763.7	74.8
0°-90°	19088.7	96.8
90°-120°	539.6	2.7
90°-150°	635.2	3.2
90°-180°	640.0	3.2
0°-180°	19729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6592	6592	6592	6592	6592	
5°	6550	6568	6560	6586	6578	622
15°	6286	6316	6345	6398	6405	1772
25°	5740	5803	5885	5977	5992	2640
35°	4908	5022	5229	5387	5419	3068
45°	3874	4069	4409	4650	4700	2991
55°	2744	3028	3488	3751	3796	2460
65°	1675	2017	2468	2591	2562	1664
75°	789	1133	1429	1466	1452	842
85°	165	434	716	815	829	190
90°	0	169	410	516	537	10
95°	8	114	306	390	405	7
105°	11	66	178	232	242	11
115°	13	37	110	147	153	13
125°	13	18	66	95	100	12
135°	11	14	34	58	64	9
145°	16	14	16	29	34	10
155°	16	18	16	14	16	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829190

CATALOG NUMBER: OHB-24HE-MFL-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6592.1	6592.1	6592.1	6592.1	6592.1
2.5°	6572.7	6588.9	6579.2	6600.2	6598.5
5°	6550.1	6567.9	6559.8	6585.6	6577.6
7.5°	6511.4	6530.8	6529.2	6558.2	6555.0
10°	6455.0	6475.9	6482.4	6521.1	6521.1
12.5°	6377.5	6404.9	6421.1	6467.9	6469.5
15°	6285.6	6316.2	6345.2	6398.5	6404.9
17.5°	6174.2	6213.0	6253.3	6314.6	6322.7
20°	6048.4	6092.0	6146.8	6211.3	6221.0
22.5°	5903.2	5954.8	6025.8	6101.6	6112.9
25°	5740.2	5803.2	5885.4	5977.4	5991.9
27.5°	5554.7	5627.3	5738.6	5841.9	5854.8
30°	5353.0	5438.6	5577.3	5699.9	5720.9
32.5°	5140.1	5238.5	5409.5	5546.6	5575.7
35°	4907.8	5022.3	5228.8	5386.9	5419.2
37.5°	4678.7	4804.5	5038.4	5219.1	5257.9
40°	4410.9	4567.4	4835.2	5035.2	5082.0
42.5°	4159.2	4328.6	4631.9	4849.7	4894.9
45°	3873.6	4068.8	4409.2	4649.6	4699.6
47.5°	3605.8	3817.2	4194.7	4443.1	4494.8
50°	3323.5	3555.8	3965.6	4225.3	4278.6
52.5°	3041.1	3291.2	3728.4	3997.8	4047.9
55°	2744.3	3028.2	3488.0	3751.0	3796.2
57.5°	2468.4	2768.5	3241.2	3491.3	3518.7
60°	2195.7	2507.1	2989.5	3208.9	3218.6
62.5°	1929.5	2257.1	2731.4	2905.6	2892.7
65°	1674.6	2016.7	2468.4	2591.0	2562.0
67.5°	1429.4	1782.7	2199.0	2278.0	2239.3
70°	1197.1	1555.3	1937.6	1977.9	1942.5
72.5°	992.2	1339.1	1673.0	1706.9	1681.1
75°	788.9	1132.6	1429.4	1466.5	1452.0
77.5°	598.5	932.5	1205.2	1253.6	1256.8
80°	430.8	750.2	1009.9	1085.8	1095.5
82.5°	283.9	582.4	847.0	943.8	958.3
85°	164.6	434.0	716.3	814.7	829.3
87.5°	71.0	313.0	576.0	664.7	682.4
90°	0.0	169.4	409.8	516.3	537.2
92.5°	4.8	140.4	351.7	448.5	466.3
95°	8.1	114.5	306.5	390.4	404.9
97.5°	9.7	96.8	266.2	340.4	354.9
100°	9.7	83.9	230.7	298.5	311.4
102.5°	9.7	74.2	201.7	261.4	272.7
105°	11.3	66.1	177.5	232.3	242.0



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CATALOG NUMBER: OHB-24HE-MFL-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.9	43.6	122.6	164.6	171.0
115°	12.9	37.1	109.7	146.8	153.3
117.5°	14.5	32.3	96.8	132.3	137.1
120°	14.5	27.4	85.5	117.8	124.2
122.5°	14.5	22.6	75.8	106.5	111.3
125°	12.9	17.7	66.1	95.2	100.0
127.5°	11.3	14.5	56.5	85.5	90.3
130°	11.3	12.9	48.4	75.8	80.7
132.5°	11.3	14.5	40.3	66.1	72.6
135°	11.3	14.5	33.9	58.1	64.5
137.5°	11.3	14.5	27.4	50.0	56.5
140°	12.9	14.5	22.6	41.9	48.4
142.5°	14.5	14.5	17.7	35.5	40.3
145°	16.1	14.5	16.1	29.0	33.9
147.5°	16.1	16.1	16.1	22.6	27.4
150°	16.1	17.7	16.1	17.7	22.6
152.5°	16.1	17.7	16.1	14.5	17.7
155°	16.1	17.7	16.1	14.5	16.1
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°	11.3	58.1	156.5	206.5	214.6
110°	11.3	51.6	138.7	183.9	192.0



(END OF REPORT)